QUANTITATIVE SEDIMENT PROVENANCE MODELLING IN THE PALEOGENE NORTHERN ALTIPLANO BASIN, SOUTHERN PERU USING DETRITAL ZIRCON GEOCHRONOLOGY

by
Jeffrey Brunus Hensley

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Chair of Committee: Thomas Lapen

Committee Member: Emily Beverly

Committee Member: Joel Saylor

Committee Member: Nicholas Perez

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ABSTRACT

Opposing models of orogenic growth in the central Andes propose different timing and loci of crustal shortening, exhumation, and topographic growth. Discriminating between Eastern and Western Cordilleran sources provides a critical test of these models. However, southern Peru experienced several phases of basin formation and subsequent sediment recycling, rendering unique identification of sediment sources difficult. I examine this question using measured stratigraphic sections and multiple provenance methods from locations spanning the magmatic arc to the fold-thrust belt in southern Peru.

Correlation of stratigraphic sections based on detrital zircon maximum depositional ages allows identification of coeval depositional systems and elucidation of their sediment dispersal patterns. Lithofacies analysis indicates predominantly fluvial–alluvial fan depositional environments, with minor floodplain deposits. Paleocurrent data indicate that these fluvial networks flowed transversely north–northeastward, implicating sources in the Western Cordilleran magmatic arc. Conglomerate clast counts also show abundances of volcanic and plutonic clasts suggesting a Western Cordilleran influence. However, point count data indicates sourcing primarily from the fold-thrust belt and craton, east of the study area. In order to resolve this apparent inconsistency, I apply both top-down and bottom-up mixture modelling approaches to detrital zircon U-Pb ages from sediments in the Paleogene Muñani Formation and Puno Group.

Both of these methods indicate that sources exposed in the Eastern Cordillera contributed to basin strata. Differences in the modelled relative contributions highlight the difficultly in discriminating sediment sources in the central Andes. Whereas top-down modelling indicates dominantly Western Cordilleran derived sediment (~50%) with minimal Eastern Cordilleran

sources (<5%), bottom-up modelling suggests Eastern Cordilleran sediments contribute up to 30%. Integration of point count, detrital zircon, and paleocurrent data is consistent with a scenario in which exhumation of the Western Cordillera starting in the Late Cretaceous provided the majority of the sediment to basins to the east while localized exhumation of Eastern Cordilleran strata in the late Paleocene–early Eocene shed sediment eastward, dominating basins immediately to the east. This scenario reconciles the basin history with thermo-kinematic models and suggests that the southern Peruvian Altiplano Basin developed as a partitioned basin, disrupted by internal uplifts, since at least the Eocene.

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1. INTRODUCTION

The Andes is the longest (>7500 km N-S) modern orogenic system related to an ocean-continent subduction margin and provides archetypal examples for the development of orogenic (Jordan et al., 1983) and basin models (DeCelles and Horton, 2003). Two broad categories of models have been articulated with respect to the tectonic evolution of the central Andean retroarc. The first envisions a broadly contiguous foreland basin with subsidence driven by loading by the Western Cordilleran magmatic arc and a retroarc fold-thrust belt. Often cited in support of this hypothesis is a widely observed Eocene unconformity or condensed section which is interpreted as passage of the flexural forebulge (Horton et al., 2001; DeCelles and Horton, 2003). Alternative models suggest either that the retroarc foreland basin never incorporated both the Altiplano and Subandean zones (Perez et al., 2016) or that the basin was partitioned by uplift of the Eastern Cordillera in the Paleocene–Eocene (Figure 1B). For example, unique sediment provenance data from Cenozoic Altiplano and Subandean strata have been used to argue that the Eastern Cordillera separated these two basins throughout the Cenozoic (Perez et al., 2016). Thermo-kinematic modelling supports the latter model and suggests that shortening in the Bolivian Eastern Cordillera initiated in the Eocene (~50 Ma) (McQuarrie et al., 2005; Gillis et al., 2006, Rak et al., 2017; Parks and McQuarrie, 2019).

Sediment provenance data in the Altiplano basins has the potential to discriminate between these hypotheses. Currently, paleocurrent measurements, point count analyses, conglomerate clast counts, and U-Pb detrital zircon mixture modelling from Eocene strata in the Altiplano are consistent with western-derived sediment, suggesting minimal input from the Eastern Cordillera (Horton et al., 2002; Perez and Horton, 2014; Sundell et al., 2018). Eastern Cordilleran provenance signatures have only been identified in Oligocene and younger strata (Horton et al., 2001; Leier et

al., 2010; Perez and Horton, 2014), leading to conflicting interpretations between basin and thermochronological studies. These contradictory results hamper development of a robust, unified tectonic model for the Eocene–Oligocene that incorporates basin development, sediment provenance, and Eastern Cordilleran structure and thermochronological data. Tectonic models are further hampered by a lack of detailed stratal ages and reliance on lithostratigraphy for long-distance correlations.

This study addresses this question via sedimentological and provenance analysis of ~5.5 km of late Paleocene–Oligocene nonmarine siliciclastic strata spanning the southernmost Peruvian Western Cordillera–Eastern Cordilleran back-thrust belt (Figures 1 and 2). We integrate sandstone petrography, conglomerate clast counts, U-Pb detrital zircon mixture modelling, and paleocurrent measurements to decipher sediment provenance. We take advantage of the increase in statistical robustness of quantitative comparison and modelling of U-Pb detrital zircon geochronological data sets enabled by large data sets (Vermeesch, 2004; Gehrels et al., 2011; Saylor and Sundell, 2016). Because sediment source regions are difficult to determine a priori and are sometimes not preserved for sampling, we apply a new factorization approach that identifies potential source age distributions without reference to or identification of existing sources. These techniques have been developed and applied to U-Pb detrital zircon data in North America (Sharman and Johnstone, 2017; Saylor et al., 2019): we apply them to Altiplano data for the first time. Whereas paleocurrent indicators show dominant flow oriented to the east, integrated provenance data implicate sources with an Eastern Cordilleran affinity. We suggest a model which reconciles provenance data with thermo-kinematic modelling in which Paleogene deformation in the Eastern Cordillera was focused in the backthrust belt (Fig. 1B).

1.1 Geologic Setting

Although western South America was the locus of subduction since the Late Triassic-Jurassic (Coira et al., 1982; Pepper et al., 2016), incipient crustal thickening was not observed until the Late Cretaceous (~89 Ma) transition from neutral or extensional to compressional tectonics (Daly, 1989; Mpodozis and Ramos, 1989; Ramos, 1999; 2000; 2009; Mamani et al., 2010). Opening of the south Atlantic Ocean and associated westward absolute motion of the South American plate initiated retroarc compression and Andean mountain building (Mpodozis and Ramos, 1990; Somoza and Zaffarana, 2008), ultimately leading to the formation of a high plateau in the central Andes. Between 15°S and 27°S, the Altiplano-Puna plateau is characterized by a low relief, high topography (>3.5 km average elevation) region bound by higher topographies in the Eastern and Western cordilleras.

The Altiplano-Puna plateau stretches ~1800 km from southern Peru to northern Argentina and is up to 400 km at its widest point in Bolivia (Allmendinger et al., 1997; Isacks, 1988). The western flank of the Altiplano-Puna plateau is bound by the high topography of the Western Cordillera, a Paleozoic–Neogene magmatic arc (Kontank et al., 1990; Sandeman et al., 1995; Sempere et al., 2002; Mamani et al., 2010). The Eastern Cordillera and Eastern Cordilleran backthrust belt mark the eastern edge of the Altiplano. Whereas the backthrust belt is largely composed of Cretaceous marine sandstones, the Eastern Cordilleran fold-thrust belt exposes Paleozoic strata (Sempere et al., 1990) (Figure 1).

Strata variably mapped as the Muñani Formation and Puno Group outcrop near Lake Titicaca (Figure 2). These non-marine strata are currently assigned Eocene and Oligocene depositional ages, respectively (Carlotto, 2013; Perez and Horton, 2014). The Muñani Formation has previously been designated an Eocene age and is the oldest stratigraphic unit analyzed in this

study (Audebaud et al., 1976; Mourier et al., 1988). A late Paleocene-early Eocene age assignment is based on lithostratigraphic correlations to the "Faja Verde" in northeastern Argentina and the lower Tiahuanaco Formation, Cayara Formation, and La Cabana Member of the lower Potoco Formation in Bolivia (~58–55 Ma) (Jaillard and Sempere, 1991; Sempere et al., 1997, Sempere et al., 2004). Sempere et al. (2004) correlate the base of the Munani Formation to the Santa Lucia Formation of Bolivia, extending the age range to ~60–55 Ma. Overlying the Muñani Formation is the Puno Group which has been considered lower Eocene–lower Oligocene (Marocco and Del Pino, 1966; Carlotto, 2013).

Discriminating between the Muñani Formation and Puno Group is difficult; and ages assigned based on lithostratigraphic identification are problematic. For example, red bed strata on the south margins of Lake Titicaca have been variably attributed to both the Muñani Formation and Puno Group (Hawkins and Alban, 1983; Klinck and Palacios, 1984), or split between these units.

The data constraining these ages are from regions >150 km from the current study areas. In southernmost Peru chronology is determined only at the epoch level, largely through lithostratigraphic, rather than chronostratigraphic correlation (Carlotto, 2013; Perez and Horton, 2014; Horton et al., 2015; Sundell et al., 2018). Lateral continuity over 150 km is unlikely given the strata's non-marine depositional environment, and difficult to prove due to inconsistent exposures, significant vegetation coverage, and likelihood of undocumented thrust structures (Horton et al., 2015). Additionally, Carlotto (2013) proposed that several isolated basins existed between ~13ºS and 17ºS and likely evolved independently during the Eocene–Oligocene. Further complicating along-strike correlations is a proposed period of Eocene–Oligocene flat-slab subduction may have driven reorganization or partitioning of these basins (Ramos, 2009; Mamani

et al., 2010; O'Driscoll et al., 2012). Periods of basin isolation are likely to produce different provenance histories, even in absence of significant geographic separation.

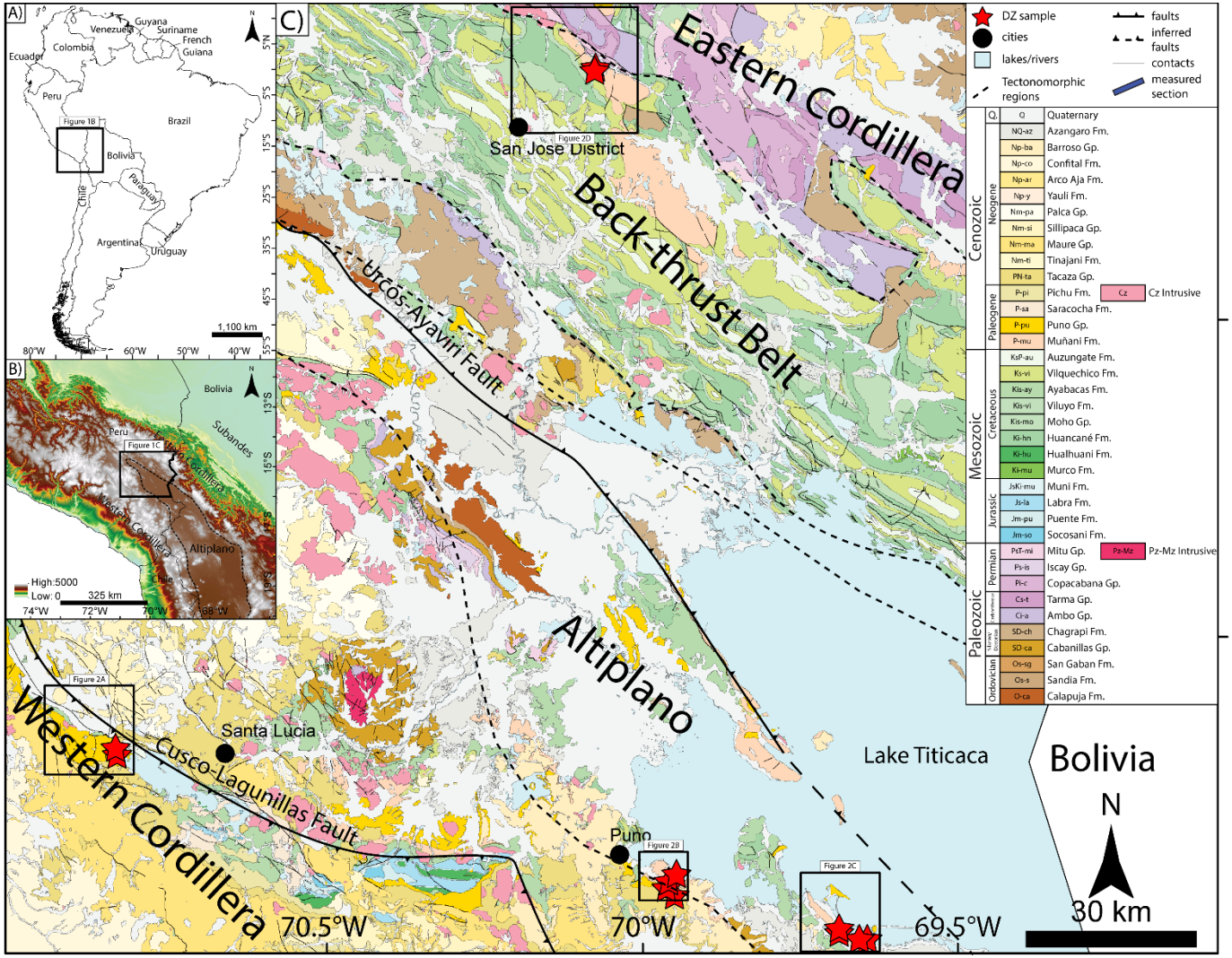


Figure 1: Composite map for South America and study areas. A) Reference map of South America, B) Digital elevation model (DEM) of the Central Andes showing physiogeographic regions, C) Geologic map of southern Peru, near Lake Titicaca with study locations indicated. GPS locations of detrital zircon (DZ) samples are indicated by red stars. Geologic map is modified from INGEMMET

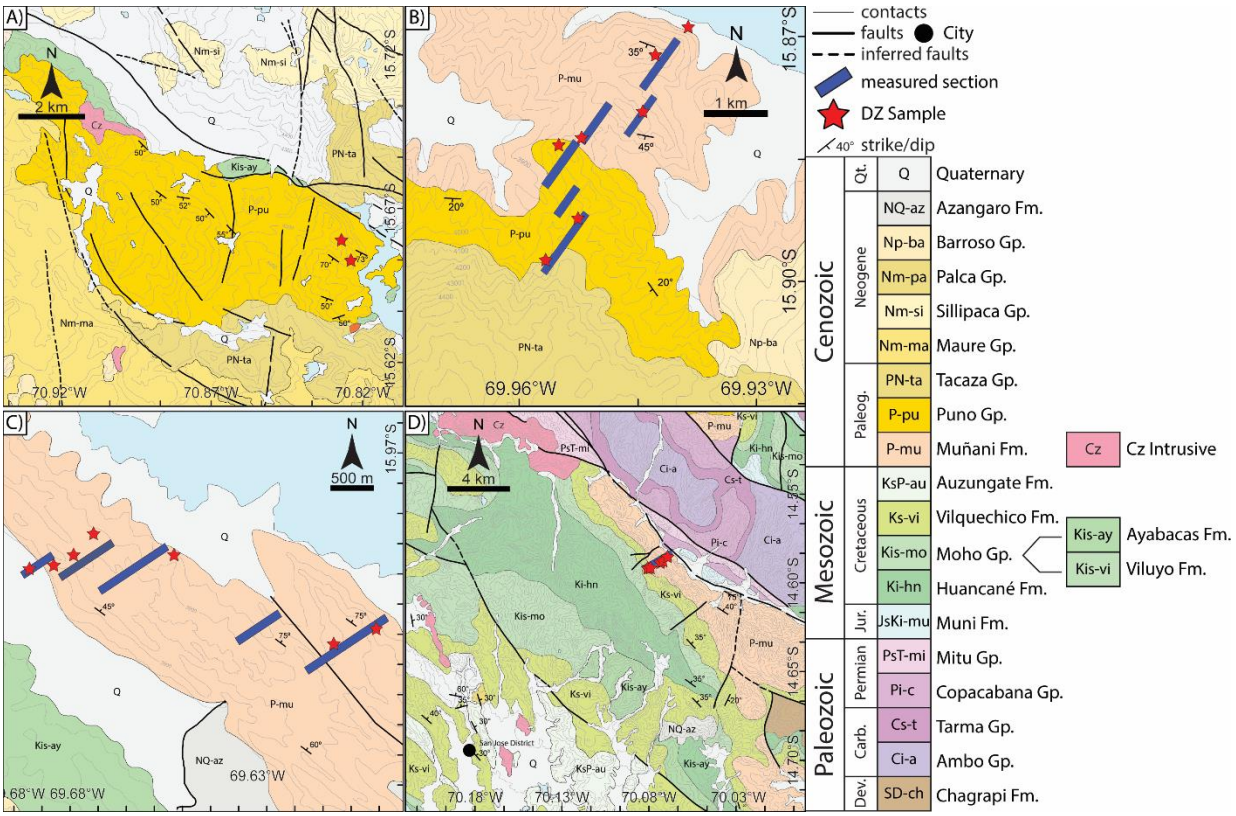


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1.2 Tectonic Evolution and Sediment Recycling

Deciphering sediment provenance within the northern Altiplano basin is complicated by its complex tectonic history and repeated formation, deformation, and recycling of rock units. Commonly, detrital zircon U-Pb geochronology research seeks to identify characteristic age groups that are diagnostic of zircon sources. However, Sundell et al. (2019) conclude that Altiplano sediments have been internally recycled since the late Paleozoic, based on the common presence of diagnostic age modes in Cenozoic, Mesozoic, and Paleozoic sandstones from the Central Andes. In light of this, we use provenance modelling of large samples (n > 300 for 15/21 samples, n > 200 for 18/21 samples) to take advantage of differences in the relative proportions of age modes in

potential sediment sources to determine the relative contribution of these sources to Cenozoic strata.

The oldest age group (>1300 Ma) potentially sourcing the Altiplano, previously thought to be derived from the Arequipa Massif to the southwest (Reimann et al., 2010), is likely derived from the extremely distal Atuba complex and Pan-African granitoids in eastern Brazil based on similarities in εNd and εHf values (Sundell et al., 2019). Zircons with ages from 900–1300 Ma ("Sunsás-Grenville") are consistent with derivation from the Arequipa-Antofalla province to the southwest and the Peruvian Eastern Cordillera to the east (Sundell et al., 2019). In addition to the Arequipa-Antofalla province and Peruvian Eastern Cordillera, grains of this age range have εHf values consistent with εNd values from granitoid and gneissic rocks in the Sunsás province east of the Eastern Cordillera (Sundell et al., 2019). The 500–800 Ma age group is attributed to sources in the Peruvian Eastern Cordillera, Arequipa-Antofalla massif, and pre-Andean margin of Gondwana in Argentina, as well as distal crustal provinces of southeast Brazil (Sundell et al., 2019).

Grains in the 800–500 Ma range may also originate from subduction related orogenesis during the Pampean-Brasiliano orogeny (Chew et al., 2008). Subduction-related magmatism that extened along the western margin of South America during the early Paleozoic Famatinian orogeny likely produced the 400–500 Ma age group and dispersed it across the central Andes (Chew et al., 2007). Zircon grains spanning 200–350 Ma likely formed during Permo-Triassic back-arc extension, which was focused in the Eastern Cordillera of southern Peru (Kontak et al., 1990). Sundell et al. (2019) also indicate that grains of this age are consistent with Paleozoic and Mesozoic igneous rocks from the Eastern Cordillera of southern Peru. Detrital zircons younger than 200 Ma represent grains formed during Mesozoic and Cenozoic magmatism across the Central Andes (Demouy et al., 2012; Mamani et al., 2010). Although several characteristic age

groups appear to be derived from extremely distal sources, Sundell et al. (2019) suggests that they were likely distributed in Paleozoic–Mesozoic Altiplano deposits prior to Cenozoic basin formation.

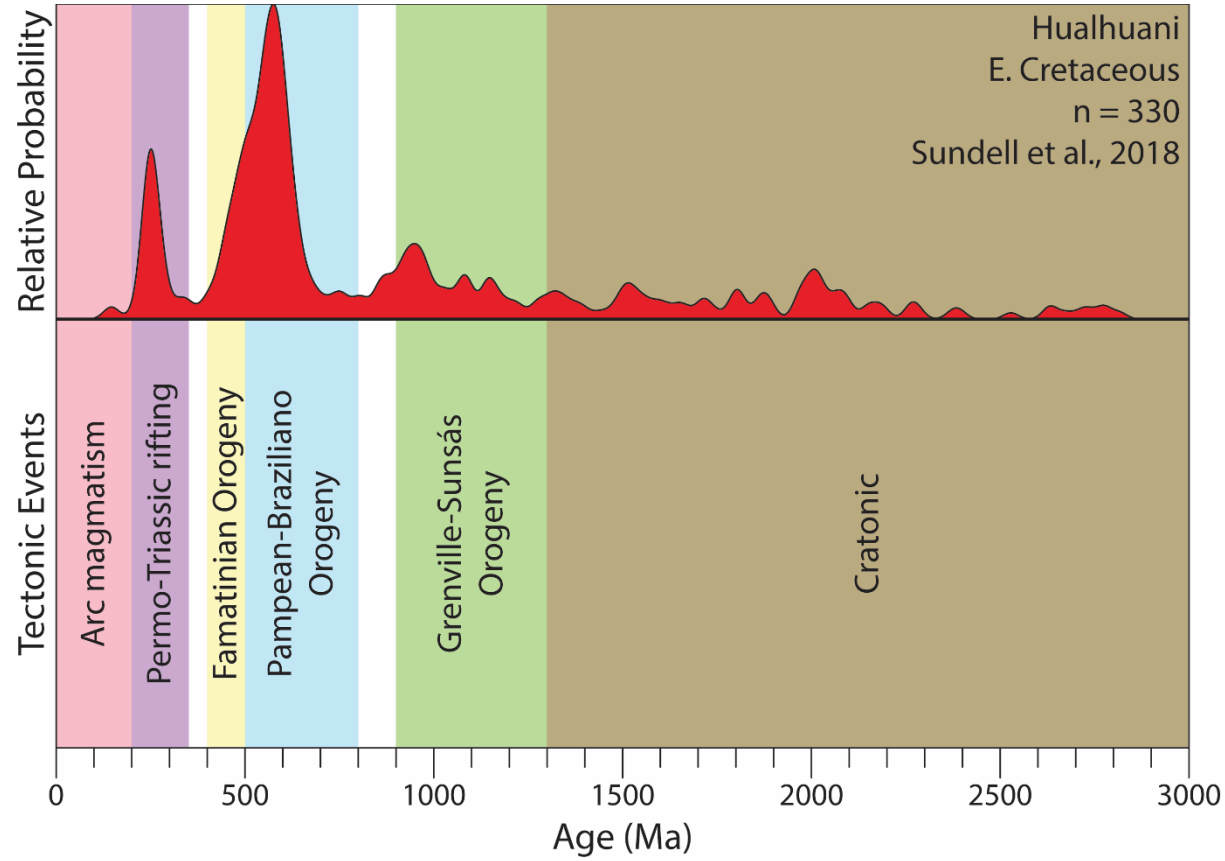


Figure 3: Tectonic evolution of South America with respect to production of zircon grains. Colors indicate characteristic age groups seen in DZ samples throughout the Altiplano. Based on previous work by Kotank et al. 1990; Chew et al. 2007; Chew et al. 2008; Mamani et al. 2010; Reimann et al. 2010; Bahlburg et al. 2011; Demouy et al. 2012; Sundell et al. 2019.

1.3 Study Area

Data come from four study locations spanning the Western Cordillera to the Eastern Cordilleran backthrust belt of southern Peru (Figure 1C) where thick packages of the Paleogene Muñani Formation and Puno Group are exposed (Sánchez and Zapata, 2001a, b; Frisancho and Mejía, 2001; Carlotto, 2013). The Cenozoic sedimentary basins analyzed in this study are nested

between northwest–southeast trending regional contractional structures that run roughly parallel to the subduction margin. The primary regional structures are the northeast-vergent Cusco-Lagunillas Fault and southwest vergent Urcos-Ayaviri Fault (Figure 1). Although regional structures transect the Altiplano, Cenozoic strata in the study locations are predominantly exposed in homoclinal panels. However, previous mapping efforts have suggested the presence of an angular unconformity between the Muñani Formation and Puno Group at location 2 (Figure 2B) (Sánchez and Zapata, 2001b).

2. METHODS

2.1 Stratigraphy and Lithofacies Associations

Three stratigraphic sections were measured using a standard Jacob staff and Abney level at decimeter resolution in the northern Altiplano and the Eastern Cordilleran backthrust belt in southern Peru (Figure 2 and Figure 4). Within the measured sections, a total of 13 lithofacies were identified, following examples outlined in Miall (1977, 1985, 2006) (Table 1 and Figure 5). Lithofacies are categorized based grain size and sedimentary structures. Summaries of these lithofacies are found in Table 1.

The 13 lithofacies were grouped into six lithofacies associations based on lithologic descriptions, vertical and lateral stacking patterns, bedding geometry, grain size trends, and bedding thicknesses. Lithofacies associations described here are consistent with previously described trends in southern Peru identified by Sundell et al. (2018) and Perez and Horton (2014), and with Cenozoic strata in the Bolivian Altiplano (Hampton and Horton, 2007).

Table 1: Description and interpretation of sedimentary lithofacies after Miall (1977,1985, 2006)

Lithocode	Description	Interpretation
Mm	Structureless siltstone/claystone	Suspension settling, overbank, drape deposits, or abandoned channel modified by bioturbation or pedogenesis
Ml	Planar laminated siltstone/claystone	Suspension settling, overbank, drape deposits, abandoned channel, or waning flood deposits
Mr	Ripple cross-stratified siltstone/claystone	Overbank, drape deposits, abandoned channel, or waning flood deposits
Sm	Structureless sandstone	Rapid deposition, minimal bedform development, sediment gravity flow deposits, or rapidly waning flood deposits
Sl	Horizontally laminated sandstone	Upper-flow regime, scour fills, crevasse splay, or sand sheets in a fluvial setting
Sr	Ripple cross-stratified sandstone	Lower-flow regime, 2D and 3D ripple migration
Scr	Climbing ripple cross-stratified sandstone	Lower-flow regime, net depositional ripple migration
Sh	Horizontally bedded sandstone	Upper flow regime, similar to Sl but different scale; commonly associated with deeper water
St	Trough cross-stratified sandstone	Lower-flow regime, 3D dune migration
Sb	Bioturbated sandstone	Absence of sedimentary structures due to burrowing and organic activity
Gmm	Matrix-supported structureless conglomerate, poorly sorted, disorganized, unstratified	Plastic (high-strength, viscous) debris flow
Gcm	Clast-supported structureless conglomerate, unstratified, poorly organized	Clast-rich debris flow (high-strength) or pseudoplastic debris flow
Gp	Planar cross-stratified conglomerate	Transverse bedforms formed by traction transport, channel fill
Gh	Planar laminated conglomerate	Longitudinal bedform formed by traction transport, lag deposits

2.1.1 F1: Interbedded mudstone, very fine – fine sandstone

This rare lithofacies association is comprised of meter-scale, stacked, composite bedsets composed of interbedded brick red mudstones, siltstones, and very fine- to fine-grained sandstones (Figure 5A). Individual beds are commonly 10–30 cm thick and consist of alternating Mm, Mr, or

Ml lithofacies. Together these beds form composite bedsets up to 1 m thick (Campbell, 1967). Beds show no evidence of erosive behavior and typically have a gradational top that is marked by a minor grain size increase from silt to upper silt or very fine sand (Figure 6A). Ripple cross-stratified (Sr) and horizontally laminated sandstone (Sl) beds are often draped with equally thin, less resistant mudstones (Figure 5A). Frequently, beds are composed of structureless mudstones/siltstones and transition to ripple cross-stratified or horizontally laminated mudstones/siltstones at the top. Occasionally, there is minor bioturbation (Sb) observed that disrupts the sedimentary structures. Structureless mudstones occasionally contain peds and cutans with slickenlines, however peds are weakly developed and no distinct soil horizons were observed. The mudstone/siltstone beds designated to this lithofacies association are laterally extensive (hundreds of meters), but often obscured by poor exposure and vegetation cover.

This lithofacies association is interpreted as floodplain deposits. The laterally extensive, tabular bedding indicates non-channelized deposition associated with overbank deposition. Rare channelized instances of this lithofacies association are interpreted as having been deposited in an abandoned channel (Table 2) (Leckie and Singh, 1991). However, the lack of associated inclined heterolithic strata suggests that these are not associated with a meandering fluvial system, but rather by channel formation and abandonment due to short-duration flash flow or avulsion (Lynds and Hajek, 2006). Flooding over the channel bank causes the deposition of mud, silt, and very-fine to fine grained sand as a result of suspension settling during waning floods. Within the mudstones, lenticular horizontally laminated (Sl) and ripple cross-stratified (Sr) sandstones gradually coarsen and thicken upsection and are interpreted to form during crevasse splay events (Bristow et al., 1999; Burns et al., 2017). The lack of identifiable erosive contacts at the base of crevasse splay deposits suggests that levees were likely poorly developed, or deposition occurred

distally to the main river channel. The presence of weakly developed pedogenic features and minor bioturbation suggests that following deposition the area was influenced by brief periods of subaerial exposure.

2.1.2 S1: Tabular medium – coarse sandstone

This lithofacies association is comprised of thick (ones to tens of meters) packages of brick red, tabular, fine- to medium-grained sandstones. Individual sandstone beds often fine upwards to silt and are capped by a sharp, but not erosive, contact. These sandstones are commonly laterally extensive for hundreds of meters with minimal grain-size variation along strike. Sandstones preserved in this lithofacies association are commonly structureless (Sm), ripple cross-stratified (Sr), horizontally laminated (Sl), and horizontally bedded (Sh), with minor trough cross-stratification (St). Tabular sandstones occasionally show an upsection change in sedimentary structures from structureless (Sm) to ripple cross-stratified (Sr) and horizontally laminated (Sl).

Laterally extensive exposure and absence of erosional bases suggest that lithofacies S1 was deposited as a sand-rich sheetflood during rapid flood deposition (Figure 6B). Upsection changes from structureless (Sm) to ripple cross-straified (Sr) and horizontally laminated (Sl) are also consistent with periods of waning flow velocity during flood deposition. These sheetflood deposits are likely part of the fluvial megafan distributary zone dominated by unconfined flow (Figure 6B) (Hampton and Horton, 2007).

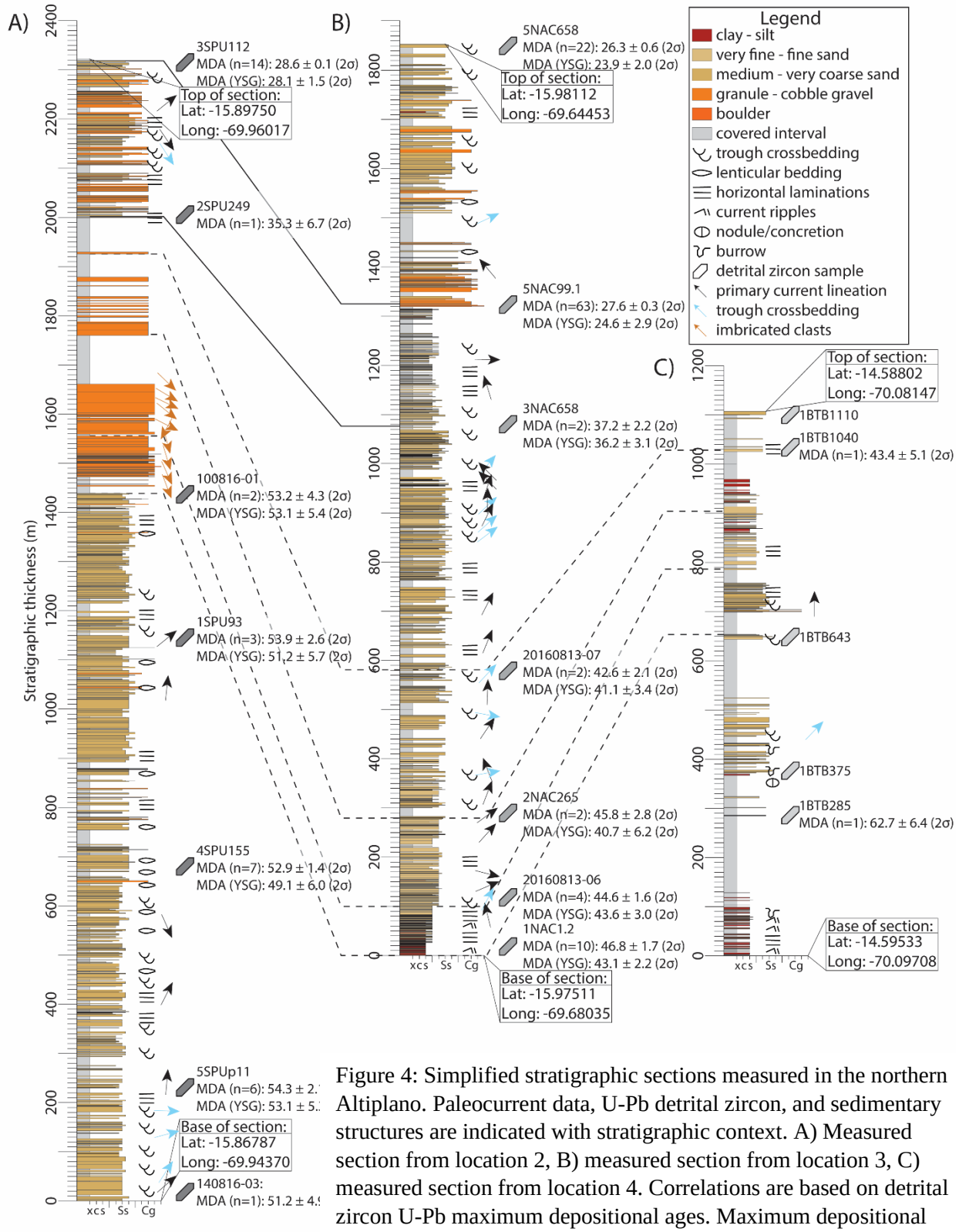


Figure 4: Simplified stratigraphic sections measured in the northern Altiplano. Paleocurrent data, U-Pb detrital zircon, and sedimentary structures are indicated with stratigraphic context. A) Measured section from location 2, B) measured section from location 3, C) measured section from location 4. Correlations are based on detrital zircon U-Pb maximum depositional ages. Maximum depositional ages (MDA) are reported as weighted average of a cluster (n=…) or and youngest single grain (YSG).

2.1.3 S2: Tabular, erosional, medium – coarse sandstone

Lithofacies association S2 consists of thick packages (ones to tens of meters) of brick red, tabular and lenticular, medium–coarse sandstone. This lithofacies association is similar to S1, however S2 contains erosional bases with meter-scale erosional scour often accompanied by mud rip-up clasts (Fig. 6C). Beds are both tabular and lenticular. Tabular beds can extend for hundreds of meters. Lenticular beds pinch out over tens of meters. The lenticular bodies have channel-like geometries and are inset into underlying deposits (Figure 6C). Underlying units are commonly finer grained, however not regularly below very fine- to fine-grained sandstone. Sandstone bodies typically show minor fining upward trends until capped by a slightly coarser grained bed. The primary lithofacies identified in this association are Sm, St, and Sh, with minimal, if any, thin (centimeter scale) interlaminated mudstones. Channelized deposits can either be preserved as a single sandstone bed or an amalgamated bedset.

This lithofacies association is interpreted as broad, braided fluvial channel system that was intermittently subjected to unconfined flow (Cant and Walker, 1978; Hampton and Horton, 2007). The presence of mud rip-up clasts suggest sediment was largely distributed via traction transport (Collinson, 1996) and trough cross-stratified sandstones indicate migration of 3D subaqueous dunes in channels (Miall, 1985).

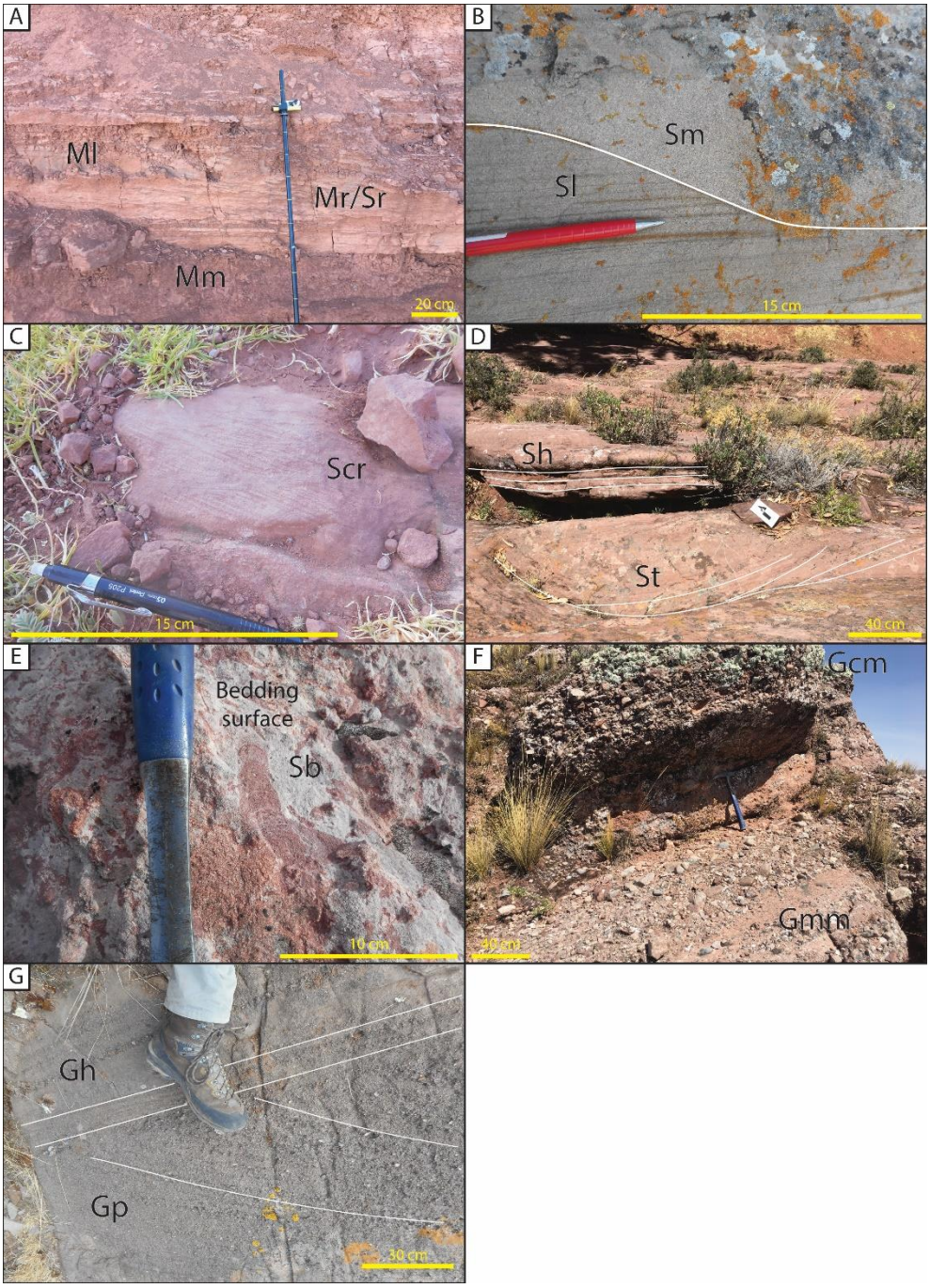


Figure 5: Photographs of lithofacies from Cenozoic Muñani Formation and Puno Group in southern Peru. A) Red mudstones with ripple cross-stratification, planar laminations and massively bedded (-15.97530º, -69.67973º), B) massively bedded and planar laminated sandstones (-15.86937º, -69.94551º), C) subcritical climbing ripple cross-stratified sandstones (-15.98008º, -69.65652º), D) trough cross-stratified and horizontally bedded sandstone (-15.97499º, -69.66596º), E) bioturbated sandstone (-14.59363º, -70.09251º), F) clast and matrix supported conglomerate (-15.89192º, -69.95737º), G) horizontally bedded and planar laminated conglomerate (-15.66604º, -70.82844º).

2.1.4 G1: Stratified conglomerate

This rare lithofacies association is composed of grey, sand-rich, meter-scale packages of tabular and lenticular, planar and trough cross-stratified granule–pebble conglomerate. Conglomerates are commonly bound by erosional bases that truncate underlying strata. Clasts are subrounded–subangular, moderately–poorly sorted, and often exhibit normal grading. Lithofacies observed in this association are horizontally-bedded (Gh) and planar cross-stratified conglomerates (Gp). Granule and pebble clasts typically distinguish horizontal beds or planar cross-laminations from the surrounding sandy matrix (Figure 5G).

Formation of horizontal and planar cross-laminations points to traction transport of bedload, suggesting that G1 was deposited as macroforms. The lenticular nature of the beds and their erosional bases points to deposition within a channel. The lack of lateral accretion surfaces points to a paucity of point bars within the fluvial system, and absence of architectural elements consistent with overbank deposits implies a rapidly migrating system in which overbank elements were poorly developed due to reworking by the fluvial trunk. All of this is consistent with deposition by a relatively high-energy gravelly braided fluvial system (Lunt et al., 2004) (Figure 5G; Figure 6D).

2.1.5 G2: Poorly bedded conglomerate

This lithofacies association is the primary conglomeratic unit observed in the study areas and is composed of amalgamated bedsets tens of meters thick of poorly bedded, subrounded and poorly sorted granule–boulder conglomerates that often show no grain-size trend. Beds show little or no evidence of basal scour and are laterally discontinuous. This association is predominantly comprised of matrix- or clast-supported massive/structureless conglomerates (Gmm, Gcm,

respectively). Matrix-supported conglomerates were less frequently observed, but where present consist of granule–pebble sized clasts with a matrix of medium–coarse grained sand. Clast-supported conglomerates have very little sand present, however where present, sands are restricted to contorted lenses that extend laterally for ~1 m. Rarely, beds are characterized by boulder-sized clasts that fine upward to pebbles.

The lack of sedimentary structures or bedding suggests that sediment was not deposited via traction transport, but rather was dominated by viscous forces in a plastic medium. Clast-supported conglomerates were bases coupled with the dominance of clast-supported conglomerates we interpret this lithofacies association to represent high-energy, viscous, unconfined flow, likely associated with debris flows on an alluvial fan (Miall, 1985; Blair, 1999a, b).

2.1.6 G3: Interbedded sandstones and conglomerates

This lithofacies association is essentially the coarser-grained counterpart to lithofacies association S1. Lithofacies G3 is comprised of thick–very thick beds (1–5 m thick) of grey, sheet-like, medium- to coarse-grained sandstone and pebble–cobble conglomerate. Relative to lithofacies association G2, this association contains significantly more sand, distinctive fining-upward trends, and commonly contains erosional bases. Sheets of conglomerate are typically resistant and protrude from surrounding sand bodies (Figure 6F). Between conglomeratic units are >1 m thick, poorly developed horizontally bedded (Sh), upward-fining sandstone beds. Sand bodies are often poorly exposed and appear discontinuous along-strike. Alternating beds sandstone and conglomerate form composite bedsets (Campbell, 1967) and resemble conglomerate and sandstone couplets described by Blair and McPherson (1994). Clasts are commonly subrounded–

subangular and moderately–poorly sorted. This association contains tabular, clast- and matrix-supported massive/structureless conglomerate (Gcm, Gmm, respectively) as well as horizontally bedded sandstones (Sh) and matrix-supported conglomerates (Gh).

Alternating deposition of sandstones and conglomerates suggests periods of differing energy environment or migration of a fluvial thalweg. Poorly developed sedimentary structures suggest that deposition was rapid and disorganized. Similar to lithofacies S1, we interpret this lithofacies association to represent sheetflood deposits on an alluvial fan, however in a more proximal setting (Blair and McPherson, 1994).

Table 2: Description and interpretation of sedimentary lithofacies associations.

Lithofacies Association	**Description**	**Interpretation**
F1: Interbedded mudstone, very fine–fine sandstone	Ml, Mm, Mr, occasionally Sb and Sr: Structureless, planar laminated, ripple cross-stratified, minor soft sediment deformation, minor ped and cutan development	Flood plain deposits
S1: Tabular, medium–coarse sandstone	Sm, Sl, Sr, Sh, St: Structureless, planar laminated, ripple cross-stratified, horizontally bedded, fines upward, minimal scour	Sand-rich sheetflood deposit, distal fan
S2: Tabular, erosional, medium–coarse sandstone	Sm, St, Sh: Structureless, horizontally bedded, trough cross-stratified, minimal mudstone, common scour	Braided fluvial system, occasional unconfined flow
G1: Stratified conglomerate	Gp, Gh: Planar and trough cross-stratified, horizontally bedded	Conglomeratic channel fill in braided river
G2: Poorly bedded conglomerate	Gcm, Gmm: Massive/structureless, thickly bedded, lacking grain size trend, minor sand lenses	Disorganized debris flow deposits
G3: Interbedded sandstones and conglomerates	Gcm, Gmm, Gh, Sh: Structureless, horizontally bedded, commonly fining upward, common scour	Proximal sheetflood deposits

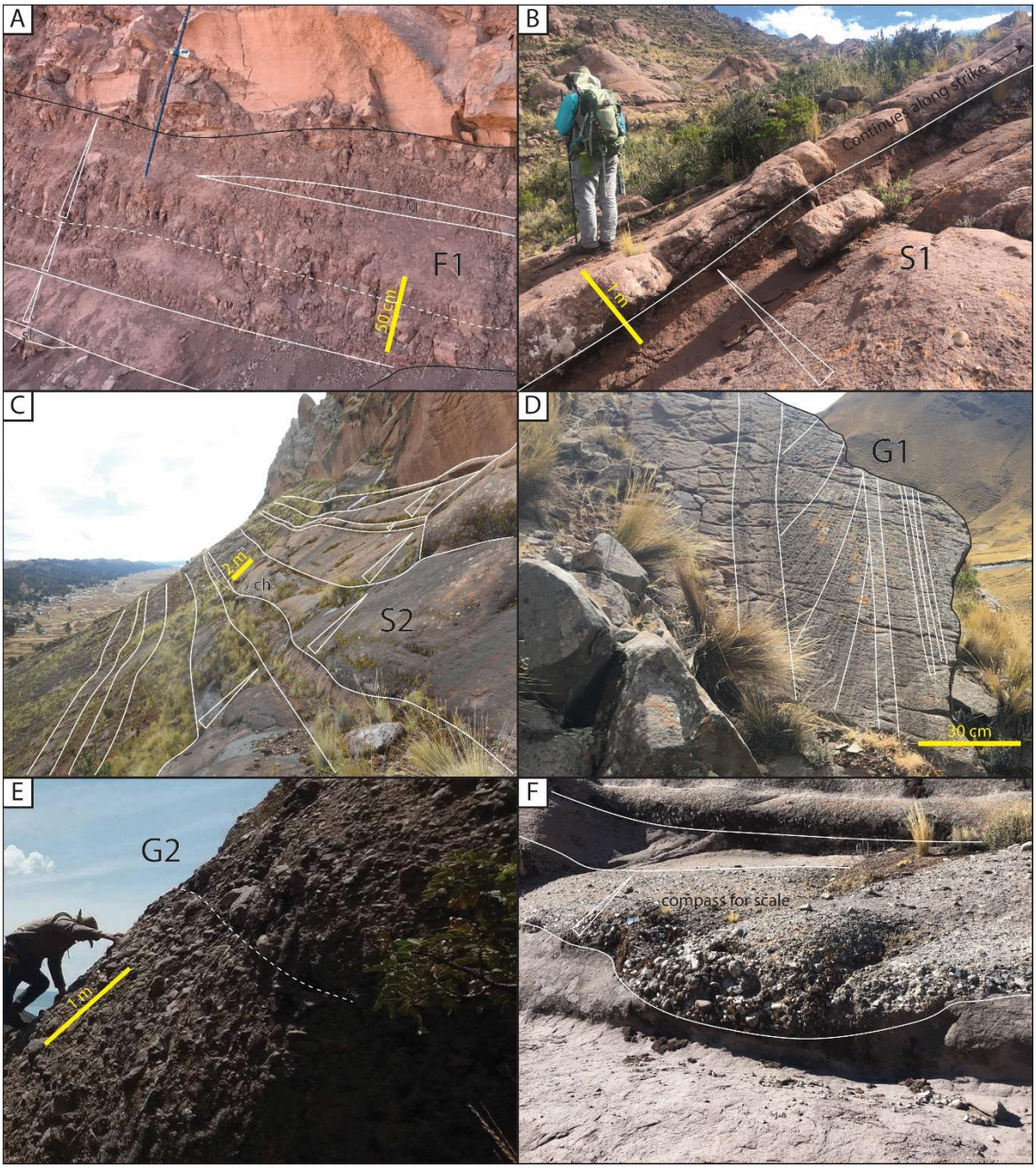


Figure 6: Photographs of lithofacies associations from Cenozoic Muñani Formation and Puno Group in southern Peru. A) F1 lithofacies association: packages of Mm, Ml, Mr mudstones with minor interbedded sandstones (-15.97530º, -69.67973º), B) S1 lithofacies association: non-erosional, tabular medium–coarse sandstone, dominantly Sh, Sm, St (-15.98444, -69.65055º), C) S2 lithofacies association: erosional, tabular medium–coarse sandstones, dominantly Sm, Sh, St (-15.98277º, -69.64803º), D) G1 lithofacies association: Stratified conglomerate, dominantly Gp (-15.89647º, -69.96027º), E) G2 lithofacies association: poorly bedded, massive conglomerate, dominantly Gcm and Gmm (-15.88306º, -69.96004º), F) G3 lithofacies association: interbedded sandstones, Sh, and conglomerates Gh, Gcm, Gmm (-15.89583º, -69.96055º).

2.2 Paleocurrent Analysis and Conglomerate Clast Counts

Paleocurrents were measured on trough cross-stratified sandstone (trough axis and trough limbs), imbricated clasts in conglomerate, and primary-current lineations exposed on bedding planes. Paleocurrent indicators were measured at stations that consisted of approximately 10 measurements per station (10 per limb for trough cross-strata). Paleocurrent orientations were calculated from trough cross-stratification limbs using the methods of DeCelles et al. (1983). Trend was measured for primary-current lineations and plotted on bedding planes on a stereonet to calculate a mean direction. Strike and dip were measured on imbricated clasts. Measurements were averaged to produce a station-averaged paleocurrent orientation and corrected for deformational dip using Stereonet 7 (Allmendinger, 2005).

Conglomerate clast counts were conducted at 100 × 100 cm stations in conglomeratic units with at least pebble sized grains within stratigraphic sections. At each station, a minimum of 100 clasts were counted and categorized based on lithology. The lithologies identified were grouped into provenance-diagnostic categories including: quartzite/metasedimentary, siliciclastic, limestone, volcanic, and plutonic.

2.3 Sandstone Petrography

Sandstone samples were taken for petrographic analysis at intervals of approximately 50 – 100 m in stratigraphic sections. A total of 33 petrographic thin sections were made of fine- to coarse-grained sandstone and stained for plagioclase and potassium feldspar to assist with mineral identification. A minimum of 400 sand-sized grains (>0.0625 mm) were identified, per sample, using the Gazzi-Dickinson method to assess up-section variability in framework grain (quartz, feldspar, and lithic fragments) assemblages (Dickinson and Suczek, 1979).

2.4 U-Pb Detrital Zircon Geochronology

Detrital zircon U-Pb geochronology is widely used as an analytical tool to assess sediment provenance and maximum depositional age (Gehrels, 2014). This study reports new results from 21 medium-grained sandstone samples from the Paleogene Muñani Formation and Puno Group in the four study locations (Fig. 3). Additional detrital zircon U-Pb data from Cenozoic sandstone samples and Paleozoic–Mesozoic samples were compiled from data published by Reimann et al. (2010), Bahlburg et al. (2011), Perez and Horton (2014), and Sundell et al. (2018). The Paleozoic–Mesozoic samples serve to characterize potential sediment sources that may have contributed clastic detritus to the basin during exhumation. In total, there are 45 basin samples and 13 potential sediment sources considered in this study.

We attribute sediment sources to specific sourcing regions based on mapped geologic exposure following methods outlined by Sundell et al. (2018). Although modern exposure is not indicative of past exposures, it serves as a guide to their general locations. This approach yields five sourcing regions including the Western Cordillera, Altiplano, Eastern Cordillera, or combinations of these, and used as indicators for Eastern versus Western Cordillera derived sediments. Jurassic–Lower Cretaceous sandstones, the Puente, Labra, and Hualhuani formations, constitute the Western Cordillera source group (Sundell et al., 2018). The combined Western Cordillera & Altiplano source group is comprised solely of the Ordovician Ollantaytambo Formation (Bahlburg et al., 2011). The Ordovician Calapuja and Devonian Lampa formations make up the exclusively Altiplano sediment sources (Reimann et al., 2010). The largest of the source groups is the ambiguous Eastern Cordillera & Altiplano, which consists of the Devonian Cabanillas Group, Early Carboniferous Ambo Formation, Permo-Triassic Mitu Group, and Lower Cretaceous Muni and Huancane formations (Reimann et al., 2010; Perez and Horton, 2014;

Sundell et al., 2018). Lastly, the exclusively Eastern Cordilleran derived sources are the Sandia and San Gaban formations (Reimann et al., 2010; Perez and Horton, 2014).

2.4.1 Sample Preparation

Zircons were extracted from sandstone samples following standard mineral separation procedures including physical crushing to <400 μm, and density separation using a water table and heavy liquids (methylene iodide, 3.32 g/cm^3). Magnetically susceptible grains were removed from the heavy mineral fraction using a Frantz magnetic separator set at a forward tilt of 25° and a side tilt between -15° (0.5 A) and -5° (2.0 A). The remaining mineral fraction was passed through an acid bath using 2% nitric acid to remove any surface contaminants prior to zircon selection. The zircons fraction was high graded by hand, disregarding color, shape, roundness, transparency, and size to minimize bias prior to being mounted on double-sided tape for ICPMS analysis.

2.4.2 Sample Analysis

Zircon U-Pb geochronology was conducted at the University of Houston using a Photon-Machines Inc. Analyte 193 ArF excimer laser in combination with a Varian 810 quadrupole inductively coupled plasma – mass spectrometer (ICP-MS) following techniques outlined by Shaulis et al. (2010). Zircon grains were analyzed using a spot size of 20-30 μm with 240 shots at 10 Hz frequency. Total analysis time, per grain, was 35 seconds with 24 seconds of ablation and the remainder for background measurements and washout. Approximately 400 zircon grains were analyzed per sample.

The analysis implemented a standard-bracketing technique that required the analysis of a primary or secondary standard after every 10 or 30 unknowns, respectively. The primary standard

used was a Plešovice zircon obtained from potassic granulite in the Bohemian Massif, Czech Republic. The isotope dilution-thermal ionization mass spectrometer (ID-TIMS) determined age of the standard is 337.13 ± 0.37 Ma (2σ) (Slama et al., 2008). The primary standard is used to correct elemental and isotopic fractionation and mass spectrometer drift during the analysis. The secondary standard, FC5Z, was used to ensure the accuracy of the primary standardization. FC5Z was obtained from the Duluth Gabbro complex in Minnesota, USA, a similar locality as the AS3 and FC1 zircon standards collected by Paces and Miller (1993). The accepted age for the FC5Z standard is 1099.1 ± 0.5 Ma (2σ) (Paces and Miller, 1993).

Raw ICP-MS data were exported from Quantum and reduced via an in-house MATLAB-based data reduction graphical user interface (GUI) (Sundell, 2017). The software processes isotopic counts per second measurements and calculates U-Pb ages. The GUI allows the user to assign uncertainty parameters, discordance filters, and age cutoffs for the U-decay series, as well as automatically calculating and applying a baseline and fractionation correction. For grains younger than 800 Ma, the $^{206}Pb/^{238}U$ ratio was used to calculate the crystallization age while the $^{206}Pb/^{207}Pb$ ratio was used for older grains. The cutoff at 800 Ma was used to avoid truncation of significant age populations (between 1.0 – 1.2 Ga) and to account for uncertainties associated with the U-decay series (Gehrels, 2014). Analyses with >20% uncertainty, >20% discordance, and >10% reverse discordance were also rejected.

2.4.3 Provenance Modelling

Provenance interpretation of detrital zircon U-Pb geochronological data has previously been a qualitative assessment, based on the presence or absence of significant age populations (Reimann et al., 2010; Bahlburg et al., 2011; Perez and Horton, 2014). However, sediment

recycling has been shown to obscure the detrital zircon U-Pb signature by mixing several, if not all, of the diagnostic age groups in the northern Altiplano (Perez and Horton, 2014; Sundell et al., 2019). To avoid subjective interpretations and enable analysis of large detrital zircon data sets, quantitative techniques have emerged as a reliable alternative to understanding sediment provenance (Gehrels, 2000; Amidon et al., 2005; Vermeesch, 2013; Satkoski et al., 2013; Kimbrough et al., 2015; Saylor and Sundell, 2016; Vermeesch et al., 2016; Sundell and Saylor, 2017; Sharman and Johnstone, 2017; Sundell et al., 2018).

Quantitative provenance analysis is often handled using probability distribution plots (PDP), kernel-density estimate plots (KDE), and cumulative distribution function plots (CDF). In this study we use KDEs to represent our U-Pb detrital zircon data. The KDE bandwidth was set to 20 Myr to ensure consistency between model runs and to account for samples with poor data quality (Vermeesch, 2012). Additionally, grains younger than 200 Ma were excluded from provenance analysis as all potential sediment sources are limited in grains of that age.

2.4.4 Top-down Mixture Modelling

Top-down mixture modelling refers to the process of using an inverse Monte Carlo model, employed using DZmix, to "unmix" the U-Pb detrital zircon data of basin samples (Sundell and Saylor, 2017). Specifically, this technique uses well-characterized samples of potential sediment sources (13 total in this case) and compares randomly weighted mixtures of those sources to a mixed basin sample (Sundell and Saylor, 2017). The model is run for 10,000 iterations per basin sample, retaining the top 100 iterations (1.0%). The top 100 iterations are then used to calculate the mean and standard deviation mixing weight for each potential source.

The DZmix software employs three quantitative comparison metrics to access similarity between the modeled source contributions and the mixed basin sample. The quantitative comparison metrics that this model incorporates are the Kolmogorov-Smirnov (KS) test D statistic, Kuiper test V statistic, and Cross-correlation coefficient (a.k.a., coefficient of determination, R^2). We use the Cross-correlation coefficient as it has shown to be more sensitive to the number of age modes and relative proportions of those modes (Saylor et al., 2013; Saylor and Sundell, 2016). The Cross-correlation coefficient is represented by values between 1 and 0, where 1 represents a perfect match between sources and a mixed basin sample.

2.4.5 Bottom-up Mixture Modelling

Although top-down mixture modelling can provide significant insight into provenance history it is severely limited by the requirement that all potential sources be well characterized. In many cases, sediment sources are either not preserved or poorly characterized, hindering the ability to apply the top-down modelling approach. A more recent alternative to top-down mixture modelling employs non-negative matrix factorization to generate low-rank approximations of source distributions based on numerous basin samples (Sharman and Johnstone, 2017). This technique identifies similarities between basin samples and generates a synthetic PDP or KDE to serve as a source signature. This model is applied to 58 U-Pb detrital zircon samples presented here and compiled from previous literature (Reimann et al., 2010; Bahlburg et al., 2011; Perez and Horton, 2014; Sundell et al., 2018) and carried out using a MATLAB-based GUI named DZnmf (Saylor et al., 2019).

DZnmf uses breakpoint analysis to determine the optimum number of sources into which the basin samples are factorized (i.e., the factorization rank). This method first calculates the final

residual between the input and reconstructed samples over a wide range of ranks (Saylor et al., 2019). The software uses a segmented linear regression to identify the rank at which the rate of residual decrease goes from high to low (Saylor et al., 2019). This is calculated by plotting final residual versus rank and applying a segmented linear regression with a single break and calculating the sum of squared residuals (SSR, Draper and Smith, 1998; Saylor et al., 2019). By this method, the optimum number of sources (i.e., optimum rank) is the point where the SSR is minimized (Saylor et al., 2019).

2.4.6 Hybrid Mixture Modelling

We merge the two mixture modelling techniques described above into a hybrid mixture modelling approach that demonstrates a useful workflow for provenance modelling following methods outlined by Smith et al. (in preparation). This method uses bottom-up mixture modelling to model sources based on the analyzed basin samples. These model age distributions are then quantitatively compared to analyzed potential sediment sources via the Cross-correlation coefficient, and the most similar sources are selected. The revised potential sediment sources and mixed basin samples are reintroduced to the top-down modelling approach. This approach reduces uncertainty or errors due to a priori assumptions about sediment routing by limiting the number of potential sources that are considered. Additionally, this method enables us to make a 1:1 comparison between the two different modelling approaches.

3. RESULTS

3.1 Stratigraphy

3.1.1 Muñani Formation

The Muñani Formation is the oldest Cenozoic stratigraphic unit in this area and is locally exposed throughout southern Peru surrounding Lake Titicaca. Characteristics of the Muñani Formation differ between locations, but is typically comprised of characteristically red, predominantly medium- to coarse-grained sandstones and minor interbedded fine sandstones and mudstones. At location 2, the Muñani Formation is characterized by predominantly S1 and S2 lithofacies associations. Although sandstones dominate this location, minor lenticular conglomerates are also observed (Figure 4). In contrast, the base of what is mapped as the Muñani Formation at location 3 is characterized by F1 intervals. Although finer at the base, the section progressively coarsens upward until composed primarily of S1 and S2 lithofacies associations. At location 4, the Muñani Formation is finer than other locations and is composed of F1 and S1 lithofacies associations. Paleocurrent data in the Muñani Formation is predominantly north–northeast oriented (Figure 7). Sandstone compositions at the two southern locations consistently indicate subarkose-lithic arkose lithologies (Folk, 1980) with quartz and feldspar contributions of 60–70% and 10–20%, respectively (Figure 8). Contrarily, location 4 sandstone compositions indicate the Muñani Formation is composed of quartzarenites with quartz concentrations greater than 95%. While no direct contact between the Muñani Formation and underlying unit was thoroughly observed, new detrital zircon U-Pb max depositional ages indicate deposition of the Muñani Formation was ongoing between ~46 Ma and ~62 Ma, consistent with previously reported ages (Mourier et al., 1988; Sempere et al., 2004).

3.1.2 Puno Group

The Puno Group consists of conglomerates, sandstones, and mudstone and has been assigned an Eocene–Oligocene depositional age (Carlotto, 2013). This group is preserved in southern Peru surrounding Lake Titicaca and is often correlated to the San Jerónimo Group and Anta Formation from the Cusco area (Carlotto, 2013). The southern Peruvian Puno Group documented in this study is characterized by an increase in conglomeratic facies that overlie the arkosic sandstones of the Muñani Formation (Palacios et al., 1993; Carlotto, 2013). The base of the section is comprised of lenticular G1 and G2, while the top of the section is generally G3, S1, and S2 lithofacies associations. Overall, the Puno Group fines upward, and is unconformably overlain by the volcanic deposits of the Tacaza Formation (Figure 2). Although conglomeratic units thin towards the top, lenticular conglomerates are commonly present in medium–coarse grained sandstones. Conglomerate clast counts indicate variable proportions of quartzite, siliciclastic, limestone, volcanic, and plutonic clasts (Figure 9).

Within the Puno Group, clast counts show markedly different trends depending on the study location. For example, the westernmost and southernmost locations (locations 1 and 3, respectively) show high abundances of volcanic and plutonic clasts while location 2 shows predominantly quartzite and minimal igneous clasts. However, the apparent anomaly in clast counts at location 2 is restricted to a single amalgamated package of conglomerates, suggesting that this discrepancy documents the input from a source proximal to this location (Figure 9). This interpretation is further supported by the shift towards higher contributions of volcanic clasts upsection of this conglomerate (Figure 9). Puno Group sandstone compositions are similar to those of the Muñani Formation; however, the top is marked by an abrupt increase in feldspar and transition to a more arc dominated provenance (Figure 8). New U-Pb detrital zircon max

depositional ages place the base of the Puno Group at ~33–37 Ma, consistent with previously assigned ages (Chanove et al., 1969; Audebaud et al., 1976; Carlotto, 2013).

3.1.3 Paleocurrent Analysis

A total of 662 individual paleocurrent indicators were measured in the context of stratigraphic sections. Despite large separation between study locations, all paleocurrents show broadly eastward paleoflow, with some variability to northeastward and southeastward paleoflow (Figure 7). At location 1, two paleocurrent stations consisting of 26 total measurements on imbricated clasts show a roughly 45° NE trend in paleoflow. Location 2 is comprised of six primary current lineation, four trough cross lamination, and ten imbricated clast measurement stations. At this location, primary current lineations and trough cross-strata show a paleoflow direction of 45° NE and ~90° E, respectively. Imbricated clasts measurements show a minor shift towards the southeast with an approximate orientation of 140° SE. This southeastwardly shift in paleocurrent orientation is restricted to location 2 and was identified in a ~200 m thick conglomeratic section, suggesting we may be recording the orientation of a single alluvial fan. Location 3 consists of nineteen primary current lineation and nine trough cross-strata stations, indicating paleoflow direction of ~80° E and ~50° E, respectively. Primary current lineations and trough cross-strata from location 4 show a trend of ~5° N and ~45° NE, respectively.

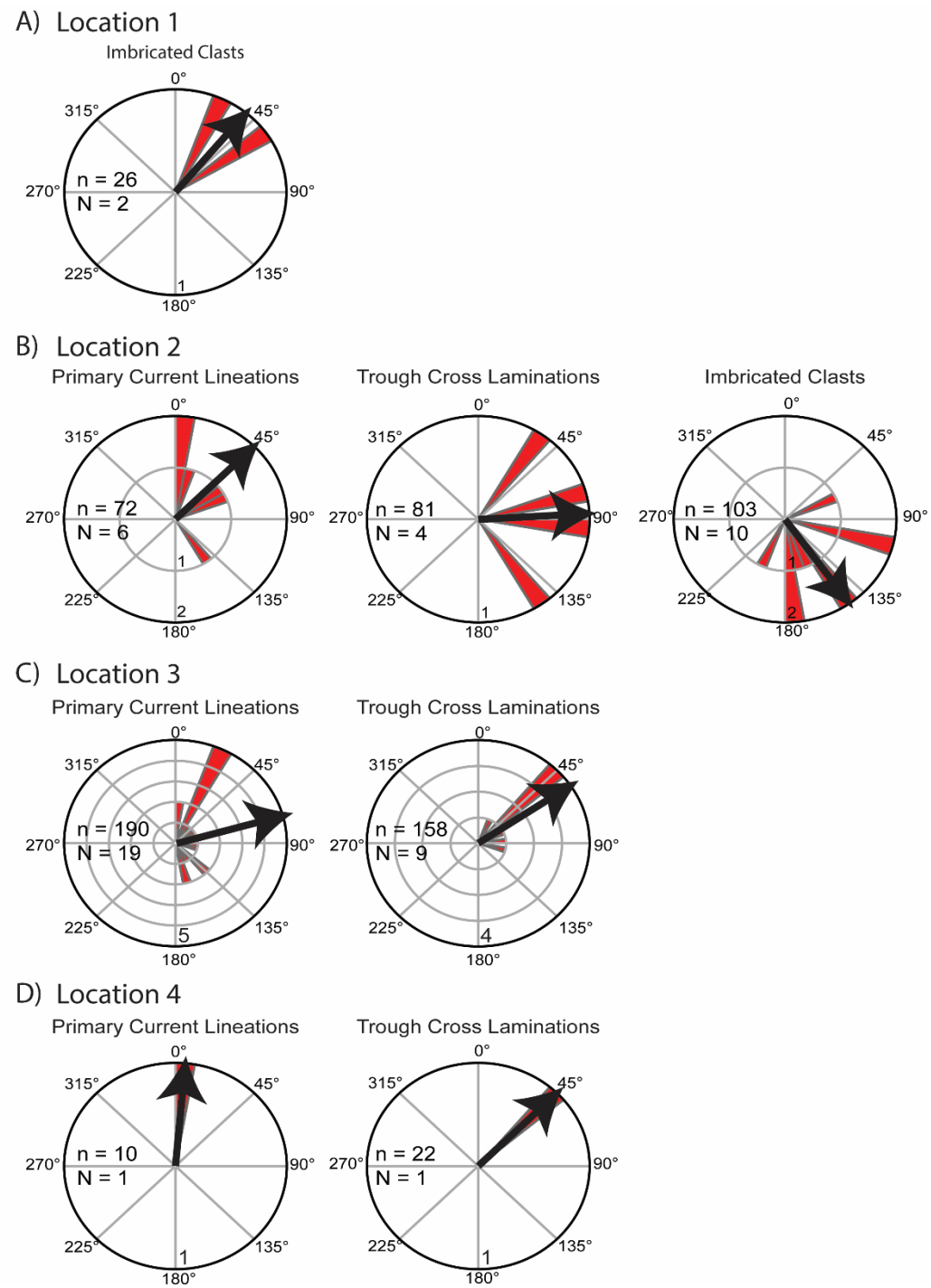


Figure 7: Rose diagrams showing station averaged paleocurrent measurements separated based on paleocurrent indicator type. A) Results from location 1, B) results from location 2, C) results from location 3, D) results from location 4. N = number of stations, n = number of measurements.

3.1.4 Sandstone Petrography

Point count results indicate markedly different framework grain proportions between the Altiplano and Eastern Cordillera samples (locations 2–3 and location 4, respectively). Locations 2 and 3 document subarkose–lithic arkose sandstones with about 65% quartz and 20% feldspar on average, while location 4 is comprised of supermature quartzarenites (>95% quartz) (Figure 8, 10). Sandstone compositions in the two southern locations are consistent with recycled orogenic, transitional continental, and occasionally arc derived sources while the eastern location suggests a cratonic source (Figure 8, 10).

3.1.5 Conglomerate Clast Count Analysis

Conglomerate clast counts show variable proportions of quartzite, siliciclastic, volcanic, plutonic, and limestone rocks. Clast counts from location 1 show consistently high contributions from rocks of volcanic (17% – 46%), quartzite (13% – 40%), and siliciclastic (11% – 27%) origin. Plutonic and limestone clasts are also observed but typically at lower abundances, accounting for 4% – 25% and 4% – 36%, respectively (Figure 9). Clast counts conducted at location 2 show an abrupt decrease in volcanic and plutonic contribution (from 33% to <5%) at the top of the Muñani Formation. The decrease in volcanic and plutonic clasts is replaced by large quantities of siliciclastic (25%), limestone (30%), and quartzite (40%) clasts. Upsection of the igneous-poor clast counts, volcanic and plutonic clasts (~40%) are observed at quantities that resemble those of the Muñani Formation at location 2. Location 3 has fewer conglomeratic intervals than location 2. However, quartzite (46% – 35%), siliciclastic (13% – 20%), limestone (12% – 20%), volcanic (12% – 26%), and plutonic (4% – 1%) proportions are consistent with those at the top and bottom

of the stratigraphic section at location 2 (Figure 9). Between all of the locations, volcanic and quartzite clasts are most prevalent, on average accounting for ~65% of the total clasts counted.

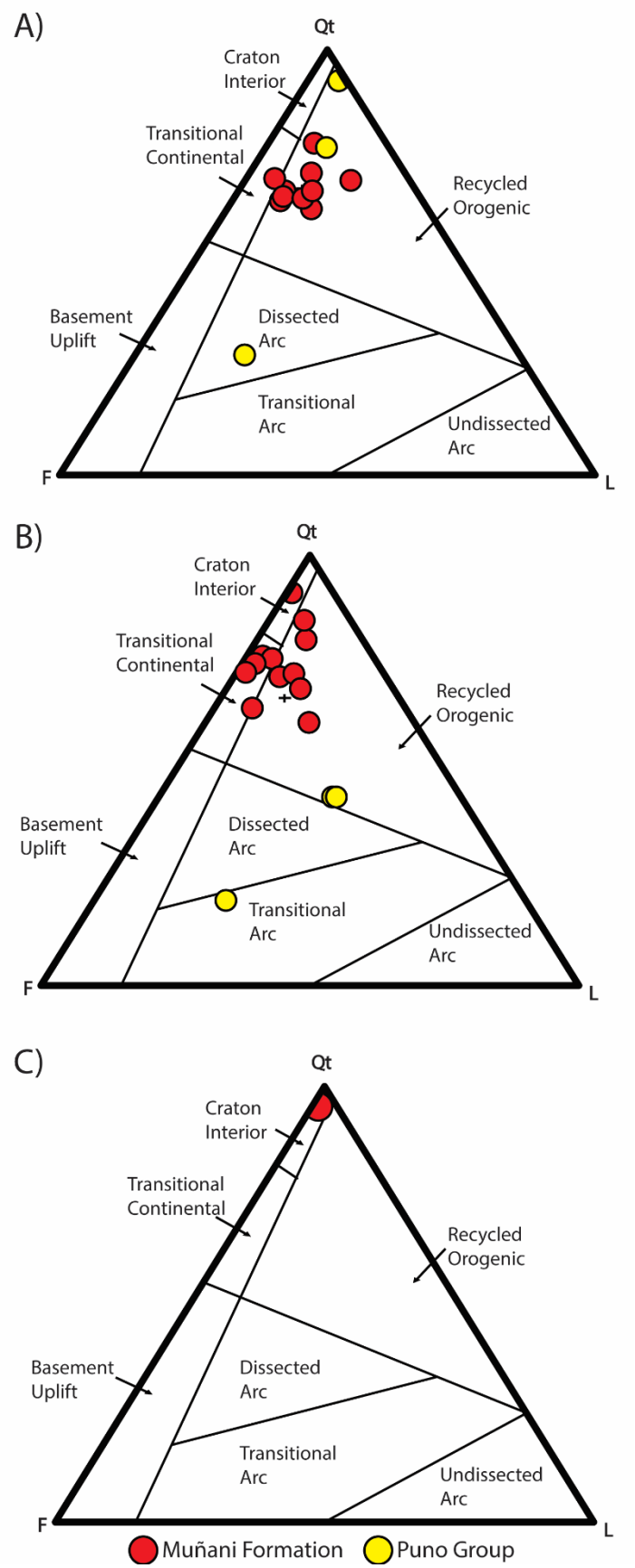


Figure 8: Sandstone petrography ternary diagrams A) Results from study location 2, B) results from study location 3, C) results from study location 4. Red circles indicate petrography samples from the Muñani Formation and yellow circles indicate petrography samples from the Puno Group. Note differences between Muñani Formation and Puno Group samples and differences between locations. All diagrams are based on Dickinson and Suczek, 1979.

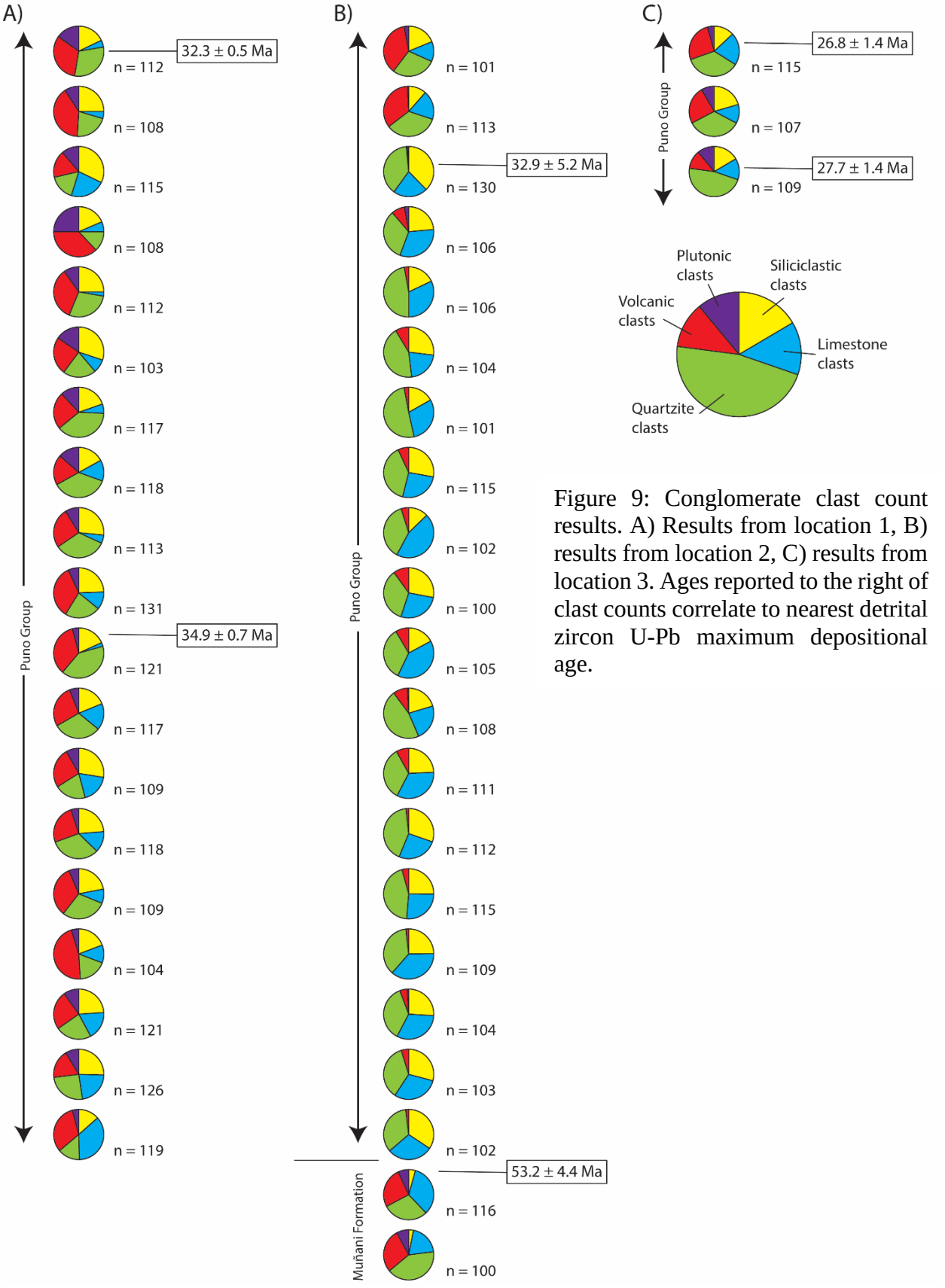


Figure 9: Conglomerate clast count results. A) Results from location 1, B) results from location 2, C) results from location 3. Ages reported to the right of clast counts correlate to nearest detrital zircon U-Pb maximum depositional age.

Table 3: Sandstone petrography results. Q = quartz, F = feldspar, L = lithic fragments, Qm = monocrystalline quartz, Qp = polycrystalline quartz, Lv = volcanic lithic fragments, Ls = sedimentary lithic fragments

Sample name	Stratigraphic level (m)	Q	F	L	Qm	F	L	Qp	Lv	Ls
South Puno (Location 2)										
140816-03	0	250	87	63	214	87	63	36	32	31
5SPU_	40	284	70	46	267	70	46	17	23	23
5SPUp11	230	277	44	79	242	44	79	35	51	28
4SPU32	560	260	88	52	227	88	52	33	40	12
4SPU155	680	312	54	34	288	54	34	24	11	23
4SPU324.5	850	267	98	35	247	98	35	20	25	10
4SPU503	1050	264	93	43	221	93	43	43	28	15
1SPU13	1080	258	106	36	209	106	36	49	15	21
1SPU93	1160	279	100	21	259	100	21	20	10	11
1SPU219	1280	262	102	36	235	102	36	27	9	27
1SPU377	1440	267	78	55	251	78	55	16	25	30
2SPU249	2010	371	6	23	358	6	23	13	5	18
3SPU10	2150	308	47	45	286	47	45	22	15	30
3SPU98	2230	113	205	82	95	205	82	18	44	38
North Acora (Location 3)										
2NAC78	100	258	114	28	218	114	28	40	8	20
2NAC213	235	287	79	34	277	79	34	10	11	23
2NAC279	300	304	76	20	299	76	20	5	6	14
3NAC1	410	245	79	77	231	79	77	14	14	63
3NAC140	545	276	69	55	263	69	55	13	31	24
3NAC295	730	306	82	12	276	82	12	30	7	5
4NAC16.1	910	290	67	43	273	67	43	17	28	15
3NAC492	925	299	91	10	279	91	10	20	5	5
3NAC658	1060	291	102	7	270	102	7	21	2	5
4NAC248	1100	321	42	37	306	42	37	15	22	15
4NAC345	1190	365	31	4	350	31	4	15	1	3
5NAC92	1310	339	35	26	307	35	26	32	20	6
5NAC99.1	1320	79	223	98	70	223	98	9	90	8
5NAC315.5	1510	175	93	132	147	93	132	28	119	13
5NAC658	1850	175	96	129	150	96	129	25	119	10
Back-thrust belt (Location 4)										
1BTB285	300	390	9	1	384	9	1	6	0	1
1BTB460	465	400	0	0	396	0	0	4	0	0
1BTB643	650	386	11	3	367	11	3	19	0	3
1BTB827	835	385	12	3	373	12	3	12	0	3
1BTB1110	1110	386	9	5	376	9	5	10	0	5

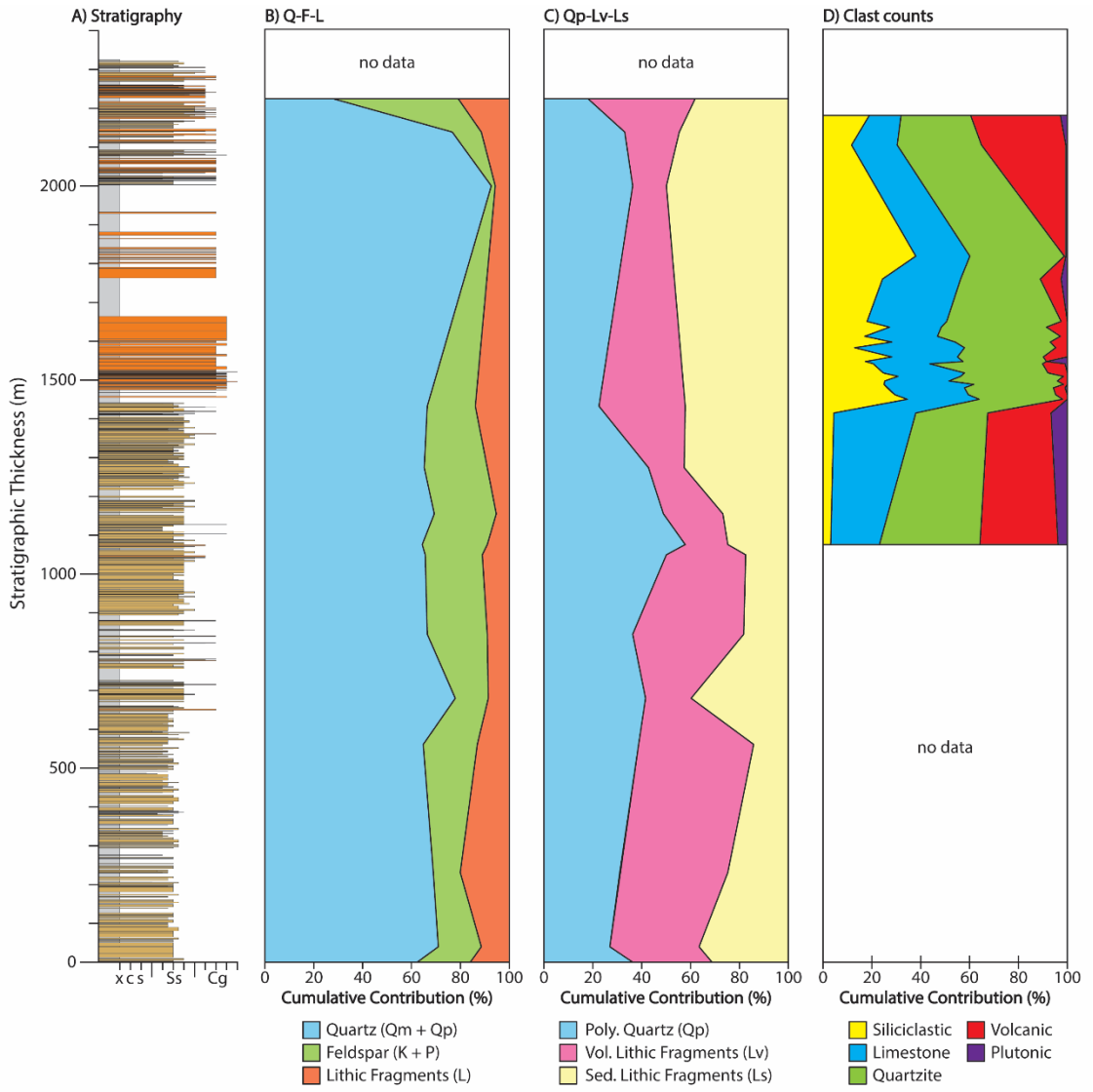


Figure 10a: Summary figure for study location 2. A) Simplified measured stratigraphic section, B) Point count results within stratigraphic context (Q, F, L), C) point count results within stratigraphic context (Qp, Lv, Ls), D) conglomerate clast count results through conglomerate interval.

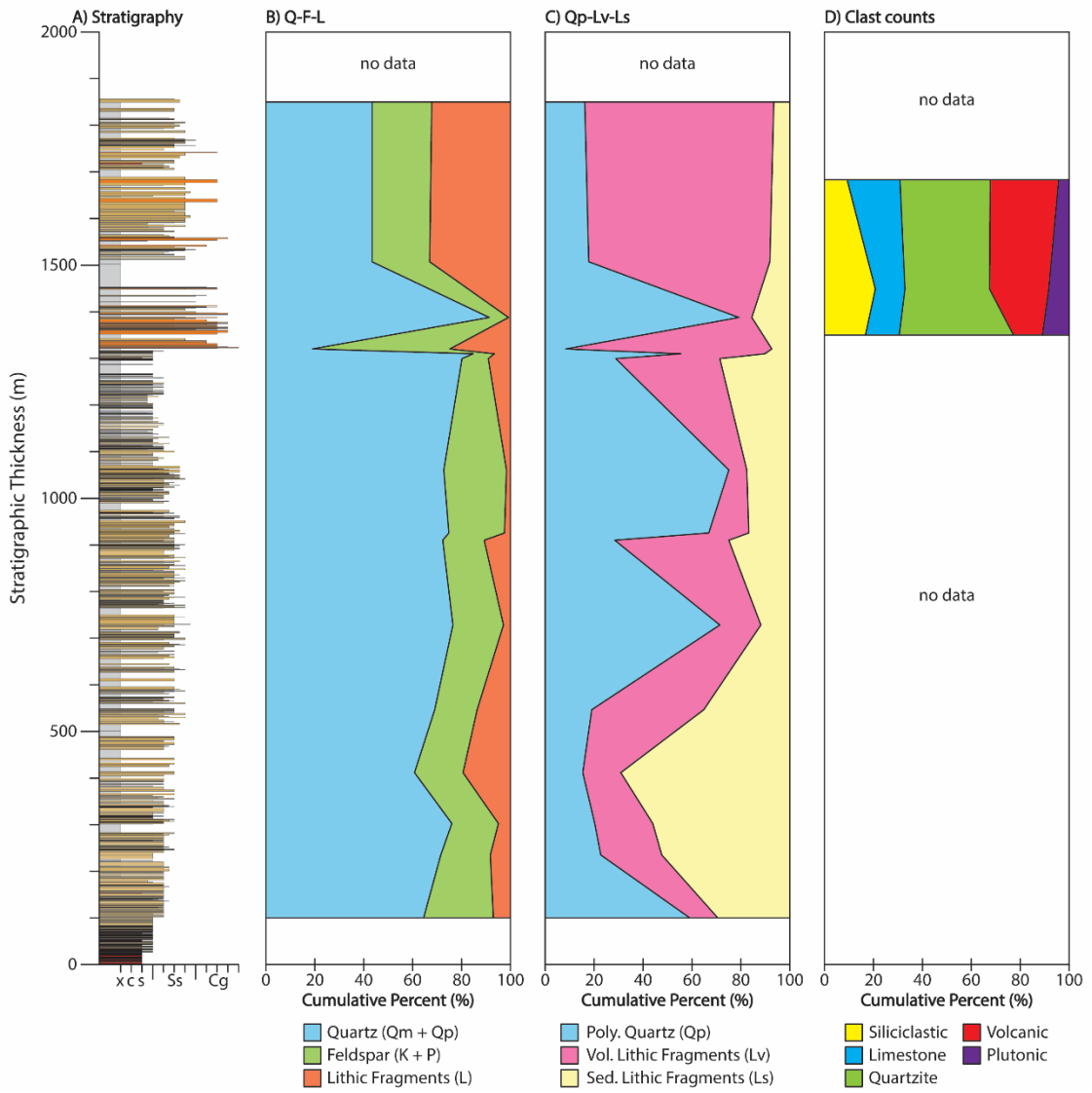


Figure 10b: Summary figure for study location 3. A) Simplified measured stratigraphic section, B) Point count results within stratigraphic context (Q, F, L), C) point count results within stratigraphic context (Qp, Lv, Ls), D) conglomerate clast count results through conglomerate interval.

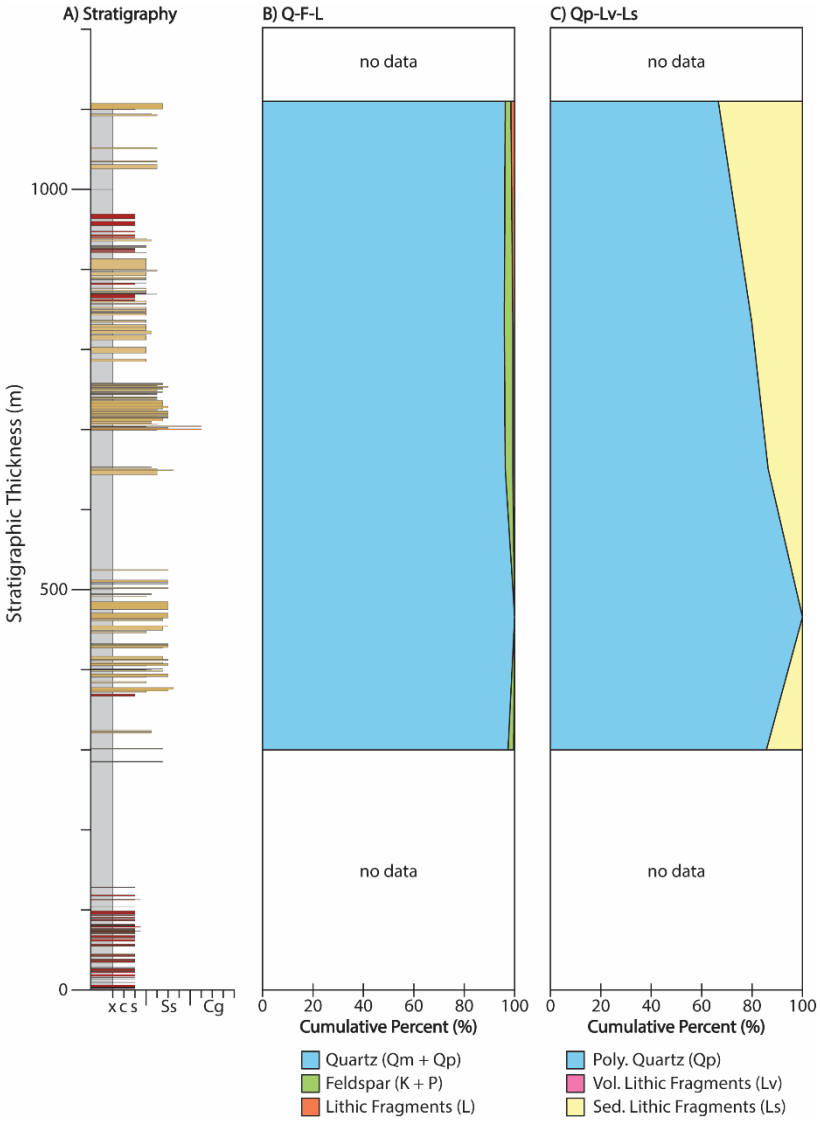


Figure 10c: Summary figure for study location 4. A) Simplified measured stratigraphic section, B) Point count results within stratigraphic context (Q, F, L), C) point count results within stratigraphic context (Qp, Lv, Ls).

3.2 U-Pb Detrital Zircon Geochronology

Twenty-one sandstone samples were collected from the Muñani Formation and Puno Group for detrital zircon U-Pb geochronology. A total of 6,362 concordant grains were analyzed from these 21 samples and used to generate KDEs.

The maximum depositional age of the sandstone samples was determined using three methods. If there are a large number of young grains, the maximum depositional age was calculated using the weighted mean of the youngest cluster of ages that overlap within their 2σ uncertainty (Dickinson and Gehrels, 2009). In most cases, there were sufficient grains present (>5) that were used to calculate the weighted mean age. If there was a low abundance of young grains, then a single grain with 2σ uncertainty or a pair of grains within 2σ uncertainty of each other were used. If no young grains were present, the depositional age is based on linear interpolation of maximum depositional ages that bracket the sample above and below. Fortunately, most samples contained at least a single young grain, limiting interpolation to only three samples from the Eastern Cordilleran backthrust belt.

The maximum depositional ages calculated constrain the timing of deposition for both the Muñani Formation. and the Puno Group of southern Peru (Figure 11). Depositional ages vary between the four study locations. At location 1 (Figure 2A) in the Western Cordillera, the maximum depositional ages for the two samples are 34.9 ± 0.7 Ma (2σ) and 32.3 ± 0.5 Ma (2σ) (Figure 11). The maximum depositional age at the base and top of the section at location 2 (Figure 2B) are 51.2 ± 4.9 Ma and 28.9 ± 0.2 Ma, respectively. Additional max depositional ages were calculated in the lower 1400 m of this section and do not consistently produce an upsection younging trend, suggesting that the young volcanic zircons do not closely track depositional age (Figure 4, 11). At location 3 (Figure 2C), the maximum depositional age at the base and top of the

section are 46.8 ± 1.4 Ma and 26.8 ± 1.4 Ma, respectively. In contrast to location 2, samples analyzed in this section show an upsection younging trend, suggesting this section closely tracks true depositional age. Although location 2 likely does not record true depositional age, we can assign a broad depositional age between ~53–47 Ma based on the absence of ~47 Ma aged grains which would be expected if it were younger than 47 Ma, based on the abundance of these middle Eocene zircons at the nearby location 3. We therefore distribute the 5 samples in the lower 1440 m of location 2 in stratigraphic order between 53 and 47 Ma (Figures 13, 15 and 16). Location 4 had few young volcanic zircons, and our interpretation that maximum depositional ages correspond to true depositional ages is correspondingly tentative. For example, only 25 (of a total of 1,336) concordant grains had age <200 Ma. However, MDAs are consistent with depositional ages from other locations and with the broad constraints available prior to this study (Sundell et al., 2018).

U-Pb detrital zircon samples all share similar peaks with the characteristic age groups. All but five samples, from the Eastern Cordilleran backthrust belt, have significant populations of the Andean signature (<200 Ma) (Figure 11). Zircons in this age group are associated with magmatic arc activity during the Mesozoic–Cenozoic and indicate Western Cordilleran influence (Mamani et al., 2010; Demouy et al., 2012). Gondwanide (200–350 Ma) age peaks are observed at variable proportions between the samples and do not appear to show a systematic trend. The Famatinian (400–500 Ma) age group does not have a significant age peak that can be resolved from neighboring source groups. Zircon grains from the Pampean-Braziliano (500–800 Ma) and Sunsás-Grenville (900–1300 Ma) age groups are present in all of the basin samples and commonly comprise the most significant peak in grains >200 Ma (Figure 11). These age groups were originally identified in Paleozoic strata in the Eastern Cordillera and Altiplano but were broadly

distributed into Mesozoic strata across the Altiplano. The Cratonic signature (>1300 Ma) is muted and tends to taper off the Sunsás-Grenville age group in all basin samples, with the exception of samples from the middle of the Muñani Formation at locations 2 and 3 (100816-01, 1SPU93, SPU155, 2NAC265, and 20160813-07), which all show slightly increased proportions of Meso-Paleoproterozoic grains (Figure 11).

Table 4: Detrital zircon U-Pb geochronology sample metadata.

Sample name	Latitude	Longitude	Formation (Fm.) or group (Gp.)	Geologic age	n
Santa Lucia (Location 1)					
120618-01	-15.68367	-70.81846	Puno Gp.	E. Oligocene	339
130618-02	-15.67611	-70.82149	Puno Gp.	L. Eocene	321
South Puno (Location 2)					
3SPU112	-15.89646	-69.96027	Puno Gp.	E. Oligocene	313
2SPU249	-15.89192	-69.95737	Puno Gp.	E. Oligocene	463
100816-01	-15.88175	-69.95961	Muñani Fm.	E. Eocene	279
1SPU93	-15.88038	-69.96027	Muñani Fm.	E. Eocene	324
4SPU155	-15.87699	-69.94795	Muñani Fm.	E. Eocene	314
5SPUp11	-15.86975	-69.94610	Muñani Fm.	E. Eocene	365
140816-03	-15.86605	-69.94164	Muñani Fm.	L. Eocene	305
North Acora (Location 3)					
5NAC658	-15.98112	-69.64453	Puno Gp.	E. Oligocene	312
5NAC99.1	-15.98386	-69.64993	Puno Gp.	E. Oligocene	242
3NAC658	-15.97376	-69.66517	Puno Gp.	L. Eocene	302
20160813-07	-15.97255	-69.67393	Muñani Fm.	Eocene	186
2NAC265	-15.97452	-69.67576	Muñani Fm.	Eocene	316
20160813-06	-15.97560	-69.67755	Muñani Fm.	Eocene	328
1NAC1.2	-15.97511	-69.68035	Muñani Fm.	L. Eocene	317
Back-thrust belt (Location 4)					
1BTB1110	-14.58799	-70.08149	Muñani Fm.	Eocene	281
1BTB1040	-14.58839	-70.08175	Muñani Fm.	Eocene	115
1BTB643	-14.59237	-70.08675	Muñani Fm.	E. Eocene	316
1BTB375	-14.59368	-70.09235	Muñani Fm.	E. Eocene	125
1BTB285	-14.59353	-70.09360	Muñani Fm.	L. Paleocene	499

3.2.1 Top-down Mixture Modelling

Top-down mixture modelling was conducted using all Paleozoic–Mesozoic samples as potential sources (Figure 12). Results show consistently high contributions of Western Cordilleran (20%–50%), Altiplano (20%–40%), and ambiguous Eastern Cordilleran & Altiplano (~40%)

sources, with minimal contribution from the exclusively Eastern Cordilleran (<5 %) or ambiguous Western Cordillera & Altiplano source groups (<5%) (Figure 13). Although relative contributions are similar between study locations, we analyze each location independently to address possible basin partitioning.

Location 1, in the Western Cordillera, shows moderate contributions from the Western Cordilleran source group, in particular, the Hualhuani (~14%) and Labra (~14%) formations. Approximately 11% of the total zircon age spectra can be attributed to the Lampa and Calapuja formations in the Altiplano source group. The Eastern Cordillera & Altiplano source group dominates this location, accounting for ~44% of the mixed basin sample, with relatively high contributions from the Muni (~19%) and Huancane formations (~14%). Lastly, the Eastern Cordilleran and Western Cordillera & Altiplano source groups contribute ~5% of the total contribution (Figure 13). Additionally, between 34–32 Ma there are moderately increasing proportions of the ambiguous Eastern Cordillera & Altiplano source while the Western Cordilleran signature weakens.

Location 2 shows and upsection increase in the proportion of Western Cordillera sources through time. Between 53–47 Ma top-down mixture modelling yields low–moderate contribution from the Western Cordilleran source group (~13%–32%) and consistently greater abundances of the Altiplano sources (~25%–~36%). The remaining proportion during the 53–47 Ma interval is attributed to Eastern Cordillera & Altiplano (~57%) and Eastern Cordilleran source groups (~13%). At 33 Ma the proportion attributed to Western Cordilleran sources increases to 50%, while contributions from the Altiplano source group decreases to ~7% and the other source groups remain constant (Figure 13).

The third location provides greater resolution on the upsection increase in the Western Cordillera source. The relatively consistent contributions from the Western Cordilleran (~50%) and Eastern Cordillera & Altiplano (~40%) source groups between 47–27 Ma suggests that the increase in the Western Cordillera source identified at location 2 happened between 53 and 47 Ma. Eastern Cordillera and Western Cordillera & Altiplano source groups account for <10% of the total contribution throughout this location. There is a decrease in Western Cordilleran (–38%) and increase in Eastern Cordillera & Altiplano (+23%) sourcing between 45–42 Ma, possibly associated with the deposition of the conglomerate at location 2. Outside of the minor fluctuation between 45–42 Ma, relative contributions remain roughly constant to the top of the section.

Location 4, in the Eastern Cordillera backthrust belt, also shows relatively high contributions of Western Cordillera (30–45%) and Eastern Cordillera & Altiplano (~45%) source groups. Unique to this location is the moderately high abundance of the Ollantaytambo Formation (Western Cordillera & Altiplano source group) which contributes up to 20% between ~63–50 Ma. Although this location is proximal to the Eastern Cordillera, the top-down mixture model shows minimal contribution from the exclusively Eastern Cordillera source group (<8%) (Figure 12).

Mean Cross-correlation coefficients (R^2) between modelled and measured samples range from 0.65–1.00 and indicate good to excellent fits (Saylor and Sundell, 2016). We interpret Cross-correlation coefficients >0.70 as very good to excellent, values between 0.45 and 0.70 as average to good, and values <0.45 as below average to poor. Relatively high Cross-correlation coefficients (>0.65 R^2) of the top 1.0% model fits suggest that top-down mixture modelling is able to robustly reconstruct all Cenozoic basin samples except for one sample in the backthrust belt (Figure 12). This suggests that potential sediment sources are adequately characterized and accurately represent

formations that are contributing to the Cenozoic basin. Cross-correlation values and relative contributions associated with top-down mixture modelling can be found in Appendix 2.

The Kuiper V statistic was used as an additional correlation metric to assess similarity between modelled and measured samples. The Kuiper V values range from 0.07–0.19 and indicate

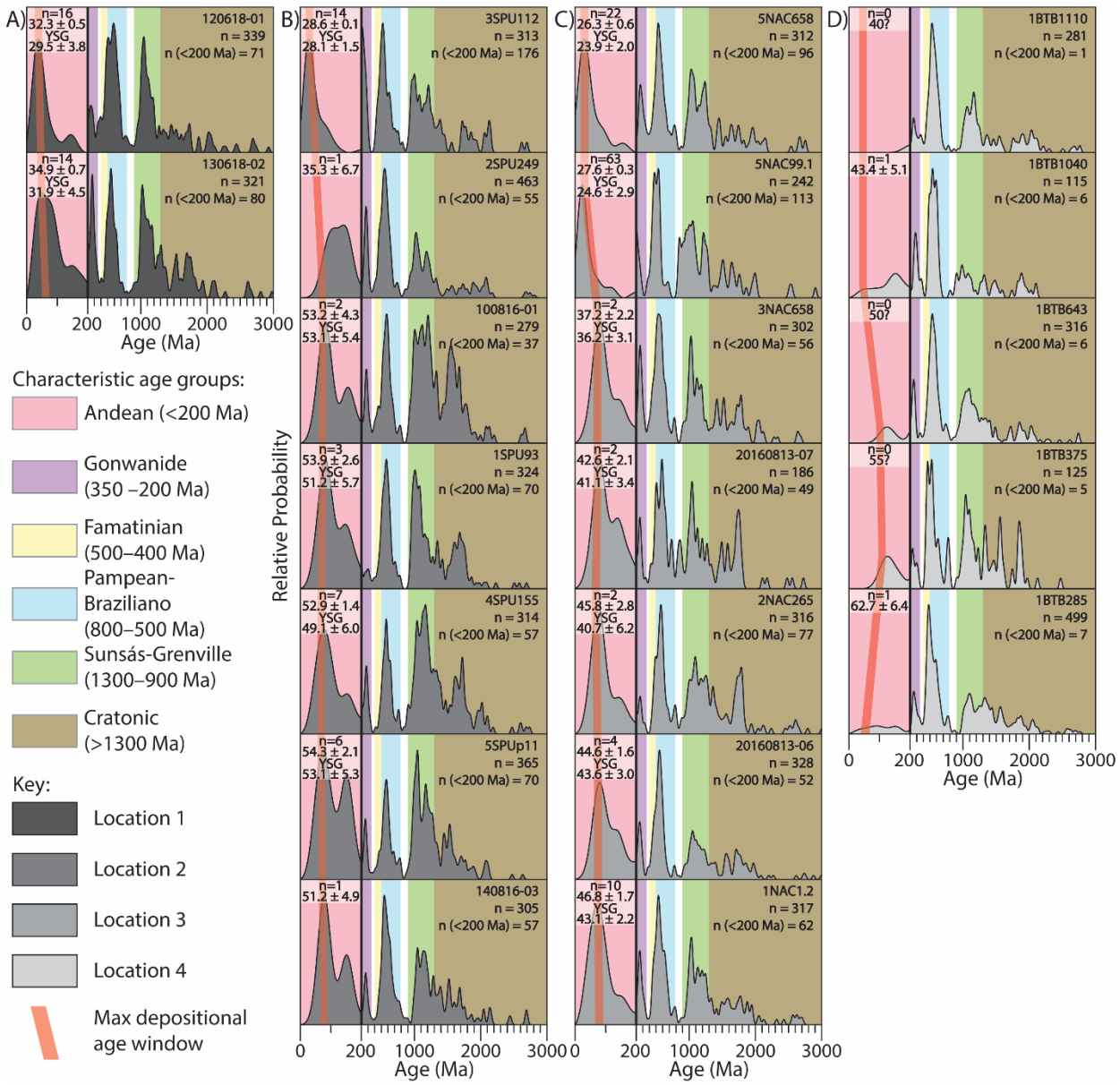


Figure 11: Detrital zircon U-Pb ages for 21 samples ranging from Paleocene–Oligocene strata in the northern Altiplano basin. Data is stacked stratigraphically based on location (oldest at base). Data is represented as kernel density estimates with bandwidth of 20 Myr. Colored vertical bars indicate characteristic age groups. MDAs are in the upper left corner for each KDE and show the clustered MDA (n=…) and MDA from the youngest single grain (YSG).

very good to poor correlation (Saylor and Sundell, 2016), however, most are consistent with a good fit. Kuiper V values <0.1 are interpreted as a very good fit, while values between 0.1 and 0.16 range from good to average and values >0.16 are indicative of a poor correlation. Although the Kuiper V statistic is not the primary correlation metric, it is consistent with results using the Cross-correlation coefficient, suggesting they are both adequately modelling the mixed samples. Kuiper V values and their associated relative contributions from top-down mixture modelling can be found in Appendix 2.

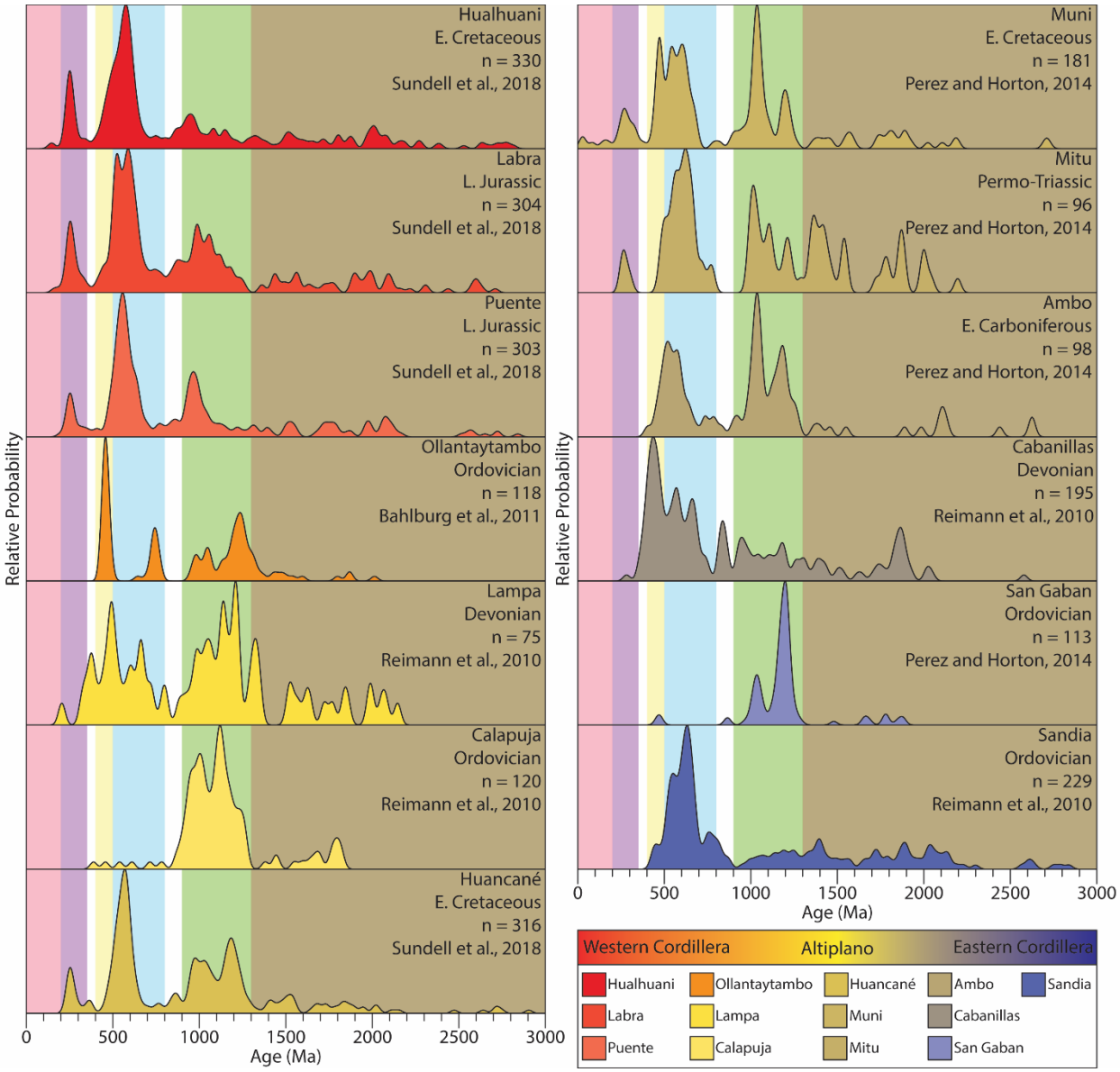


Figure 12: Top-down mixture modelling potential sediment source profiles. Data is represented as kernel density estimates with 20 Myr bandwidth.

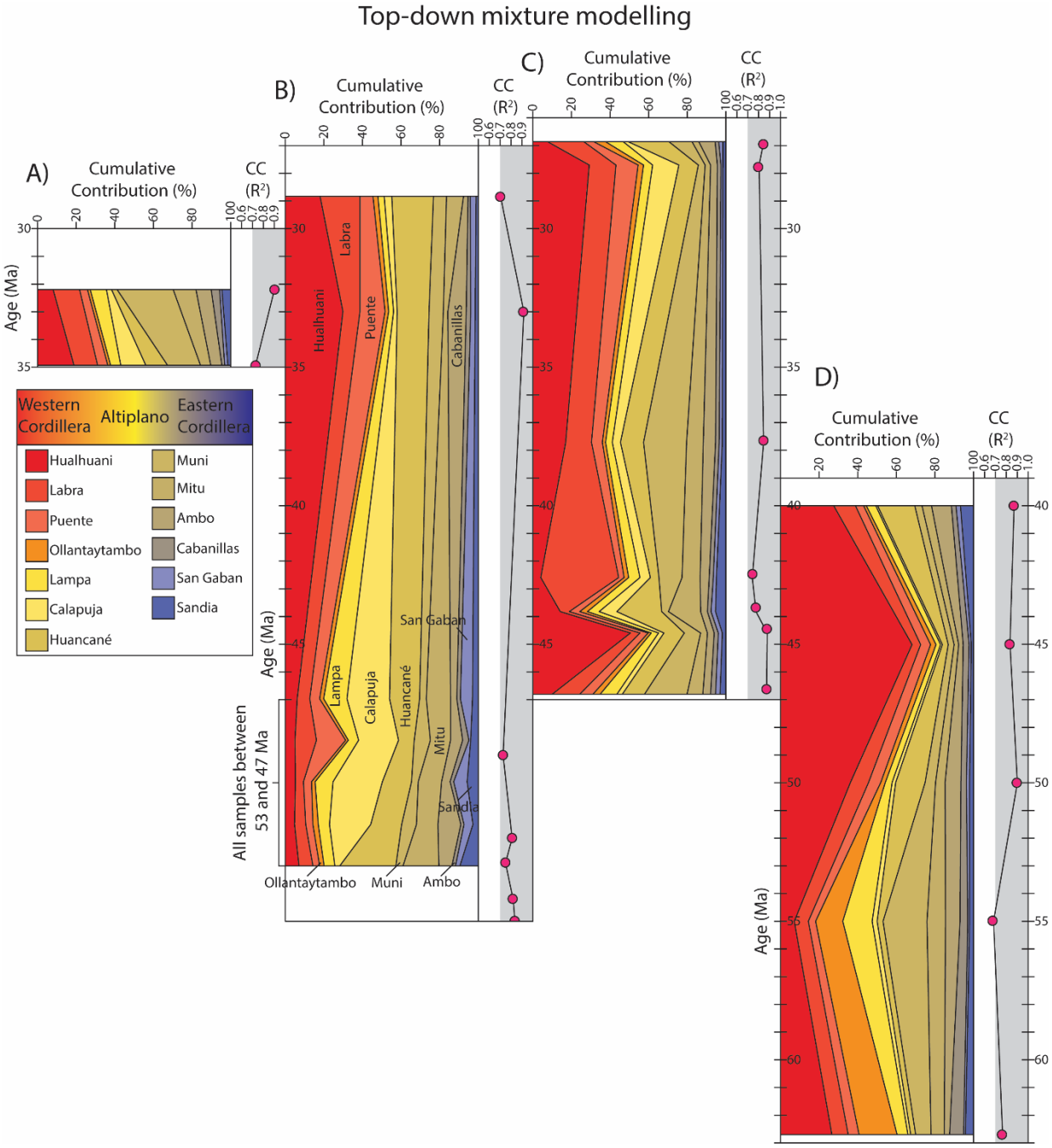


Figure 13: Top-down mixture modelling results from 21 measured basin samples. Cross-correlation coefficients for each sample can be seen to the right of each mixture model result.

3.2.2 Bottom-up Mixture Modelling

Bottom-up mixture modelling indicates that the optimal number of sources is seven. The optimal seven sources were compared to known potential sediment sources via Cross-correlation

coefficient. Cross-correlation coefficients between known sources and the seven synthetic sources vary significantly and range from 0.08 to 1.0. While most Cross-correlation coefficients are above average (>0.45 R^2), one modelled source has no clear known equivalent, suggesting the presence of an undocumented source (Appendix 3). However, this undocumented source has a geologically implausible KDE age distribution, characterized by a broad mode associated with cratonic-aged grains (1500–1800 Ma) that are unlikely to be contributing to the basin, and which comprises a minor component in all basin samples. We interpret this source as an artifact introduced into the factorization by applying a greater rank than necessary (Smith et al., 2019). We therefore factorized the samples into six sources and note that the final residual and SSR did not differ significantly. The six synthetic sources have excellent–below average Cross-correlation coefficients (>0.4 R^2) compared to empirical counterparts. With the exception of NMF source 1 all factorized sources have an empirical counterpart that matches significantly better than all others (Figure 14a, b). NMF source 1 has a high Cross-correlation coefficient when compared to the Labra, Puente, and Hualhuani formations. Because these are all in the Western Cordillera source group, we merge these into a single composite sample for hybrid modelling (below). Comparison of the six synthetic sources indicated that 1) Western Cordillera composite (compilation of Western Cordilleran sources), 2) Ollantaytambo Formation, 3) Calapuja Formation, 4) Ambo Formation, 5) San Gaban Formation, and 6) Sandia Formation were all significant contributors to the Cenozoic basin (Figure 14a, b).

Consistent with top-down mixture modelling, bottom-up modelling results indicate that the Western Cordillera is a significant sediment source throughout the Paleogene. However, this model suggests a much greater contribution from unambiguous Eastern Cordilleran sources (20–40%) compared to top-down modelling (Figure 15). Upsection trends between the bottom-up and

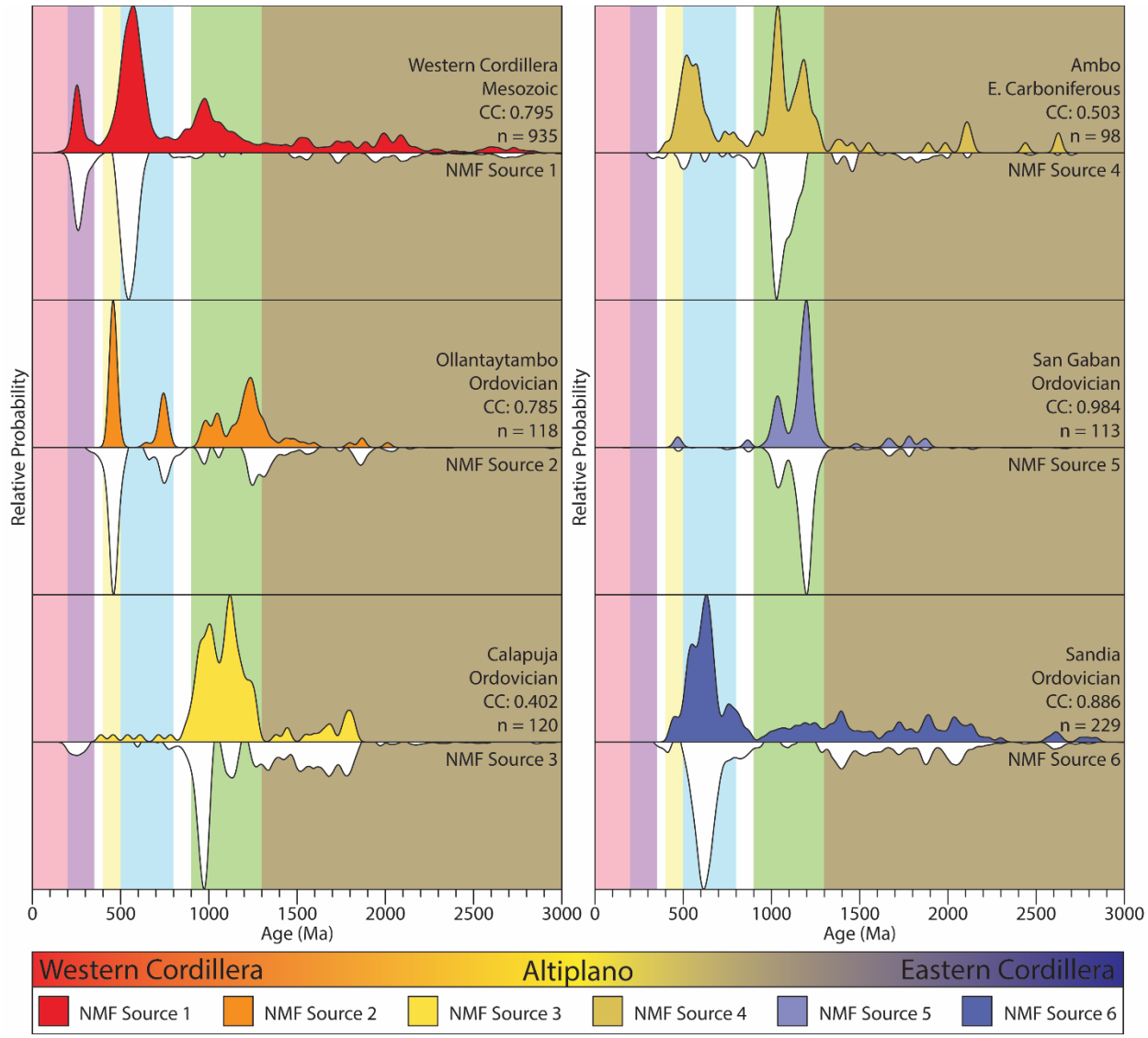


Figure 14a: Bottom-up mixture modelling potential sediment source profiles. Sources are generated through bottom-up approach and correlated known potential sediment sources. Synthetic sediment sources age distributions represented as KDE with 20 Myr bandwidth.

top-down models remain consistent. Like the initial top-down mixture modelling, bottom up mixture modelling indicates a significant contribution from NMF source 2, which is interpreted to represent the Ollantaymbo Formation, in the Paleocene in location 4, with decreasing contributions upsection (Figure 15D).

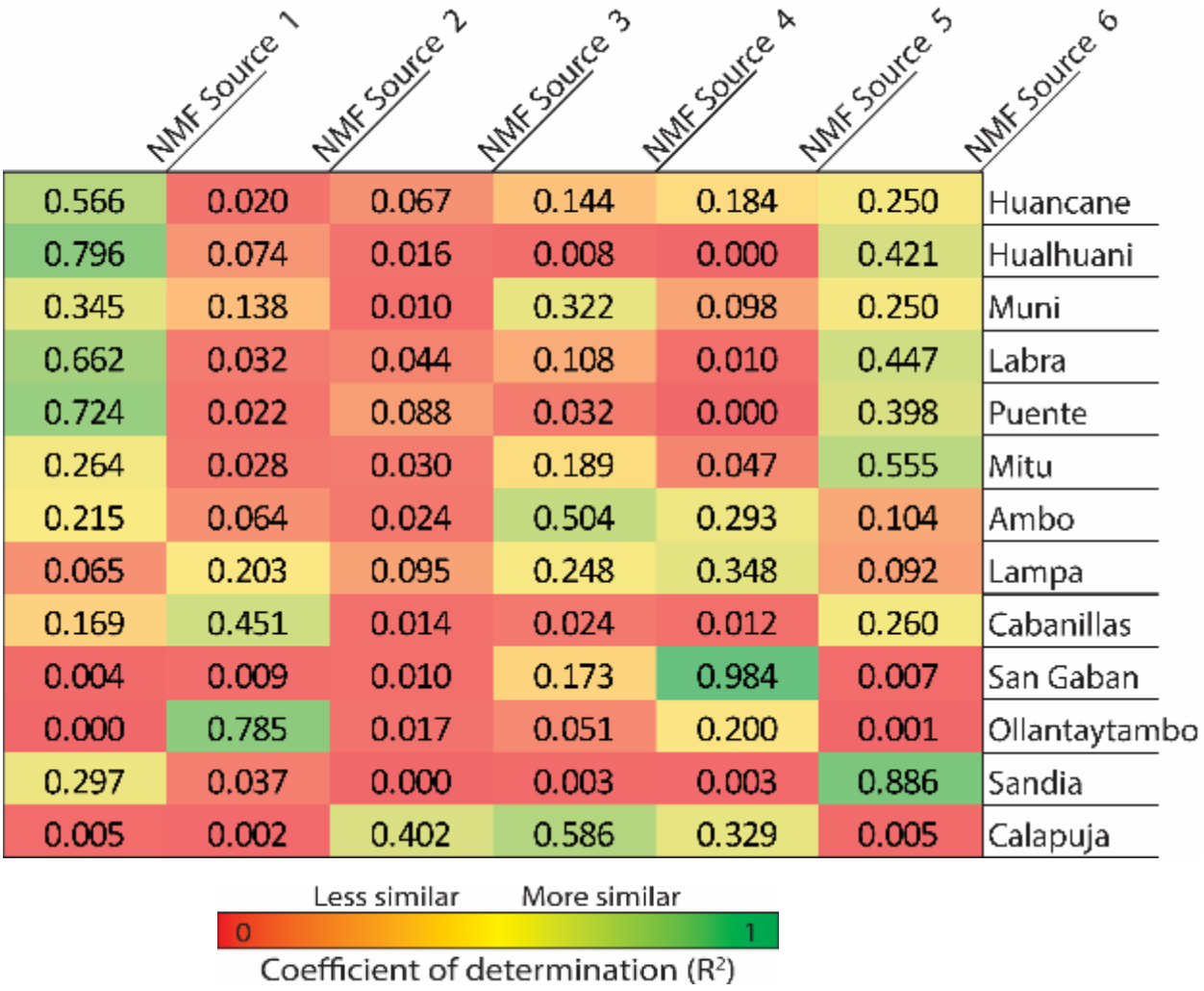


Figure 14b: Bottom-up mixture modelling sediment sources compared to known potential sediment sources via Cross-correlation matrxix. Cross-correlation values closer to 1 are more similar.

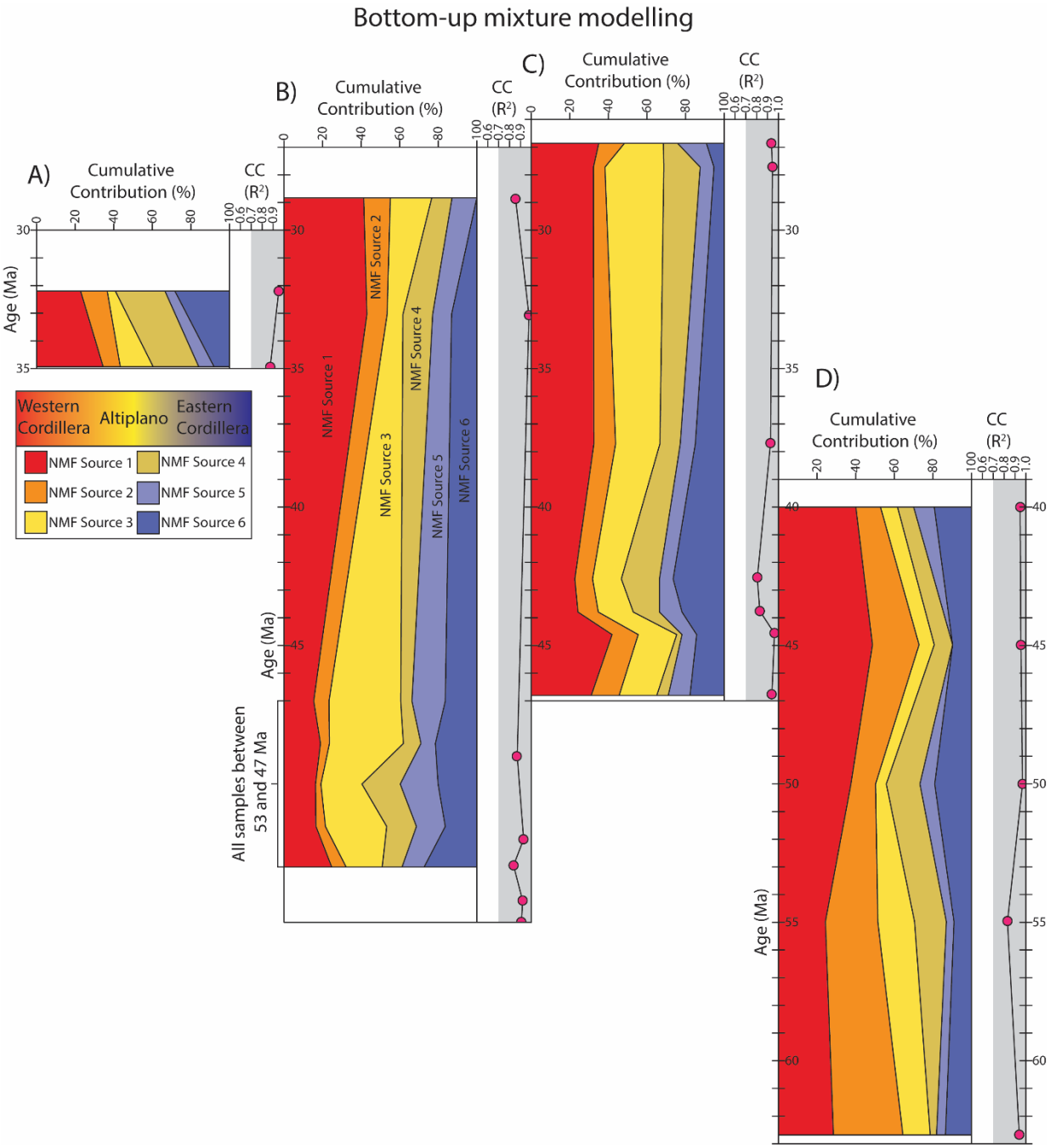


Figure 15: Bottom-up mixture modelling results from 21 measured basin samples. Cross-correlation coefficients for each sample can be seen to the right of each mixture model result.

3.2.3 Hybrid Mixture Modelling

The hybrid modelling approach incorporates the potential sediment sources that were identified via bottom-up mixture modelling, reducing the total number of sources compared to six.

Lowering the number of source samples decreased the Cross-correlation coefficients between mixed and modelled samples, however, compared to the original top-down mixture model, the change is insignificant (<0.05 change in R^2 for each sample), and therefore still accurately represents sediment provenance (Figure 16). Similar to the aforementioned modelling techniques, the Western Cordilleran sources (30 – 80%) are significant contributors to the basin. Despite considering similar source profiles as the bottom-up approach, the hybrid method shows contributions from the Eastern Cordillera at values <5% (Figure 16). This method maintains previously identified upsection trends. As with the previous two modelling approaches, there is a significant contribution from the Ollantaytambo Formation observed in Paleocene strata in location 4, with decreasing contribution upsection (Figure 16D)

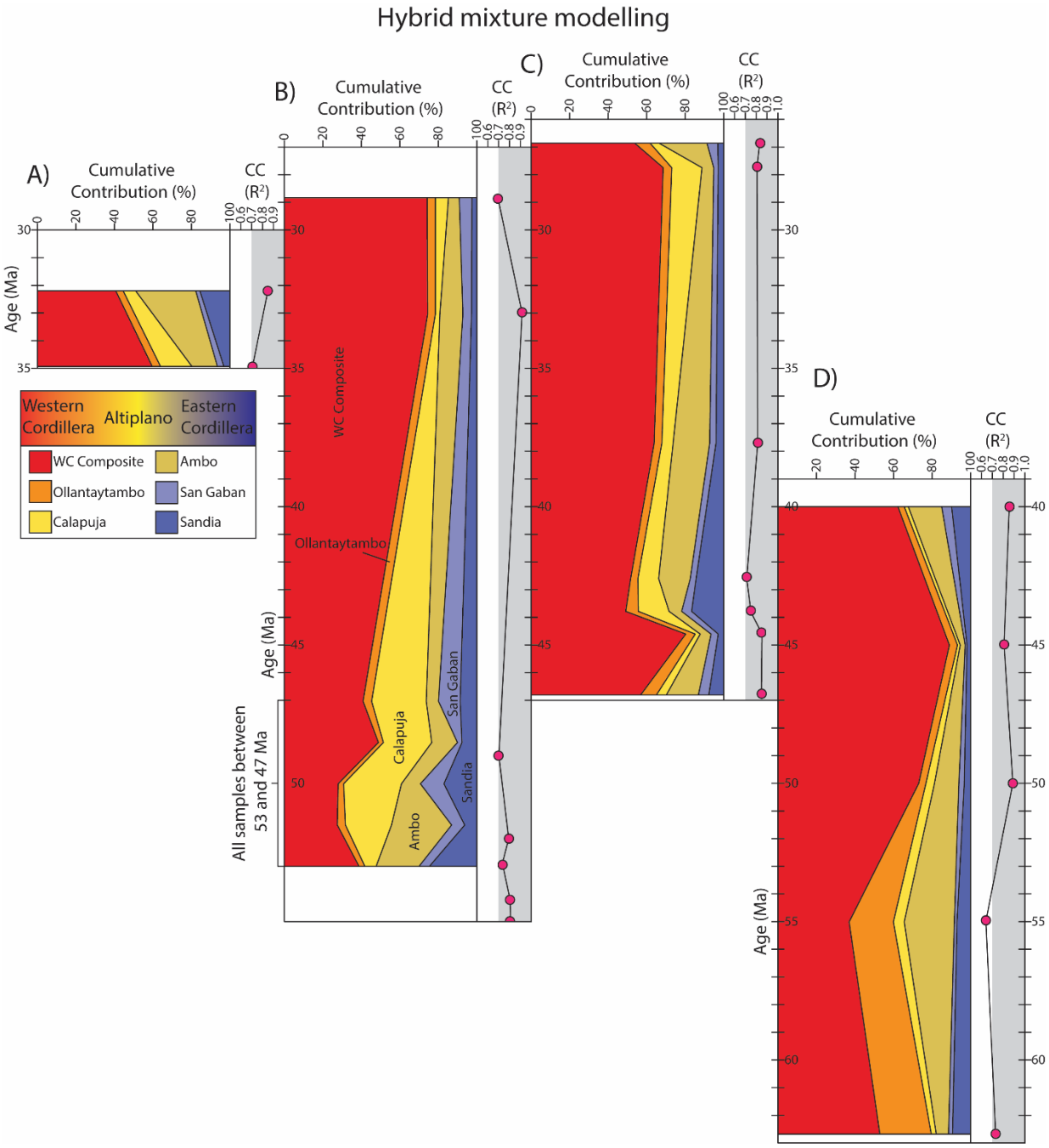


Figure 16: Hybrid mixture modelling results from 21 measured basin samples. Only 6 known sediment sources are considered, based from bottom-up approach.

4. DISCUSSION

Integration of these datasets and analysis from across-strike localities allows us to identify variations in provenance across the Altiplano basin in the Paleocene–Oligocene. These data show markedly different results compared to previous studies in the Altiplano basin and help to elucidate inconsistencies between provenance and thermo-kinematic models (McQuarrie et al., 2005; Gillis et al., 2006; Horton et al., 2014; Perez and Horton, 2014; Rak et al., 2017; Sundell et al., 2018; Parks and McQuarrie, 2019).

The upper Paleocene–lower Eocene Muñani Formation is generally consistent with upward coarsening fluvial deposits, however at location 3, the stratigraphic interval between 1080–1320m shows a fining upward trend until overlain by a conglomerate at ~27 Ma. We interpret this fining upward succession at location 3 to be a function of its location within the overall fluvial system, likely off axis of the main channel network. The Muñani Formation has a relatively consistent ~1 km thickness at all locations. Location 4, the easternmost exposure of the Muñani Formation, represents a markedly different depositional environment than the two southern locations. Whereas locations 2 and 3 are consistent with sheetflood and debris flow deposition, location 4 preserves thinly interbedded (<1 m bed thicknesses) sandstones and mudstone with evidence of bioturbation suggesting floodplain deposition was predominant. In addition, distinct coarsening-upward successions are not observed at the eastern location.

Stratigraphic sections coupled with maximum depositional ages allow us to generate chronostratigraphic correlations rather than the lithostratigraphic correlations that have been applied previously. These newly applied correlations indicate significant diachroneity between similarly mapped units and highlights the importance of chronostratigraphy in the Altiplano (Figure 2 and 4). Maximum depositional ages and lack of an apparent upsection younging trend at

location 2 suggest that deposition of the lower ~1400 m of this section was broadly deposited between ~47–53 Ma based on the absence of ~47 Ma aged grains at location 2 and their presence at location 3. Overlying the lower ~1400 m succession at location 2 is a thick, poorly bedded conglomerate. Age discrepancy between locations 2 and 3 and the abrupt shift in depositional facies suggest the presence of an unconformity at location 2 during the lower Eocene. The unconformity likely resulted from thrusting in the west that subsequently produced an erosional front that cannibalized underlying strata (DeCelles et al., 1987). Consistent with western thrusting, clast lithology and paleocurrent orientation within this thick conglomerate indicate large contributions of quartzite and volcanic clasts and southeastward oriented paleoflow. The proposed thrusting event uplifted Western Cordilleran Mesozoic strata, induced cannibalization of underlying strata, and potentially initiated deposition at location 3 (Miall, 1978; DeCelles et al., 1987).

Petrographic point count data from each location show markedly different sandstone compositions, specifically between the eastern and southern locations (location 4 and locations 2 and 3, respectively). Point count results from the eastern location are distinct from locations to the west; indicating a quartzarenite rather than arkosic composition and consistent with cratonic rather than recycled orogen origin or arc derived sources. This discrepancy seen between the eastern and southern locations suggest that the respective contributing sources were significantly different and that the eastern and southern basins likely evolved independently.

Conglomerate clast counts from the Muñani Formation and Puno Group are comprised of relatively similar clast lithologies and show dominant contributions of quartzite, volcanic, and siliciclastic clasts. While quartzite formations are near ubiquitous in Mesozoic–Paleozoic strata across the Altiplano (Portugal, 1974), we suspect that the quartzites observed in these

conglomerates are derived from either the early Cretaceous Hualhuani Formation, Jurassic Labra Formation, or Jurassic Puente Formation (Western Cordillera source group). Previous U-Pb detrital zircon analysis of individual clasts from the Puno Group also support this interpretation. Karsky et al. (2018) identified similar age peaks between the clast age distributions and the age distributions of the previously mentioned formations. Volcanic clasts preserved in the conglomerates also suggest sourcing from the magmatic arc of the Western Cordillera, potentially the Andahuaylas Arc which was active between ~30–45 Ma (Mamani et al., 2010). Presence of volcanic and quartzite clasts linked to the magmatic arc and the Western Cordillera source group, respectively, suggest the Western Cordillera was a dominant contributor of sediment during the deposition of the Muñani Formation and Puno Group.

For all locations, top-down mixture modelling results indicate consistently high contributions of the ambiguous Eastern Cordillera & Altiplano source group and low contributions of exclusively Eastern Cordillera source group. Whereas the previously mentioned source groups are relatively consistent, the Altiplano, Western Cordillera, and Western Cordillera & Altiplano source groups show minor fluctuations through time. Between ~63 Ma and ~50 Ma, the Ordovician Ollantaytambo Formation from the Western Cordillera & Altiplano source group comprises ~20% of the total zircon age spectra at location 4 (Figure 13D). At location 2, Paleozoic Altiplano sources, namely the Lampa Formation and Calapuja Formation, comprise up to ~20% of the detrital zircon spectra between ~47–53 Ma (Figure 13B). These results suggest that, during these time intervals, Paleozoic strata from the Western Cordillera & Altiplano and Altiplano source groups were being exhumed and shed into the basin. Following ~45 Ma, exclusively Western Cordillera sources comprised ~50% of the total detrital zircon spectra, while Paleozoic Western Cordillera & Altiplano and Altiplano sources decreased in contribution (Figure 13).

Bottom-up mixture modelling results show similar upsection trends in provenance, notably the increase in Western Cordilleran influence post ~45 Ma (Figure 15). In contrast to top-down mixture modelling, bottom-up mixture modelling attributes up to 20–30% of the zircon age distribution to the Eastern Cordilleran source group (Figure 15). This suggests that as minor or non-contributing sources are removed from consideration, attribution of sediment source is ascribed to sources with distinct geographic limits with no significant decrease in the goodness of fit between the modelled and measured basin sample age distributions. While the top-down mixture model incorporates five ambiguous Eastern Cordillera & Altiplano sources, the bottom-up method only uses one and attributes those geographically ambiguous signatures to exclusively Eastern Cordillera sources. Results from the hybrid mixture model are more similar to the top-down mixture model, where Eastern Cordilleran sources have little impact. Additionally, results indicate that Ordovician strata from the Western Cordillera & Altiplano source group was contributing to the basin, consistent with previous model runs (Figure 16).

Each mixture modelling technique identified upsection trends pointing towards periods of basin segmentation and integration. Specifically, Paleocene–Eocene U-Pb detrital zircon signatures recorded influence from separate Paleozoic sources between location 2 and location 4. Differing Paleozoic sources between the eastern and southern locations (location 4 and location 2, respectively) points to basin partitioning during the Paleocene–Eocene. Following this separation, at ~45 Ma each location trends toward greater influence from Western Cordilleran sources and a decreased influence from each respective Paleozoic source. This trend towards dominantly Western Cordilleran sourcing suggests that, while basins might have initiated as isolated depocenters, they likely reintegrated during the middle Eocene.

Prior to this study, Paleocene–Eocene deposition in the Altiplano was thought to be largely sourced from the Western Cordillera, based on the presence of Andean aged zircons, eastward directed paleocurrents, and significant contribution of late Cretaceous Western Cordillera strata (Carlotto, 2013; Perez and Horton, 2014; Horton et al., 2015; Sundell et al., 2018). This study is broadly consistent with previous work; however, we propose that Altiplano basins were not continuously integrated through time, but rather experienced periods of isolation and integration. During the Cenozoic, Carlotto (2013) indicates that regional scale features, such as the Cusco-Lagunillas fault, had the ability to affect basin geometry. Similarly, Perez and Horton (2014) demonstrated the effects of basin margin structures by recording a shift in sediment provenance in the late Oligocene that coincides with movement along the Urcos-Ayaviri thrust fault. Although late Oligocene thrusting has been shown to influence basin dynamics (Perez and Horton, 2014), the timing does not align with proposed thermo-kinematic models that suggest Eastern Cordilleran exhumation began during the Eocene (McQuarrie et al., 2005; Gillis et al., 2006, Rak et al., 2017; Parks and McQuarrie, 2019). With newly acquired U-Pb maximum depositional ages and mixture modelling, results from this study suggest that Paleozoic strata was being exhumed during the Paleocene–lower Eocene. Additionally, dissimilarities between the eastern and southern locations points to a potential structural high that isolated basins on either side of this feature. Although a structural high has not been identified in southern Peru, studies in north and central Peru have discussed the presence of a structural high that contributed to distinct facies and thickness changes across the perceived boundary (Dalmayrac et al., 1980; Megard, 1984; Benavides-Caceres, 1999; Jaillard et al., 2005; Scherrenberg et al., 2012). This proposed structural high would serve as a topographic barrier nested between the eastern and southern locations inhibiting Western Cordilleran sediment from reaching the eastern location, at least during the Paleocene–lower

Eocene. In addition, this feature potentially contributed exhumed strata, likely Paleozoic, to the basin and could explain the differences in sediment provenance during the Paleocene–lower Eocene. Although structural features are not identified in this study, previous studies lay the foundation for similar mechanisms that possibly drive the observed changes in sediment provenance between the study locations (Scherrenberg, 2012; Perez and Horton, 2014, Perez et al., 2016). Together these data point towards a scenario where the Altiplano was segmented by local uplifts, specifically of Paleozoic Eastern Cordilleran or Western Cordilleran & Altiplano strata, and sediment was shed from these uplifts to the east (Figure 17B).

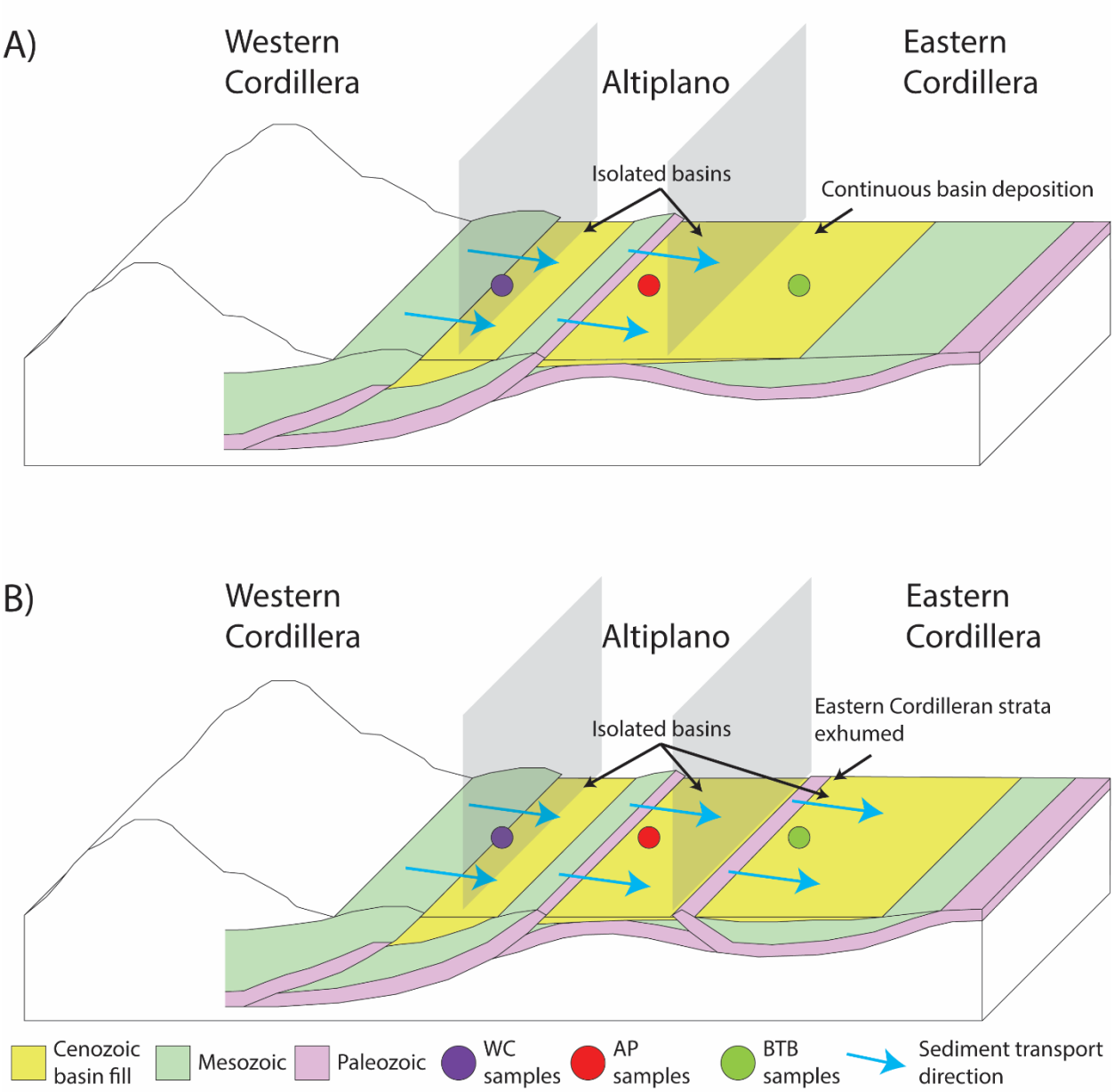


Figure 17: Schematic diagram spanning the Western Cordilerra, Altiplano, and Eastern Cordillera. Diagram illustrates disruption of Altiplano basin by localized uplifts during the Eocene. A) Proposed basin development based on top-down mixture modelling results, B) proposed basin development based on bottom-up mixture modelling results. Stratigraphic thicknesses based on Jaillard et al., 2000; Sempere et al., 2002; Sempere et al., 2004.

5. CONCLUSIONS

New U-Pb detrital zircon maximum depositional ages constrain the timing of deposition of the Muñani Formation and Puno Group to upper Paleocene–lower Eocene (55–63 Ma) and Oligocene (32–37 Ma), respectively. These age ranges vary significantly from previously assigned ages north of the Cusco-Lagunillas Fault that suggest the Puno Group was deposited between 52–43 Ma (Carlotto, 2013). This apparent inconsistency is likely associated with formation nomenclature, however, maximum depositional ages calculated in this study indicate that deposition persisted for ~15 Ma longer than what had previously been assigned. These maximum depositional ages are very geographically dependent and depositional chronology is not as well constrained in the Eastern Cordillera compared to the Western Cordillera or Altiplano. While the maximum depositional age in the easternmost location is 62.7 ± 6.4 Ma, the ages recorded in the southern locations are ~47–53 Ma and 46.8 ± 1.4 Ma for locations 2 and 3, respectively. These new age assignments produce a refined correlation to along strike Altiplano Cenozoic strata and indicate that previous correlations to the "Faja Verde" from northeastern Argentina and lower Tiahuanaco Formaiton, Cayara Formation, La Cabana Member of the lower Potoco Formation, and Santa Lucia Formation in Bolivia are not valid.

Lithological variations, coupled with maximum depositional ages, between study locations show a patchwork of depositional environments and erosional hiatuses through time. Asynchronous deposition observed between locations 2 and 3 and development of a unique, locally sourced, amalgamated boulder conglomerate interval at location 2 points towards an unconformity located at the base of the conglomerate. The unconformity and conglomerates likely reflect exhumation due to thrusting to the west. Proposed thrusting uplifted and recycled Mesozoic and possibly Paleozoic Western Cordilleran strata. The observed unconformity at location 2 is

potentially accounted for at location 3, where strata younger than ~46 Ma is preserved. At location 3, the maximum depositional age (~46 Ma) broadly coincides with the timing of the conglomerate and mixture modelling between the two locations begin to align, further supporting this interpretation. Additionally, the maximum depositional ages reported for location 3 are younger than the expected ~52 Ma proposed by Carlotto (2013).

Whereas paleocurrent data and conglomerate clast counts implicate a dominantly Western Cordilleran source, point count data indicates possible sourcing from the craton to the east, specifically in location 4. Although bottom-up mixture modelling results attribute significant contributions of Eastern Cordillera derived sediment to each location, the unlikely presence of Eastern Cordillera sediment in the westernmost location (location 1) suggests that these values might be background. However, consistent with paleocurrent and point count data, all mixture modelling techniques indicate a distinct difference in sediment provenance at location 4; notably, the introduction of the Ordovician Ollantaytambo Formation signature (Western Cordillera & Altiplano source group). Similarly, mixture modelling for location 2 indicates large contributions of Paleozoic Altiplano sources during the lower Eocene. This suggests that, while not of strictly Eastern Cordilleran affinity, Paleozoic strata adjacent to the locations was contributing to that basin during the Paleocene–lower Eocene. This scenario is the first to reconcile the basin history with thermo-kinematic models, and ultimately suggests the northern Altiplano basin developed as a partitioned basin that likely experienced periods of integration throughout the Paleocene–Oligocene.

Although identifiable upsection trends were documented via mixture modelling, this study highlights the impact of sediment recycling on the U-Pb detrital zircon signature in the Altiplano. Poorly constrained source locations and signatures limit the ability to pinpoint sediment sourcing

regions. Specifically, geographic ambiguity associated with the Eastern Cordillera & Altiplano source group provides no clear insight towards sourcing history despite its large contribution to the detrital zircon signature. Whereas U-Pb detrital zircon signatures are obscured by source ambiguity; petrographic point counts, clast counts, and paleocurrent orientations provide useful information regarding sediment provenance. Distinct differences in sandstone and conglomerate composition observed in this study are indicative of varying sediment sources and thus serve as an important provenance analog. Ultimately, we suggest sediment provenance studies conducted in the Altiplano incorporate point counts, clast counts, and paleocurrent measurements as they record greater variations related to tectonic and provenance shifts and are less influenced by the inherent sediment recycling that complicates the Altiplano detrital zircon signature.

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Appendix 1: U-Pb Isotopic Analysis from the Altiplano Basin and surrounding areas, southern Peru, Uncertainties are reported at 2σ confidence level

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
120618-01, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.683670, LONGITUDE: -70.818460 ACCEPTED															
120618-01-260	0.0767	31.6075	0.0081	32.2904	0.0008	6.7632	0.2046	4.95	0.33	8.22	2.64	1112.97	631.07	4.95	0.33
120618-01-175	0.0477	92.7153	0.0302	93.6497	0.0046	13.1747	0.1409	29.54	3.88	30.25	27.92	84.65	2199.45	29.54	3.88
120618-01-314	0.0477	42.0685	0.0315	42.8508	0.0048	8.1698	0.1902	30.76	2.51	31.48	13.28	84.30	998.04	30.76	2.51
120618-01-378	0.0611	43.8215	0.0406	45.6741	0.0048	12.8912	0.2819	30.96	3.98	40.41	18.10	643.28	941.83	30.96	3.98
120618-01-058	0.0627	38.4173	0.0418	39.1770	0.0048	7.6614	0.1960	31.08	2.38	41.61	15.97	698.27	818.23	31.08	2.38
120618-01-259	0.0657	13.7222	0.0440	14.2764	0.0049	4.2430	0.2767	31.26	1.32	43.76	6.12	795.45	287.72	31.26	1.32
120618-01-226	0.0526	14.4146	0.0358	17.9889	0.0049	10.7150	0.5983	31.71	3.39	35.72	6.31	311.98	327.98	31.71	3.39
120618-01-141	0.0447	20.8229	0.0305	21.1925	0.0049	4.0679	0.1860	31.82	1.29	30.51	6.37	0.00	501.93	31.82	1.29
120618-01-101	0.0571	34.5479	0.0395	35.6222	0.0050	8.6913	0.2437	32.21	2.79	39.29	13.73	493.84	761.57	32.21	2.79
120618-01-389	0.0807	35.6826	0.0566	36.6443	0.0051	8.3699	0.2276	32.66	2.73	55.88	19.93	1214.59	701.91	32.66	2.73
120618-01-159	0.0833	50.7075	0.0593	52.4193	0.0052	13.3920	0.2535	33.19	4.43	58.51	29.81	1275.19	988.84	33.19	4.43
120618-01-181	0.0543	42.9848	0.0387	43.5612	0.0052	7.0220	0.1621	33.20	2.33	38.56	16.48	384.39	965.67	33.20	2.33
120618-01-224	0.0447	32.3924	0.0321	32.9034	0.0052	5.6883	0.1756	33.41	1.90	32.04	10.38	0.00	780.80	33.41	1.90
120618-01-254	0.0717	21.4717	0.0515	22.0744	0.0052	5.3601	0.2323	33.47	1.79	51.00	10.98	977.42	437.67	33.47	1.79
120618-01-248	0.0429	31.7242	0.0309	32.8017	0.0052	8.4452	0.2542	33.58	2.83	30.92	9.99	0.00	764.70	33.58	2.83
120618-01-145	0.0674	18.8217	0.0488	20.6475	0.0052	8.5901	0.4112	33.69	2.89	48.35	9.75	851.58	391.18	33.69	2.89
120618-01-163	0.0400	48.5465	0.0291	48.8828	0.0053	5.8568	0.1171	33.97	1.98	29.15	14.05	0.00	1170.19	33.97	1.98
120618-01-153	0.0277	155.6969	0.0202	156.1091	0.0053	11.4122	0.0726	34.09	3.88	20.35	31.47	0.00	3752.99	34.09	3.88
120618-01-376	0.0401	64.3312	0.0297	65.0136	0.0054	9.4153	0.1445	34.52	3.24	29.73	19.05	0.00	1550.67	34.52	3.24
120618-01-333	0.0553	86.1578	0.0410	86.8004	0.0054	10.5120	0.1215	34.56	3.62	40.82	34.74	423.91	1922.11	34.56	3.62
120618-01-165	0.0555	26.5116	0.0420	27.0997	0.0055	5.4785	0.2073	35.20	1.92	41.74	11.08	433.62	590.44	35.20	1.92
120618-01-347	0.0538	54.4633	0.0414	55.4437	0.0056	10.3479	0.1872	35.83	3.70	41.16	22.37	361.94	1228.43	35.83	3.70
120618-01-375	0.1060	47.7533	0.0819	48.7178	0.0056	9.6660	0.1980	35.96	3.47	79.88	37.44	1732.29	876.24	35.96	3.47
120618-01-203	0.0488	17.4563	0.0378	19.9924	0.0056	9.7373	0.4875	36.04	3.50	37.65	7.39	139.72	409.89	36.04	3.50
120618-01-288	0.0585	42.1423	0.0456	42.3900	0.0056	4.8070	0.1081	36.31	1.74	45.25	18.76	547.03	920.54	36.31	1.74
120618-01-373	0.0430	19.2261	0.0339	20.1653	0.0057	6.1101	0.3016	36.75	2.24	33.89	6.72	0.00	463.43	36.75	2.24
120618-01-173	0.0523	20.6505	0.0416	22.4407	0.0058	8.7579	0.3914	37.05	3.24	41.41	9.11	299.61	470.91	37.05	3.24
120618-01-067	0.0485	8.2632	0.0406	9.4389	0.0061	4.5396	0.4833	38.94	1.76	40.39	3.74	124.77	194.57	38.94	1.76
120618-01-130	0.0437	25.5248	0.0367	27.2174	0.0061	9.5255	0.3472	39.16	3.72	36.61	9.79	0.00	615.26	39.16	3.72
120618-01-151	0.0420	25.9908	0.0355	27.2170	0.0061	8.1833	0.2968	39.41	3.22	35.46	9.48	0.00	626.49	39.41	3.22
120618-01-249	0.0420	27.6531	0.0357	30.1428	0.0062	12.0703	0.3980	39.55	4.76	35.60	10.55	0.00	666.56	39.55	4.76
120618-01-108	0.0495	9.7974	0.0425	13.0786	0.0062	8.6898	0.6624	39.99	3.46	42.31	5.42	173.51	228.62	39.99	3.46
120618-01-302	0.0508	10.5896	0.0439	11.7561	0.0063	5.2119	0.4344	40.32	2.09	43.67	5.02	229.68	244.58	40.32	2.09
120618-01-194	0.0413	46.8378	0.0358	47.5952	0.0063	8.4706	0.1777	40.35	3.41	35.74	16.72	0.00	1129.00	40.35	3.41
120618-01-358	0.0569	16.6983	0.0497	17.3826	0.0063	4.8014	0.2778	40.67	1.95	49.23	8.35	486.19	368.58	40.67	1.95
120618-01-169	0.0468	6.5834	0.0410	7.5783	0.0063	3.5458	0.4961	40.75	1.44	40.79	3.03	40.80	157.47	40.75	1.44
120618-01-025	0.0514	14.3006	0.0450	14.7046	0.0063	3.4073	0.2328	40.79	1.39	44.68	6.43	256.63	328.66	40.79	1.39
120618-01-110	0.0644	16.4086	0.0566	18.5703	0.0064	8.7070	0.4683	40.95	3.55	55.89	10.10	753.22	346.38	40.95	3.55
120618-01-186	0.0684	15.2869	0.0605	18.3891	0.0064	10.2621	0.5558	41.14	4.21	59.62	10.65	882.07	316.22	41.14	4.21
120618-01-126	0.0574	36.5007	0.0510	37.7830	0.0064	9.8376	0.2583	41.31	4.05	50.48	18.61	508.84	802.54	41.31	4.05
120618-01-115	0.0460	18.9343	0.0409	21.9418	0.0065	11.1015	0.5053	41.46	4.59	40.74	8.76	0.00	456.40	41.46	4.59
120618-01-148	0.0468	12.5945	0.0429	17.5930	0.0066	12.3537	0.6982	42.66	5.25	42.64	7.35	39.20	301.34	42.66	5.25
120618-01-217	0.0509	25.1230	0.0469	27.5747	0.0067	11.3327	0.4122	42.87	4.84	46.54	12.54	237.54	579.40	42.87	4.84
120618-01-174	0.0637	13.0072	0.0703	16.5617	0.0080	10.2304	0.6190	51.37	5.23	69.02	11.05	731.77	275.53	51.37	5.23
120618-01-084	0.0589	23.8474	0.0720	24.8225	0.0088	6.9128	0.2775	56.77	3.91	70.56	16.92	565.02	519.32	56.77	3.91
120618-01-162	0.0460	13.8992	0.0634	16.5032	0.0100	8.9836	0.5392	64.03	5.72	62.38	9.98	0.00	335.03	64.03	5.72
120618-01-237	0.0618	7.5184	0.0885	10.1282	0.0104	6.9226	0.6702	66.57	4.58	86.07	8.36	665.74	160.99	66.57	4.58
120618-01-352	0.0594	15.1037	0.0866	16.8414	0.0106	7.4232	0.4424	67.72	5.00	84.30	13.63	581.43	328.00	67.72	5.00

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
120618-01, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.683670, LONGITUDE: -70.818460 ACCEPTED															
120618-01-279	0.0478	7.3716	0.0825	7.7225	0.0125	2.6663	0.3013	80.23	2.13	80.53	5.98	87.13	174.79	80.23	2.13
120618-01-100	0.0470	5.4897	0.0822	5.9670	0.0127	2.3716	0.3919	81.15	1.91	80.22	4.60	50.28	131.07	81.15	1.91
120618-01-293	0.0513	10.8419	0.0905	11.9968	0.0128	5.2625	0.4282	81.83	4.28	87.96	10.11	255.54	249.22	81.83	4.28
120618-01-149	0.0491	7.1526	0.0884	8.0156	0.0131	3.8489	0.4522	83.60	3.20	86.02	6.61	151.51	167.59	83.60	3.20
120618-01-223	0.0481	4.7233	0.0951	5.7828	0.0143	3.1815	0.5776	91.67	2.90	92.22	5.10	104.34	111.64	91.67	2.90
120618-01-339	0.0547	6.3699	0.1112	7.3729	0.0147	3.4997	0.5044	94.33	3.28	107.07	7.49	398.43	142.75	94.33	3.28
120618-01-322	0.0563	10.7554	0.1158	12.0435	0.0149	5.4273	0.4500	95.35	5.14	111.28	12.69	465.02	238.23	95.35	5.14
120618-01-090	0.0480	8.4458	0.0999	9.9126	0.0151	5.2008	0.5235	96.40	4.98	96.70	9.14	101.71	199.72	96.40	4.98
120618-01-215	0.0507	18.8595	0.1135	20.7641	0.0162	8.6426	0.4184	103.64	8.89	109.13	21.49	228.66	435.66	103.64	8.89
120618-01-083	0.0512	7.3361	0.1413	9.4472	0.0200	5.9799	0.6301	127.66	7.56	134.21	11.88	249.39	168.82	127.66	7.56
120618-01-138	0.0482	5.2040	0.1335	5.7233	0.0201	2.9007	0.4243	128.13	3.68	127.25	6.85	108.66	122.90	128.13	3.68
120618-01-383	0.0572	7.2965	0.1640	7.9932	0.0208	3.3219	0.4084	132.61	4.36	154.20	11.44	498.20	160.72	132.61	4.36
120618-01-054	0.0481	11.3063	0.1481	14.5397	0.0223	9.1424	0.6287	142.30	12.87	140.25	19.05	103.37	267.28	142.30	12.87
120618-01-231	0.0531	5.5089	0.1649	6.9174	0.0225	4.2813	0.6050	143.47	6.07	154.95	9.94	332.31	124.91	143.47	6.07
120618-01-360	0.0497	8.9506	0.1549	10.1628	0.0226	4.7748	0.4736	143.99	6.80	146.26	13.84	180.87	208.58	143.99	6.80
120618-01-065	0.0494	7.3089	0.1555	8.9491	0.0228	5.1441	0.5770	145.25	7.39	146.76	12.23	168.89	170.70	145.25	7.39
120618-01-218	0.0549	20.4172	0.1737	21.0128	0.0229	4.8888	0.2364	146.13	7.06	162.59	31.58	407.49	456.81	146.13	7.06
120618-01-323	0.0507	11.5108	0.1631	15.9340	0.0233	11.0219	0.6915	148.55	16.19	153.44	22.70	227.45	265.96	148.55	16.19
120618-01-213	0.0521	7.0329	0.1682	8.8444	0.0234	5.3603	0.6064	149.06	7.90	157.88	12.93	290.34	160.65	149.06	7.90
120618-01-363	0.0538	6.5825	0.1766	9.0787	0.0238	6.2228	0.6887	151.47	9.32	165.12	13.84	363.40	148.43	151.47	9.32
120618-01-092	0.0529	21.8398	0.1842	22.5185	0.0252	5.4978	0.2437	160.66	8.72	171.66	35.58	323.95	495.85	160.66	8.72
120618-01-188	0.0535	3.8619	0.2079	4.9835	0.0281	3.2808	0.6326	178.91	5.79	191.77	8.71	351.16	87.27	178.91	5.79
120618-01-118	0.0523	3.3835	0.2082	3.8768	0.0288	1.9723	0.4886	183.32	3.56	192.05	6.78	298.64	77.17	183.32	3.56
120618-01-019	0.0528	7.2078	0.2110	8.2083	0.0290	3.6569	0.4797	184.13	6.64	194.43	14.53	319.20	163.79	184.13	6.64
120618-01-144	0.0588	2.3675	0.2678	3.3133	0.0330	2.5285	0.7022	209.37	5.21	240.90	7.11	558.64	51.61	209.37	5.21
120618-01-107	0.0595	9.1692	0.2726	9.7212	0.0332	3.2982	0.3323	210.48	6.83	244.74	21.14	585.56	198.98	210.48	6.83
120618-01-232	0.0541	4.7151	0.2648	5.3957	0.0354	2.7762	0.4869	224.46	6.12	238.51	11.47	377.16	106.06	224.46	6.12
120618-01-109	0.0608	12.2747	0.3013	13.6576	0.0359	6.0261	0.4385	227.44	13.47	267.40	32.12	631.72	264.32	227.44	13.47
120618-01-290	0.0508	5.4765	0.2582	6.9621	0.0368	4.4490	0.6178	233.24	10.19	233.21	14.51	230.79	126.46	233.24	10.19
120618-01-285	0.0575	5.0858	0.2947	5.8389	0.0372	3.2238	0.4946	235.22	7.45	262.23	13.49	509.02	111.82	235.22	7.45
120618-01-256	0.0512	12.5686	0.2655	17.8963	0.0376	12.8372	0.7119	237.80	29.97	239.11	38.15	249.91	289.21	237.80	29.97
120618-01-189	0.0501	4.0095	0.2673	4.3337	0.0387	1.8834	0.3830	244.77	4.52	240.57	9.28	197.57	93.15	244.77	4.52
120618-01-132	0.0507	4.8472	0.2821	6.2994	0.0403	4.2010	0.6393	254.62	10.49	252.33	14.08	228.89	111.97	254.62	10.49
120618-01-303	0.0530	4.7024	0.3012	5.2036	0.0412	2.4618	0.4303	260.34	6.28	267.36	12.23	327.16	106.73	260.34	6.28
120618-01-068	0.0526	7.5897	0.3047	9.4545	0.0420	5.6198	0.5963	264.93	14.59	270.05	22.42	312.51	172.67	264.93	14.59
120618-01-315	0.0608	2.8903	0.3556	3.5502	0.0424	2.1351	0.5810	267.41	5.59	308.89	9.46	633.05	62.23	267.41	5.59
120618-01-204	0.0532	5.2506	0.3245	6.1801	0.0442	3.2353	0.5274	278.77	8.83	285.39	15.38	337.92	118.94	278.77	8.83
120618-01-236	0.0545	7.7097	0.3378	8.9433	0.0449	4.7339	0.5073	283.25	13.12	295.54	22.94	391.75	172.98	283.25	13.12
120618-01-015	0.0537	8.7107	0.3375	12.0572	0.0455	8.2127	0.6915	287.07	23.06	295.27	30.90	358.40	196.60	287.07	23.06
120618-01-206	0.0521	4.4511	0.3328	5.6312	0.0463	3.4150	0.6126	291.90	9.75	291.68	14.28	287.88	101.72	291.90	9.75
120618-01-240	0.0532	4.1850	0.3972	5.0306	0.0541	3.0038	0.5564	339.57	9.94	339.61	14.52	337.78	94.80	339.57	9.94
120618-01-280	0.0535	4.6474	0.4064	6.0373	0.0550	4.0179	0.6389	345.19	13.50	346.28	17.72	351.45	105.02	345.19	13.50
120618-01-182	0.0547	5.4011	0.4201	6.9656	0.0557	4.3326	0.6315	349.45	14.74	356.15	20.93	398.00	121.05	349.45	14.74
120618-01-330	0.0549	4.6102	0.4239	6.2093	0.0560	4.0826	0.6700	351.20	13.95	358.84	18.77	406.29	103.17	351.20	13.95
120618-01-005	0.0544	3.9895	0.4329	5.3742	0.0576	3.5844	0.6700	361.25	12.59	365.25	16.49	388.50	89.56	361.25	12.59
120618-01-219	0.0547	3.6649	0.4602	5.0892	0.0610	3.4198	0.6942	381.70	12.67	384.39	16.29	398.60	82.13	381.70	12.67
120618-01-008	0.0731	12.6007	0.6320	17.8488	0.0626	12.6366	0.7082	391.56	48.01	497.35	70.30	1017.42	255.27	391.56	48.01
120618-01-394	0.0538	3.1748	0.4677	3.9855	0.0629	2.5561	0.6056	393.51	9.76	389.62	12.90	364.48	71.58	393.51	9.76
120618-01-329	0.0554	14.4898	0.4815	20.5918	0.0630	14.6342	0.7105	393.71	55.89	399.08	68.05	428.14	323.02	393.71	55.89
120618-01-152	0.0556	5.6497	0.4833	6.5180	0.0630	3.5058	0.5001	394.05	13.40	400.36	21.57	434.83	125.80	394.05	13.40

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
120618-01, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.683670, LONGITUDE: -70.818460 ACCEPTED															
120618-01-060	0.0545	7.0512	0.4953	9.3727	0.0659	6.1624	0.6588	411.20	24.55	408.48	31.53	391.00	158.22	411.20	24.55
120618-01-170	0.0564	6.5499	0.5339	10.3623	0.0686	8.0023	0.7749	427.46	33.10	434.37	36.64	469.17	144.97	427.46	33.10
120618-01-233	0.0613	4.0758	0.5828	5.3924	0.0689	3.6458	0.6551	429.53	15.15	466.27	20.16	649.54	87.51	429.53	15.15
120618-01-246	0.0562	14.1491	0.5394	20.0420	0.0696	14.2576	0.7082	433.74	59.81	438.04	71.43	458.69	313.74	433.74	59.81
120618-01-057	0.0621	29.4698	0.6243	30.4371	0.0728	7.5954	0.2501	452.94	33.22	492.53	119.33	679.04	629.65	452.94	33.22
120618-01-029	0.0604	4.6390	0.6191	5.2329	0.0743	2.3986	0.4627	461.80	10.69	489.27	20.32	618.00	100.12	461.80	10.69
120618-01-035	0.0768	5.6512	0.7927	7.8063	0.0748	5.4059	0.6899	465.10	24.26	592.70	35.06	1115.22	112.79	465.10	24.26
120618-01-368	0.0587	5.9321	0.6078	7.8447	0.0750	5.1036	0.6544	466.38	22.96	482.15	30.12	555.69	129.39	466.38	22.96
120618-01-076	0.0653	6.8128	0.6788	7.3908	0.0753	2.8966	0.3877	468.20	13.08	526.05	30.35	783.69	143.12	468.20	13.08
120618-01-396	0.0559	8.4013	0.5839	11.8929	0.0757	8.4609	0.7078	470.61	38.40	466.98	44.55	447.10	186.66	470.61	38.40
120618-01-379	0.0593	6.1357	0.6204	7.9733	0.0758	5.1293	0.6386	471.07	23.30	490.12	31.01	578.05	133.32	471.07	23.30
120618-01-071	0.0612	4.9606	0.6456	5.6112	0.0764	2.6069	0.4674	474.64	11.93	505.80	22.36	647.19	106.55	474.64	11.93
120618-01-365	0.0575	5.5265	0.6110	7.7929	0.0770	5.4666	0.7050	478.15	25.19	484.21	30.02	510.84	121.47	478.15	25.19
120618-01-313	0.0558	10.5708	0.5936	12.1078	0.0771	5.9227	0.4876	478.73	27.33	473.14	45.82	444.00	235.00	478.73	27.33
120618-01-137	0.0617	8.1348	0.6624	12.7522	0.0778	9.9590	0.7702	482.72	46.32	516.06	51.64	664.56	174.22	482.72	46.32
120618-01-296	0.0577	12.6222	0.6217	17.4931	0.0781	12.1703	0.6924	484.92	56.85	490.89	68.19	516.73	277.15	484.92	56.85
120618-01-023	0.0591	3.5535	0.6398	4.4584	0.0785	2.4275	0.6072	487.01	11.39	502.18	17.66	569.83	77.32	487.01	11.39
120618-01-355	0.0601	5.2216	0.6556	7.1604	0.0791	4.8721	0.6843	490.65	23.02	511.92	28.80	605.92	112.93	490.65	23.02
120618-01-013	0.0625	4.8827	0.6825	6.2927	0.0791	3.9656	0.6308	490.65	18.74	528.27	25.92	692.27	104.10	490.65	18.74
120618-01-208	0.0573	5.9684	0.6321	7.2813	0.0799	4.1424	0.5728	495.33	19.75	497.39	28.64	504.87	131.32	495.33	19.75
120618-01-017	0.0603	12.4036	0.6691	14.8912	0.0804	8.1147	0.5534	498.42	38.92	520.18	60.69	614.82	267.85	498.42	38.92
120618-01-033	0.0571	2.3051	0.6338	3.1923	0.0804	2.2112	0.6918	498.63	10.61	498.48	12.58	495.67	50.80	498.63	10.61
120618-01-097	0.0719	8.5698	0.8020	11.4609	0.0808	7.6137	0.6640	501.04	36.70	597.94	51.84	982.97	174.50	501.04	36.70
120618-01-199	0.0579	4.9076	0.6511	6.6413	0.0815	4.5005	0.6738	505.16	21.87	509.16	26.60	525.14	107.60	505.16	21.87
120618-01-168	0.0753	3.0131	0.8476	9.6251	0.0815	9.0580	0.9498	505.33	44.03	623.35	44.87	1077.07	60.48	505.33	44.03
120618-01-042	0.0603	7.8934	0.6783	9.4736	0.0816	5.2546	0.5530	505.50	25.55	525.77	38.90	612.70	170.52	505.50	25.55
120618-01-349	0.0598	2.8069	0.6796	3.9308	0.0823	2.6252	0.7008	509.66	12.86	526.51	16.15	598.12	60.78	509.66	12.86
120618-01-212	0.0581	6.2565	0.6653	8.7669	0.0830	6.1388	0.7005	514.02	30.33	517.88	35.58	532.96	136.99	514.02	30.33
120618-01-334	0.0606	4.1740	0.6995	5.3741	0.0837	3.1499	0.6315	517.99	15.68	538.47	22.46	624.01	90.00	517.99	15.68
120618-01-197	0.0651	8.5835	0.7520	11.3596	0.0837	7.4563	0.6550	518.06	37.12	569.38	49.55	778.10	180.47	518.06	37.12
120618-01-020	0.0583	4.3775	0.6738	5.3854	0.0837	2.9128	0.5841	518.09	14.50	523.04	22.02	542.58	95.69	518.09	14.50
120618-01-022	0.0594	10.0001	0.6869	14.2200	0.0838	10.0425	0.7110	518.49	50.03	530.96	58.86	582.79	217.12	518.49	50.03
120618-01-069	0.0755	7.1862	0.8813	9.7735	0.0846	6.6088	0.6778	523.48	33.23	641.69	46.52	1081.53	144.15	523.48	33.23
120618-01-289	0.0459	55.2018	0.5371	56.1708	0.0847	10.4922	0.1850	524.34	52.84	436.49	201.90	0.00	1330.61	524.34	52.84
120618-01-241	0.0582	2.9568	0.6876	3.3594	0.0855	1.9428	0.4840	529.12	9.87	531.34	13.90	538.86	64.68	529.12	9.87
120618-01-117	0.0597	3.6642	0.7078	5.1604	0.0859	3.6758	0.7042	531.26	18.74	543.44	21.72	592.80	79.42	531.26	18.74
120618-01-318	0.0582	4.4019	0.6898	4.9027	0.0859	2.2288	0.4405	531.50	11.37	532.68	20.32	535.61	96.34	531.50	11.37
120618-01-021	0.0604	5.1047	0.7177	6.9962	0.0861	4.6403	0.6841	532.55	23.72	549.29	29.69	617.26	110.19	532.55	23.72
120618-01-176	0.0592	4.9035	0.7128	5.8746	0.0873	3.1448	0.5509	539.26	16.27	546.40	24.83	574.27	106.62	539.26	16.27
120618-01-277	0.0577	6.2247	0.6963	8.4681	0.0874	5.8969	0.6782	540.21	30.56	536.60	35.31	519.19	136.62	540.21	30.56
120618-01-102	0.0593	4.7727	0.7289	6.1864	0.0891	3.9559	0.6363	550.28	20.87	555.91	26.49	576.91	103.73	550.28	20.87
120618-01-310	0.0607	4.5776	0.7470	6.1503	0.0892	4.1342	0.6679	550.85	21.83	566.47	26.71	627.57	98.64	550.85	21.83
120618-01-356	0.0598	2.1305	0.7398	2.8983	0.0896	1.8950	0.6784	553.06	10.04	562.27	12.51	597.53	46.14	553.06	10.04
120618-01-382	0.0584	2.8381	0.7230	3.8457	0.0897	2.6679	0.6751	553.87	14.16	552.41	16.39	544.28	62.02	553.87	14.16
120618-01-073	0.0631	2.8849	0.7831	3.6327	0.0899	2.1892	0.6077	555.06	11.64	587.24	16.20	711.65	61.31	555.06	11.64
120618-01-179	0.0644	7.7601	0.8015	11.1873	0.0902	8.0225	0.7203	556.55	42.78	597.67	50.58	755.04	163.76	556.55	42.78
120618-01-225	0.0612	3.4667	0.7637	4.5926	0.0904	2.8400	0.6570	557.74	15.17	576.12	20.19	647.36	74.46	557.74	15.17
120618-01-269	0.0631	5.0128	0.7883	9.6603	0.0905	8.3885	0.8549	558.25	44.86	590.23	43.27	713.21	106.50	558.25	44.86
120618-01-166	0.0589	7.5340	0.7410	10.5814	0.0912	7.3272	0.7022	562.62	39.48	563.01	45.76	562.56	164.14	562.62	39.48
120618-01-059	0.0665	8.0132	0.8472	11.2618	0.0924	7.8968	0.7027	569.49	43.04	623.09	52.49	820.88	167.34	569.49	43.04

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
120618-01, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.683670, LONGITUDE: -70.818460 ACCEPTED															
120618-01-048	0.0645	9.0063	0.8286	10.7208	0.0931	5.8502	0.5425	574.00	32.13	612.83	49.37	757.05	190.00	574.00	32.13
120618-01-327	0.0593	4.5715	0.7629	6.0997	0.0931	4.0499	0.6621	574.11	22.25	575.68	26.81	579.73	99.30	574.11	22.25
120618-01-230	0.0588	9.7319	0.7563	13.9364	0.0932	10.0170	0.7158	574.45	55.06	571.90	61.01	559.80	212.12	574.45	55.06
120618-01-070	0.0604	6.5519	0.7789	8.3677	0.0934	5.1972	0.6220	575.48	28.61	584.86	37.22	619.37	141.38	575.48	28.61
120618-01-178	0.0601	7.8859	0.7788	10.9210	0.0939	7.5171	0.6918	578.45	41.59	584.77	48.59	607.41	170.50	578.45	41.59
120618-01-228	0.0597	3.2944	0.7746	4.7572	0.0940	3.2818	0.7221	579.27	18.18	582.37	21.09	592.51	71.41	579.27	18.18
120618-01-128	0.0597	8.3971	0.7778	11.9935	0.0944	8.6518	0.7140	581.52	48.11	584.24	53.33	592.78	182.01	581.52	48.11
120618-01-268	0.0946	12.2910	1.2370	15.8098	0.0947	10.0527	0.6290	583.29	56.06	817.54	89.00	1521.09	231.75	583.29	56.06
120618-01-036	0.0584	3.1736	0.7661	4.2343	0.0950	2.8424	0.6621	585.02	15.90	577.54	18.65	546.12	69.33	585.02	15.90
120618-01-387	0.0602	8.7884	0.7960	11.8752	0.0958	8.0174	0.6725	589.58	45.17	594.56	53.49	611.56	189.89	589.58	45.17
120618-01-229	0.0605	3.8727	0.7996	5.5691	0.0958	3.8741	0.7190	589.96	21.84	596.62	25.13	620.05	83.56	589.96	21.84
120618-01-134	0.0597	8.6562	0.7894	12.0006	0.0959	8.4749	0.6927	590.09	47.79	590.81	53.80	591.52	187.66	590.09	47.79
120618-01-088	0.0613	7.7312	0.8138	10.6465	0.0962	7.3575	0.6875	592.15	41.63	604.56	48.54	649.28	166.00	592.15	41.63
120618-01-281	0.0616	9.9875	0.8187	14.5031	0.0963	10.5774	0.7251	592.77	59.91	607.32	66.38	659.96	214.06	592.77	59.91
120618-01-354	0.0611	3.6192	0.8161	5.1657	0.0968	3.6303	0.7136	595.83	20.66	605.86	23.57	641.41	77.81	595.83	20.66
120618-01-154	0.0612	3.3730	0.8197	3.6406	0.0970	2.1657	0.4165	596.85	12.35	607.89	16.65	647.25	72.45	596.85	12.35
120618-01-227	0.0623	8.6226	0.8362	13.1747	0.0972	9.9103	0.7561	598.18	56.62	617.04	60.99	684.94	184.05	598.18	56.62
120618-01-247	0.0606	4.4959	0.8190	5.5075	0.0979	3.4516	0.5795	602.04	19.84	607.47	25.18	625.77	96.91	602.04	19.84
120618-01-075	0.0627	3.9047	0.8503	5.4927	0.0982	3.8863	0.7033	603.81	22.40	624.79	25.63	699.43	83.15	603.81	22.40
120618-01-380	0.0602	7.0449	0.8277	9.9721	0.0997	7.0848	0.7078	612.57	41.40	612.32	45.89	609.31	152.27	612.57	41.40
120618-01-077	0.0613	3.7415	0.8450	4.9666	0.0998	3.2936	0.6577	613.35	19.27	621.93	23.10	651.16	80.31	613.35	19.27
120618-01-336	0.0604	2.9889	0.8342	4.0242	0.1001	2.3924	0.6743	615.04	14.03	615.96	18.59	617.23	64.52	615.04	14.03
120618-01-214	0.0606	2.6456	0.8390	3.7202	0.1003	2.4632	0.7043	616.04	14.47	618.61	17.24	626.06	57.02	616.04	14.47
120618-01-158	0.0622	3.5162	0.8638	4.0310	0.1006	2.5881	0.5072	617.86	15.25	632.19	18.97	681.77	75.09	617.86	15.25
120618-01-139	0.0619	3.9983	0.8594	5.2850	0.1006	3.8320	0.6574	618.18	22.59	629.78	24.81	669.61	85.56	618.18	22.59
120618-01-366	0.0595	3.8467	0.8287	5.5837	0.1008	4.0098	0.7249	619.36	23.68	612.90	25.70	586.96	83.46	619.36	23.68
120618-01-043	0.0646	2.5798	0.9037	3.3883	0.1014	2.2344	0.6484	622.65	13.26	653.68	16.33	760.31	54.40	622.65	13.26
120618-01-103	0.0601	6.8284	0.8454	9.5747	0.1020	6.7235	0.7010	626.15	40.12	622.14	44.57	605.47	147.69	626.15	40.12
120618-01-321	0.0605	3.5345	0.8542	5.2110	0.1022	3.8406	0.7348	627.45	22.96	626.97	24.38	623.12	76.22	627.45	22.96
120618-01-361	0.0608	6.2818	0.8592	8.5465	0.1024	5.7630	0.6781	628.67	34.52	629.68	40.12	631.17	135.28	628.67	34.52
120618-01-142	0.0609	9.8670	0.8648	14.3729	0.1029	10.4997	0.7271	631.23	63.14	632.73	67.78	636.06	212.32	631.23	63.14
120618-01-027	0.0620	7.0375	0.8816	10.1639	0.1029	7.3259	0.7215	631.65	44.08	641.83	48.39	675.76	150.44	631.65	44.08
120618-01-143	0.0615	3.5143	0.8811	4.7285	0.1038	3.3210	0.6698	636.36	20.12	641.60	22.49	658.09	75.35	636.36	20.12
120618-01-037	0.0640	3.6748	0.9185	4.8567	0.1039	3.2102	0.6539	637.42	19.48	661.59	23.61	742.80	77.70	637.42	19.48
120618-01-271	0.0605	4.7350	0.8790	5.8581	0.1053	3.6191	0.5895	645.11	22.22	640.43	27.83	621.92	102.13	645.11	22.22
120618-01-216	0.0615	2.4354	0.8966	3.2367	0.1056	1.9423	0.6615	647.37	11.96	649.90	15.54	656.76	52.23	647.37	11.96
120618-01-171	0.0629	3.6251	0.9186	5.3070	0.1058	3.8188	0.7304	648.37	23.56	661.62	25.81	705.08	77.12	648.37	23.56
120618-01-061	0.0613	5.3810	0.9062	6.1719	0.1071	2.9974	0.4898	655.96	18.69	655.02	29.80	649.69	115.53	655.96	18.69
120618-01-397	0.0631	3.4719	0.9337	4.3762	0.1072	2.7975	0.6095	656.74	17.47	669.57	21.46	711.03	73.79	656.74	17.47
120618-01-359	0.0620	1.9157	0.9263	2.7575	0.1082	1.9142	0.7197	662.19	12.05	665.68	13.46	675.38	40.96	662.19	12.05
120618-01-105	0.0623	3.4470	0.9347	4.5100	0.1086	2.9847	0.6451	664.88	18.86	670.12	22.13	685.75	73.57	664.88	18.86
120618-01-386	0.0624	2.9999	0.9397	3.5841	0.1091	2.0832	0.5482	667.65	13.21	672.74	17.63	687.77	64.00	667.65	13.21
120618-01-146	0.0617	4.6497	0.9335	6.8281	0.1096	5.1699	0.7327	670.58	32.93	669.48	33.49	663.76	99.60	670.58	32.93
120618-01-006	0.0618	3.3969	0.9493	5.0267	0.1114	3.6893	0.7371	680.69	23.83	677.72	24.86	665.77	72.74	680.69	23.83
120618-01-305	0.0667	5.3849	1.0298	6.5373	0.1118	3.7529	0.5670	683.37	24.33	718.80	33.69	829.03	112.31	683.37	24.33
120618-01-052	0.0634	6.4955	0.9792	8.9074	0.1119	6.0962	0.6843	683.89	39.56	693.19	44.78	721.42	137.82	683.89	39.56
120618-01-012	0.0631	6.9492	0.9773	9.3228	0.1123	6.2169	0.6666	686.04	40.46	692.20	46.82	710.23	147.72	686.04	40.46
120618-01-291	0.0631	2.7441	0.9833	3.7345	0.1130	2.7806	0.6812	690.06	18.20	695.31	18.80	710.31	58.33	690.06	18.20
120618-01-196	0.0620	3.4712	0.9721	3.9071	0.1137	1.8570	0.4593	694.09	12.22	689.54	19.56	672.75	74.24	694.09	12.22
120618-01-172	0.0621	2.4397	0.9923	2.9841	0.1158	1.5854	0.5777	706.52	10.61	699.90	15.09	676.71	52.15	706.52	10.61

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
120618-01, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.683670, LONGITUDE: -70.818460 ACCEPTED															
120618-01-266	0.0675	9.1809	1.1322	11.9586	0.1216	7.8033	0.6409	739.70	54.53	768.82	64.56	852.47	190.78	739.70	54.53
120618-01-357	0.0638	4.8250	1.0989	6.9590	0.1248	4.9877	0.7206	757.91	35.66	752.83	37.01	735.66	102.14	757.91	35.66
120618-01-304	0.0694	2.7004	1.2104	3.5715	0.1263	2.4101	0.6548	766.75	17.42	805.39	19.86	911.80	55.60	766.75	17.42
120618-01-353	0.0677	7.8063	1.2260	8.8499	0.1312	4.1202	0.4711	794.68	30.80	812.52	49.53	859.63	162.04	794.68	30.80
120618-01-250	0.0698	2.6658	1.2637	3.3971	0.1312	2.4865	0.6284	794.88	18.59	829.59	19.26	921.85	54.79	794.88	18.59
120618-01-307	0.0668	2.6646	1.2495	3.3269	0.1356	2.0767	0.5993	819.71	15.99	823.16	18.77	830.48	55.56	830.48	55.56
120618-01-319	0.0679	3.3266	1.2618	4.0993	0.1346	2.4590	0.5846	814.28	18.81	828.71	23.22	865.58	68.99	865.58	68.99
120618-01-124	0.0693	8.6821	1.3862	10.0120	0.1450	5.1364	0.4982	872.68	41.92	883.07	59.12	907.25	178.90	907.25	178.90
120618-01-116	0.0705	6.3915	1.3633	8.1142	0.1401	5.0296	0.6161	845.04	39.83	873.30	47.56	943.70	130.94	943.70	130.94
120618-01-010	0.0707	5.6408	1.4676	7.7548	0.1504	5.3253	0.6862	903.09	44.88	917.16	46.87	949.18	115.47	949.18	115.47
120618-01-235	0.0707	3.9274	1.6108	4.5543	0.1650	2.6805	0.5121	984.46	24.47	974.41	28.54	949.95	80.38	949.95	80.38
120618-01-351	0.0712	5.1193	1.5503	7.3167	0.1577	5.1884	0.7145	944.26	45.57	950.62	45.19	963.32	104.57	963.32	104.57
120618-01-136	0.0713	3.6728	1.4531	4.2380	0.1477	2.6852	0.5133	887.97	22.27	911.16	25.50	965.83	74.99	965.83	74.99
120618-01-264	0.0720	3.3649	1.6109	4.3928	0.1621	3.1754	0.6473	968.52	28.56	974.46	27.53	986.00	68.48	986.00	68.48
120618-01-187	0.0723	3.9105	1.6418	5.5772	0.1645	4.0812	0.7133	981.53	37.16	986.42	35.21	995.45	79.48	995.45	79.48
120618-01-278	0.0725	6.3760	1.6007	8.4308	0.1601	5.6778	0.6545	957.08	50.50	970.50	52.74	999.11	129.52	999.11	129.52
120618-01-078	0.0727	3.5350	1.5410	4.5183	0.1537	2.8460	0.6229	921.50	24.44	946.89	27.83	1004.43	71.75	1004.43	71.75
120618-01-193	0.0727	5.4144	1.6932	7.9088	0.1688	5.7849	0.7289	1005.34	53.85	1005.95	50.53	1005.44	109.88	1005.44	109.88
120618-01-051	0.0727	2.7058	1.6695	3.9746	0.1664	2.9136	0.7325	992.00	26.79	997.01	25.24	1006.08	54.91	1006.08	54.91
120618-01-308	0.0728	6.4265	1.5363	8.8846	0.1529	6.1629	0.6905	917.07	52.68	945.01	54.70	1008.72	130.36	1008.72	130.36
120618-01-198	0.0728	5.6267	1.6509	7.7774	0.1643	5.3908	0.6904	980.38	49.03	989.91	49.22	1009.25	114.12	1009.25	114.12
120618-01-337	0.0729	11.7085	1.3700	12.9538	0.1363	5.4014	0.4280	823.45	41.75	876.16	76.17	1009.82	237.46	1009.82	237.46
120618-01-018	0.0729	7.7297	1.4031	11.0699	0.1394	7.7938	0.7159	841.10	61.46	890.24	65.72	1012.42	156.70	1012.42	156.70
120618-01-112	0.0733	4.5099	1.7157	6.1959	0.1697	4.2718	0.6857	1010.36	39.95	1014.41	39.77	1021.21	91.31	1021.21	91.31
120618-01-381	0.0733	2.4606	1.7298	3.2745	0.1710	2.2473	0.6603	1017.49	21.15	1019.66	21.07	1022.36	49.81	1022.36	49.81
120618-01-398	0.0733	3.4945	1.8234	4.8280	0.1802	3.4390	0.6904	1068.03	33.85	1053.92	31.67	1022.93	70.74	1022.93	70.74
120618-01-399	0.0734	5.4355	1.7556	7.2341	0.1732	4.8493	0.6600	1029.68	46.15	1029.22	46.83	1026.39	109.97	1026.39	109.97
120618-01-009	0.0735	6.8689	1.6271	9.4664	0.1605	6.5048	0.6881	959.37	57.99	980.73	59.60	1026.92	138.96	1026.92	138.96
120618-01-131	0.0735	2.6590	1.4282	3.3651	0.1408	2.3908	0.6196	849.08	19.02	900.80	20.10	1027.97	53.78	1027.97	53.78
120618-01-184	0.0737	3.9606	1.7332	5.1171	0.1703	3.3676	0.6337	1014.00	31.60	1020.95	32.96	1034.02	80.02	1034.02	80.02
120618-01-074	0.0738	4.1052	1.7450	5.7653	0.1713	4.0701	0.7021	1019.16	38.37	1025.31	37.23	1036.52	82.91	1036.52	82.91
120618-01-064	0.0739	2.6785	1.6829	3.5995	0.1651	2.3619	0.6681	984.79	21.57	1002.06	22.93	1038.10	54.08	1038.10	54.08
120618-01-284	0.0740	3.3603	1.6500	3.8238	0.1616	2.3442	0.4923	965.54	21.02	989.56	24.18	1041.33	67.82	1041.33	67.82
120618-01-114	0.0740	3.5908	1.6628	4.7134	0.1628	3.0857	0.6478	972.31	27.85	994.46	29.89	1041.71	72.46	1041.71	72.46
120618-01-350	0.0742	2.2102	1.8467	3.3697	0.1804	2.4623	0.7552	1069.30	24.26	1062.24	22.20	1045.76	44.57	1045.76	44.57
120618-01-273	0.0742	3.6292	1.7955	4.5956	0.1753	3.0247	0.6150	1041.03	29.08	1043.83	29.98	1047.82	73.17	1047.82	73.17
120618-01-335	0.0744	7.4288	1.7364	10.5093	0.1691	7.3295	0.7074	1007.06	68.34	1022.12	67.81	1052.49	149.67	1052.49	149.67
120618-01-341	0.0744	4.4876	1.5263	5.5732	0.1486	3.1363	0.5938	892.87	26.15	941.02	34.20	1053.47	90.40	1053.47	90.40
120618-01-316	0.0745	9.8425	1.5651	11.2419	0.1522	5.4603	0.4832	913.51	46.51	956.49	69.76	1054.74	198.23	1054.74	198.23
120618-01-299	0.0745	4.8020	1.5662	6.7321	0.1523	4.8673	0.7012	914.12	41.48	956.93	41.74	1054.76	96.71	1054.76	96.71
120618-01-028	0.0745	5.4310	1.6647	7.2868	0.1618	4.8470	0.6667	966.80	43.52	995.17	46.25	1056.29	109.36	1056.29	109.36
120618-01-007	0.0746	12.2426	1.7666	16.9645	0.1715	11.7386	0.6922	1020.52	110.81	1033.26	110.43	1058.39	246.44	1058.39	246.44
120618-01-127	0.0746	4.2208	1.5942	5.6627	0.1548	3.9715	0.6675	927.61	34.31	967.94	35.35	1058.74	84.96	1058.74	84.96
120618-01-400	0.0747	2.7721	1.8530	3.5799	0.1798	2.4207	0.6342	1065.65	23.78	1064.49	23.61	1060.28	55.79	1060.28	55.79
120618-01-292	0.0749	2.4835	1.7449	3.1967	0.1689	2.3166	0.6359	1005.92	21.58	1025.27	20.64	1064.91	49.94	1064.91	49.94
120618-01-265	0.0750	8.4950	1.7418	11.7689	0.1684	8.2774	0.6922	1003.04	76.89	1024.12	76.06	1067.58	170.77	1067.58	170.77
120618-01-388	0.0750	4.6681	1.8733	5.7831	0.1809	3.4852	0.5904	1071.97	34.42	1071.70	38.30	1069.22	93.81	1069.22	93.81
120618-01-272	0.0751	9.0706	1.8033	13.3658	0.1741	9.8777	0.7345	1034.41	94.41	1046.67	87.52	1070.48	182.26	1070.48	182.26
120618-01-039	0.0751	3.5961	1.7050	4.5827	0.1645	2.8794	0.6199	981.80	26.22	1010.42	29.34	1071.05	72.25	1071.05	72.25
120618-01-125	0.0754	2.6032	1.6954	3.5645	0.1630	2.7295	0.6876	973.44	24.66	1006.81	22.77	1078.27	52.24	1078.27	52.24

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
120618-01, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.683670, LONGITUDE: -70.818460 ACCEPTED															
120618-01-091	0.0758	4.2669	1.8296	5.8379	0.1748	3.9992	0.6825	1038.55	38.36	1056.14	38.35	1090.76	85.48	1090.76	85.48
120618-01-063	0.0759	6.1835	1.7069	8.4417	0.1629	5.7336	0.6808	973.05	51.79	1011.12	54.10	1092.62	123.83	1092.62	123.83
120618-01-089	0.0761	12.0683	1.7377	17.4459	0.1655	12.6203	0.7221	987.44	115.56	1022.62	112.90	1096.75	241.54	1096.75	241.54
120618-01-056	0.0762	4.0912	1.7645	5.9382	0.1678	4.2740	0.7248	1000.21	39.60	1032.50	38.50	1099.60	81.85	1099.60	81.85
120618-01-331	0.0762	3.5771	1.9009	5.6468	0.1807	4.2962	0.7739	1070.95	42.39	1081.40	37.59	1100.52	71.55	1100.52	71.55
120618-01-300	0.0763	2.7265	1.5731	3.5750	0.1495	2.5383	0.6496	898.09	21.28	959.67	22.20	1101.67	54.53	1101.67	54.53
120618-01-207	0.0766	3.6057	1.8561	4.6930	0.1756	2.9643	0.6401	1043.06	28.55	1065.61	30.98	1110.24	72.02	1110.24	72.02
120618-01-085	0.0767	2.9598	1.6101	4.1186	0.1521	2.9595	0.6957	912.75	25.19	974.14	25.80	1113.34	59.09	1113.34	59.09
120618-01-325	0.0767	14.6402	1.7197	20.7036	0.1624	14.6422	0.7071	970.00	131.88	1015.91	133.69	1114.26	292.25	1114.26	292.25
120618-01-395	0.0768	9.0551	1.9810	13.0140	0.1870	9.3860	0.7182	1104.86	95.31	1109.05	88.03	1115.43	180.73	1115.43	180.73
120618-01-242	0.0770	3.4112	1.8569	4.1350	0.1746	2.5872	0.5681	1037.65	24.80	1065.88	27.30	1122.29	68.01	1122.29	68.01
120618-01-209	0.0771	4.0883	1.7826	6.1666	0.1676	4.5910	0.7487	998.97	42.49	1039.14	40.13	1122.82	81.51	1122.82	81.51
120618-01-320	0.0773	11.6884	1.8930	17.0879	0.1775	12.4686	0.7295	1053.47	121.20	1078.64	114.01	1127.92	232.85	1127.92	232.85
120618-01-393	0.0774	5.7789	2.1117	8.1345	0.1976	5.7679	0.7038	1162.47	61.35	1152.64	56.11	1132.32	115.05	1132.32	115.05
120618-01-121	0.0775	4.3801	1.6960	5.8340	0.1585	4.0363	0.6613	948.39	35.60	1007.01	37.28	1134.96	87.17	1134.96	87.17
120618-01-147	0.0779	6.1951	2.1400	8.4849	0.1991	5.9447	0.6835	1170.49	63.63	1161.82	58.78	1143.82	123.13	1143.82	123.13
120618-01-038	0.0780	4.7034	1.9052	6.6210	0.1770	4.6836	0.7038	1050.61	45.41	1082.92	44.12	1146.61	93.44	1146.61	93.44
120618-01-384	0.0781	3.5796	1.8873	5.1170	0.1751	3.7085	0.7147	1039.95	35.62	1076.62	33.97	1149.71	71.08	1149.71	71.08
120618-01-032	0.0783	5.4580	2.0072	6.9795	0.1858	4.3514	0.6233	1098.40	43.95	1117.95	47.34	1154.24	108.31	1154.24	108.31
120618-01-053	0.0787	12.2339	2.1262	18.9451	0.1958	14.4659	0.7635	1152.86	152.74	1157.36	131.56	1163.87	242.43	1163.87	242.43
120618-01-093	0.0787	2.3497	2.2068	3.4368	0.2031	2.5319	0.7298	1191.97	27.55	1183.20	24.02	1165.29	46.55	1165.29	46.55
120618-01-111	0.0793	2.9196	2.2236	3.9824	0.2033	2.7448	0.6801	1192.96	29.89	1188.51	27.90	1178.51	57.73	1178.51	57.73
120618-01-177	0.0795	8.5252	2.0733	13.5784	0.1891	10.5412	0.7783	1116.29	108.06	1140.04	93.27	1183.69	168.45	1183.69	168.45
120618-01-185	0.0795	3.1657	2.0625	4.2415	0.1879	2.9685	0.6664	1110.02	30.27	1136.44	29.01	1185.43	62.54	1185.43	62.54
120618-01-301	0.0795	6.5491	2.1356	9.0990	0.1945	6.4030	0.6943	1145.82	67.22	1160.41	63.01	1185.84	129.36	1185.84	129.36
120618-01-183	0.0797	3.2027	1.9887	4.3134	0.1807	2.7879	0.6703	1071.01	27.51	1111.68	29.15	1190.28	63.22	1190.28	63.22
120618-01-120	0.0799	9.1352	1.9858	13.1288	0.1802	9.5055	0.7182	1067.96	93.56	1110.70	88.89	1193.48	180.25	1193.48	180.25
120618-01-344	0.0800	3.9734	2.1791	5.2238	0.1974	3.2893	0.6495	1161.58	34.96	1174.38	36.37	1196.10	78.37	1196.10	78.37
120618-01-155	0.0802	8.6443	2.2268	12.5471	0.2013	9.2477	0.7249	1182.36	99.91	1189.52	88.14	1200.71	170.38	1200.71	170.38
120618-01-135	0.0805	4.3622	2.1254	5.6341	0.1914	3.9311	0.6359	1128.86	40.71	1157.10	38.92	1208.50	85.88	1208.50	85.88
120618-01-180	0.0812	4.7955	2.2432	6.2414	0.2003	3.9220	0.6402	1176.81	42.19	1194.65	43.86	1225.25	94.19	1225.25	94.19
120618-01-205	0.0831	4.2813	2.3093	6.4831	0.2014	4.8441	0.7509	1182.99	52.36	1215.14	45.97	1270.93	83.54	1270.93	83.54
120618-01-263	0.0831	2.3675	2.4458	2.7983	0.2132	2.0819	0.5630	1245.76	23.58	1256.19	20.17	1272.29	46.19	1272.29	46.19
120618-01-298	0.0831	4.5792	2.3689	6.2971	0.2064	4.4847	0.6869	1209.83	49.47	1233.27	44.99	1272.62	89.33	1272.62	89.33
120618-01-324	0.0833	5.9385	2.4083	8.4339	0.2096	5.9962	0.7101	1226.52	66.97	1245.09	60.58	1275.44	115.80	1275.44	115.80
120618-01-326	0.0837	5.7265	2.6876	7.3412	0.2326	4.6037	0.6257	1348.20	56.01	1325.06	54.38	1285.91	111.50	1285.91	111.50
120618-01-119	0.0854	2.8562	2.6229	3.9073	0.2225	2.7235	0.6826	1294.83	31.95	1307.09	28.73	1325.41	55.31	1325.41	55.31
120618-01-045	0.0854	5.0689	2.1399	6.9946	0.1815	4.8615	0.6891	1075.06	48.14	1161.79	48.44	1325.46	98.15	1325.46	98.15
120618-01-348	0.0859	4.1108	2.6157	6.1962	0.2206	4.5622	0.7483	1285.25	53.16	1305.05	45.55	1335.83	79.48	1335.83	79.48
120618-01-270	0.0865	9.2335	2.4605	11.4144	0.2060	6.7994	0.5879	1207.59	74.88	1260.50	82.59	1350.20	178.17	1350.20	178.17
120618-01-338	0.0868	2.1093	2.6804	3.2038	0.2236	2.0685	0.7616	1301.01	24.37	1323.07	23.70	1357.07	40.66	1357.07	40.66
120618-01-234	0.0881	7.0182	2.8588	9.9658	0.2352	7.1336	0.7100	1361.50	87.56	1371.12	75.10	1384.37	134.79	1384.37	134.79
120618-01-191	0.0884	3.1216	2.6237	5.2155	0.2151	4.2058	0.8011	1255.70	47.99	1307.30	38.36	1391.24	59.90	1391.24	59.90
120618-01-297	0.0884	2.2078	2.7032	2.7931	0.2215	2.0871	0.6247	1289.80	24.40	1329.33	20.71	1391.78	42.36	1391.78	42.36
120618-01-200	0.0906	6.6019	3.1399	9.3135	0.2511	6.5573	0.7054	1444.36	84.86	1442.52	71.84	1438.06	125.87	1438.06	125.87
120618-01-243	0.0910	6.6523	3.1077	9.7132	0.2475	7.1640	0.7287	1425.44	91.62	1434.59	74.75	1446.44	126.69	1446.44	126.69
120618-01-195	0.0910	3.1332	2.9731	4.1342	0.2367	2.7399	0.6525	1369.31	33.80	1400.77	31.42	1447.25	59.66	1447.25	59.66
120618-01-003	0.0919	4.4333	2.9689	6.8929	0.2341	5.2670	0.7657	1355.85	64.40	1399.70	52.40	1465.31	84.21	1465.31	84.21
120618-01-024	0.0920	3.0741	2.9538	4.2483	0.2327	2.6910	0.6928	1348.44	32.74	1395.82	32.24	1467.16	58.38	1467.16	58.38
120618-01-267	0.0923	3.0737	2.6474	6.3208	0.2077	5.7165	0.8743	1216.67	63.38	1313.91	46.62	1474.54	58.32	1474.54	58.32

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
120618-01, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.683670, LONGITUDE: -70.818460 ACCEPTED															
120618-01-385	0.0932	3.8693	3.3489	6.1007	0.2604	4.7686	0.7732	1492.09	63.52	1492.54	47.74	1491.36	73.25	1491.36	73.25
120618-01-274	0.0945	3.2055	3.2047	5.1461	0.2458	4.2448	0.7834	1416.74	53.99	1458.29	39.85	1517.60	60.47	1517.60	60.47
120618-01-211	0.0947	2.9560	3.1935	4.2825	0.2444	3.0940	0.7236	1409.50	39.17	1455.60	33.13	1521.84	55.73	1521.84	55.73
120618-01-096	0.0953	6.6820	3.0358	9.7562	0.2308	7.1128	0.7286	1338.48	85.98	1416.66	74.65	1534.43	125.77	1534.43	125.77
120618-01-062	0.0959	5.9325	3.5991	8.4148	0.2718	5.9550	0.7092	1549.95	82.05	1549.33	66.96	1546.67	111.49	1546.67	111.49
120618-01-309	0.0961	6.2445	3.2216	9.2770	0.2429	6.8858	0.7395	1401.56	86.74	1462.37	72.00	1550.01	117.30	1550.01	117.30
120618-01-031	0.0977	3.6719	3.1480	5.6487	0.2335	4.2938	0.7599	1353.06	52.41	1444.51	43.56	1580.01	68.71	1580.01	68.71
120618-01-094	0.0992	4.2328	3.5536	6.2574	0.2596	4.6148	0.7365	1487.59	61.31	1539.24	49.62	1609.13	78.91	1609.13	78.91
120618-01-332	0.0994	2.7156	4.2544	4.0790	0.3100	2.9377	0.7466	1740.77	44.82	1684.58	33.55	1613.47	50.59	1613.47	50.59
120618-01-392	0.0996	3.9070	3.4986	5.4183	0.2546	3.8193	0.6930	1462.09	49.96	1526.91	42.81	1616.16	72.77	1616.16	72.77
120618-01-343	0.1017	3.2703	3.8681	7.9469	0.2757	7.1675	0.9115	1569.59	99.86	1607.05	64.20	1654.65	60.59	1654.65	60.59
120618-01-014	0.1027	3.5366	4.2252	5.3037	0.2980	3.6838	0.7471	1681.27	54.52	1678.92	43.57	1674.21	65.37	1674.21	65.37
120618-01-342	0.1032	6.2188	4.0247	10.4353	0.2827	8.3148	0.8031	1604.95	118.15	1639.21	85.07	1681.59	114.83	1681.59	114.83
120618-01-222	0.1038	3.3971	4.0103	5.3039	0.2801	3.9475	0.7683	1591.75	55.68	1636.29	43.13	1692.33	62.65	1692.33	62.65
120618-01-372	0.1048	3.8223	4.0868	6.1560	0.2826	4.8571	0.7839	1604.39	68.99	1651.67	50.26	1710.53	70.33	1710.53	70.33
120618-01-030	0.1062	6.7968	4.2372	10.0489	0.2892	7.4024	0.7366	1637.57	107.06	1681.26	82.73	1734.44	124.68	1734.44	124.68
120618-01-190	0.1062	3.9608	4.1796	5.7320	0.2852	4.1713	0.7229	1617.58	59.68	1670.02	47.00	1734.91	72.65	1734.91	72.65
120618-01-055	0.1062	3.4210	4.3722	5.1722	0.2982	3.8459	0.7500	1682.48	56.95	1707.11	42.77	1735.69	62.75	1735.69	62.75
120618-01-369	0.1064	4.1618	3.6641	4.6012	0.2495	1.8837	0.4268	1435.85	24.25	1563.59	36.72	1738.81	76.30	1738.81	76.30
120618-01-276	0.1071	5.2089	4.7666	7.7645	0.3225	5.9133	0.7418	1801.95	92.96	1779.04	65.26	1750.56	95.37	1750.56	95.37
120618-01-364	0.1144	2.7315	5.2222	3.7158	0.3307	2.4584	0.6782	1841.85	39.39	1856.25	31.68	1870.63	49.26	1870.63	49.26
120618-01-123	0.1146	11.3468	5.1253	16.3904	0.3240	11.8886	0.7216	1809.32	187.61	1840.31	140.14	1873.82	204.57	1873.82	204.57
120618-01-340	0.1151	2.3487	5.2295	3.5714	0.3292	2.4805	0.7558	1834.35	39.60	1857.44	30.45	1881.58	42.31	1881.58	42.31
120618-01-133	0.1224	6.4859	5.6875	9.6975	0.3367	7.3101	0.7435	1870.70	118.71	1929.47	83.93	1991.51	115.35	1991.51	115.35
120618-01-251	0.1240	3.0765	5.8552	4.1289	0.3421	3.0549	0.6705	1896.81	50.20	1954.63	35.82	2014.81	54.57	2014.81	54.57
120618-01-140	0.1243	2.8515	6.3827	3.8349	0.3722	2.7561	0.6704	2039.67	48.19	2029.90	33.68	2018.31	50.55	2018.31	50.55
120618-01-346	0.1248	8.9258	6.5757	12.7005	0.3816	8.9974	0.7114	2083.84	160.24	2056.09	112.39	2026.62	158.09	2026.62	158.09
120618-01-328	0.1264	2.4505	5.6846	3.3694	0.3259	2.3327	0.6864	1818.29	36.96	1929.03	29.10	2048.46	43.29	2048.46	43.29
120618-01-390	0.1276	7.2406	5.7218	9.8374	0.3250	6.6964	0.6770	1814.25	105.90	1934.67	85.23	2064.55	127.68	2064.55	127.68
120618-01-345	0.1279	2.6026	5.9516	3.6337	0.3371	2.3977	0.6989	1872.78	38.97	1968.80	31.60	2069.51	45.87	2069.51	45.87
120618-01-294	0.1313	4.5500	6.5162	6.3764	0.3595	4.6120	0.7009	1979.62	78.62	2048.09	56.19	2116.09	79.76	2116.09	79.76
120618-01-167	0.1413	2.0201	7.9443	3.5680	0.4075	2.6707	0.8281	2203.48	49.85	2224.72	32.19	2242.73	34.93	2242.73	34.93
120618-01-086	0.1447	3.3527	8.0199	4.5138	0.4015	3.1130	0.6699	2175.84	57.49	2233.27	40.77	2284.69	57.69	2284.69	57.69
120618-01-239	0.1576	7.8834	9.3865	10.9820	0.4316	7.7669	0.6963	2312.77	150.97	2376.51	101.11	2430.10	133.65	2430.10	133.65
120618-01-001	0.1603	10.6783	8.9993	14.4749	0.4069	9.7662	0.6751	2200.64	182.12	2337.93	133.03	2458.38	180.51	2458.38	180.51
120618-01-072	0.1824	6.3389	10.7682	9.1221	0.4278	6.5535	0.7191	2295.77	126.60	2503.32	84.95	2674.66	104.89	2674.66	104.89
120618-01-220	0.1845	2.6678	12.7837	3.7987	0.5021	2.5109	0.7139	2622.82	54.11	2663.85	35.79	2693.65	44.07	2693.65	44.07
120618-01-275	0.1856	9.2705	11.1438	14.1653	0.4352	10.7947	0.7561	2328.97	211.08	2535.23	132.74	2703.15	153.00	2703.15	153.00
120618-01-201	0.1899	3.5759	11.0985	4.9977	0.4235	3.4689	0.6986	2276.41	66.53	2531.43	46.58	2741.20	58.81	2741.20	58.81
120618-01-257	0.2131	11.6637	15.9376	16.0443	0.5419	11.1294	0.6867	2791.36	252.27	2873.06	154.47	2929.37	188.68	2929.37	188.68
120618-01-370	0.2647	2.5804	22.3800	3.8171	0.6127	2.7585	0.7370	3080.67	67.56	3200.37	37.12	3274.72	40.55	3274.72	40.55
120618-01-317	0.2685	2.6697	23.8077	3.9748	0.6425	2.9967	0.7410	3198.82	75.57	3260.55	38.75	3297.20	41.89	3297.20	41.89
120618-01, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.683670, LONGITUDE: -70.818460 REJECTED															
120618-01-046	0.3930	311.3483	0.1196	439.8421	0.0022	310.6826	0.7063	14.20	44.06	114.70	517.67	3882.45	4690.40	14.20	44.06
120618-01-041	0.1007	24.0861	0.0704	25.3307	0.0051	7.8531	0.3096	32.56	2.55	69.09	16.92	1637.77	447.36	32.56	2.55
120618-01-311	0.0587	67.8023	0.0419	74.8476	0.0052	31.7054	0.4236	33.24	10.51	41.65	30.55	555.34	1478.95	33.24	10.51
120618-01-113	-0.0357	230.0615	-0.0256	230.8348	0.0052	18.8850	0.0818	33.37	6.29	0.00	0.00	0.00	5545.51	33.37	6.29
120618-01-245	0.1578	22.5763	0.1192	24.0003	0.0055	8.2537	0.3394	35.20	2.90	114.36	25.96	2431.82	382.67	35.20	2.90
120618-01-252	0.1285	12.0381	0.1007	13.4269	0.0057	6.0921	0.4430	36.49	2.22	97.40	12.47	2077.63	211.95	36.49	2.22

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
120618-01, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.683670, LONGITUDE: -70.818460 REJECTED															
120618-01-049	0.0468	27.5308	0.0372	34.1738	0.0058	20.2559	0.5924	37.03	7.48	37.07	12.44	37.04	658.98	37.03	7.48
120618-01-192	0.0535	37.6033	0.0427	41.2739	0.0058	17.0223	0.4123	37.24	6.32	42.50	17.18	348.70	850.16	37.24	6.32
120618-01-161	0.2493	22.3145	0.2228	23.9992	0.0065	8.9196	0.3681	41.60	3.70	204.20	44.42	3180.31	353.49	41.60	3.70
120618-01-156	0.0511	19.7260	0.0463	28.1586	0.0066	20.1644	0.7136	42.14	8.47	45.94	12.65	247.01	454.15	42.14	8.47
120618-01-377	0.0482	21.4745	0.0452	29.0024	0.0068	19.5030	0.6721	43.70	8.49	44.92	12.75	108.52	507.17	43.70	8.49
120618-01-099	0.1375	23.6365	0.1388	24.7027	0.0073	7.1829	0.2906	46.97	3.36	131.95	30.58	2196.02	410.60	46.97	3.36
120618-01-164	0.1340	13.3870	0.1384	20.7509	0.0075	15.8074	0.7641	48.06	7.57	131.61	25.62	2151.07	233.73	48.06	7.57
120618-01-160	0.2969	25.3038	0.4108	27.8117	0.0100	11.6080	0.4150	64.29	7.43	349.42	82.40	3454.33	392.31	64.29	7.43
120618-01-050	0.4849	14.3205	0.7155	18.1084	0.0107	11.0837	0.6120	68.55	7.56	548.01	76.83	4195.97	211.67	68.55	7.56
120618-01-210	0.0837	14.6401	0.1440	17.2365	0.0125	9.0959	0.5278	79.91	7.22	136.64	22.04	1285.16	285.09	79.91	7.22
120618-01-087	0.0686	4.6562	0.1453	6.4285	0.0154	4.4947	0.6895	98.21	4.38	137.71	8.28	885.36	96.27	98.21	4.38
120618-01-098	0.1789	15.3708	0.4144	17.3335	0.0168	8.0156	0.4622	107.30	8.53	352.04	51.61	2642.61	255.13	107.30	8.53
120618-01-367	0.0780	9.6345	0.2343	10.4660	0.0218	4.0512	0.3906	138.83	5.56	213.78	20.18	1146.77	191.40	138.83	5.56
120618-01-004	0.0499	20.7503	0.1606	29.0167	0.0233	20.2799	0.6990	148.73	29.82	151.22	40.79	188.27	482.89	148.73	29.82
120618-01-157	0.0499	23.2383	0.1644	32.8036	0.0239	23.2137	0.7058	152.00	34.87	154.53	47.06	191.29	540.49	152.00	34.87
120618-01-034	0.0724	20.0096	0.2689	25.7191	0.0269	16.1650	0.6283	171.14	27.30	241.83	55.40	997.89	406.53	171.14	27.30
120618-01-362	0.4068	4.1943	1.6519	5.8330	0.0294	4.0078	0.6950	186.91	7.38	990.29	36.91	3934.55	62.96	186.91	7.38
120618-01-011	0.0760	11.6967	0.3447	14.0816	0.0329	7.8221	0.5568	208.39	16.04	300.72	36.67	1095.55	234.14	208.39	16.04
120618-01-286	0.0738	5.5180	0.4196	7.2591	0.0412	4.9407	0.6504	260.19	12.60	355.79	21.79	1036.63	111.44	260.19	12.60
120618-01-391	0.1474	6.4424	1.1036	8.3671	0.0542	5.3849	0.6381	340.56	17.86	755.10	44.60	2316.05	110.53	340.56	17.86
120618-01-026	0.2271	7.4937	2.1882	8.0131	0.0698	2.8185	0.3542	435.07	11.86	1177.31	55.90	3031.64	120.14	435.07	11.86
120618-01-095	0.1031	4.0304	1.0319	5.7865	0.0725	4.1591	0.7175	451.15	18.12	719.88	29.85	1681.41	74.43	451.15	18.12
120618-01-044	0.1137	5.5192	1.2524	7.4062	0.0798	4.9792	0.6668	495.17	23.73	824.48	41.84	1858.68	99.68	495.17	23.73
120618-01-312	0.0799	5.1067	0.9356	6.5243	0.0849	4.0874	0.6224	525.23	20.62	670.60	32.03	1193.60	100.76	525.23	20.62
120618-01-306	0.0587	20.1251	0.7723	28.8997	0.0953	20.7489	0.7177	586.60	116.35	581.08	128.55	557.43	438.83	586.60	116.35
120618-01-221	0.0872	3.6300	1.1888	4.7928	0.0987	2.9640	0.6539	607.06	17.17	795.39	26.44	1365.64	69.90	607.06	17.17
120618-01-079	0.0714	9.4960	1.0106	10.5169	0.1025	4.5401	0.4298	628.98	27.21	709.17	53.73	970.20	193.77	628.98	27.21
120618-01-262	0.0580	5.2612	0.8324	6.1014	0.1040	3.4141	0.5089	638.00	20.74	614.96	28.15	529.00	115.28	638.00	20.74
120618-01-104	0.0597	7.1835	0.8931	10.0664	0.1084	7.0838	0.7005	663.68	44.67	648.05	48.26	591.91	155.72	663.68	44.67
120618-01-261	0.0684	11.3742	1.0631	15.0017	0.1127	9.8887	0.6521	688.31	64.56	735.35	78.65	879.52	235.37	688.31	64.56
120618-01-122	0.1060	11.0678	1.6830	13.5855	0.1150	7.9695	0.5800	701.95	53.00	1002.11	86.74	1731.77	203.10	701.95	53.00
120618-01-016	0.0719	5.2581	1.1684	6.8298	0.1177	4.1166	0.6392	717.13	27.94	785.90	37.38	984.47	107.04	717.13	27.94
120618-01-066	0.0780	6.6608	1.3353	8.1201	0.1241	4.6224	0.5720	754.15	32.90	861.19	47.18	1145.85	132.34	754.15	32.90
120618-01-106	0.0959	4.8739	1.7100	7.0395	0.1292	5.1236	0.7216	783.23	37.79	1012.27	45.13	1545.93	91.60	783.23	37.79
120618-01-282	0.0792	5.8893	1.6823	6.9466	0.1539	3.8555	0.5309	922.82	33.15	1001.84	44.27	1177.18	116.48	1177.18	116.48
120618-01-150	0.0810	20.0392	2.1064	27.7128	0.1884	19.1873	0.6907	1112.64	196.14	1150.89	193.10	1221.84	393.78	1221.84	393.78
120618-01-202	0.0842	1.8980	1.8487	3.2685	0.1591	2.6313	0.8142	951.75	23.28	1062.97	21.54	1297.18	36.90	1297.18	36.90
120618-01-258	0.0852	4.8330	1.5953	6.9191	0.1357	5.1963	0.7164	820.53	40.04	968.38	43.21	1319.20	93.66	1319.20	93.66
120618-01-374	0.0867	5.7654	1.9691	8.9918	0.1646	6.9278	0.7674	982.48	63.13	1105.02	60.62	1352.99	111.21	1352.99	111.21
120618-01-047	0.0899	5.6618	1.8860	7.2996	0.1520	4.6508	0.6312	912.02	39.55	1076.17	48.47	1423.80	108.16	1423.80	108.16
120618-01-081	0.0904	5.6829	2.3641	7.8910	0.1895	5.5046	0.6938	1118.84	56.54	1231.83	56.36	1433.56	108.41	1433.56	108.41
120618-01-255	0.0907	17.2415	2.1741	22.1430	0.1737	13.9831	0.6275	1032.30	133.40	1172.80	155.20	1440.55	328.61	1440.55	328.61
120618-01-253	0.0923	4.8444	2.4857	6.1490	0.1950	4.0113	0.6169	1148.61	42.20	1267.88	44.55	1474.57	91.91	1474.57	91.91
120618-01-295	0.0944	28.5739	2.0752	35.9707	0.1592	21.8826	0.6074	952.42	193.81	1140.66	251.49	1516.98	539.07	1516.98	539.07
120618-01-129	0.0999	6.0274	2.3382	7.5451	0.1695	4.7032	0.6019	1009.39	43.94	1223.97	53.71	1623.14	112.16	1623.14	112.16
120618-01-040	0.1028	2.6779	3.0111	4.5110	0.2123	3.6532	0.8048	1240.95	41.24	1410.45	34.40	1674.90	49.49	1674.90	49.49
120618-01-287	0.1050	7.2100	2.9767	10.3405	0.2054	7.5569	0.7170	1204.44	83.03	1401.69	78.75	1714.16	132.60	1714.16	132.60
120618-01-002	0.1086	9.6657	3.5563	13.1305	0.2373	8.8807	0.6768	1372.67	109.81	1539.84	104.43	1775.81	176.41	1775.81	176.41
120618-01-082	0.1097	5.3287	3.4653	10.3054	0.2289	8.8393	0.8559	1328.91	106.16	1519.37	81.38	1794.05	97.04	1794.05	97.04
120618-01-371	0.1130	2.6567	3.9875	3.4600	0.2556	2.2807	0.6409	1467.39	29.93	1631.65	28.10	1848.62	48.04	1848.62	48.04

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
120618-01, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.683670, LONGITUDE: -70.818460 REJECTED															
120618-01-283	0.1230	4.7277	3.2079	7.2803	0.1889	5.6520	0.7606	1115.50	57.90	1459.06	56.41	2000.73	83.99	2000.73	83.99
120618-01-080	0.1270	6.1852	4.7419	8.4644	0.2704	5.8067	0.6827	1543.07	79.69	1774.67	71.09	2057.44	109.16	2057.44	109.16
120618-01-244	0.1385	2.4385	5.5710	3.3295	0.2915	2.6331	0.6885	1648.80	38.31	1911.63	28.67	2208.59	42.30	2208.59	42.30
120618-01-238	0.8322	4.9868	39.7239	6.6854	0.3459	4.6577	0.6667	1914.84	77.16	3763.84	66.31	4977.92	71.31	4977.92	71.31
130618-02, LATE EOCENE, PUNO GROUP, LATITUDE: -15.676110, LONGITUDE: -70.821490 ACCEPTED															
130618-02-070	0.0717	70.3172	0.0492	71.7158	0.0050	14.3214	0.1966	31.98	4.57	48.78	34.17	977.88	1433.22	31.98	4.57
130618-02-388	0.0458	26.2934	0.0320	27.1248	0.0051	6.6332	0.2457	32.62	2.16	32.02	8.55	0.00	633.79	32.62	2.16
130618-02-102	0.0411	68.4446	0.0303	68.9238	0.0053	7.9430	0.1177	34.32	2.72	30.29	20.57	0.00	1649.82	34.32	2.72
130618-02-069	0.0590	31.1487	0.0435	31.5869	0.0053	5.8259	0.1669	34.35	2.00	43.21	13.36	566.22	678.18	34.35	2.00
130618-02-178	0.0363	111.0878	0.0270	111.7103	0.0054	11.8337	0.1054	34.69	4.09	27.09	29.88	0.00	2677.71	34.69	4.09
130618-02-096	0.0450	21.2639	0.0336	21.7745	0.0054	4.6975	0.2153	34.75	1.63	33.52	7.18	0.00	512.56	34.75	1.63
130618-02-073	0.0449	111.8254	0.0342	112.3602	0.0055	11.2406	0.0975	35.44	3.97	34.11	37.71	0.00	2695.49	35.44	3.97
130618-02-293	0.0807	46.2443	0.0615	47.3939	0.0055	10.6604	0.2190	35.51	3.78	60.62	27.90	1214.43	909.69	35.51	3.78
130618-02-242	0.0910	45.8609	0.0707	47.1721	0.0056	10.9587	0.2341	36.16	3.95	69.36	31.64	1447.55	873.25	36.16	3.95
130618-02-062	0.0418	71.8136	0.0328	72.4900	0.0057	10.1945	0.1364	36.59	3.72	32.79	23.40	0.00	1731.03	36.59	3.72
130618-02-095	0.0570	29.7321	0.0449	32.1971	0.0057	12.3592	0.3837	36.76	4.53	44.64	14.06	489.77	655.87	36.76	4.53
130618-02-034	0.0417	58.9368	0.0330	59.7054	0.0057	9.6825	0.1600	36.83	3.56	32.93	19.35	0.00	1420.64	36.83	3.56
130618-02-349	0.0327	81.1035	0.0262	81.5190	0.0058	8.2331	0.1008	37.34	3.07	26.29	21.16	0.00	1954.96	37.34	3.07
130618-02-181	0.0524	99.1892	0.0424	99.9716	0.0059	12.4930	0.1249	37.65	4.69	42.13	41.28	303.04	2260.50	37.65	4.69
130618-02-066	0.0383	62.5373	0.0316	62.9326	0.0060	7.8121	0.1125	38.42	2.99	31.54	19.55	0.00	1507.43	38.42	2.99
130618-02-084	0.0567	77.7903	0.0473	78.7583	0.0060	12.4779	0.1563	38.84	4.83	46.92	36.13	480.65	1718.72	38.84	4.83
130618-02-209	0.0538	23.9206	0.0452	25.4069	0.0061	8.3595	0.3371	39.11	3.26	44.89	11.16	362.87	539.45	39.11	3.26
130618-02-244	0.0377	42.6695	0.0318	44.3695	0.0061	12.0859	0.2742	39.34	4.74	31.81	13.90	0.00	1028.53	39.34	4.74
130618-02-337	0.0516	77.8186	0.0436	78.6257	0.0061	11.5300	0.1430	39.34	4.52	43.31	33.35	267.97	1784.77	39.34	4.52
130618-02-292	0.0553	30.5510	0.0470	31.8642	0.0062	9.3790	0.2843	39.56	3.70	46.64	14.53	425.84	681.34	39.56	3.70
130618-02-268	0.0680	37.3457	0.0581	38.5925	0.0062	9.8390	0.2522	39.79	3.90	57.32	21.51	867.37	774.27	39.79	3.90
130618-02-195	0.0281	117.6079	0.0242	117.9079	0.0062	8.1643	0.0713	40.07	3.26	24.24	28.25	0.00	2834.88	40.07	3.26
130618-02-149	0.0468	23.5256	0.0407	24.2279	0.0063	5.5243	0.2393	40.48	2.23	40.50	9.62	39.36	562.86	40.48	2.23
130618-02-203	0.0624	73.5748	0.0552	74.4494	0.0064	11.2008	0.1528	41.20	4.60	54.55	39.56	686.72	1570.00	41.20	4.60
130618-02-087	0.0972	75.8311	0.0865	76.7916	0.0064	12.4721	0.1577	41.43	5.15	84.20	62.13	1571.03	1420.55	41.43	5.15
130618-02-169	0.0633	27.7970	0.0573	30.8516	0.0066	13.4286	0.4338	42.14	5.64	56.60	16.99	719.10	590.03	42.14	5.64
130618-02-031	0.0390	158.5670	0.0355	159.2495	0.0066	14.8742	0.0925	42.36	6.28	35.39	55.45	0.00	3822.18	42.36	6.28
130618-02-201	0.0500	53.2718	0.0459	55.2063	0.0066	14.3475	0.2624	42.70	6.11	45.54	24.59	195.28	1238.17	42.70	6.11
130618-02-279	0.0689	38.3511	0.0927	39.5279	0.0098	9.9675	0.2424	62.55	6.20	90.00	34.06	895.30	791.70	62.55	6.20
130618-02-036	0.0671	58.4077	0.0994	59.2291	0.0107	9.9594	0.1660	68.81	6.82	96.25	54.44	842.32	1215.66	68.81	6.82
130618-02-100	0.0579	26.1061	0.0861	26.9787	0.0108	6.6018	0.2524	69.17	4.54	83.91	21.73	525.29	572.37	69.17	4.54
130618-02-262	0.0476	26.7468	0.0709	27.7957	0.0108	7.2440	0.2724	69.21	4.99	69.53	18.68	78.05	635.29	69.21	4.99
130618-02-254	0.0576	23.7622	0.0859	24.7119	0.0108	6.2916	0.2753	69.37	4.34	83.72	19.86	512.75	522.11	69.37	4.34
130618-02-380	0.0576	32.3695	0.0886	33.9976	0.0111	10.2961	0.3058	71.47	7.32	86.19	28.10	514.59	711.00	71.47	7.32
130618-02-040	0.0638	59.3774	0.0985	60.3053	0.0112	10.5725	0.1748	71.79	7.55	95.43	54.98	733.97	1257.33	71.79	7.55
130618-02-228	0.0447	37.3170	0.0702	37.8582	0.0114	7.0221	0.1693	72.91	5.09	68.89	25.22	0.00	899.51	72.91	5.09
130618-02-119	0.0451	33.7740	0.0708	34.8229	0.0114	8.7779	0.2437	72.93	6.37	69.47	23.39	0.00	814.10	72.93	6.37
130618-02-186	0.0637	19.7780	0.1025	20.8971	0.0117	6.7736	0.3229	74.68	5.03	99.07	19.73	732.44	418.91	74.68	5.03
130618-02-051	0.0436	43.3979	0.0706	43.7610	0.0117	5.9099	0.1287	75.28	4.42	69.29	29.32	0.00	1046.09	75.28	4.42
130618-02-114	0.0436	23.9387	0.0722	25.7522	0.0120	9.6347	0.3687	76.98	7.37	70.80	17.61	0.00	577.03	76.98	7.37
130618-02-198	0.0469	19.7873	0.0790	22.4802	0.0122	10.4798	0.4747	78.09	8.13	77.17	16.71	46.05	472.82	78.09	8.13
130618-02-118	0.0457	20.1298	0.0781	21.2668	0.0124	7.2205	0.3230	79.32	5.69	76.34	15.64	0.00	485.22	79.32	5.69
130618-02-375	0.0436	48.8246	0.0746	49.7503	0.0124	9.4448	0.1920	79.40	7.45	73.01	35.06	0.00	1176.89	79.40	7.45
130618-02-241	0.0460	42.7786	0.0788	43.4663	0.0124	7.5771	0.1772	79.49	5.99	76.98	32.24	0.00	1031.16	79.49	5.99

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
130618-02, LATE EOCENE, PUNO GROUP, LATITUDE: -15.676110, LONGITUDE: -70.821490 ACCEPTED															
130618-02-223	0.0541	51.6127	0.0930	52.0703	0.0124	7.2180	0.1324	79.74	5.72	90.32	45.03	377.09	1161.00	79.74	5.72
130618-02-002	0.0418	29.9186	0.0732	30.5730	0.0127	6.2648	0.2058	81.26	5.06	71.69	21.16	0.00	721.17	81.26	5.06
130618-02-196	0.0372	46.9936	0.0653	47.5095	0.0127	6.6896	0.1471	81.51	5.42	64.23	29.58	0.00	1132.76	81.51	5.42
130618-02-081	0.0512	25.8342	0.0928	26.2411	0.0131	5.0338	0.1761	84.09	4.21	90.09	22.63	250.74	594.37	84.09	4.21
130618-02-253	0.0480	20.2639	0.0871	21.2199	0.0132	6.1031	0.2969	84.24	5.11	84.82	17.27	98.72	479.44	84.24	5.11
130618-02-283	0.0728	22.6780	0.1346	23.5179	0.0134	6.8193	0.2659	85.82	5.81	128.22	28.34	1007.83	460.06	85.82	5.81
130618-02-112	0.0511	13.7479	0.0948	14.4055	0.0135	4.6071	0.2994	86.13	3.94	91.98	12.67	244.94	316.64	86.13	3.94
130618-02-230	0.0381	42.4720	0.0758	43.2565	0.0144	8.7108	0.1899	92.26	7.98	74.23	30.97	0.00	1023.77	92.26	7.98
130618-02-207	0.0508	18.9965	0.1015	24.0203	0.0145	14.5640	0.6120	92.59	13.39	98.17	22.48	233.44	438.44	92.59	13.39
130618-02-164	0.0649	30.5499	0.1318	32.1385	0.0147	9.9917	0.3105	94.15	9.34	125.73	38.02	771.61	643.00	94.15	9.34
130618-02-212	0.0487	15.6616	0.1016	19.4420	0.0151	11.3697	0.5926	96.68	10.91	98.28	18.21	134.80	368.08	96.68	10.91
130618-02-355	0.0545	15.1731	0.1198	17.5422	0.0159	8.6685	0.5019	101.90	8.76	114.86	19.05	391.84	340.42	101.90	8.76
130618-02-363	0.0504	14.5220	0.1114	17.7298	0.0160	10.2630	0.5737	102.58	10.44	107.27	18.05	211.89	336.50	102.58	10.44
130618-02-305	0.0510	16.6490	0.1136	18.0476	0.0162	5.9681	0.3906	103.28	6.12	109.25	18.70	239.79	383.81	103.28	6.12
130618-02-162	0.0551	12.2227	0.1249	13.4225	0.0164	5.2139	0.4141	104.99	5.43	119.55	15.14	417.73	272.98	104.99	5.43
130618-02-038	0.0472	6.2023	0.1099	7.1606	0.0169	3.9194	0.5018	107.88	4.19	105.85	7.20	58.59	147.86	107.88	4.19
130618-02-310	0.0438	26.6976	0.1211	27.6041	0.0200	6.0261	0.2571	127.82	7.63	116.04	30.28	0.00	643.53	127.82	7.63
130618-02-152	0.0485	56.8085	0.1452	57.5560	0.0217	9.1027	0.1607	138.24	12.45	137.66	74.23	125.60	1337.41	138.24	12.45
130618-02-148	0.0521	30.3880	0.1563	31.0593	0.0217	6.1829	0.2069	138.54	8.47	147.48	42.66	291.73	693.95	138.54	8.47
130618-02-050	0.0485	9.6107	0.1466	11.7238	0.0219	6.9545	0.5731	139.60	9.60	138.88	15.22	124.95	226.29	139.60	9.60
130618-02-288	0.0505	5.6029	0.1531	5.6959	0.0219	3.1512	0.3059	139.91	4.36	144.60	7.68	220.36	129.63	139.91	4.36
130618-02-206	0.0499	21.6801	0.1528	22.2929	0.0222	4.7906	0.2336	141.44	6.70	144.40	30.01	190.72	504.30	141.44	6.70
130618-02-099	0.0607	21.7018	0.1875	22.3915	0.0224	5.2607	0.2466	142.72	7.43	174.49	35.91	628.70	467.56	142.72	7.43
130618-02-232	0.0524	36.2798	0.1639	37.0181	0.0226	7.9210	0.1993	144.35	11.31	154.14	52.99	304.85	826.54	144.35	11.31
130618-02-312	0.0511	15.7821	0.1618	19.0519	0.0229	10.0494	0.5612	146.26	14.53	152.28	26.95	245.74	363.43	146.26	14.53
130618-02-153	0.0356	28.7185	0.1134	29.4014	0.0231	6.0876	0.2144	147.14	8.86	109.07	30.42	0.00	692.24	147.14	8.86
130618-02-250	0.0562	24.5482	0.1848	25.6989	0.0238	7.4432	0.2959	151.75	11.16	172.21	40.73	460.96	544.11	151.75	11.16
130618-02-136	0.0727	28.1652	0.2487	29.1851	0.0248	7.7901	0.2621	157.88	12.15	225.56	59.10	1005.67	571.57	157.88	12.15
130618-02-151	0.0514	18.5060	0.1867	19.4798	0.0263	5.8616	0.3124	167.33	9.68	173.77	31.12	260.23	425.03	167.33	9.68
130618-02-094	0.0530	23.3482	0.1986	23.8757	0.0271	5.8199	0.2115	172.64	9.91	183.96	40.19	330.43	529.60	172.64	9.91
130618-02-362	0.0533	16.7715	0.2069	17.6051	0.0281	5.5253	0.3042	178.91	9.75	190.98	30.66	342.00	379.64	178.91	9.75
130618-02-211	0.0446	18.3736	0.1745	19.6135	0.0284	6.6080	0.3502	180.31	11.75	163.35	29.60	0.00	442.89	180.31	11.75
130618-02-145	0.0508	19.9509	0.2020	20.6492	0.0288	5.0327	0.2583	183.15	9.09	186.82	35.25	231.45	460.63	183.15	9.09
130618-02-052	0.0574	22.4504	0.2288	22.9538	0.0289	5.1126	0.2087	183.63	9.26	209.23	43.43	506.66	493.80	183.63	9.26
130618-02-180	0.0648	35.0828	0.2665	36.2631	0.0298	9.1901	0.2531	189.31	17.14	239.86	77.62	767.19	738.92	189.31	17.14
130618-02-089	0.0516	23.6629	0.2166	25.9873	0.0304	11.1519	0.4137	193.02	21.21	199.05	47.01	269.58	542.55	193.02	21.21
130618-02-259	0.0557	22.1083	0.2435	23.8125	0.0317	8.5745	0.3717	201.15	16.98	221.28	47.38	438.88	491.92	201.15	16.98
130618-02-391	0.0638	54.9990	0.2843	56.0306	0.0323	10.6829	0.1910	205.00	21.56	254.07	126.60	733.71	1164.66	205.00	21.56
130618-02-053	0.0542	16.5977	0.2718	17.0775	0.0363	4.4091	0.2364	230.00	9.96	244.11	37.07	380.47	373.13	230.00	9.96
130618-02-272	0.0491	16.5588	0.2530	21.1175	0.0374	13.3961	0.6207	236.47	31.10	229.01	43.32	150.97	388.01	236.47	31.10
130618-02-377	0.0522	9.6448	0.2733	13.4614	0.0380	9.2816	0.6977	240.28	21.89	245.30	29.34	292.48	220.22	240.28	21.89
130618-02-170	0.0529	8.7629	0.2801	9.6143	0.0384	4.1021	0.4117	242.85	9.78	250.72	21.36	322.78	198.99	242.85	9.78
130618-02-076	0.0577	24.8242	0.3078	25.4037	0.0386	5.9631	0.2134	244.41	14.30	272.47	60.78	519.59	544.80	244.41	14.30
130618-02-382	0.0503	10.2739	0.2729	11.1716	0.0393	4.1487	0.3934	248.45	10.11	244.97	24.32	210.31	238.13	248.45	10.11
130618-02-389	0.0523	11.4104	0.2869	12.3707	0.0398	4.7351	0.3863	251.32	11.67	256.12	28.01	298.63	260.25	251.32	11.67
130618-02-294	0.0534	10.2942	0.2955	12.5699	0.0401	7.6180	0.5747	253.27	18.92	262.86	29.12	347.52	232.79	253.27	18.92
130618-02-039	0.0509	6.3862	0.2827	6.9577	0.0403	2.8893	0.3973	254.52	7.21	252.80	15.57	235.02	147.35	254.52	7.21
130618-02-140	0.0481	28.6512	0.2680	29.2809	0.0404	6.0894	0.2063	255.10	15.23	241.09	62.92	104.75	677.14	255.10	15.23
130618-02-163	0.0514	8.3366	0.2866	9.3422	0.0404	3.7673	0.4542	255.50	9.44	255.91	21.14	257.45	191.57	255.50	9.44
130618-02-189	0.0499	23.3183	0.2798	23.9368	0.0406	5.3168	0.2259	256.60	13.37	250.53	53.19	191.52	542.33	256.60	13.37

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
130618-02, LATE EOCENE, PUNO GROUP, LATITUDE: -15.676110, LONGITUDE: -70.821490 ACCEPTED															
130618-02-215	0.0509	7.3205	0.2931	9.3628	0.0417	5.7452	0.6235	263.39	14.83	261.00	21.55	236.98	168.85	263.39	14.83
130618-02-019	0.0524	10.8989	0.3040	13.3764	0.0420	8.0302	0.5801	265.48	20.89	269.55	31.68	303.03	248.38	265.48	20.89
130618-02-025	0.0535	7.0487	0.3109	8.3950	0.0421	5.0138	0.5456	265.68	13.05	274.85	20.22	351.81	159.27	265.68	13.05
130618-02-220	0.0512	8.5508	0.2994	8.8624	0.0424	3.1747	0.2755	267.40	8.32	265.93	20.74	250.37	196.74	267.40	8.32
130618-02-340	0.0488	10.5135	0.2852	12.4767	0.0424	7.2551	0.5401	267.45	19.01	254.76	28.12	138.60	246.92	267.45	19.01
130618-02-289	0.0495	18.0728	0.2916	18.6334	0.0427	5.1557	0.2454	269.31	13.60	259.86	42.75	173.55	421.73	269.31	13.60
130618-02-348	0.0514	6.0593	0.3024	7.3559	0.0427	4.1947	0.5670	269.36	11.07	268.25	17.34	257.80	139.23	269.36	11.07
130618-02-306	0.0556	10.0818	0.3322	12.6612	0.0433	6.7642	0.6096	273.27	18.10	291.28	32.07	436.97	224.40	273.27	18.10
130618-02-134	0.0521	9.2092	0.3155	10.5777	0.0438	5.4109	0.4923	276.64	14.65	278.44	25.77	291.74	210.30	276.64	14.65
130618-02-143	0.0483	61.6210	0.2924	62.2422	0.0439	8.8058	0.1409	276.68	23.85	260.44	143.94	114.68	1453.63	276.68	23.85
130618-02-243	0.0522	11.9243	0.3195	14.8207	0.0444	8.6931	0.5939	279.77	23.80	281.52	36.45	293.61	272.21	279.77	23.80
130618-02-394	0.0488	9.4491	0.3087	11.2390	0.0459	6.0374	0.5415	289.23	17.08	273.20	26.93	135.85	222.04	289.23	17.08
130618-02-167	0.0571	7.8090	0.3783	10.2372	0.0480	6.6382	0.6466	302.02	19.59	325.81	28.54	497.31	172.04	302.02	19.59
130618-02-135	0.1036	35.9150	0.6888	38.3138	0.0482	13.4261	0.3483	303.27	39.78	532.11	159.99	1690.17	662.48	303.27	39.78
130618-02-216	0.0515	7.3479	0.3428	8.7923	0.0483	4.7169	0.5493	303.86	14.00	299.30	22.80	261.31	168.73	303.86	14.00
130618-02-139	0.0565	6.0232	0.3944	6.6200	0.0506	3.1216	0.4183	318.33	9.70	337.56	19.01	470.43	133.29	318.33	9.70
130618-02-016	0.0696	7.9493	0.4998	8.9985	0.0520	4.7036	0.4714	326.88	14.99	411.57	30.46	917.35	163.51	326.88	14.99
130618-02-255	0.0570	19.3486	0.4108	20.4657	0.0523	6.1664	0.3269	328.34	19.74	349.47	60.58	490.09	426.80	328.34	19.74
130618-02-366	0.0524	9.7674	0.3951	13.4157	0.0547	9.6540	0.6863	343.39	32.28	338.12	38.60	301.11	222.67	343.39	32.28
130618-02-104	0.0719	11.6822	0.5629	16.4170	0.0568	11.4151	0.7026	355.84	39.52	453.39	60.11	982.61	237.88	355.84	39.52
130618-02-056	0.0661	8.1908	0.5802	9.9942	0.0636	6.2538	0.5752	397.75	24.12	464.62	37.28	808.78	171.38	397.75	24.12
130618-02-032	0.0578	9.7388	0.5117	14.4385	0.0642	10.8616	0.7384	401.00	42.23	419.61	49.67	521.47	213.66	401.00	42.23
130618-02-001	0.0539	9.2736	0.4817	11.0431	0.0648	5.9677	0.5430	404.78	23.41	399.27	36.47	365.37	209.04	404.78	23.41
130618-02-193	0.0656	8.4722	0.6516	11.3673	0.0720	7.5152	0.6667	448.15	32.54	509.47	45.57	792.82	177.72	448.15	32.54
130618-02-004	0.0556	8.0414	0.5722	8.7978	0.0746	3.5214	0.4057	463.95	15.76	459.46	32.52	434.99	179.05	463.95	15.76
130618-02-263	0.0579	9.7952	0.6028	11.3253	0.0755	5.2522	0.5035	469.02	23.76	478.99	43.27	524.81	214.78	469.02	23.76
130618-02-011	0.0575	7.5400	0.6006	9.4127	0.0757	5.6696	0.5986	470.44	25.72	477.59	35.88	510.04	165.75	470.44	25.72
130618-02-396	0.0553	11.8904	0.5803	15.2081	0.0760	9.4512	0.6235	472.20	43.03	464.67	56.77	425.43	265.19	472.20	43.03
130618-02-098	0.0593	10.0947	0.6229	12.2014	0.0761	6.8603	0.5617	472.78	31.27	491.64	47.59	579.03	219.31	472.78	31.27
130618-02-044	0.0572	4.1983	0.6053	5.0123	0.0766	2.9254	0.5475	476.01	13.42	480.61	19.19	500.94	92.43	476.01	13.42
130618-02-059	0.0592	5.9449	0.6380	6.3079	0.0782	3.2809	0.3675	485.16	15.33	501.07	24.95	572.88	129.29	485.16	15.33
130618-02-343	0.0586	10.2818	0.6379	12.2056	0.0789	7.1248	0.5406	489.34	33.57	500.99	48.30	553.79	224.33	489.34	33.57
130618-02-012	0.0586	11.6156	0.6416	12.8112	0.0794	5.4426	0.4218	492.35	25.80	503.28	50.88	551.26	253.54	492.35	25.80
130618-02-188	0.0595	5.6851	0.6524	8.6476	0.0794	6.5437	0.7535	492.65	31.04	509.98	34.68	586.12	123.36	492.65	31.04
130618-02-269	0.0564	8.8320	0.6256	9.5431	0.0804	3.8971	0.3799	498.27	18.69	493.34	37.31	468.37	195.51	498.27	18.69
130618-02-258	0.0477	40.6489	0.5297	42.0611	0.0805	10.5048	0.2571	498.98	50.44	431.60	148.94	83.69	964.47	498.98	50.44
130618-02-374	0.0562	7.7799	0.6261	11.1059	0.0808	7.7958	0.7137	500.90	37.57	493.66	43.45	459.15	172.50	500.90	37.57
130618-02-390	0.0584	8.2549	0.6576	9.7967	0.0815	5.2359	0.5385	505.30	25.45	513.15	39.48	546.55	180.33	505.30	25.45
130618-02-308	0.0574	11.6208	0.6565	15.4718	0.0829	9.5617	0.6616	513.69	47.21	512.48	62.34	505.73	255.64	513.69	47.21
130618-02-029	0.0606	6.2268	0.6944	7.9232	0.0830	5.3247	0.6205	513.85	26.30	535.45	32.98	626.77	134.20	513.85	26.30
130618-02-091	0.0594	5.9808	0.6912	6.7583	0.0843	4.3432	0.4900	521.74	21.77	533.53	28.05	582.81	129.85	521.74	21.77
130618-02-278	0.0635	17.8181	0.7405	18.7732	0.0846	6.5306	0.3165	523.29	32.82	562.70	81.27	723.54	377.94	523.29	32.82
130618-02-300	0.0566	14.9594	0.6692	19.2076	0.0858	12.1452	0.6273	530.45	61.85	520.25	78.35	474.14	330.81	530.45	61.85
130618-02-057	0.0598	11.4872	0.7114	15.0133	0.0862	9.9880	0.6442	533.09	51.10	545.57	63.45	596.49	248.83	533.09	51.10
130618-02-017	0.0571	5.2355	0.6812	6.8872	0.0864	4.9361	0.6528	534.25	25.31	527.49	28.34	496.37	115.36	534.25	25.31
130618-02-320	0.0386	126.4831	0.4602	126.7907	0.0864	9.8054	0.0700	534.48	50.30	384.41	429.69	0.00	3048.81	534.48	50.30
130618-02-233	0.0590	7.7156	0.7044	9.2957	0.0865	5.9584	0.5631	534.72	30.57	541.42	39.03	567.33	167.96	534.72	30.57
130618-02-077	0.0586	8.3163	0.7014	9.1515	0.0868	4.5870	0.4244	536.42	23.61	539.62	38.32	551.69	181.51	536.42	23.61
130618-02-327	0.0575	6.4284	0.6932	7.8375	0.0874	6.1917	0.6021	540.10	32.08	534.71	32.59	510.74	141.30	540.10	32.08
130618-02-330	0.0582	8.5292	0.7018	11.5145	0.0874	7.9316	0.6720	540.18	41.10	539.89	48.25	537.65	186.61	540.18	41.10

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
130618-02, LATE EOCENE, PUNO GROUP, LATITUDE: -15.676110, LONGITUDE: -70.821490 ACCEPTED															
130618-02-371	0.0561	12.4250	0.6808	15.9276	0.0880	10.0547	0.6257	543.58	52.42	527.25	65.60	456.20	275.63	543.58	52.42
130618-02-373	0.0563	13.8503	0.6869	15.2722	0.0885	6.4918	0.4214	546.53	34.02	530.91	63.22	463.27	306.87	546.53	34.02
130618-02-273	0.0707	9.1143	0.8653	10.9556	0.0887	6.6826	0.5574	547.86	35.10	633.00	51.65	948.29	186.59	547.86	35.10
130618-02-045	0.0568	14.4938	0.6962	19.3374	0.0888	12.8423	0.6620	548.60	67.54	536.50	80.76	483.74	320.06	548.60	67.54
130618-02-103	0.0596	2.8554	0.7342	4.0927	0.0893	2.4201	0.7296	551.10	12.78	559.04	17.60	589.96	61.92	551.10	12.78
130618-02-048	0.0583	11.2174	0.7198	14.5835	0.0894	9.3759	0.6390	552.12	49.61	550.55	62.05	542.46	245.22	552.12	49.61
130618-02-172	0.0599	27.8287	0.7441	28.5607	0.0900	6.5159	0.2250	555.37	34.67	564.77	124.34	600.61	602.39	555.37	34.67
130618-02-138	0.0593	4.8628	0.7435	5.9612	0.0908	3.7535	0.5805	560.43	20.15	564.46	25.82	578.97	105.65	560.43	20.15
130618-02-331	0.0567	7.8778	0.7125	9.7674	0.0911	6.0344	0.5918	562.09	32.48	546.20	41.28	479.51	174.09	562.09	32.48
130618-02-035	0.0578	9.0553	0.7277	12.5437	0.0913	8.8261	0.6921	563.22	47.60	555.21	53.70	520.71	198.69	563.22	47.60
130618-02-042	0.0593	16.8208	0.7484	19.2306	0.0915	9.3595	0.4847	564.61	50.60	567.30	83.77	576.44	365.59	564.61	50.60
130618-02-046	0.0595	5.3293	0.7520	6.5636	0.0916	3.9674	0.5841	564.73	21.45	569.41	28.61	586.53	115.63	564.73	21.45
130618-02-083	0.0635	6.1998	0.8152	6.8311	0.0931	3.5183	0.4287	573.95	19.32	605.37	31.16	723.38	131.51	573.95	19.32
130618-02-127	0.0623	10.7766	0.8006	14.4244	0.0932	9.9559	0.6652	574.14	54.69	597.16	65.21	683.89	230.07	574.14	54.69
130618-02-274	0.0598	6.6542	0.7794	8.0441	0.0945	5.3040	0.5691	581.83	29.51	585.15	35.79	596.08	144.15	581.83	29.51
130618-02-266	0.0591	4.3045	0.7727	5.0402	0.0948	2.9992	0.5249	583.78	16.74	581.32	22.31	569.56	93.67	583.78	16.74
130618-02-251	0.0588	14.0323	0.7765	19.3533	0.0957	13.2375	0.6887	589.39	74.56	583.48	86.10	558.24	305.93	589.39	74.56
130618-02-359	0.0613	12.8186	0.8114	17.2134	0.0960	11.3852	0.6674	591.09	64.31	603.26	78.45	648.48	275.27	591.09	64.31
130618-02-097	0.0634	6.7060	0.8462	7.9865	0.0967	4.3480	0.5431	595.32	24.73	622.55	37.19	721.37	142.29	595.32	24.73
130618-02-141	0.0598	6.2140	0.8077	8.5698	0.0978	5.9521	0.6887	601.75	34.20	601.18	38.90	597.20	134.59	601.75	34.20
130618-02-304	0.0614	4.3966	0.8451	7.3441	0.0997	4.6579	0.8229	612.93	27.23	621.94	34.17	653.45	94.33	612.93	27.23
130618-02-264	0.0599	7.5981	0.8332	9.2352	0.1007	4.7775	0.5710	618.69	28.18	615.41	42.65	601.22	164.45	618.69	28.18
130618-02-190	0.0647	5.4230	0.9028	7.3079	0.1010	4.7996	0.6705	620.33	28.39	653.20	35.22	766.20	114.24	620.33	28.39
130618-02-352	0.0640	7.7819	0.8922	11.6653	0.1011	8.5534	0.7451	620.63	50.61	647.56	55.91	741.87	164.57	620.63	50.61
130618-02-155	0.0607	7.8895	0.8551	10.5445	0.1020	6.7348	0.6639	626.23	40.19	627.44	49.39	629.84	169.95	626.23	40.19
130618-02-021	0.0601	4.2363	0.8517	5.8869	0.1027	4.3949	0.6962	630.04	26.38	625.59	27.50	607.67	91.59	630.04	26.38
130618-02-023	0.0621	8.2144	0.8872	11.9841	0.1034	8.8741	0.7282	634.57	53.63	644.85	57.27	679.16	175.50	634.57	53.63
130618-02-225	0.0631	5.3284	0.9024	6.0805	0.1037	4.1478	0.5112	635.89	25.12	652.99	29.29	710.14	113.27	635.89	25.12
130618-02-323	0.0628	6.1010	0.9003	7.7316	0.1039	6.3868	0.6414	637.21	38.75	651.89	37.21	702.01	129.86	637.21	38.75
130618-02-033	0.0638	4.5421	0.9298	6.0238	0.1057	4.4724	0.6618	647.62	27.56	667.51	29.48	733.57	96.19	647.62	27.56
130618-02-086	0.0630	8.5149	0.9423	11.2107	0.1083	7.8826	0.6524	663.01	49.67	674.07	55.28	709.80	181.01	663.01	49.67
130618-02-318	0.0649	6.9355	1.0210	8.3757	0.1141	4.5974	0.5608	696.52	30.35	714.40	42.99	769.84	146.02	696.52	30.35
130618-02-126	0.0670	4.9375	1.0777	6.4187	0.1165	4.9004	0.6491	710.60	32.97	742.52	33.82	838.40	102.83	710.60	32.97
130618-02-037	0.0654	7.3101	1.0815	12.6255	0.1198	10.4174	0.8154	729.27	71.83	744.36	66.70	788.36	153.45	729.27	71.83
130618-02-365	0.0654	6.0206	1.2593	7.6792	0.1397	5.5985	0.6288	842.94	44.24	827.61	43.49	785.85	126.43	785.85	126.43
130618-02-376	0.0671	13.6636	1.4201	16.7474	0.1534	9.5782	0.5783	919.73	82.10	897.40	100.11	841.78	284.41	841.78	284.41
130618-02-342	0.0686	5.5361	1.3734	8.0927	0.1452	6.5073	0.7329	874.07	53.19	877.61	47.58	885.82	114.45	885.82	114.45
130618-02-299	0.0689	7.2618	1.3437	10.2908	0.1414	7.4515	0.7087	852.49	59.50	864.85	59.98	895.17	149.91	895.17	149.91
130618-02-358	0.0700	5.0361	1.5176	7.5402	0.1573	5.3974	0.7448	941.51	47.28	937.49	46.18	927.33	103.43	927.33	103.43
130618-02-370	0.0701	5.4045	1.3153	8.8886	0.1359	7.4300	0.7950	821.65	57.32	852.47	51.32	932.68	110.91	932.68	110.91
130618-02-347	0.0714	7.1170	1.6602	8.7824	0.1685	5.1652	0.5859	1003.86	48.02	993.46	55.71	969.85	145.23	969.85	145.23
130618-02-387	0.0718	5.4611	1.5734	7.2075	0.1588	4.6592	0.6526	950.18	41.16	959.78	44.77	980.38	111.24	980.38	111.24
130618-02-218	0.0720	8.4796	1.5584	9.4999	0.1569	4.1568	0.4510	939.50	36.34	953.82	58.82	984.69	172.62	984.69	172.62
130618-02-065	0.0722	7.0742	1.6473	7.0225	0.1653	3.2711	0.2170	986.00	29.91	988.50	44.40	992.66	143.84	992.66	143.84
130618-02-346	0.0724	11.2860	1.7000	12.0986	0.1704	4.3819	0.3603	1014.04	41.12	1008.52	77.50	995.83	229.36	995.83	229.36
130618-02-295	0.0725	5.9511	1.7138	7.4016	0.1714	5.3316	0.6056	1019.98	50.30	1013.72	47.50	998.68	120.89	998.68	120.89
130618-02-335	0.0725	7.6684	1.3905	9.6274	0.1390	6.3687	0.6071	839.07	50.11	884.93	56.92	1000.58	155.73	1000.58	155.73
130618-02-356	0.0725	13.2158	1.7296	14.9160	0.1729	6.7431	0.4638	1028.05	64.08	1019.59	96.26	1000.77	268.39	1000.77	268.39
130618-02-014	0.0726	3.4056	1.6395	4.3146	0.1637	3.3703	0.6319	977.43	30.57	985.52	27.22	1001.74	69.15	1001.74	69.15
130618-02-101	0.0727	13.7391	1.7004	19.5417	0.1696	13.7977	0.7111	1009.69	128.97	1008.67	125.58	1005.04	278.84	1005.04	278.84

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
130618-02, LATE EOCENE, PUNO GROUP, LATITUDE: -15.676110, LONGITUDE: -70.821490 ACCEPTED															
130618-02-399	0.0728	14.6340	1.6640	21.1458	0.1656	15.2451	0.7218	987.94	139.66	994.90	134.90	1008.07	296.87	1008.07	296.87
130618-02-049	0.0730	7.6652	1.7039	8.5261	0.1693	4.1500	0.4403	1007.98	38.73	1010.01	54.61	1012.90	155.39	1012.90	155.39
130618-02-360	0.0731	7.3443	1.7207	9.8364	0.1707	6.6850	0.6654	1015.96	62.84	1016.28	63.25	1016.24	148.81	1016.24	148.81
130618-02-325	0.0732	5.6344	1.7731	7.2393	0.1755	6.2366	0.6596	1042.40	60.03	1035.66	47.03	1020.49	114.09	1020.49	114.09
130618-02-026	0.0733	7.9830	1.6713	8.4619	0.1653	3.4963	0.3397	986.19	31.97	997.68	53.81	1021.30	161.63	1021.30	161.63
130618-02-047	0.0733	6.8305	1.7307	8.8077	0.1711	5.6551	0.6314	1018.20	53.26	1020.01	56.74	1022.40	138.27	1022.40	138.27
130618-02-333	0.0735	4.8659	1.5350	7.4592	0.1515	5.9190	0.7587	909.32	50.20	944.52	45.89	1026.68	98.44	1026.68	98.44
130618-02-187	0.0735	5.0101	1.8146	6.8012	0.1789	4.6384	0.6763	1060.84	45.37	1050.75	44.55	1027.69	101.34	1027.69	101.34
130618-02-326	0.0735	8.7860	1.6484	11.8768	0.1626	9.0610	0.6782	971.07	81.69	988.93	75.20	1027.81	177.72	1027.81	177.72
130618-02-316	0.0735	4.2186	1.6260	5.3687	0.1603	3.1798	0.6191	958.23	28.31	980.30	33.77	1028.97	85.32	1028.97	85.32
130618-02-120	0.0736	10.5989	1.4795	14.6750	0.1456	10.3979	0.6918	876.51	85.22	922.04	89.14	1031.09	214.23	1031.09	214.23
130618-02-311	0.0737	7.7114	1.8433	11.6804	0.1814	8.0035	0.7543	1074.65	79.23	1061.04	77.04	1031.96	155.85	1031.96	155.85
130618-02-328	0.0740	10.2529	1.6717	14.2040	0.1639	10.7175	0.6947	978.24	97.28	997.82	90.48	1040.15	206.96	1040.15	206.96
130618-02-245	0.0741	8.0038	1.6867	9.7197	0.1649	5.3400	0.5677	983.83	48.72	1003.50	62.04	1044.54	161.45	1044.54	161.45
130618-02-231	0.0742	12.8337	1.6681	13.3329	0.1629	4.6566	0.2798	973.10	42.06	996.48	84.84	1046.03	258.82	1046.03	258.82
130618-02-191	0.0745	5.9630	1.7737	8.4031	0.1726	5.8390	0.7047	1026.23	55.40	1035.88	54.61	1054.12	120.11	1054.12	120.11
130618-02-303	0.0746	4.7154	1.6850	6.2454	0.1638	4.3733	0.6571	977.70	39.67	1002.89	39.82	1057.03	94.94	1057.03	94.94
130618-02-122	0.0747	7.3666	1.6790	9.3173	0.1629	6.1354	0.6139	972.89	55.41	1000.59	59.36	1060.26	148.24	1060.26	148.24
130618-02-015	0.0749	5.3135	1.8148	5.7537	0.1755	3.0353	0.4032	1042.48	29.22	1050.82	37.68	1066.37	106.83	1066.37	106.83
130618-02-246	0.0751	7.9886	1.8349	9.7034	0.1770	5.3332	0.5679	1050.60	51.70	1058.04	63.86	1071.26	160.50	1071.26	160.50
130618-02-088	0.0751	5.7369	1.7921	6.6856	0.1729	4.5547	0.5342	1028.04	43.28	1042.57	43.60	1071.81	115.25	1071.81	115.25
130618-02-213	0.0752	9.4035	1.9546	13.3736	0.1884	9.3271	0.7112	1112.57	95.32	1100.01	90.07	1073.00	188.87	1073.00	188.87
130618-02-117	0.0753	4.6659	1.6946	5.4358	0.1632	3.5834	0.5292	974.53	32.41	1006.49	34.72	1075.25	93.69	1075.25	93.69
130618-02-092	0.0756	8.5193	1.6945	11.2359	0.1625	7.9137	0.6539	970.68	71.32	1006.44	71.87	1083.80	170.84	1083.80	170.84
130618-02-093	0.0757	9.7537	1.8478	12.6693	0.1769	8.6217	0.6395	1050.05	83.55	1062.65	83.66	1087.24	195.49	1087.24	195.49
130618-02-109	0.0759	6.8650	1.7821	9.4130	0.1701	6.6474	0.6845	1012.74	62.30	1038.95	61.30	1093.08	137.47	1093.08	137.47
130618-02-364	0.0762	6.2497	1.9741	7.5280	0.1879	5.1218	0.5686	1110.03	52.23	1106.70	50.78	1099.39	125.03	1099.39	125.03
130618-02-061	0.0762	14.0091	1.5842	21.6860	0.1506	16.7435	0.7634	904.24	141.28	964.03	135.79	1101.60	280.18	1101.60	280.18
130618-02-041	0.0764	4.7237	1.8859	6.3312	0.1788	4.3003	0.6660	1060.47	42.05	1076.14	42.03	1106.49	94.40	1106.49	94.40
130618-02-175	0.0766	5.2837	1.7425	5.8090	0.1649	2.6758	0.4178	983.85	24.42	1024.40	37.49	1110.02	105.54	1110.02	105.54
130618-02-174	0.0768	6.3241	2.0171	7.1887	0.1904	3.5867	0.4760	1123.52	36.98	1121.27	48.84	1114.90	126.23	1114.90	126.23
130618-02-367	0.0768	8.6843	1.8870	11.8478	0.1782	8.5775	0.6816	1056.94	83.62	1076.53	78.79	1115.61	173.32	1115.61	173.32
130618-02-128	0.0768	9.0236	1.8637	11.0896	0.1758	6.9819	0.5831	1043.88	67.29	1068.30	73.41	1116.94	180.06	1116.94	180.06
130618-02-284	0.0769	8.5554	1.9882	10.2770	0.1873	6.4267	0.5581	1106.85	65.36	1111.51	69.54	1118.96	170.67	1118.96	170.67
130618-02-110	0.0771	5.2928	1.5949	7.7989	0.1499	5.9600	0.7350	900.43	50.09	968.21	48.71	1123.98	105.50	1123.98	105.50
130618-02-398	0.0774	5.1720	1.9533	6.1920	0.1827	3.3185	0.5500	1081.84	33.05	1099.60	41.61	1132.79	102.96	1132.79	102.96
130618-02-395	0.0776	4.5484	2.0227	6.5640	0.1889	4.6711	0.7211	1115.65	47.85	1123.16	44.63	1135.79	90.51	1135.79	90.51
130618-02-018	0.0780	8.1790	2.1769	11.4587	0.2022	8.2914	0.7007	1187.11	89.90	1173.69	79.89	1147.24	162.48	1147.24	162.48
130618-02-055	0.0782	7.0848	1.7802	9.1260	0.1649	6.2774	0.6327	984.00	57.29	1038.24	59.40	1152.85	140.62	1152.85	140.62
130618-02-165	0.0784	4.0295	1.8641	5.1539	0.1723	3.2514	0.6235	1024.62	30.80	1068.43	34.07	1157.07	79.93	1157.07	79.93
130618-02-113	0.0785	5.7695	1.9179	7.5029	0.1771	5.0713	0.6403	1051.33	49.20	1087.34	50.11	1158.75	114.42	1158.75	114.42
130618-02-224	0.0785	8.1135	2.0591	10.7074	0.1900	7.5791	0.6547	1121.60	78.03	1135.32	73.31	1159.42	160.89	1159.42	160.89
130618-02-105	0.0787	4.5278	2.0667	6.2314	0.1902	3.9484	0.6893	1122.56	40.68	1137.86	42.67	1165.75	89.70	1165.75	89.70
130618-02-024	0.0789	3.9290	2.1094	6.4729	0.1937	5.3914	0.7956	1141.18	56.39	1151.88	44.62	1170.36	77.79	1170.36	77.79
130618-02-074	0.0792	5.0023	2.0864	5.7686	0.1909	3.8349	0.5189	1126.50	39.64	1144.34	39.62	1176.98	98.94	1176.98	98.94
130618-02-309	0.0792	7.3544	2.0359	9.6657	0.1863	5.1409	0.6618	1101.36	52.05	1127.58	65.91	1177.21	145.45	1177.21	145.45
130618-02-159	0.0793	7.8073	1.8152	11.5984	0.1659	8.3656	0.7398	989.73	76.76	1050.94	76.08	1178.58	154.38	1178.58	154.38
130618-02-302	0.0793	4.0063	1.7655	6.0185	0.1613	4.7463	0.7474	964.10	42.50	1032.88	39.03	1180.21	79.20	1180.21	79.20
130618-02-115	0.0793	4.5549	1.9915	5.5874	0.1820	3.9415	0.5905	1077.63	39.11	1112.63	37.79	1180.23	90.05	1180.23	90.05
130618-02-222	0.0801	5.7667	2.3988	6.5176	0.2169	3.7252	0.4757	1265.70	42.81	1242.26	46.74	1199.61	113.68	1199.61	113.68

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
130618-02, LATE EOCENE, PUNO GROUP, LATITUDE: -15.676110, LONGITUDE: -70.821490 ACCEPTED															
130618-02-075	0.0808	7.9160	2.1512	9.2788	0.1929	5.4668	0.5256	1137.01	56.99	1165.43	64.40	1217.29	155.65	1217.29	155.65
130618-02-236	0.0815	10.1018	2.5140	12.9095	0.2234	8.9255	0.6261	1299.73	105.07	1276.09	94.05	1234.30	198.15	1234.30	198.15
130618-02-199	0.0816	8.8436	1.9609	12.0550	0.1741	7.9444	0.6799	1034.77	75.95	1102.18	81.24	1235.60	173.44	1235.60	173.44
130618-02-226	0.0824	5.5144	2.3381	6.5420	0.2056	4.5839	0.5569	1205.28	50.39	1223.96	46.56	1254.82	107.85	1254.82	107.85
130618-02-204	0.0824	7.6027	2.3352	10.3651	0.2053	6.7553	0.6803	1203.60	74.17	1223.05	73.82	1255.33	148.68	1255.33	148.68
130618-02-009	0.0825	3.1678	2.2998	4.2761	0.2020	2.8129	0.6719	1185.98	30.47	1212.21	30.27	1257.42	61.93	1257.42	61.93
130618-02-171	0.0826	3.3187	2.4552	4.5532	0.2154	3.3012	0.6858	1257.75	37.72	1258.94	32.86	1259.02	64.87	1259.02	64.87
130618-02-314	0.0827	14.7827	2.3880	23.3718	0.2093	17.7427	0.7747	1225.07	198.02	1239.02	168.81	1262.24	288.81	1262.24	288.81
130618-02-111	0.0842	4.8422	2.5688	8.0794	0.2210	6.6740	0.8009	1287.16	77.88	1291.81	59.12	1298.16	94.12	1298.16	94.12
130618-02-006	0.0843	2.2285	2.4423	3.2121	0.2100	2.2391	0.7206	1228.56	25.05	1255.15	23.14	1299.20	43.31	1299.20	43.31
130618-02-177	0.0843	14.6372	2.3194	23.2553	0.1993	18.1078	0.7771	1171.75	194.07	1218.25	166.47	1299.58	284.45	1299.58	284.45
130618-02-007	0.0843	4.2605	2.1681	7.6905	0.1863	6.3760	0.8325	1101.48	64.56	1170.88	53.49	1299.73	82.80	1299.73	82.80
130618-02-286	0.0844	9.6408	2.3385	14.2752	0.2008	10.9414	0.7380	1179.77	117.97	1224.06	101.87	1301.37	187.31	1301.37	187.31
130618-02-208	0.0845	12.6053	2.4559	19.0122	0.2107	14.0915	0.7486	1232.30	158.09	1259.16	138.03	1303.20	244.84	1303.20	244.84
130618-02-221	0.0849	6.7657	2.5640	8.3708	0.2189	5.3803	0.5911	1276.11	62.29	1290.43	61.22	1312.14	131.25	1312.14	131.25
130618-02-184	0.0849	6.1403	2.5709	9.3885	0.2195	7.1275	0.7565	1279.27	82.71	1292.41	68.74	1312.26	119.11	1312.26	119.11
130618-02-282	0.0863	5.5447	2.6965	6.5858	0.2264	4.5091	0.5550	1315.65	53.66	1327.49	48.82	1344.99	107.07	1344.99	107.07
130618-02-158	0.0864	12.3983	2.6283	16.1201	0.2203	10.1270	0.6392	1283.50	117.87	1308.59	119.11	1348.16	239.31	1348.16	239.31
130618-02-161	0.0869	6.3523	2.7430	8.6686	0.2286	5.5865	0.6815	1327.12	67.01	1340.18	64.59	1359.27	122.42	1359.27	122.42
130618-02-317	0.0871	7.3775	2.4648	13.8225	0.2052	11.6498	0.8457	1203.36	127.90	1261.78	100.17	1361.77	142.13	1361.77	142.13
130618-02-067	0.0879	9.4528	2.9180	12.0474	0.2405	8.1982	0.6226	1389.19	102.46	1386.58	91.35	1381.23	181.63	1381.23	181.63
130618-02-357	0.0882	5.1237	2.9352	8.9083	0.2412	7.1236	0.8183	1392.70	89.23	1391.04	67.57	1387.83	98.36	1387.83	98.36
130618-02-227	0.0886	5.8012	2.7718	7.2678	0.2267	5.2717	0.6128	1316.93	62.79	1347.98	54.28	1395.44	111.25	1395.44	111.25
130618-02-071	0.0911	6.1506	3.2977	7.6171	0.2624	5.1616	0.5956	1501.88	69.16	1480.51	59.41	1448.71	117.10	1448.71	117.10
130618-02-129	0.0926	4.4364	2.7799	5.3525	0.2175	4.0200	0.5839	1268.87	46.30	1350.17	39.99	1479.90	84.11	1479.90	84.11
130618-02-392	0.0932	11.3794	2.7377	14.8031	0.2128	9.4459	0.6396	1243.71	106.85	1338.76	110.53	1492.48	215.38	1492.48	215.38
130618-02-290	0.0934	13.7328	2.8683	17.6087	0.2227	11.2907	0.6261	1295.90	132.57	1373.63	133.34	1495.12	259.83	1495.12	259.83
130618-02-281	0.0938	9.0197	3.6242	12.0918	0.2800	8.5182	0.6671	1591.15	120.12	1554.85	96.52	1504.24	170.45	1504.24	170.45
130618-02-296	0.0948	4.1693	2.8962	5.4687	0.2214	4.6456	0.6712	1289.49	54.29	1380.93	41.30	1523.83	78.59	1523.83	78.59
130618-02-022	0.0952	11.3015	3.3515	18.0404	0.2552	14.1542	0.7795	1465.37	185.58	1493.14	142.00	1531.17	212.81	1531.17	212.81
130618-02-287	0.0952	8.4688	3.0672	14.3484	0.2334	11.9597	0.8077	1352.44	145.93	1424.53	110.30	1532.45	159.45	1532.45	159.45
130618-02-205	0.0957	6.2953	3.0368	8.1559	0.2298	4.7842	0.6378	1333.45	57.63	1416.91	62.38	1542.60	118.37	1542.60	118.37
130618-02-257	0.0958	10.9882	3.2684	16.2307	0.2473	11.6724	0.7362	1424.29	149.19	1473.57	126.85	1543.36	206.59	1543.36	206.59
130618-02-336	0.0958	4.9150	3.1102	6.7152	0.2353	5.2549	0.6879	1362.17	64.53	1435.21	51.64	1544.48	92.39	1544.48	92.39
130618-02-351	0.0960	3.8782	3.6218	6.8799	0.2735	5.4710	0.8266	1558.70	75.75	1554.32	54.80	1547.73	72.87	1547.73	72.87
130618-02-322	0.0983	5.9508	3.4292	7.2934	0.2530	6.0013	0.6145	1453.88	78.12	1511.10	57.40	1591.31	111.19	1591.31	111.19
130618-02-339	0.0987	10.5766	3.7185	14.6757	0.2731	10.4970	0.6936	1556.53	145.18	1575.36	117.96	1599.97	197.39	1599.97	197.39
130618-02-133	0.0991	4.5821	3.6462	6.8014	0.2665	5.2405	0.7396	1523.11	71.09	1559.69	54.25	1608.07	85.43	1608.07	85.43
130618-02-319	0.1009	10.2143	3.5748	14.3435	0.2568	10.0245	0.7021	1473.44	132.06	1543.95	114.29	1640.87	189.64	1640.87	189.64
130618-02-168	0.1016	7.9452	3.6621	9.7286	0.2612	5.6360	0.5771	1495.92	75.25	1563.14	77.75	1653.33	147.24	1653.33	147.24
130618-02-020	0.1022	10.5677	3.4796	15.8428	0.2467	11.9131	0.7451	1421.61	152.01	1522.60	125.59	1664.30	195.56	1664.30	195.56
130618-02-368	0.1030	5.0420	3.9361	8.2559	0.2770	7.1665	0.7952	1576.03	100.21	1621.14	66.94	1679.45	93.13	1679.45	93.13
130618-02-185	0.1031	6.0965	3.5141	9.5552	0.2469	7.3819	0.7700	1422.55	94.24	1530.39	75.67	1680.85	112.59	1680.85	112.59
130618-02-334	0.1034	7.7487	4.1305	12.8700	0.2897	10.5959	0.7988	1639.79	153.44	1660.36	105.59	1685.74	143.01	1685.74	143.01
130618-02-160	0.1036	12.7003	4.0222	16.5295	0.2813	10.4087	0.6401	1597.92	147.34	1638.69	135.21	1689.67	234.28	1689.67	234.28
130618-02-280	0.1042	9.9636	4.3313	13.0950	0.3013	8.9391	0.6497	1697.61	133.43	1699.34	108.43	1699.86	183.56	1699.86	183.56
130618-02-179	0.1045	8.6727	3.4638	13.6832	0.2402	10.5954	0.7735	1387.79	132.31	1519.02	108.22	1705.12	159.68	1705.12	159.68
130618-02-043	0.1046	6.1391	4.5917	8.5363	0.3182	5.9917	0.6949	1781.10	93.25	1747.77	71.29	1706.72	113.01	1706.72	113.01
130618-02-079	0.1059	4.4829	4.0519	5.7356	0.2773	4.1173	0.6299	1577.70	57.62	1644.69	46.74	1730.16	82.28	1730.16	82.28
130618-02-166	0.1061	5.5221	4.4770	7.8940	0.3059	5.6627	0.7146	1720.40	85.51	1726.72	65.61	1732.60	101.32	1732.60	101.32

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
130618-02, LATE EOCENE, PUNO GROUP, LATITUDE: -15.676110, LONGITUDE: -70.821490 ACCEPTED															
130618-02-329	0.1061	8.0009	3.7745	11.1226	0.2578	8.8279	0.7008	1478.49	116.65	1587.33	89.51	1734.25	146.78	1734.25	146.78
130618-02-313	0.1067	5.5906	4.7263	8.7223	0.3210	5.6492	0.7787	1794.69	88.50	1771.92	73.23	1744.14	102.43	1744.14	102.43
130618-02-068	0.1074	8.2082	3.7177	8.7340	0.2508	4.5097	0.3713	1442.74	58.30	1575.19	70.00	1756.19	150.17	1756.19	150.17
130618-02-085	0.1078	8.4256	4.2466	11.2350	0.2856	8.0121	0.6634	1619.31	114.74	1683.09	92.59	1762.29	154.03	1762.29	154.03
130618-02-217	0.1081	6.0333	4.0161	9.4422	0.2692	7.1895	0.7693	1536.76	98.31	1637.45	76.91	1767.22	110.23	1767.22	110.23
130618-02-003	0.1081	8.8569	4.5530	12.4410	0.3052	8.7175	0.7023	1717.15	131.43	1740.71	103.94	1767.39	161.82	1767.39	161.82
130618-02-276	0.1098	10.8057	4.1741	14.5485	0.2756	10.1291	0.6701	1568.93	141.08	1668.96	119.72	1795.52	196.75	1795.52	196.75
130618-02-332	0.1109	7.6120	5.3341	10.7448	0.3486	7.7833	0.7060	1927.73	129.70	1874.34	92.13	1814.91	138.25	1814.91	138.25
130618-02-400	0.1111	3.9521	4.7646	5.6968	0.3108	4.0318	0.7203	1744.45	61.62	1778.69	47.85	1817.07	71.76	1817.07	71.76
130618-02-372	0.1125	4.7946	5.3674	6.7775	0.3458	4.9035	0.7070	1914.46	81.22	1879.67	58.07	1840.61	86.82	1840.61	86.82
130618-02-107	0.1154	6.5996	4.9938	9.3531	0.3136	6.4176	0.7090	1758.43	98.78	1818.27	79.29	1886.26	118.81	1886.26	118.81
130618-02-271	0.1179	10.9934	5.6172	15.1380	0.3453	10.7707	0.6879	1912.29	178.27	1918.75	131.21	1924.05	197.05	1924.05	197.05
130618-02-361	0.1187	4.7340	5.8920	6.8042	0.3599	5.0753	0.7188	1981.79	86.60	1960.05	59.13	1936.52	84.73	1936.52	84.73
130618-02-182	0.1193	9.3778	6.0646	13.1237	0.3682	9.1944	0.6996	2020.90	159.54	1985.18	114.88	1946.30	167.66	1946.30	167.66
130618-02-192	0.1280	2.6206	6.4710	3.9757	0.3662	2.8245	0.7532	2011.34	48.80	2041.97	34.98	2071.14	46.18	2071.14	46.18
130618-02-291	0.1280	4.3619	6.2283	6.0687	0.3525	4.8792	0.7026	1946.59	81.98	2008.43	53.14	2071.28	76.86	2071.28	76.86
130618-02-028	0.1302	6.1179	6.5192	8.3973	0.3628	6.1183	0.6863	1995.38	105.00	2048.49	74.06	2100.92	107.43	2100.92	107.43
130618-02-252	0.1314	4.4946	6.7445	6.5709	0.3720	4.5344	0.7306	2038.68	79.25	2078.47	58.17	2116.28	78.79	2116.28	78.79
130618-02-384	0.1325	5.5804	5.9824	10.1600	0.3272	8.3692	0.8357	1824.77	133.03	1973.29	88.61	2131.64	97.65	2131.64	97.65
130618-02-354	0.1437	8.3639	8.4358	14.6875	0.4256	11.9753	0.8220	2286.02	230.58	2279.03	134.10	2272.18	144.11	2272.18	144.11
130618-02-369	0.1740	5.0830	12.4697	9.4998	0.5194	8.5458	0.8465	2696.63	188.37	2640.44	89.53	2596.96	84.74	2596.96	84.74
130618-02-324	0.1766	4.3868	10.9071	5.7809	0.4478	5.6929	0.7077	2385.27	113.51	2515.24	53.82	2621.06	72.96	2621.06	72.96
130618-02-378	0.1767	6.5174	11.8013	9.8831	0.4842	7.2910	0.7519	2545.56	153.36	2588.76	92.77	2621.87	108.39	2621.87	108.39
130618-02-173	0.1813	6.6766	12.1809	9.1490	0.4867	6.3489	0.6838	2556.26	134.00	2618.43	86.06	2665.20	110.58	2665.20	110.58
130618-02-385	0.1980	5.3906	11.6717	7.2728	0.4273	4.8394	0.6713	2293.75	93.41	2578.44	68.12	2809.39	88.11	2809.39	88.11
130618-02-214	0.2199	4.0013	17.3117	5.8821	0.5703	4.1862	0.7333	2909.26	98.02	2952.27	56.52	2979.89	64.42	2979.89	64.42
130618-02-154	0.2739	3.0430	22.5745	4.3118	0.5973	2.3973	0.7294	3018.97	57.79	3208.78	41.95	3328.24	47.65	3328.24	47.65
130618-02, LATE EOCENE, PUNO GROUP, LATITUDE: -15.676110, LONGITUDE: -70.821490 REJECTED															
130618-02-142	0.0315	250.2667	0.0193	250.8164	0.0044	16.6142	0.0662	28.58	4.74	19.40	48.24	0.00	6032.55	28.58	4.74
130618-02-275	-0.0782	156.0352	-0.0519	159.9201	0.0048	35.1447	0.2191	30.89	10.83	0.00	0.00	0.00	3761.15	30.89	10.83
130618-02-301	0.4129	120.9769	0.2986	143.6970	0.0052	77.5615	0.5397	33.70	26.07	265.31	348.58	3956.79	1813.80	33.70	26.07
130618-02-060	0.0946	93.9750	0.0760	96.0685	0.0058	20.1044	0.2076	37.45	7.51	74.42	69.04	1520.21	1772.16	37.45	7.51
130618-02-063	0.0611	84.5092	0.0495	85.7987	0.0059	15.0310	0.1727	37.72	5.65	49.06	41.12	644.25	1816.02	37.72	5.65
130618-02-200	0.0639	9.6876	0.0522	11.2017	0.0059	5.2562	0.5032	38.08	2.00	51.68	5.64	736.80	205.04	38.08	2.00
130618-02-144	-0.0095	1129.4117	-0.0078	1129.6809	0.0059	24.6758	0.0218	38.23	9.41	0.00	0.00	0.00	27223.89	38.23	9.41
130618-02-238	0.0757	52.2734	0.0629	54.6257	0.0060	16.3255	0.2904	38.66	6.29	61.92	32.83	1088.10	1047.56	38.66	6.29
130618-02-307	0.0535	48.2932	0.0445	51.2040	0.0060	16.6346	0.3324	38.76	6.43	44.19	22.15	348.27	1091.93	38.76	6.43
130618-02-013	0.0565	172.7224	0.0473	174.0057	0.0061	21.1332	0.1212	38.96	8.21	46.91	79.94	473.15	3820.27	38.96	8.21
130618-02-146	0.1085	21.9731	0.0940	23.2738	0.0063	7.4719	0.3297	40.37	3.01	91.26	20.32	1774.08	401.13	40.37	3.01
130618-02-121	0.0568	37.0956	0.0507	40.2840	0.0065	15.8686	0.3899	41.59	6.58	50.21	19.74	482.28	819.37	41.59	6.58
130618-02-265	0.0557	72.6067	0.0498	75.0583	0.0065	18.9021	0.2535	41.60	7.84	49.34	36.16	441.50	1614.80	41.60	7.84
130618-02-298	0.0386	200.8405	0.0348	201.5415	0.0065	17.0631	0.0833	42.00	7.14	34.72	68.89	0.00	4841.16	42.00	7.14
130618-02-397	0.0035	2367.9176	0.0032	2368.0046	0.0066	20.2825	0.0086	42.61	8.61	3.26	77.22	0.00	57077.45	42.61	8.61
130618-02-237	0.1096	134.5104	0.1004	138.3305	0.0066	32.5168	0.2334	42.64	13.82	97.13	128.82	1792.34	2450.10	42.64	13.82
130618-02-131	0.0650	193.6630	0.0613	195.6786	0.0068	28.0523	0.1432	43.91	12.28	60.44	115.31	775.36	4073.66	43.91	12.28
130618-02-353	0.0544	29.2970	0.0761	36.0123	0.0101	20.8858	0.5815	64.99	13.51	74.46	25.86	389.24	657.60	64.99	13.51
130618-02-315	0.0494	15.6686	0.1098	22.4154	0.0161	16.0010	0.7151	102.99	16.35	105.76	22.52	167.27	366.05	102.99	16.35
130618-02-260	0.1679	29.6080	0.3753	31.9381	0.0162	11.7760	0.3750	103.58	12.10	323.60	88.73	2536.80	496.54	103.58	12.10
130618-02-219	0.3673	10.7914	1.0541	12.2038	0.0208	6.0937	0.4680	132.66	8.00	730.90	63.67	3780.14	163.64	132.66	8.00

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
130618-02, LATE EOCENE, PUNO GROUP, LATITUDE: -15.676110, LONGITUDE: -70.821490 REJECTED															
130618-02-183	0.1212	8.1604	0.3569	9.6634	0.0213	5.1998	0.5356	136.10	7.00	309.88	25.81	1973.63	145.44	136.10	7.00
130618-02-229	0.1986	19.3046	0.5936	21.7698	0.0217	10.4824	0.4626	138.09	14.32	473.15	82.52	2814.75	315.38	138.09	14.32
130618-02-010	0.0587	17.1282	0.2166	23.2523	0.0267	15.7297	0.6763	169.95	26.38	199.06	42.06	557.62	373.47	169.95	26.38
130618-02-338	0.0432	38.7702	0.1813	44.6137	0.0305	22.2245	0.4948	193.39	42.34	169.16	69.63	0.00	934.54	193.39	42.34
130618-02-176	0.0790	10.8355	0.3354	12.6531	0.0307	6.6351	0.5164	195.18	12.76	293.66	32.28	1173.24	214.43	195.18	12.76
130618-02-256	0.0502	27.4153	0.2247	39.0341	0.0324	27.6696	0.7118	205.66	56.01	205.79	72.83	204.79	636.08	205.66	56.01
130618-02-341	0.0588	28.5423	0.3673	32.3098	0.0453	15.3871	0.4687	285.71	43.00	317.68	88.36	558.44	622.25	285.71	43.00
130618-02-054	0.0607	18.0465	0.6409	23.4516	0.0765	15.0858	0.6386	475.42	69.14	502.85	93.27	628.11	388.84	475.42	69.14
130618-02-270	0.0679	28.6467	0.8047	34.0918	0.0859	18.6901	0.5422	531.19	95.31	599.48	155.56	865.03	594.13	531.19	95.31
130618-02-080	0.1001	22.9391	1.2964	28.4445	0.0938	16.9422	0.5913	578.22	93.71	844.13	164.47	1626.41	426.67	578.22	93.71
130618-02-116	0.0685	23.4664	0.8913	27.9432	0.0942	15.3367	0.5429	580.59	85.16	647.07	134.49	884.96	485.20	580.59	85.16
130618-02-235	0.0616	18.7271	0.8114	26.6435	0.0955	19.1780	0.7114	587.86	107.76	603.24	121.76	659.07	401.44	587.86	107.76
130618-02-005	0.0690	7.8375	0.9584	9.1774	0.1006	4.7392	0.5203	617.89	27.92	682.46	45.63	899.74	161.68	617.89	27.92
130618-02-137	0.0755	17.1040	1.0687	18.0894	0.1026	6.0726	0.3257	629.69	36.43	738.09	95.16	1081.14	343.12	629.69	36.43
130618-02-150	0.0664	14.5670	0.9496	17.4347	0.1037	9.4414	0.5495	636.00	57.18	677.91	86.44	817.84	304.36	636.00	57.18
130618-02-345	0.0705	6.7338	1.0090	8.6297	0.1037	5.4157	0.6254	636.22	32.81	708.39	44.04	943.74	137.95	636.22	32.81
130618-02-156	0.0664	20.3616	0.9702	26.5831	0.1059	16.9848	0.6429	648.80	104.84	688.58	133.69	818.90	425.35	648.80	104.84
130618-02-234	0.0669	10.0600	0.9873	14.1803	0.1069	10.4163	0.7054	654.76	64.86	697.34	71.65	834.81	209.63	654.76	64.86
130618-02-248	0.0819	45.8570	1.2101	49.4924	0.1071	18.5672	0.3762	655.86	115.80	805.24	282.20	1242.22	898.47	655.86	115.80
130618-02-321	0.0595	7.9396	0.8892	10.2836	0.1083	7.8070	0.6456	662.74	49.17	645.94	49.19	586.53	172.27	662.74	49.17
130618-02-064	0.0704	8.6349	1.0630	10.1391	0.1094	5.8783	0.5268	669.51	37.38	735.31	53.10	939.98	177.00	669.51	37.38
130618-02-267	0.0622	32.2371	1.1852	32.9671	0.1380	7.0514	0.2093	833.14	55.11	793.74	183.53	682.56	688.37	682.56	688.37
130618-02-090	0.0691	13.4189	1.0980	17.9929	0.1151	12.3547	0.6665	702.50	82.23	752.38	95.90	902.31	276.71	702.50	82.23
130618-02-132	0.0552	49.6308	0.8810	51.7098	0.1156	14.5905	0.2807	705.08	97.46	641.51	250.90	421.79	1107.63	705.08	97.46
130618-02-027	0.0848	6.8752	1.3884	8.9402	0.1186	6.0833	0.6405	722.53	41.58	884.00	52.82	1311.59	133.38	722.53	41.58
130618-02-030	0.0670	16.3620	1.1244	17.5092	0.1216	6.5733	0.3565	739.64	45.93	765.07	94.37	838.35	340.76	739.64	45.93
130618-02-247	0.1205	29.0716	2.0660	35.4851	0.1243	20.3011	0.5734	755.05	144.67	1137.60	247.58	1962.94	518.77	755.05	144.67
130618-02-383	0.0623	15.5458	1.0884	20.2755	0.1267	12.9377	0.6420	768.81	93.77	747.70	107.69	683.69	331.89	768.81	93.77
130618-02-125	0.0774	11.9408	1.3925	15.7316	0.1305	10.5875	0.6514	790.49	78.77	885.74	93.23	1130.24	237.80	790.49	78.77
130618-02-277	0.0672	27.2722	1.6509	32.4703	0.1781	17.8394	0.5428	1056.49	173.88	989.91	208.20	843.26	567.55	843.26	567.55
130618-02-350	0.0675	14.8224	1.6832	16.1585	0.1808	6.2477	0.3983	1071.53	61.68	1002.20	103.28	852.76	308.00	852.76	308.00
130618-02-285	0.0705	11.4087	1.7087	14.3355	0.1756	9.1776	0.6065	1043.07	88.39	1011.81	92.07	943.03	233.75	943.03	233.75
130618-02-386	0.0744	15.3721	2.0314	19.8704	0.1980	12.5744	0.6337	1164.38	133.97	1126.09	136.01	1051.56	309.75	1051.56	309.75
130618-02-379	0.0754	15.0487	1.5187	18.8620	0.1461	11.2814	0.6029	878.79	92.69	937.96	115.98	1078.56	302.01	1078.56	302.01
130618-02-240	0.0766	15.9405	1.9409	22.1336	0.1835	15.2938	0.6938	1086.14	152.90	1095.30	149.39	1111.34	318.34	1111.34	318.34
130618-02-344	0.0767	16.3807	1.8601	21.5884	0.1759	14.0689	0.6514	1044.34	135.66	1067.01	143.51	1112.93	327.06	1112.93	327.06
130618-02-210	0.0775	3.7343	1.5060	6.0364	0.1408	4.3656	0.7884	849.40	34.74	932.83	36.85	1133.25	74.34	1133.25	74.34
130618-02-072	0.0783	6.3773	1.6252	8.1825	0.1505	5.7214	0.6303	903.51	48.24	980.01	51.48	1154.26	126.56	1154.26	126.56
130618-02-108	0.0785	22.2407	2.0831	31.1091	0.1924	21.6885	0.6992	1134.42	225.70	1143.26	216.65	1158.66	441.07	1158.66	441.07
130618-02-249	0.0791	6.5097	2.4232	8.2532	0.2221	4.8297	0.6155	1292.86	56.58	1249.50	59.39	1173.42	128.82	1173.42	128.82
130618-02-157	0.0800	15.6173	1.9737	19.9098	0.1787	12.2031	0.6203	1059.92	119.28	1106.56	134.97	1197.60	307.96	1197.60	307.96
130618-02-261	0.0844	17.3108	2.5560	24.9264	0.2194	17.8026	0.7195	1278.71	206.56	1288.14	183.91	1301.95	336.30	1301.95	336.30
130618-02-393	0.0854	18.0962	2.6507	27.1571	0.2249	20.2390	0.7456	1307.57	239.64	1314.85	202.87	1324.96	350.42	1324.96	350.42
130618-02-239	0.0859	5.9581	2.1258	7.3527	0.1793	4.0827	0.5868	1062.99	40.01	1157.21	50.82	1336.08	115.20	1336.08	115.20
130618-02-058	0.0866	7.0797	1.7993	9.0467	0.1506	6.1674	0.6251	904.23	52.03	1045.21	59.11	1351.63	136.59	1351.63	136.59
130618-02-130	0.0964	15.0276	3.3459	21.4044	0.2516	15.3140	0.7121	1446.60	198.50	1491.85	168.87	1555.27	282.09	1555.27	282.09
130618-02-197	0.0982	5.9078	2.0595	8.2776	0.1520	5.4422	0.7019	911.98	46.28	1135.45	56.64	1589.89	110.40	1589.89	110.40
130618-02-106	0.1015	7.1349	2.6166	14.0100	0.1869	11.9430	0.8606	1104.54	121.25	1305.30	103.28	1651.13	132.26	1651.13	132.26
130618-02-202	0.1025	26.8656	1.9861	28.1951	0.1403	8.3190	0.3036	846.53	66.00	1110.80	192.70	1670.48	496.78	1670.48	496.78
130618-02-082	0.1089	17.9280	3.2729	28.6611	0.2179	22.4544	0.7802	1270.62	259.09	1474.64	226.60	1780.73	327.02	1780.73	327.02

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
130618-02, LATE EOCENE, PUNO GROUP, LATITUDE: -15.676110, LONGITUDE: -70.821490 REJECTED															
130618-02-297	0.1090	10.1726	3.7150	14.9012	0.2471	11.2970	0.7312	1423.46	144.32	1574.61	119.77	1782.16	185.52	1782.16	185.52
130618-02-194	0.1133	17.5217	4.6259	25.2117	0.2959	18.1014	0.7190	1670.85	266.58	1753.96	213.59	1852.50	316.68	1852.50	316.68
130618-02-008	0.1213	16.6396	5.5830	23.7242	0.3335	16.9005	0.7128	1855.35	272.64	1913.48	207.12	1975.43	296.51	1975.43	296.51
130618-02-078	0.1237	5.1829	4.5263	5.8334	0.2653	3.6903	0.4827	1516.74	49.88	1735.82	48.55	2009.86	91.98	2009.86	91.98
130618-02-123	0.1272	7.9271	4.6773	10.0935	0.2664	6.6438	0.6202	1522.56	90.10	1763.19	84.63	2060.13	139.85	2060.13	139.85
130618-02-381	0.1886	3.4118	10.3667	5.3341	0.3984	3.8433	0.7703	2161.73	70.59	2468.08	49.44	2730.00	56.17	2730.00	56.17
130618-02-147	0.2265	23.7364	15.1996	32.3935	0.4862	21.9750	0.6805	2554.27	464.24	2827.83	318.68	3027.70	380.66	3027.70	380.66
130618-02-124	0.2994	19.9180	20.2262	24.1948	0.4895	13.9197	0.5677	2568.56	295.10	3102.24	238.38	3467.35	308.54	3467.35	308.54
140816-03, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.866050, LONGITUDE: -69.941640 ACCEPTED															
140816-03-211	0.0681	35.7685	0.0750	37.0471	0.0080	9.6559	0.2605	51.18	4.92	73.40	26.24	872.92	740.93	51.18	4.92
140816-03-271	0.0716	42.3428	0.1042	43.8430	0.0105	11.5385	0.2594	67.57	7.76	100.61	42.02	975.91	863.29	67.57	7.76
140816-03-105	0.0526	46.9139	0.0821	47.8771	0.0113	9.7656	0.1996	72.52	7.04	80.10	36.89	310.30	1067.76	72.52	7.04
140816-03-161	0.0707	34.2858	0.1126	35.0689	0.0115	7.2684	0.2102	73.98	5.35	108.36	36.06	948.48	701.90	73.98	5.35
140816-03-345	0.0411	51.6682	0.0656	52.2613	0.0116	7.6182	0.1503	74.09	5.61	64.47	32.66	0.00	1245.44	74.09	5.61
140816-03-281	0.0523	51.1391	0.0836	52.4578	0.0116	11.7380	0.2228	74.27	8.67	81.49	41.10	297.24	1166.67	74.27	8.67
140816-03-305	0.0416	42.8973	0.0668	43.4058	0.0116	6.8661	0.1527	74.59	5.09	65.70	27.62	0.00	1034.02	74.59	5.09
140816-03-240	0.0491	29.1845	0.0792	30.6269	0.0117	9.3370	0.3033	74.91	6.95	77.44	22.84	154.33	683.44	74.91	6.95
140816-03-020	0.0457	47.7740	0.0739	48.4846	0.0117	8.2321	0.1706	75.11	6.15	72.35	33.87	0.00	1151.57	75.11	6.15
140816-03-037	0.0759	31.4586	0.1230	33.6931	0.0118	12.0252	0.3581	75.31	9.00	117.83	37.50	1091.95	630.07	75.31	9.00
140816-03-034	0.0463	43.1456	0.0759	44.4156	0.0119	10.4985	0.2374	76.10	7.94	74.27	31.82	13.82	1037.27	76.10	7.94
140816-03-067	0.0641	43.5372	0.1056	45.0042	0.0119	11.4455	0.2532	76.48	8.70	101.95	43.68	746.25	920.08	76.48	8.70
140816-03-327	0.0446	41.2233	0.0737	41.9299	0.0120	7.4810	0.1829	76.69	5.70	72.16	29.22	0.00	993.67	76.69	5.70
140816-03-304	0.0392	55.8645	0.0649	56.9164	0.0120	11.0404	0.1914	76.90	8.44	63.80	35.21	0.00	1346.59	76.90	8.44
140816-03-014	0.0697	25.2985	0.1156	26.3442	0.0120	7.3459	0.2789	76.99	5.62	111.07	27.72	919.97	520.15	76.99	5.62
140816-03-179	0.0561	35.5986	0.0932	38.2485	0.0120	13.8308	0.3658	77.11	10.60	90.52	33.14	457.98	789.45	77.11	10.60
140816-03-088	0.0507	20.6872	0.0842	21.6146	0.0120	6.5840	0.2901	77.15	5.05	82.09	17.05	226.54	478.07	77.15	5.05
140816-03-219	0.0427	40.0515	0.0710	40.5466	0.0121	6.0362	0.1560	77.28	4.64	69.68	27.31	0.00	965.42	77.28	4.64
140816-03-343	0.0649	27.3137	0.1083	29.3470	0.0121	10.6279	0.3658	77.53	8.19	104.45	29.14	770.05	575.03	77.53	8.19
140816-03-258	0.0587	29.6681	0.0982	30.4910	0.0121	7.0908	0.2308	77.63	5.47	95.11	27.69	557.76	646.87	77.63	5.47
140816-03-149	0.0457	59.6594	0.0764	60.2094	0.0121	8.2624	0.1349	77.64	6.38	74.76	43.42	0.00	1438.06	77.64	6.38
140816-03-143	0.0440	40.8198	0.0744	41.3469	0.0123	6.6505	0.1592	78.49	5.19	72.87	29.08	0.00	983.94	78.49	5.19
140816-03-085	0.0481	30.0650	0.0817	32.5411	0.0123	12.6151	0.3826	78.84	9.89	79.77	24.97	105.86	710.40	78.84	9.89
140816-03-302	0.0739	33.6349	0.1254	34.7140	0.0123	8.7358	0.2474	78.86	6.85	119.97	39.30	1037.50	679.19	78.86	6.85
140816-03-341	0.0604	69.2295	0.1030	70.2727	0.0123	11.9694	0.1717	79.08	9.41	99.52	66.72	619.26	1493.88	79.08	9.41
140816-03-175	0.0538	10.5235	0.0919	14.5492	0.0124	9.8254	0.6907	79.35	7.75	89.30	12.44	361.80	237.37	79.35	7.75
140816-03-126	0.0428	45.1468	0.0739	45.7892	0.0125	7.7795	0.1670	80.10	6.19	72.41	32.01	0.00	1088.24	80.10	6.19
140816-03-286	0.0695	28.5341	0.1215	30.6095	0.0127	11.2035	0.3620	81.15	9.03	116.39	33.67	913.57	587.25	81.15	9.03
140816-03-232	0.0935	45.3056	0.1646	46.8056	0.0128	11.8167	0.2511	81.70	9.59	154.76	67.28	1498.96	856.76	81.70	9.59
140816-03-220	0.0583	15.8047	0.1034	16.5788	0.0129	5.0015	0.3020	82.38	4.09	99.92	15.78	539.73	345.66	82.38	4.09
140816-03-009	0.0630	26.4037	0.1141	28.8052	0.0131	11.4790	0.3997	84.03	9.58	109.72	29.97	708.65	561.41	84.03	9.58
140816-03-026	0.0620	33.5426	0.1144	34.5994	0.0134	8.4345	0.2453	85.59	7.17	109.99	36.08	675.09	717.13	85.59	7.17
140816-03-233	0.1267	42.9491	0.2528	44.6842	0.0145	12.3900	0.2760	92.51	11.38	228.84	91.80	2053.33	758.34	92.51	11.38
140816-03-032	0.0494	8.0169	0.0991	9.9844	0.0145	5.8555	0.5961	93.00	5.41	95.90	9.14	166.98	187.30	93.00	5.41
140816-03-183	0.0518	31.6322	0.1243	33.0126	0.0174	9.4264	0.2861	110.99	10.37	118.94	37.07	278.60	724.09	110.99	10.37
140816-03-189	0.0426	16.2324	0.1209	19.5118	0.0206	10.9836	0.5549	131.19	14.26	115.91	21.38	0.00	391.27	131.19	14.26
140816-03-174	0.0598	24.4860	0.1888	25.3111	0.0229	6.2023	0.2534	145.80	8.94	175.65	40.85	596.70	530.38	145.80	8.94
140816-03-017	0.0534	7.7779	0.1690	8.7242	0.0229	3.9465	0.4530	146.24	5.71	158.55	12.81	344.50	175.98	146.24	5.71
140816-03-188	0.0562	13.2884	0.1788	14.0354	0.0230	4.8817	0.3229	146.81	7.09	166.99	21.62	461.19	294.52	146.81	7.09
140816-03-328	0.0346	56.4496	0.1103	56.9320	0.0231	7.2044	0.1299	147.06	10.48	106.25	57.49	0.00	1360.69	147.06	10.48

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
140816-03, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.866050, LONGITUDE: -69.941640 ACCEPTED															
140816-03-273	0.0472	77.6479	0.1515	78.1475	0.0233	9.0370	0.1129	148.22	13.24	143.25	104.78	60.20	1850.48	148.22	13.24
140816-03-322	0.0483	13.2815	0.1559	15.5305	0.0234	7.9836	0.5183	149.01	11.76	147.08	21.27	114.06	313.34	149.01	11.76
140816-03-202	0.0497	16.2736	0.1608	19.1284	0.0234	10.1278	0.5256	149.21	14.94	151.38	26.91	183.17	379.07	149.21	14.94
140816-03-115	0.0606	10.4710	0.1967	11.7769	0.0235	5.5821	0.4580	149.96	8.27	182.35	19.66	623.75	225.78	149.96	8.27
140816-03-046	0.0482	22.1944	0.1566	22.7370	0.0235	5.0365	0.2172	149.96	7.47	147.72	31.27	110.17	524.01	149.96	7.47
140816-03-315	0.0526	39.1045	0.1709	39.6142	0.0235	6.3031	0.1599	150.03	9.35	160.20	58.77	311.59	889.81	150.03	9.35
140816-03-280	0.0471	14.9845	0.1531	17.1364	0.0236	8.3839	0.4852	150.08	12.44	144.63	23.10	54.78	357.47	150.08	12.44
140816-03-193	0.0496	8.6061	0.1617	10.1830	0.0236	5.7487	0.5353	150.66	8.56	152.22	14.40	174.07	200.80	150.66	8.56
140816-03-022	0.0640	35.1229	0.2092	36.0959	0.0237	8.2866	0.2306	151.01	12.37	192.91	63.50	740.63	742.93	151.01	12.37
140816-03-261	0.0548	15.1423	0.1817	15.7852	0.0240	4.7817	0.2832	153.09	7.23	169.56	24.65	404.64	338.96	153.09	7.23
140816-03-079	0.0653	87.8848	0.2202	88.6452	0.0244	11.6723	0.1307	155.55	17.94	202.05	163.82	785.06	1845.78	155.55	17.94
140816-03-075	0.0630	14.5378	0.2188	15.4094	0.0252	5.3017	0.3318	160.27	8.39	200.94	28.10	708.27	309.13	160.27	8.39
140816-03-057	0.0729	20.7026	0.2690	21.8435	0.0267	6.9626	0.3190	170.05	11.69	241.86	47.04	1011.84	419.74	170.05	11.69
140816-03-340	0.0680	10.6646	0.2564	12.1809	0.0273	5.6912	0.4835	173.76	9.76	231.75	25.24	868.08	221.08	173.76	9.76
140816-03-064	0.0643	21.6428	0.3033	26.0137	0.0342	14.4711	0.5548	216.57	30.82	268.99	61.55	752.87	456.90	216.57	30.82
140816-03-114	0.0538	12.3320	0.2698	14.9556	0.0363	8.5849	0.5658	230.08	19.40	242.54	32.28	362.75	278.11	230.08	19.40
140816-03-132	0.0512	60.7844	0.9916	61.4690	0.1403	9.1540	0.1488	846.27	72.60	699.55	321.05	250.35	1398.57	250.35	1398.57
140816-03-267	0.0635	6.6769	0.3510	9.3651	0.0401	7.0031	0.7027	253.17	17.39	305.44	24.71	725.37	141.58	253.17	17.39
140816-03-224	0.0544	16.6102	0.3028	18.8976	0.0403	9.0932	0.4769	254.75	22.71	268.60	44.63	389.23	372.83	254.75	22.71
140816-03-325	0.0511	7.7829	0.2859	9.6524	0.0406	5.4596	0.5921	256.32	13.72	255.36	21.80	244.48	179.27	256.32	13.72
140816-03-321	0.0646	14.7192	0.3684	16.8063	0.0413	8.0458	0.4827	260.91	20.57	318.47	45.97	762.50	310.25	260.91	20.57
140816-03-051	0.0616	7.5014	0.3551	8.9331	0.0418	4.8867	0.5430	263.70	12.63	308.54	23.77	661.41	160.74	263.70	12.63
140816-03-241	0.0557	16.1146	0.3237	17.3260	0.0421	6.4354	0.3674	266.04	16.77	284.76	43.05	439.71	358.51	266.04	16.77
140816-03-203	0.0487	133.5487	0.2853	133.9839	0.0425	10.8599	0.0805	268.11	28.52	254.83	311.37	132.06	3140.27	268.11	28.52
140816-03-296	0.0510	6.9117	0.3072	7.8178	0.0436	4.0919	0.4703	275.23	11.03	271.98	18.66	242.75	159.25	275.23	11.03
140816-03-218	0.0556	13.2201	0.3353	17.7950	0.0437	11.7654	0.6694	275.64	31.75	293.60	45.40	436.99	294.25	275.64	31.75
140816-03-028	0.0568	10.5725	0.3709	13.7562	0.0473	8.7512	0.6398	298.00	25.49	320.31	37.81	484.02	233.46	298.00	25.49
140816-03-313	0.0535	11.9962	0.3551	15.2534	0.0482	9.4896	0.6177	303.17	28.10	308.58	40.61	348.00	271.25	303.17	28.10
140816-03-154	0.0559	8.6098	0.3927	9.7552	0.0509	4.2612	0.4714	320.11	13.31	336.35	27.94	447.65	191.28	320.11	13.31
140816-03-231	0.0551	5.1451	0.4357	6.7248	0.0573	4.4963	0.6444	359.13	15.71	367.21	20.73	416.79	114.93	359.13	15.71
140816-03-041	0.0576	7.8188	0.5196	9.9734	0.0653	6.2103	0.6208	407.95	24.55	424.87	34.64	516.07	171.70	407.95	24.55
140816-03-222	0.0562	5.5179	0.5661	7.4220	0.0729	4.9584	0.6688	453.88	21.73	455.49	27.25	461.70	122.29	453.88	21.73
140816-03-283	0.0572	7.6979	0.5765	10.7203	0.0730	7.5390	0.6960	454.31	33.07	462.18	39.82	500.19	169.51	454.31	33.07
140816-03-282	0.0620	7.8494	0.6336	8.7973	0.0741	4.1170	0.4518	460.74	18.31	498.35	34.66	673.78	167.85	460.74	18.31
140816-03-169	0.0593	12.1325	0.6254	16.8608	0.0764	11.7078	0.6944	474.81	53.59	493.25	65.97	577.38	263.65	474.81	53.59
140816-03-180	0.0606	13.1976	0.6405	17.8559	0.0766	12.0117	0.6736	475.73	55.09	502.64	70.91	624.72	284.53	475.73	55.09
140816-03-089	0.0602	21.9057	0.6501	22.5996	0.0783	5.9163	0.2464	485.77	27.68	508.56	90.65	610.62	473.38	485.77	27.68
140816-03-226	0.0869	9.0972	0.9399	14.7190	0.0784	11.6342	0.7861	486.66	54.54	672.83	72.53	1357.35	175.37	486.66	54.54
140816-03-347	0.0621	7.2509	0.6863	8.9324	0.0801	4.8590	0.5855	496.53	23.22	530.59	36.93	677.14	154.97	496.53	23.22
140816-03-344	0.0711	4.6503	0.7987	6.5617	0.0814	4.2224	0.7085	504.33	20.48	596.07	29.59	960.10	95.04	504.33	20.48
140816-03-050	0.0837	15.6839	0.9451	17.7304	0.0818	8.2906	0.4664	507.08	40.43	675.54	87.69	1285.49	305.40	507.08	40.43
140816-03-172	0.0944	32.4540	1.0699	34.2181	0.0821	10.7237	0.3170	508.66	52.45	738.68	181.50	1516.20	612.34	508.66	52.45
140816-03-230	0.0577	8.7591	0.6577	12.9708	0.0826	9.6429	0.7376	511.71	47.44	513.23	52.30	518.24	192.27	511.71	47.44
140816-03-016	0.0583	8.4253	0.6746	9.2465	0.0839	3.8039	0.4120	519.22	18.98	523.49	37.84	540.08	184.26	519.22	18.98
140816-03-062	0.0564	5.7678	0.6532	6.7517	0.0840	3.6137	0.5200	519.95	18.05	510.42	27.09	466.35	127.72	519.95	18.05
140816-03-207	0.0593	10.8837	0.6871	11.6151	0.0840	4.5157	0.3513	520.03	22.56	531.08	48.07	576.73	236.54	520.03	22.56
140816-03-244	0.0558	11.4806	0.6498	15.0876	0.0845	9.9579	0.6489	522.73	50.00	508.38	60.41	442.72	255.28	522.73	50.00
140816-03-350	0.0586	6.7891	0.6839	8.4682	0.0845	4.6922	0.5994	523.12	23.58	529.12	34.94	552.14	148.17	523.12	23.58
140816-03-148	0.0612	12.3305	0.7227	17.5842	0.0855	12.6294	0.7130	528.91	64.13	552.26	75.04	647.31	264.84	528.91	64.13
140816-03-011	0.0597	3.8489	0.7082	5.2698	0.0860	3.5286	0.6832	531.72	18.01	543.70	22.19	592.09	83.43	531.72	18.01

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
140816-03, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.866050, LONGITUDE: -69.941640 ACCEPTED															
140816-03-156	0.0561	7.8228	0.6665	9.4275	0.0860	4.9802	0.5589	531.85	25.42	518.57	38.30	457.93	173.48	531.85	25.42
140816-03-153	0.0670	9.9722	0.8005	10.9928	0.0866	4.6954	0.4208	535.14	24.11	597.14	49.67	837.83	207.70	535.14	24.11
140816-03-117	0.0586	15.1945	0.7011	21.1497	0.0867	14.7833	0.6956	535.93	76.03	539.42	88.73	551.96	331.62	535.93	76.03
140816-03-074	0.0543	9.3231	0.6516	9.9358	0.0869	3.7158	0.3468	537.20	19.15	509.44	39.82	385.07	209.42	537.20	19.15
140816-03-049	0.0562	11.1890	0.6740	15.4984	0.0869	10.7701	0.6920	537.25	55.52	523.13	63.44	460.31	248.03	537.25	55.52
140816-03-013	0.0622	7.1589	0.7474	8.1294	0.0870	3.8059	0.4739	537.97	19.64	566.71	35.32	681.70	152.89	537.97	19.64
140816-03-238	0.0574	5.9596	0.6910	8.2214	0.0873	5.7913	0.6890	539.27	29.96	533.40	34.12	506.68	131.08	539.27	29.96
140816-03-196	0.0614	6.4576	0.7424	8.4256	0.0876	5.6986	0.6432	541.21	29.58	563.78	36.47	653.71	138.55	541.21	29.58
140816-03-100	0.0598	7.9204	0.7259	11.3433	0.0880	8.4107	0.7163	543.45	43.83	554.13	48.48	596.40	171.57	543.45	43.83
140816-03-160	0.0608	7.0839	0.7408	8.7128	0.0882	4.9243	0.5825	545.00	25.73	562.89	37.67	633.41	152.50	545.00	25.73
140816-03-029	0.0612	7.1061	0.7522	8.1096	0.0890	3.7945	0.4821	549.69	19.99	569.48	35.36	647.54	152.62	549.69	19.99
140816-03-191	0.0663	7.0821	0.8146	8.0165	0.0891	4.1866	0.4713	550.10	22.08	605.06	36.56	814.44	148.05	550.10	22.08
140816-03-021	0.0578	4.4955	0.7104	6.0082	0.0891	3.9065	0.6636	550.14	20.60	544.96	25.34	521.41	98.63	550.14	20.60
140816-03-349	0.0691	8.8461	0.8546	11.1468	0.0896	6.5112	0.6089	553.23	34.52	627.17	52.20	901.00	182.45	553.23	34.52
140816-03-214	0.0514	17.2649	0.6368	18.5261	0.0897	6.4554	0.3629	553.83	34.26	500.35	73.31	260.50	396.51	553.83	34.26
140816-03-266	0.0634	20.9882	0.7848	21.6883	0.0897	5.9828	0.2530	553.98	31.76	588.23	97.13	721.40	445.34	553.98	31.76
140816-03-065	0.0664	17.9974	0.8234	18.7410	0.0898	5.3318	0.2789	554.50	28.33	609.96	86.14	820.18	375.89	554.50	28.33
140816-03-111	0.0632	6.5222	0.8033	7.6734	0.0921	4.2952	0.5278	568.02	23.35	598.69	34.72	714.54	138.55	568.02	23.35
140816-03-152	0.0575	4.4639	0.7326	5.8894	0.0923	3.9253	0.6525	569.13	21.38	558.08	25.29	510.74	98.12	569.13	21.38
140816-03-275	0.0583	4.4796	0.7446	5.2130	0.0926	3.3088	0.5234	570.66	18.07	565.09	22.60	541.45	97.94	570.66	18.07
140816-03-268	0.0563	6.0979	0.7196	6.9513	0.0927	4.1298	0.4910	571.40	22.58	550.44	29.55	463.30	135.11	571.40	22.58
140816-03-036	0.0625	11.4589	0.8020	16.2830	0.0930	11.5262	0.7105	573.22	63.22	597.94	73.71	691.17	244.34	573.22	63.22
140816-03-336	0.0850	8.4853	1.1015	13.3334	0.0939	10.1749	0.7714	578.30	56.28	754.09	71.08	1316.23	164.51	578.30	56.28
140816-03-008	0.0597	4.6585	0.7765	6.4700	0.0942	4.3978	0.6941	580.36	24.41	583.47	28.72	593.29	100.96	580.36	24.41
140816-03-324	0.0610	8.7415	0.7934	10.8198	0.0942	6.2923	0.5894	580.38	34.92	593.10	48.64	640.21	187.97	580.38	34.92
140816-03-246	0.0657	5.0148	0.8561	5.8501	0.0944	3.5224	0.5213	581.51	19.59	628.01	27.41	797.77	105.11	581.51	19.59
140816-03-144	0.0629	7.5695	0.8214	9.6658	0.0946	6.0870	0.6219	582.66	33.91	608.83	44.29	705.03	161.04	582.66	33.91
140816-03-073	0.0687	9.7004	0.9004	11.5342	0.0950	6.3287	0.5411	584.94	35.39	651.94	55.54	889.78	200.42	584.94	35.39
140816-03-287	0.0590	4.7385	0.7740	5.5234	0.0950	3.2909	0.5195	585.22	18.41	582.08	24.48	568.59	103.13	585.22	18.41
140816-03-133	0.0616	10.8976	0.8085	14.8327	0.0950	10.0673	0.6784	585.22	56.32	601.62	67.43	661.54	233.51	585.22	56.32
140816-03-330	0.0590	5.6645	0.7777	7.5862	0.0954	4.7619	0.6663	587.66	26.75	584.18	33.71	568.64	123.28	587.66	26.75
140816-03-072	0.0615	6.9839	0.8162	8.1379	0.0961	4.3084	0.5136	591.66	24.36	605.93	37.15	658.08	149.73	591.66	24.36
140816-03-333	0.0609	8.7781	0.8118	13.1237	0.0965	9.6118	0.7435	594.09	54.55	603.47	59.78	636.63	188.87	594.09	54.55
140816-03-186	0.0642	7.6600	0.8704	9.9734	0.0982	6.6494	0.6409	604.11	38.34	635.81	47.16	747.88	161.84	604.11	38.34
140816-03-138	0.0643	8.5409	0.8753	10.7323	0.0986	6.5241	0.6055	606.19	37.75	638.44	50.91	751.95	180.33	606.19	37.75
140816-03-158	0.0626	4.6038	0.8644	6.0929	0.1000	3.6124	0.6583	614.44	21.17	632.53	28.69	695.29	98.10	614.44	21.17
140816-03-047	0.0623	5.6498	0.8609	7.9161	0.1001	5.6332	0.7005	615.10	33.05	630.63	37.20	685.15	120.59	615.10	33.05
140816-03-216	0.0611	9.7205	0.8451	13.5918	0.1002	9.3157	0.6991	615.43	54.68	621.96	63.29	643.82	208.90	615.43	54.68
140816-03-173	0.0605	9.4709	0.8419	12.6871	0.1009	8.2853	0.6655	619.63	48.95	620.22	58.95	619.93	204.35	619.63	48.95
140816-03-288	0.0646	10.3394	0.9003	11.1902	0.1010	4.5925	0.3834	620.05	27.15	651.88	53.88	762.48	217.94	620.05	27.15
140816-03-260	0.0601	4.8484	0.8443	7.1481	0.1018	5.5291	0.7358	624.86	32.93	621.53	33.24	608.05	104.82	624.86	32.93
140816-03-090	0.0622	10.6361	0.8778	14.9164	0.1023	10.5383	0.7011	628.09	63.07	639.77	70.91	679.52	227.23	628.09	63.07
140816-03-099	0.0627	9.4941	0.8894	11.9012	0.1028	7.4080	0.6033	630.75	44.51	646.05	56.94	698.07	202.22	630.75	44.51
140816-03-130	0.0639	6.4634	0.9077	8.6007	0.1029	5.6827	0.6597	631.40	34.18	655.85	41.58	738.58	136.76	631.40	34.18
140816-03-178	0.0608	8.1177	0.8665	10.1175	0.1033	5.6631	0.5981	633.67	34.18	633.66	47.73	631.24	174.82	633.67	34.18
140816-03-335	0.0641	13.6783	0.9198	18.8360	0.1040	12.8626	0.6875	637.76	78.11	662.26	91.88	744.34	289.16	637.76	78.11
140816-03-177	0.0631	5.1716	0.9096	7.4187	0.1044	4.8882	0.7195	639.92	29.78	656.83	35.90	712.97	109.88	639.92	29.78
140816-03-068	0.0619	5.5753	0.8925	6.7326	0.1045	3.9186	0.5610	640.56	23.89	647.69	32.25	671.07	119.28	640.56	23.89
140816-03-125	0.0616	6.3352	0.8916	8.6585	0.1049	6.0774	0.6819	643.32	37.21	647.21	41.46	658.56	135.82	643.32	37.21
140816-03-102	0.0615	4.9682	0.8903	5.6332	0.1049	3.4427	0.4873	643.35	21.08	646.53	26.95	655.64	106.56	643.35	21.08

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
140816-03, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.866050, LONGITUDE: -69.941640 ACCEPTED															
140816-03-284	0.0607	5.7988	0.9068	7.7972	0.1083	5.4722	0.6693	663.01	34.48	655.37	37.67	627.88	124.95	663.01	34.48
140816-03-063	0.0621	7.0303	0.9338	8.1209	0.1089	4.1549	0.5007	666.45	26.31	669.62	39.84	678.76	150.22	666.45	26.31
140816-03-106	0.0617	8.1511	0.9330	9.0320	0.1096	4.3827	0.4338	670.53	27.91	669.23	44.29	662.79	174.62	670.53	27.91
140816-03-001	0.0617	4.5433	0.9478	6.0414	0.1113	3.8780	0.6594	680.08	25.03	676.97	29.86	664.17	97.31	680.08	25.03
140816-03-140	0.0622	5.1020	0.9581	6.5844	0.1116	4.2713	0.6323	682.26	27.65	682.31	32.72	680.05	108.99	682.26	27.65
140816-03-253	0.0666	8.1830	1.0258	10.5171	0.1117	6.7270	0.6283	682.45	43.56	716.82	54.13	824.56	170.79	682.45	43.56
140816-03-128	0.0624	12.1418	0.9884	15.4243	0.1147	9.6221	0.6168	699.95	63.82	697.92	78.01	689.11	258.99	699.95	63.82
140816-03-295	0.0617	6.7453	0.9946	8.3432	0.1168	5.2447	0.5898	711.97	35.35	701.04	42.27	664.89	144.46	711.97	35.35
140816-03-309	0.0637	11.0527	1.0477	14.0070	0.1191	8.7913	0.6144	725.48	60.32	727.73	72.89	733.22	234.07	725.48	60.32
140816-03-167	0.0686	4.9589	1.1307	6.2616	0.1195	3.8210	0.6106	727.41	26.28	768.07	33.75	885.87	102.52	727.41	26.28
140816-03-259	0.0634	9.6170	1.0512	11.0752	0.1203	5.5627	0.4960	732.03	38.49	729.47	57.69	720.27	204.10	732.03	38.49
140816-03-055	0.0663	7.7769	1.1439	8.8991	0.1250	4.3186	0.4861	759.03	30.92	774.36	48.25	817.28	162.50	759.03	30.92
140816-03-270	0.0676	6.1363	1.1735	7.6915	0.1258	5.0343	0.6050	763.83	36.26	788.26	42.19	856.77	127.43	763.83	36.26
140816-03-129	0.0649	6.5722	1.2279	9.0194	0.1371	6.3447	0.6851	828.52	49.33	813.37	50.52	769.84	138.37	769.84	138.37
140816-03-243	0.0683	9.8098	1.2146	15.0261	0.1290	11.4218	0.7575	781.88	84.11	807.30	83.87	876.55	203.09	781.88	84.11
140816-03-285	0.0671	5.7291	1.2187	7.4366	0.1316	5.0254	0.6386	797.22	37.69	809.17	41.50	840.97	119.27	797.22	37.69
140816-03-040	0.0666	6.5623	1.2448	8.7930	0.1355	5.8724	0.6656	819.27	45.18	821.06	49.55	824.32	136.97	824.32	136.97
140816-03-234	0.0679	7.8786	1.4320	9.3396	0.1529	5.1594	0.5372	917.32	44.12	902.39	55.90	864.38	163.42	864.38	163.42
140816-03-201	0.0691	9.5314	1.4147	10.4442	0.1484	4.4433	0.4092	891.80	37.01	895.14	62.21	901.34	196.58	901.34	196.58
140816-03-004	0.0720	9.2518	1.6139	10.2260	0.1624	4.2611	0.4261	970.34	38.39	975.63	64.20	985.29	188.32	985.29	188.32
140816-03-123	0.0721	5.9702	1.6355	8.0127	0.1643	5.4631	0.6671	980.81	49.71	983.99	50.53	988.92	121.46	988.92	121.46
140816-03-042	0.0722	4.8948	1.6565	6.5630	0.1662	4.3984	0.6662	991.07	40.41	992.05	41.58	992.68	99.52	992.68	99.52
140816-03-003	0.0723	5.5996	1.7451	6.9371	0.1748	3.9938	0.5905	1038.50	38.31	1025.36	44.81	995.14	113.81	995.14	113.81
140816-03-255	0.0730	6.4454	1.8116	9.4522	0.1798	6.9693	0.7315	1065.84	68.47	1049.67	61.92	1014.83	130.62	1014.83	130.62
140816-03-269	0.0731	3.7924	1.5184	5.2226	0.1506	4.3374	0.6998	904.53	36.61	937.82	31.98	1015.63	76.85	1015.63	76.85
140816-03-329	0.0734	4.5974	1.6826	6.5350	0.1661	4.3337	0.7124	990.51	39.79	1001.96	41.64	1025.20	93.03	1025.20	93.03
140816-03-326	0.0735	4.5645	1.7113	6.1834	0.1687	3.8224	0.6772	1004.99	35.57	1012.78	39.65	1027.87	92.33	1027.87	92.33
140816-03-124	0.0735	7.5799	1.6524	10.3879	0.1628	7.2493	0.6839	972.40	65.44	990.47	65.80	1028.57	153.31	1028.57	153.31
140816-03-118	0.0739	6.9118	1.7085	8.7853	0.1674	5.6139	0.6176	997.99	51.91	1011.72	56.33	1039.50	139.53	1039.50	139.53
140816-03-251	0.0740	4.8487	1.8410	7.0198	0.1804	5.2320	0.7235	1069.18	51.55	1060.23	46.22	1040.47	97.87	1040.47	97.87
140816-03-297	0.0740	4.5929	1.8404	5.5982	0.1803	3.6936	0.5776	1068.84	36.38	1059.99	36.85	1040.60	92.70	1040.60	92.70
140816-03-136	0.0740	6.6942	1.7066	7.8655	0.1670	4.1692	0.5250	995.70	38.47	1011.01	50.40	1042.08	135.08	1042.08	135.08
140816-03-025	0.0740	6.6137	1.7768	9.2103	0.1739	6.3418	0.6960	1033.46	60.56	1037.01	59.91	1042.76	133.44	1042.76	133.44
140816-03-348	0.0743	6.5422	1.7139	9.0082	0.1672	5.8945	0.6883	996.42	54.42	1013.73	57.83	1048.68	131.88	1048.68	131.88
140816-03-257	0.0744	13.2556	1.8538	18.3422	0.1806	12.7081	0.6912	1070.42	125.35	1064.80	121.56	1052.00	267.09	1052.00	267.09
140816-03-146	0.0744	5.8511	1.6951	7.9404	0.1650	5.5817	0.6765	984.52	50.96	1006.70	50.75	1053.00	117.88	1053.00	117.88
140816-03-137	0.0745	5.0723	1.7482	7.1371	0.1701	5.0537	0.7035	1012.62	47.36	1026.49	46.13	1053.91	102.17	1053.91	102.17
140816-03-024	0.0745	14.8918	1.8334	20.4578	0.1784	14.0046	0.6857	1058.29	136.70	1057.51	135.21	1054.14	299.96	1054.14	299.96
140816-03-081	0.0746	6.0459	1.7451	6.9182	0.1694	3.6197	0.4874	1009.01	33.81	1025.36	44.69	1058.85	121.69	1058.85	121.69
140816-03-265	0.0748	7.7212	1.6663	10.0364	0.1614	6.8580	0.6403	964.68	61.45	995.76	63.77	1063.61	155.30	1063.61	155.30
140816-03-163	0.0752	3.9151	1.7165	5.9594	0.1653	4.3248	0.7545	985.97	39.54	1014.73	38.25	1075.03	78.61	1075.03	78.61
140816-03-205	0.0754	4.7938	1.8813	5.7729	0.1808	3.7792	0.5644	1071.23	37.30	1074.52	38.29	1079.25	96.19	1079.25	96.19
140816-03-331	0.0757	5.2991	1.8808	6.8674	0.1801	4.0363	0.6381	1067.27	39.70	1074.34	45.56	1086.74	106.22	1086.74	106.22
140816-03-107	0.0758	4.6158	1.8919	6.1331	0.1808	4.5144	0.6626	1071.50	44.57	1078.24	40.76	1089.95	92.48	1089.95	92.48
140816-03-095	0.0760	5.8448	1.9271	6.7543	0.1836	3.8522	0.5054	1086.81	38.53	1090.54	45.18	1096.29	116.99	1096.29	116.99
140816-03-134	0.0762	5.1852	1.8112	7.0561	0.1723	4.8199	0.6782	1024.82	45.67	1049.53	46.19	1099.11	103.74	1099.11	103.74
140816-03-098	0.0765	4.9617	1.8738	5.6434	0.1776	3.2571	0.4852	1053.86	31.67	1071.86	37.38	1106.94	99.15	1106.94	99.15
140816-03-083	0.0765	6.5584	2.0119	8.3019	0.1906	5.2634	0.6135	1124.40	54.31	1119.53	56.37	1108.51	131.03	1108.51	131.03
140816-03-122	0.0766	4.7973	1.8130	5.9110	0.1714	3.6348	0.5850	1019.98	34.29	1050.16	38.70	1111.38	95.81	1111.38	95.81
140816-03-112	0.0768	5.3879	1.9358	7.3757	0.1825	5.2420	0.6835	1080.87	52.17	1093.56	49.42	1116.92	107.51	1116.92	107.51

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
140816-03, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.866050, LONGITUDE: -69.941640 ACCEPTED															
140816-03-292	0.0769	4.3735	1.9991	5.2752	0.1885	3.3548	0.5638	1113.40	34.30	1115.22	35.72	1117.59	87.26	1117.59	87.26
140816-03-091	0.0770	13.4349	1.8411	16.6335	0.1734	9.8923	0.5896	1030.59	94.22	1060.27	109.87	1120.23	267.95	1120.23	267.95
140816-03-135	0.0771	6.0413	1.8651	7.6455	0.1752	4.7209	0.6129	1040.80	45.37	1068.78	50.58	1124.12	120.42	1124.12	120.42
140816-03-252	0.0772	9.9379	2.1729	13.7546	0.2040	9.5934	0.6914	1196.98	104.81	1172.40	95.93	1125.95	198.04	1125.95	198.04
140816-03-023	0.0775	4.0084	2.0954	6.2328	0.1959	4.7065	0.7658	1153.13	49.70	1147.31	42.87	1134.58	79.78	1134.58	79.78
140816-03-093	0.0776	8.3936	1.9538	12.4333	0.1825	9.2639	0.7378	1080.38	92.15	1099.75	83.69	1136.63	167.00	1136.63	167.00
140816-03-035	0.0776	12.3822	2.0636	18.6214	0.1927	13.8730	0.7469	1135.93	144.51	1136.82	128.04	1136.95	246.35	1136.95	246.35
140816-03-033	0.0776	14.4439	2.1753	20.8022	0.2030	14.9324	0.7196	1191.53	162.48	1173.17	145.69	1137.88	287.32	1137.88	287.32
140816-03-256	0.0778	2.9583	2.2796	4.1705	0.2123	3.0678	0.7055	1240.97	34.63	1205.99	29.44	1142.56	58.81	1142.56	58.81
140816-03-165	0.0782	7.4984	1.9863	10.7001	0.1840	7.6321	0.7134	1088.68	76.46	1110.85	72.39	1152.23	148.85	1152.23	148.85
140816-03-250	0.0785	3.4863	1.7955	4.9600	0.1658	3.7488	0.7126	989.17	34.38	1043.83	32.36	1158.74	69.14	1158.74	69.14
140816-03-097	0.0785	8.1234	1.8915	9.7258	0.1746	5.6552	0.5507	1037.30	54.19	1078.10	64.69	1159.85	161.07	1159.85	161.07
140816-03-092	0.0786	8.3524	2.1667	13.7206	0.1998	10.9625	0.7934	1174.00	117.67	1170.41	95.60	1162.12	165.56	1162.12	165.56
140816-03-299	0.0787	6.9355	1.6856	7.8359	0.1553	4.0862	0.4684	930.80	35.42	1003.11	49.98	1163.48	137.45	1163.48	137.45
140816-03-199	0.0787	4.7629	2.2114	6.1065	0.2036	4.2177	0.6289	1194.64	45.99	1184.64	42.72	1164.40	94.38	1164.40	94.38
140816-03-108	0.0790	13.3503	2.0352	17.9146	0.1867	12.1150	0.6669	1103.67	122.90	1127.36	122.56	1171.35	264.27	1171.35	264.27
140816-03-027	0.0790	7.6105	2.0558	10.3009	0.1885	6.8787	0.6739	1113.46	70.34	1134.22	70.48	1172.50	150.62	1172.50	150.62
140816-03-274	0.0792	4.6456	1.8570	5.7445	0.1700	3.9060	0.5944	1012.31	36.59	1065.91	37.93	1176.15	91.90	1176.15	91.90
140816-03-300	0.0793	8.1407	2.0849	9.0640	0.1907	4.2953	0.4410	1125.05	44.34	1143.85	62.28	1178.48	160.98	1178.48	160.98
140816-03-052	0.0795	14.9188	2.2424	21.4721	0.2045	15.4542	0.7192	1199.36	169.17	1194.41	151.91	1184.02	294.77	1184.02	294.77
140816-03-044	0.0795	5.2577	2.2372	7.0996	0.2039	4.8732	0.6721	1196.49	53.22	1192.77	49.86	1184.56	103.88	1184.56	103.88
140816-03-155	0.0802	7.0760	2.1225	10.0827	0.1917	6.9793	0.7127	1130.40	72.37	1156.15	69.70	1202.50	139.44	1202.50	139.44
140816-03-229	0.0802	9.0139	2.2196	12.4982	0.2004	8.7418	0.6927	1177.72	94.10	1187.25	87.71	1203.02	177.61	1203.02	177.61
140816-03-019	0.0804	3.3001	2.1017	4.1814	0.1895	2.5597	0.6141	1118.51	26.28	1149.36	28.78	1206.22	65.00	1206.22	65.00
140816-03-242	0.0805	5.6423	2.3489	7.5707	0.2114	5.1366	0.6669	1236.28	57.79	1227.24	53.97	1209.95	111.06	1209.95	111.06
140816-03-249	0.0808	7.0061	2.1794	8.3953	0.1956	4.9725	0.5524	1151.56	52.44	1174.50	58.50	1215.65	137.80	1215.65	137.80
140816-03-061	0.0808	4.9865	2.0841	6.4450	0.1869	4.1730	0.6337	1104.34	42.35	1143.59	44.25	1217.38	98.05	1217.38	98.05
140816-03-289	0.0809	6.6730	2.0471	9.9403	0.1834	7.5535	0.7414	1085.44	75.46	1131.33	67.91	1219.36	131.17	1219.36	131.17
140816-03-077	0.0816	9.1425	2.1130	12.3593	0.1878	8.4365	0.6730	1109.21	85.98	1153.05	85.38	1234.94	179.31	1234.94	179.31
140816-03-171	0.0826	7.7582	2.2531	14.2630	0.1975	11.8586	0.8392	1162.08	126.11	1197.76	100.63	1260.52	151.61	1260.52	151.61
140816-03-139	0.0829	14.1083	2.5572	24.6031	0.2236	20.1643	0.8193	1300.80	237.63	1288.49	181.50	1265.83	275.49	1265.83	275.49
140816-03-332	0.0829	7.2249	2.3518	11.5168	0.2054	8.8119	0.7789	1204.41	96.81	1228.10	82.23	1267.96	141.04	1267.96	141.04
140816-03-276	0.0833	4.9110	2.0664	7.5435	0.1798	6.0519	0.7602	1065.97	59.46	1137.73	51.66	1276.15	95.76	1276.15	95.76
140816-03-272	0.0835	8.3057	2.4294	11.8128	0.2108	8.6254	0.7113	1233.00	96.81	1251.35	85.17	1281.90	161.81	1281.90	161.81
140816-03-182	0.0837	8.1895	2.5002	12.3815	0.2165	9.2659	0.7500	1263.14	106.30	1272.08	90.04	1285.09	159.48	1285.09	159.48
140816-03-168	0.0837	5.0516	2.5623	7.1500	0.2217	5.0584	0.7077	1290.92	59.18	1289.96	52.27	1286.14	98.36	1286.14	98.36
140816-03-192	0.0839	11.6462	2.6991	16.8796	0.2331	12.3575	0.7239	1350.78	150.62	1328.20	125.70	1289.92	226.64	1289.92	226.64
140816-03-221	0.0840	7.4826	2.2785	11.7993	0.1966	9.1205	0.7732	1157.19	96.62	1205.65	83.45	1291.84	145.57	1291.84	145.57
140816-03-334	0.0843	4.9344	2.4423	8.2198	0.2100	6.4004	0.8001	1228.61	71.60	1255.15	59.28	1298.93	95.90	1298.93	95.90
140816-03-190	0.0844	4.0971	2.1431	5.0658	0.1840	3.5064	0.5959	1088.70	35.13	1162.82	35.09	1301.56	79.60	1301.56	79.60
140816-03-104	0.0858	14.4288	2.6543	20.0399	0.2242	14.0527	0.6940	1304.06	165.95	1315.84	148.86	1333.22	279.08	1333.22	279.08
140816-03-078	0.0858	11.8639	2.6484	17.8956	0.2237	13.4724	0.7487	1301.28	158.78	1314.19	132.65	1333.86	229.45	1333.86	229.45
140816-03-116	0.0859	14.3820	2.5723	21.5074	0.2169	16.0572	0.7435	1265.55	184.56	1292.79	158.53	1336.36	278.06	1336.36	278.06
140816-03-141	0.0861	6.3772	2.8029	8.5233	0.2357	5.7358	0.6635	1364.32	70.53	1356.30	63.87	1341.51	123.21	1341.51	123.21
140816-03-164	0.0870	11.0202	2.5996	16.9708	0.2165	12.9053	0.7605	1263.60	148.11	1300.54	125.08	1359.80	212.37	1359.80	212.37
140816-03-066	0.0876	5.9629	2.8338	7.6236	0.2345	4.8657	0.6233	1358.01	59.58	1364.54	57.28	1373.36	114.69	1373.36	114.69
140816-03-010	0.0876	13.6417	2.8401	21.8864	0.2349	17.1001	0.7820	1359.95	209.74	1366.20	165.82	1374.00	262.37	1374.00	262.37
140816-03-215	0.0881	8.8429	2.6592	12.4250	0.2187	8.5274	0.7027	1275.00	98.66	1317.19	91.93	1384.75	169.82	1384.75	169.82
140816-03-053	0.0882	4.9739	2.5136	6.7436	0.2065	4.5921	0.6753	1210.15	50.67	1275.97	49.02	1387.23	95.49	1387.23	95.49
140816-03-170	0.0886	7.3464	2.6551	9.4919	0.2172	5.7886	0.6337	1267.08	66.59	1316.06	70.12	1394.58	140.89	1394.58	140.89

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
140816-03, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.866050, LONGITUDE: -69.941640 ACCEPTED															
140816-03-323	0.0887	8.6845	2.5481	10.3995	0.2082	5.6274	0.5502	1219.39	62.52	1285.88	75.98	1397.11	166.50	1397.11	166.50
140816-03-157	0.0890	3.7204	2.8246	5.5014	0.2298	3.6804	0.7401	1333.48	44.34	1362.10	41.28	1405.10	71.25	1405.10	71.25
140816-03-209	0.0896	5.5270	2.7580	7.0533	0.2231	4.8102	0.6240	1298.06	56.56	1344.26	52.61	1416.73	105.68	1416.73	105.68
140816-03-176	0.0898	14.0133	2.7068	18.4222	0.2184	11.7732	0.6492	1273.42	136.06	1330.33	137.43	1421.02	267.79	1421.02	267.79
140816-03-301	0.0904	4.7654	3.2376	6.4286	0.2596	4.6022	0.6726	1488.00	61.15	1466.21	49.91	1433.56	90.91	1433.56	90.91
140816-03-030	0.0922	9.1683	2.7566	12.2431	0.2168	8.0440	0.6628	1264.76	92.39	1343.87	91.47	1470.61	174.03	1470.61	174.03
140816-03-031	0.0924	5.0633	2.9143	6.9962	0.2284	4.7095	0.6903	1326.32	56.46	1385.62	52.94	1476.64	96.03	1476.64	96.03
140816-03-262	0.0936	13.8090	3.4730	20.1566	0.2689	14.7844	0.7285	1534.97	202.01	1521.09	160.23	1500.66	261.08	1500.66	261.08
140816-03-150	0.0938	6.6188	2.7270	8.9110	0.2107	6.0206	0.6696	1232.64	67.55	1335.84	66.30	1503.14	125.10	1503.14	125.10
140816-03-080	0.0942	7.6115	2.7940	11.1570	0.2150	8.2667	0.7312	1255.25	94.30	1353.95	83.62	1511.99	143.69	1511.99	143.69
140816-03-217	0.0943	9.8430	3.3392	15.6229	0.2565	11.9884	0.7766	1472.09	157.81	1490.27	122.67	1514.52	185.76	1514.52	185.76
140816-03-070	0.0944	14.3825	3.4459	20.3105	0.2645	14.3795	0.7061	1512.61	193.93	1514.94	161.18	1516.81	271.34	1516.81	271.34
140816-03-228	0.0946	7.3921	3.6562	10.9464	0.2802	8.1637	0.7376	1592.19	115.19	1561.85	87.49	1519.51	139.41	1519.51	139.41
140816-03-337	0.0947	8.7031	2.7574	14.0395	0.2110	10.9139	0.7847	1234.39	122.62	1344.10	104.99	1521.26	164.10	1521.26	164.10
140816-03-039	0.0953	6.8581	3.1335	10.0495	0.2382	7.2788	0.7310	1377.55	90.29	1440.97	77.51	1534.40	129.09	1534.40	129.09
140816-03-247	0.0954	12.8958	2.9787	14.2246	0.2262	6.2744	0.4224	1314.51	74.62	1402.19	108.54	1536.81	242.66	1536.81	242.66
140816-03-145	0.0959	4.1665	3.4880	5.8408	0.2636	4.3698	0.7023	1508.33	58.77	1524.50	46.12	1544.87	78.32	1544.87	78.32
140816-03-194	0.0959	14.5004	3.1166	18.6644	0.2354	11.8863	0.6297	1362.91	146.04	1436.80	144.45	1546.00	272.52	1546.00	272.52
140816-03-103	0.0982	5.4099	3.6923	6.8735	0.2725	4.7728	0.6212	1553.72	65.90	1569.70	54.97	1589.46	101.10	1589.46	101.10
140816-03-131	0.0983	4.7879	3.8210	6.8831	0.2816	4.9549	0.7184	1599.30	70.18	1597.17	55.45	1592.33	89.45	1592.33	89.45
140816-03-096	0.0984	7.1856	3.4209	8.2108	0.2519	4.3776	0.4861	1448.04	56.78	1509.22	64.60	1594.58	134.20	1594.58	134.20
140816-03-204	0.0990	5.7715	3.2968	7.4278	0.2414	4.8342	0.6298	1393.76	60.59	1480.30	57.93	1604.77	107.65	1604.77	107.65
140816-03-005	0.1004	12.4332	3.1534	22.2517	0.2276	18.4319	0.8293	1321.82	220.37	1445.83	173.20	1631.20	231.12	1631.20	231.12
140816-03-082	0.1007	10.2126	3.9801	15.1193	0.2863	11.2290	0.7374	1622.99	161.15	1630.14	123.29	1637.92	189.68	1637.92	189.68
140816-03-213	0.1021	4.5554	4.1424	6.2881	0.2939	4.3500	0.6893	1661.11	63.70	1662.71	51.48	1663.00	84.31	1663.00	84.31
140816-03-198	0.1025	5.2849	4.0564	7.6682	0.2868	5.8358	0.7255	1625.41	83.85	1645.59	62.54	1669.56	97.74	1669.56	97.74
140816-03-101	0.1029	5.7788	3.9649	7.9894	0.2791	5.9361	0.6924	1587.07	83.51	1627.04	64.87	1677.36	106.77	1677.36	106.77
140816-03-294	0.1032	5.0640	4.2564	6.8940	0.2990	4.9434	0.6796	1686.23	73.35	1684.98	56.74	1682.33	93.50	1682.33	93.50
140816-03-306	0.1033	4.7816	4.1527	6.9714	0.2913	5.3842	0.7290	1648.08	78.30	1664.74	57.11	1684.56	88.26	1684.56	88.26
140816-03-277	0.1037	7.8469	3.4369	10.4285	0.2403	7.1428	0.6592	1388.28	89.22	1512.88	82.20	1690.84	144.73	1690.84	144.73
140816-03-071	0.1039	13.5425	3.9754	18.3272	0.2774	12.3934	0.6738	1578.19	173.53	1629.19	149.77	1694.32	249.67	1694.32	249.67
140816-03-059	0.1041	11.1816	3.6530	15.7382	0.2543	11.0724	0.7037	1460.86	144.76	1561.16	126.10	1698.28	206.04	1698.28	206.04
140816-03-236	0.1058	4.3552	4.2934	6.2915	0.2940	4.6989	0.7221	1661.66	68.83	1692.10	51.86	1728.60	79.95	1728.60	79.95
140816-03-342	0.1073	6.7915	4.2038	9.7702	0.2838	6.8616	0.7191	1610.38	97.78	1674.75	80.31	1754.19	124.28	1754.19	124.28
140816-03-227	0.1074	8.0094	4.6728	11.9236	0.3152	8.9155	0.7408	1766.25	137.76	1762.38	100.05	1756.27	146.53	1756.27	146.53
140816-03-048	0.1077	5.0029	3.6585	8.3776	0.2462	6.7928	0.8022	1418.90	86.52	1562.37	66.90	1760.70	91.48	1760.70	91.48
140816-03-086	0.1110	5.7157	4.2658	7.3753	0.2786	5.0838	0.6344	1584.25	71.41	1686.80	60.74	1815.31	103.80	1815.31	103.80
140816-03-263	0.1135	3.2130	5.3050	4.5490	0.3389	3.6540	0.7136	1881.20	59.62	1869.67	38.88	1855.77	58.05	1855.77	58.05
140816-03-319	0.1142	7.6620	5.0462	11.9393	0.3201	9.1349	0.7669	1790.16	142.81	1827.12	101.52	1868.06	138.23	1868.06	138.23
140816-03-200	0.1186	10.2318	4.5794	14.4405	0.2798	10.2638	0.7057	1590.52	144.69	1745.52	120.91	1934.73	183.17	1934.73	183.17
140816-03-339	0.1212	10.5422	6.1645	15.2123	0.3685	10.8640	0.7210	2022.43	188.64	1999.42	133.67	1973.73	187.89	1973.73	187.89
140816-03-045	0.1260	3.5191	5.8178	4.9621	0.3345	3.6367	0.7055	1860.18	58.76	1949.07	43.02	2043.55	62.21	2043.55	62.21
140816-03-303	0.1261	4.8562	6.8070	6.4582	0.3913	4.5485	0.6607	2128.69	82.47	2086.64	57.24	2044.24	85.84	2044.24	85.84
140816-03-320	0.1263	5.4512	6.3239	7.7823	0.3630	5.4386	0.7139	1996.18	93.37	2021.77	68.33	2046.58	96.32	2046.58	96.32
140816-03-043	0.1322	7.0185	6.3838	10.1889	0.3500	7.4019	0.7249	1934.36	123.71	2030.05	89.68	2127.46	122.87	2127.46	122.87
140816-03-159	0.1325	4.8896	6.8753	6.6812	0.3759	4.2251	0.6834	2057.25	74.42	2095.48	59.29	2131.23	85.56	2131.23	85.56
140816-03-239	0.1333	5.7885	6.9241	8.2744	0.3764	6.0352	0.7147	2059.45	106.40	2101.75	73.54	2142.10	101.17	2142.10	101.17
140816-03-237	0.1348	10.7687	6.8849	15.7103	0.3700	11.5028	0.7281	2029.57	200.34	2096.72	140.17	2161.95	187.78	2161.95	187.78
140816-03-208	0.1576	4.8616	7.7782	7.2258	0.3576	5.7021	0.7414	1970.60	96.82	2205.68	65.10	2430.26	82.42	2430.26	82.42
140816-03-279	0.1598	3.6158	8.6903	5.2587	0.3942	4.2917	0.7311	2142.26	78.23	2306.06	47.92	2453.52	61.15	2453.52	61.15

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
140816-03, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.866050, LONGITUDE: -69.941640 ACCEPTED															
140816-03-166	0.1831	3.5200	12.6296	5.3880	0.4998	4.0771	0.7571	2612.88	87.59	2652.43	50.74	2680.85	58.21	2680.85	58.21
140816-03-069	0.1842	4.9535	13.1847	6.1773	0.5188	3.8385	0.5979	2694.08	84.53	2692.96	58.37	2690.91	81.84	2690.91	81.84
140816-03-290	0.1850	4.1055	10.4354	5.4121	0.4088	3.8716	0.6544	2209.38	72.42	2474.20	50.19	2698.53	67.79	2698.53	67.79
140816-03, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.866050, LONGITUDE: -69.941640 REJECTED															
140816-03-076	0.1357	24.4624	0.2463	25.8151	0.0132	8.3675	0.3195	84.22	7.00	223.53	51.84	2173.26	426.03	84.22	7.00
140816-03-264	0.2312	19.5569	0.5780	20.8408	0.0181	7.4058	0.3457	115.78	8.50	463.17	77.66	3060.20	312.83	115.78	8.50
140816-03-109	0.0586	19.3224	0.1762	25.3570	0.0218	16.5437	0.6476	138.90	22.73	164.75	38.58	552.34	421.69	138.90	22.73
140816-03-007	0.1244	10.1618	0.3842	11.8537	0.0224	6.0357	0.5149	142.68	8.52	330.09	33.42	2019.68	180.13	142.68	8.52
140816-03-162	0.1235	44.1754	0.3872	46.8528	0.0227	15.5638	0.3332	144.78	22.28	332.33	133.56	2007.37	784.20	144.78	22.28
140816-03-056	0.0969	12.6341	0.3088	13.7571	0.0231	5.4382	0.3957	147.21	7.91	273.26	32.97	1565.17	236.86	147.21	7.91
140816-03-087	0.1475	8.8998	0.5989	9.7759	0.0294	4.5255	0.4164	186.90	8.34	476.56	37.20	2317.65	152.67	186.90	8.34
140816-03-018	0.0763	12.8663	0.3620	14.8477	0.0344	7.4075	0.4991	217.85	15.87	313.69	40.09	1103.25	257.26	217.85	15.87
140816-03-311	0.0910	13.5530	0.5432	16.9580	0.0433	10.2559	0.6011	273.01	27.42	440.52	60.68	1446.59	258.10	273.01	27.42
140816-03-094	0.0577	16.9256	0.5931	22.7587	0.0745	15.3253	0.6685	463.12	68.49	472.83	86.24	518.36	371.53	463.12	68.49
140816-03-187	0.1262	9.9742	1.5158	10.8062	0.0870	4.5507	0.3864	537.68	23.48	936.78	66.20	2046.36	176.25	537.68	23.48
140816-03-278	0.0535	11.4029	0.7213	13.6946	0.0977	7.8329	0.5541	600.69	44.93	551.44	58.33	351.57	257.67	600.69	44.93
140816-03-291	0.0567	15.3409	0.7655	16.1208	0.0979	5.2048	0.3076	602.12	29.92	577.16	71.09	478.79	339.06	602.12	29.92
140816-03-184	0.0639	17.7276	0.8652	18.5733	0.0981	5.8413	0.2987	603.27	33.64	632.98	87.70	738.25	375.13	603.27	33.64
140816-03-225	0.0585	9.5879	0.7976	11.4770	0.0987	6.4233	0.5497	606.88	37.20	595.46	51.75	550.36	209.31	606.88	37.20
140816-03-308	0.0573	14.9234	0.7862	15.6442	0.0995	5.0284	0.3007	611.58	29.34	589.04	70.03	501.60	328.53	611.58	29.34
140816-03-235	0.0708	14.4578	1.0160	23.0199	0.1040	17.9541	0.7782	637.67	109.02	711.90	118.33	952.04	295.82	637.67	109.02
140816-03-120	0.0691	9.9460	1.0355	10.8155	0.1085	4.3975	0.3931	664.29	27.76	721.67	55.92	902.24	205.10	664.29	27.76
140816-03-298	0.1132	18.5632	1.7007	31.7533	0.1089	25.8278	0.8113	666.60	163.60	1008.81	205.81	1850.71	335.58	666.60	163.60
140816-03-254	0.0600	16.3810	0.9118	23.8672	0.1101	17.3804	0.7273	673.50	111.16	657.99	116.08	603.76	354.40	673.50	111.16
140816-03-084	0.0696	20.0574	1.0609	22.2614	0.1104	9.7501	0.4338	675.28	62.51	734.26	116.87	917.05	412.58	675.28	62.51
140816-03-318	0.0987	8.4714	1.5331	18.3535	0.1125	16.2694	0.8871	687.36	106.08	943.74	113.26	1600.50	158.09	687.36	106.08
140816-03-210	0.0901	10.9487	1.4365	25.6113	0.1156	23.1559	0.9040	704.99	154.67	904.24	154.50	1426.85	209.06	704.99	154.67
140816-03-312	0.0718	16.4342	1.1484	20.4938	0.1160	12.2967	0.5975	707.29	82.38	776.51	111.68	979.54	334.80	707.29	82.38
140816-03-015	0.0824	3.7669	1.3286	7.6172	0.1168	6.6174	0.8692	712.15	44.62	858.26	44.16	1255.38	73.67	712.15	44.62
140816-03-293	0.0582	16.2989	1.0070	19.1054	0.1254	10.0954	0.5218	761.51	72.51	707.38	97.64	537.84	356.58	761.51	72.51
140816-03-197	0.0918	8.3681	1.6208	13.0151	0.1279	10.1269	0.7660	775.96	74.04	978.32	81.91	1463.35	159.00	775.96	74.04
140816-03-310	0.0662	13.3086	1.4698	14.2091	0.1610	5.1062	0.3504	962.30	45.65	918.06	86.07	811.71	278.33	811.71	278.33
140816-03-110	0.0668	10.0353	1.5903	11.6598	0.1726	6.1115	0.5094	1026.19	57.98	966.42	72.81	830.79	209.25	830.79	209.25
140816-03-314	0.0685	6.1184	1.5497	7.9419	0.1640	5.0244	0.6376	978.76	45.63	950.36	49.05	883.62	126.53	883.62	126.53
140816-03-060	0.0694	18.4501	1.4780	25.4731	0.1543	17.5845	0.6895	924.79	151.52	921.41	155.47	911.81	379.91	911.81	379.91
140816-03-206	0.0703	10.6881	1.6983	14.5892	0.1752	10.1265	0.6808	1040.49	97.31	1007.89	93.50	935.68	219.23	935.68	219.23
140816-03-338	0.0705	11.2613	1.7104	13.8868	0.1756	7.9860	0.5852	1043.16	76.92	1012.42	89.21	944.24	230.69	944.24	230.69
140816-03-058	0.0731	15.6264	2.0573	22.3041	0.2039	15.9130	0.7135	1196.28	173.79	1134.73	153.56	1017.34	316.57	1017.34	316.57
140816-03-185	0.0842	15.4531	2.2099	18.5584	0.1901	10.4421	0.5538	1122.11	107.55	1184.18	130.45	1297.28	300.41	1297.28	300.41
140816-03-121	0.0844	15.1773	2.7375	22.6819	0.2350	16.8939	0.7431	1360.64	207.30	1338.71	170.27	1301.76	294.86	1301.76	294.86
140816-03-038	0.0844	7.2261	1.5951	8.2027	0.1369	3.7536	0.4735	827.29	29.14	968.28	51.24	1302.21	140.38	1302.21	140.38
140816-03-248	0.0863	10.3776	2.1332	13.9894	0.1792	9.5571	0.6707	1062.37	93.61	1159.63	97.00	1344.85	200.40	1344.85	200.40
140816-03-012	0.0875	8.8675	2.2067	12.5230	0.1828	8.8231	0.7061	1082.41	87.92	1183.17	87.72	1370.48	170.63	1370.48	170.63
140816-03-054	0.0881	20.7616	2.1949	26.7226	0.1806	16.8346	0.6296	1070.34	166.06	1179.42	188.55	1384.05	398.76	1384.05	398.76
140816-03-223	0.0893	18.4148	3.2027	28.3846	0.2600	21.5993	0.7610	1489.69	287.48	1457.81	223.16	1410.00	352.43	1410.00	352.43
140816-03-147	0.0933	6.4813	2.0115	8.2002	0.1562	5.2512	0.6132	935.39	45.72	1119.39	55.67	1494.32	122.64	1494.32	122.64
140816-03-181	0.0934	19.3625	2.7164	25.8842	0.2107	17.1672	0.6637	1232.32	192.62	1332.96	194.45	1496.42	366.28	1496.42	366.28
140816-03-119	0.0978	4.2957	2.6138	6.0691	0.1936	4.5264	0.7075	1140.69	47.32	1304.53	44.60	1583.24	80.34	1583.24	80.34
140816-03-142	0.0995	5.3302	2.4079	7.0457	0.1753	4.7066	0.6541	1041.19	45.25	1244.95	50.59	1615.00	99.29	1615.00	99.29

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
140816-03, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.866050, LONGITUDE: -69.941640 REJECTED															
140816-03-317	0.1005	11.7703	2.0201	12.9913	0.1457	5.4627	0.4233	876.82	44.78	1122.28	88.46	1632.92	218.75	1632.92	218.75
140816-03-316	0.1099	10.6554	2.1827	12.7115	0.1439	6.9029	0.5453	866.59	55.97	1175.53	88.74	1798.35	193.95	1798.35	193.95
140816-03-151	0.1119	15.3413	3.0041	16.1404	0.1945	5.0801	0.3108	1145.77	53.33	1408.65	123.56	1830.24	278.13	1830.24	278.13
140816-03-113	0.1153	4.1666	3.8830	8.5269	0.2440	7.5799	0.8726	1407.49	95.85	1610.15	68.96	1884.56	75.02	1884.56	75.02
140816-03-006	0.1158	26.5720	3.1889	34.7810	0.1996	22.4238	0.6452	1173.03	240.60	1454.47	275.41	1891.76	478.06	1891.76	478.06
140816-03-195	0.1266	11.1209	3.1729	11.7184	0.1816	4.1026	0.3170	1075.94	40.65	1450.58	90.71	2050.65	196.42	2050.65	196.42
140816-03-212	0.1354	5.4994	4.7352	17.9903	0.2533	17.1330	0.9521	1455.54	223.32	1773.48	151.94	2169.78	95.81	2169.78	95.81
140816-03-245	0.1391	10.0432	5.1304	15.1349	0.2673	11.4687	0.7482	1527.03	155.96	1841.16	129.30	2216.17	174.10	2216.17	174.10
140816-03-127	0.1936	6.2635	8.1218	8.1670	0.3039	5.4377	0.6422	1710.63	81.70	2244.67	73.97	2773.16	102.71	2773.16	102.71
140816-03-307	0.2231	13.1571	6.3209	14.9856	0.2054	7.3968	0.4789	1204.03	81.24	2021.35	132.12	3003.10	211.41	3003.10	211.41
140816-03-346	0.2638	18.4012	8.7371	19.6906	0.2399	6.7465	0.3562	1386.19	84.15	2310.95	181.30	3269.55	289.29	3269.55	289.29
5SPUp11, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.869750, LONGITUDE: -69.946100 ACCEPTED															
5SPUp11-305	0.0497	39.7339	0.0568	40.9987	0.0083	10.1185	0.2465	53.15	5.36	56.11	22.38	182.38	925.67	53.15	5.36
5SPUp11-084	0.0612	57.8367	0.0710	58.8142	0.0084	10.6901	0.1816	53.98	5.75	69.67	39.62	646.30	1242.43	53.98	5.75
5SPUp11-373	0.0333	82.2775	0.0387	82.8315	0.0084	9.5660	0.1155	54.06	5.15	38.53	31.33	0.00	1983.26	54.06	5.15
5SPUp11-364	0.0463	83.8232	0.0541	84.5607	0.0085	11.1497	0.1318	54.31	6.03	53.50	44.10	15.31	2014.63	54.31	6.03
5SPUp11-032	0.0398	48.9308	0.0469	49.3872	0.0085	6.7526	0.1356	54.85	3.69	46.58	22.49	0.00	1179.45	54.85	3.69
5SPUp11-292	0.0341	84.4029	0.0404	85.0113	0.0086	10.1649	0.1194	55.02	5.57	40.20	33.52	0.00	2034.49	55.02	5.57
5SPUp11-350	0.0516	51.4361	0.0622	52.1255	0.0087	8.4600	0.1621	56.09	4.72	61.28	31.01	266.95	1179.91	56.09	4.72
5SPUp11-374	0.0556	48.3151	0.0688	49.4967	0.0090	10.7536	0.2172	57.56	6.16	67.59	32.37	436.29	1075.53	57.56	6.16
5SPUp11-017	0.0567	61.9243	0.0705	62.7571	0.0090	10.1133	0.1624	57.85	5.82	69.21	42.01	479.70	1368.40	57.85	5.82
5SPUp11-325	0.0629	54.9860	0.0791	56.6575	0.0091	13.6782	0.2411	58.49	7.96	77.29	42.19	704.05	1170.02	58.49	7.96
5SPUp11-007	0.0539	39.7974	0.0682	40.9049	0.0092	9.5199	0.2311	58.81	5.57	66.98	26.52	367.55	896.74	58.81	5.57
5SPUp11-011	0.0395	61.0306	0.0500	61.5739	0.0092	8.2808	0.1326	58.93	4.86	49.55	29.78	0.00	1471.11	58.93	4.86
5SPUp11-390	0.0356	146.8848	0.0466	147.4071	0.0095	12.4009	0.0841	60.86	7.51	46.22	66.70	0.00	3540.58	60.86	7.51
5SPUp11-213	0.0554	16.9729	0.0790	17.8112	0.0103	5.3216	0.3032	66.24	3.51	77.21	13.24	429.30	378.29	66.24	3.51
5SPUp11-251	0.0517	29.4470	0.0738	30.0256	0.0103	5.8436	0.1954	66.35	3.86	72.34	20.97	272.88	674.77	66.35	3.86
5SPUp11-370	0.0457	9.7050	0.0684	10.2440	0.0108	3.2316	0.3201	69.55	2.24	67.18	6.66	0.00	233.93	69.55	2.24
5SPUp11-073	0.0440	19.2827	0.0667	20.6515	0.0110	7.3778	0.3580	70.50	5.17	65.57	13.11	0.00	464.80	70.50	5.17
5SPUp11-014	0.0571	9.3608	0.0873	11.7276	0.0111	6.9538	0.6025	71.06	4.91	84.98	9.56	494.39	206.33	71.06	4.91
5SPUp11-223	0.0668	35.6478	0.1086	36.5535	0.0118	8.0421	0.2212	75.48	6.03	104.67	36.37	831.62	743.20	75.48	6.03
5SPUp11-326	0.0458	15.6050	0.0758	16.7450	0.0120	6.1126	0.3627	76.75	4.66	74.16	11.98	0.00	376.15	76.75	4.66
5SPUp11-302	0.0622	32.3436	0.1034	33.4271	0.0120	8.4661	0.2525	77.15	6.49	99.87	31.81	681.07	690.82	77.15	6.49
5SPUp11-391	0.0718	27.7554	0.1199	29.3520	0.0121	9.5526	0.3253	77.60	7.37	115.00	31.92	978.92	565.49	77.60	7.37
5SPUp11-091	0.0499	10.0293	0.0862	13.0910	0.0125	8.4242	0.6427	80.20	6.71	83.93	10.55	189.05	233.36	80.20	6.71
5SPUp11-312	0.0489	16.7043	0.0868	17.0840	0.0128	3.6217	0.2097	82.29	2.96	84.50	13.85	144.89	391.86	82.29	2.96
5SPUp11-387	0.0426	17.8166	0.0764	18.5093	0.0130	5.0231	0.2710	83.18	4.15	74.71	13.33	0.00	429.46	83.18	4.15
5SPUp11-052	0.0555	10.4810	0.1015	11.1922	0.0132	3.9914	0.3508	84.82	3.36	98.13	10.47	432.87	233.46	84.82	3.36
5SPUp11-247	0.0591	18.0455	0.1083	20.8301	0.0133	10.3818	0.4995	84.98	8.76	104.41	20.67	572.05	392.51	84.98	8.76
5SPUp11-339	0.0481	15.0664	0.0883	15.9463	0.0133	5.2564	0.3276	85.18	4.45	85.89	13.13	103.20	356.18	85.18	4.45
5SPUp11-201	0.0504	9.4443	0.0938	10.7299	0.0135	5.1053	0.4746	86.36	4.38	91.08	9.35	214.39	218.74	86.36	4.38
5SPUp11-228	0.0459	16.5794	0.0870	17.0829	0.0137	3.9766	0.2411	87.90	3.47	84.73	13.89	0.00	399.64	87.90	3.47
5SPUp11-196	0.0500	12.0944	0.0950	14.6226	0.0138	8.2690	0.5621	88.04	7.23	92.13	12.88	197.13	281.01	88.04	7.23
5SPUp11-301	0.1070	67.3314	0.2075	68.6018	0.0141	13.1565	0.1916	89.95	11.75	191.46	120.26	1749.04	1232.94	89.95	11.75
5SPUp11-280	0.0614	29.6101	0.1215	30.1045	0.0143	5.4453	0.1805	91.76	4.96	116.47	33.14	654.45	635.22	91.76	4.96
5SPUp11-261	0.0487	9.5548	0.0980	10.5339	0.0146	4.4286	0.4210	93.36	4.10	94.89	9.54	131.14	224.71	93.36	4.10
5SPUp11-098	0.0490	13.6695	0.1011	19.3371	0.0149	13.6963	0.7073	95.57	12.99	97.75	18.02	148.83	320.43	95.57	12.99
5SPUp11-109	0.0580	20.1798	0.1264	21.1342	0.0158	6.2929	0.2971	100.92	6.30	120.87	24.09	531.64	441.96	100.92	6.30
5SPUp11-340	0.0468	10.7767	0.1027	11.6579	0.0159	4.4666	0.3814	101.71	4.51	99.22	11.02	37.39	257.93	101.71	4.51

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5SPUp11, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.869750, LONGITUDE: -69.946100 ACCEPTED															
5SPUp11-050	0.0487	13.9191	0.1106	15.3586	0.0164	6.5316	0.4227	105.14	6.81	106.51	15.53	134.99	327.12	105.14	6.81
5SPUp11-262	0.0727	15.9196	0.1957	16.7424	0.0195	5.1784	0.3096	124.48	6.38	181.51	27.84	1006.80	323.01	124.48	6.38
5SPUp11-341	0.0494	7.5882	0.1408	10.4141	0.0206	7.1451	0.6849	131.68	9.31	133.78	13.05	168.97	177.22	131.68	9.31
5SPUp11-209	0.0456	10.7871	0.1326	11.5275	0.0211	3.8907	0.3529	134.53	5.18	126.42	13.70	0.00	260.02	134.53	5.18
5SPUp11-298	0.0651	26.7768	0.1979	27.3567	0.0220	5.6463	0.2048	140.36	7.84	183.31	45.91	778.52	562.96	140.36	7.84
5SPUp11-343	0.0490	5.9012	0.1516	7.4269	0.0224	4.5293	0.6072	142.87	6.40	143.32	9.93	148.47	138.34	142.87	6.40
5SPUp11-289	0.0457	18.8737	0.1445	19.6944	0.0229	5.6473	0.2857	146.18	8.16	137.05	25.25	0.00	454.94	146.18	8.16
5SPUp11-186	0.0506	8.1600	0.1607	10.0959	0.0230	5.9582	0.5889	146.78	8.65	151.30	14.19	220.49	188.78	146.78	8.65
5SPUp11-334	0.0498	5.8149	0.1598	6.4566	0.0232	2.8669	0.4347	148.03	4.20	150.50	9.03	187.25	135.35	148.03	4.20
5SPUp11-180	0.0462	8.5045	0.1496	10.6231	0.0234	6.3887	0.5992	149.31	9.43	141.52	14.03	10.46	204.59	149.31	9.43
5SPUp11-257	0.0502	12.7522	0.1626	13.2784	0.0234	3.6889	0.2787	149.39	5.45	152.96	18.86	206.38	295.79	149.39	5.45
5SPUp11-285	0.0528	11.4308	0.1710	12.4268	0.0235	4.8990	0.3923	149.46	7.24	160.25	18.42	320.67	259.68	149.46	7.24
5SPUp11-184	0.0501	12.4834	0.1624	14.6775	0.0235	7.7298	0.5260	149.61	11.43	152.78	20.82	199.92	289.90	149.61	11.43
5SPUp11-061	0.0511	12.2894	0.1658	13.6833	0.0235	5.9880	0.4397	149.85	8.87	155.78	19.76	244.72	283.05	149.85	8.87
5SPUp11-245	0.0499	13.4000	0.1621	14.0146	0.0235	4.0470	0.2929	149.90	6.00	152.57	19.86	192.01	311.62	149.90	6.00
5SPUp11-189	0.0493	18.8491	0.1605	19.4444	0.0236	4.7909	0.2455	150.41	7.12	151.13	27.31	160.05	440.94	150.41	7.12
5SPUp11-111	0.0507	15.7979	0.1663	16.9289	0.0237	6.0889	0.3594	151.31	9.11	156.21	24.52	228.85	364.92	151.31	9.11
5SPUp11-141	0.0458	25.4775	0.1511	26.1947	0.0239	6.1074	0.2324	152.33	9.19	142.86	34.92	0.00	614.12	152.33	9.19
5SPUp11-048	0.0497	16.7279	0.1648	17.4031	0.0240	4.8937	0.2759	153.09	7.40	154.92	25.01	180.88	389.82	153.09	7.40
5SPUp11-266	0.0507	13.7668	0.1684	14.4136	0.0241	4.2375	0.2962	153.27	6.42	158.05	21.10	228.29	318.04	153.27	6.42
5SPUp11-034	0.0553	11.6944	0.1859	13.1044	0.0243	5.9749	0.4513	155.07	9.16	173.16	20.87	425.98	260.80	155.07	9.16
5SPUp11-360	0.0543	12.6565	0.1841	13.1696	0.0246	3.6487	0.2764	156.48	5.64	171.59	20.79	383.08	284.40	156.48	5.64
5SPUp11-393	0.0557	7.3690	0.1917	9.6211	0.0249	6.1915	0.6429	158.73	9.71	178.12	15.72	441.70	163.88	158.73	9.71
5SPUp11-284	0.0437	18.2215	0.1508	18.8780	0.0250	4.9594	0.2614	159.17	7.80	142.63	25.13	0.00	439.22	159.17	7.80
5SPUp11-274	0.0481	10.4908	0.1677	11.1388	0.0253	3.7858	0.3361	160.78	6.01	157.40	16.24	104.69	247.94	160.78	6.01
5SPUp11-358	0.0573	21.5265	0.1999	22.6605	0.0253	7.0834	0.3124	160.93	11.26	185.05	38.35	503.12	473.77	160.93	11.26
5SPUp11-043	0.0515	18.0716	0.2053	19.4121	0.0289	7.1255	0.3652	183.62	12.90	189.58	33.58	262.33	414.90	183.62	12.90
5SPUp11-004	0.0666	14.2394	0.3011	16.6263	0.0327	8.6558	0.5163	207.65	17.69	267.24	39.08	826.79	297.09	207.65	17.69
5SPUp11-022	0.0489	9.0587	0.2502	9.9284	0.0370	3.9557	0.4095	234.48	9.11	226.73	20.18	144.96	212.50	234.48	9.11
5SPUp11-120	0.0530	7.7078	0.2824	8.6180	0.0386	3.8302	0.4473	244.41	9.19	252.60	19.27	327.01	174.94	244.41	9.19
5SPUp11-248	0.0693	39.2333	0.3779	40.0711	0.0395	8.1220	0.2034	249.62	19.89	325.47	112.03	909.09	808.20	249.62	19.89
5SPUp11-313	0.0523	13.7354	0.2862	14.8667	0.0397	5.7139	0.3826	250.69	14.05	255.59	33.60	298.60	313.28	250.69	14.05
5SPUp11-311	0.0538	6.5445	0.2979	7.8927	0.0401	4.4444	0.5590	253.53	11.05	264.80	18.40	363.46	147.57	253.53	11.05
5SPUp11-333	0.0516	13.9510	0.2859	18.0142	0.0401	11.4042	0.6326	253.74	28.38	255.34	40.69	267.83	319.97	253.74	28.38
5SPUp11-021	0.0577	11.6444	0.3207	16.4317	0.0403	11.5561	0.7056	254.60	28.85	282.40	40.53	517.55	255.64	254.60	28.85
5SPUp11-023	0.0514	4.9282	0.2856	6.4311	0.0403	4.0255	0.6427	254.64	10.05	255.08	14.51	257.06	113.25	254.64	10.05
5SPUp11-009	0.0501	14.6022	0.2793	15.0281	0.0404	3.7246	0.2367	255.27	9.32	250.08	33.32	199.68	339.12	255.27	9.32
5SPUp11-400	0.0484	16.5209	0.2708	17.4637	0.0405	5.6721	0.3241	256.11	14.24	243.32	37.80	119.46	389.39	256.11	14.24
5SPUp11-153	0.0541	12.0624	0.3096	16.0662	0.0415	10.6720	0.6605	261.84	27.38	273.84	38.58	375.39	271.42	261.84	27.38
5SPUp11-308	0.0518	9.0436	0.3007	10.1439	0.0420	4.6242	0.4530	265.42	12.02	266.94	23.82	278.18	207.03	265.42	12.02
5SPUp11-161	0.0514	4.2518	0.3172	5.0899	0.0447	3.0314	0.5515	282.00	8.36	279.75	12.45	258.67	97.68	282.00	8.36
5SPUp11-236	0.0545	3.9821	0.3375	4.9155	0.0449	2.6703	0.5880	282.99	7.39	295.30	12.60	391.70	89.34	282.99	7.39
5SPUp11-237	0.0528	11.8016	0.3294	16.7484	0.0452	11.8345	0.7096	285.19	33.02	289.14	42.17	319.04	268.18	285.19	33.02
5SPUp11-045	0.0559	21.3906	0.4025	22.2869	0.0522	6.3285	0.2808	328.03	20.24	343.47	65.03	447.21	475.26	328.03	20.24
5SPUp11-110	0.0493	15.1016	0.3950	17.3854	0.0580	8.6172	0.4955	363.75	30.48	338.03	50.03	162.32	353.12	363.75	30.48
5SPUp11-211	0.0542	4.2019	0.4876	5.6187	0.0652	3.6158	0.6642	407.18	14.27	403.27	18.70	378.77	94.49	407.18	14.27
5SPUp11-051	0.0555	6.9136	0.5048	8.5371	0.0659	5.0598	0.5867	411.48	20.17	414.95	29.09	432.17	154.01	411.48	20.17
5SPUp11-366	0.0566	8.5261	0.5642	12.4184	0.0723	9.0362	0.7271	449.91	39.27	454.25	45.51	474.08	188.55	449.91	39.27
5SPUp11-379	0.0565	4.5825	0.5706	6.7862	0.0731	5.0119	0.7376	454.90	22.01	458.41	25.04	473.86	101.34	454.90	22.01
5SPUp11-331	0.0562	4.2994	0.5777	5.2060	0.0744	2.9648	0.5639	462.75	13.24	462.97	19.36	461.87	95.28	462.75	13.24

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5SPUp11, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.869750, LONGITUDE: -69.946100 ACCEPTED															
5SPUp11-157	0.0561	6.4020	0.5806	8.4395	0.0750	5.7310	0.6521	466.02	25.77	464.83	31.49	456.67	142.01	466.02	25.77
5SPUp11-344	0.0577	7.5485	0.6056	10.4457	0.0761	7.2407	0.6912	472.68	33.00	480.75	40.02	517.28	165.73	472.68	33.00
5SPUp11-214	0.0589	12.3822	0.6321	17.1193	0.0777	11.7759	0.6906	482.49	54.74	497.38	67.42	564.41	269.67	482.49	54.74
5SPUp11-033	0.0568	5.3731	0.6306	7.2662	0.0804	4.9660	0.6733	498.77	23.84	496.50	28.54	484.03	118.64	498.77	23.84
5SPUp11-256	0.0567	7.3831	0.6440	10.0122	0.0823	6.7561	0.6754	509.54	33.10	504.77	39.84	481.13	163.11	509.54	33.10
5SPUp11-220	0.0558	6.4348	0.6344	7.9068	0.0823	4.5157	0.5812	509.94	22.14	498.85	31.17	446.13	143.00	509.94	22.14
5SPUp11-371	0.0553	10.0613	0.6417	14.1912	0.0840	10.0331	0.7052	520.12	50.14	503.36	56.38	425.65	224.39	520.12	50.14
5SPUp11-083	0.0598	5.0717	0.6975	6.3670	0.0845	3.8820	0.6046	522.82	19.49	537.29	26.57	597.02	109.85	522.82	19.49
5SPUp11-159	0.0634	7.1953	0.7443	9.3572	0.0851	6.1961	0.6397	526.41	31.32	564.90	40.56	720.91	152.68	526.41	31.32
5SPUp11-195	0.0573	2.7406	0.6748	3.4919	0.0854	2.3485	0.6218	528.24	11.91	523.63	14.29	501.41	60.33	528.24	11.91
5SPUp11-042	0.0615	5.2117	0.7305	6.9867	0.0861	4.7093	0.6660	532.29	24.06	556.86	29.96	656.62	111.76	532.29	24.06
5SPUp11-008	0.0579	8.0293	0.6888	9.8189	0.0862	5.7614	0.5757	532.87	29.47	532.09	40.69	526.89	175.99	532.87	29.47
5SPUp11-317	0.0587	3.4293	0.7015	4.3719	0.0866	2.8022	0.6206	535.27	14.39	539.66	18.30	556.17	74.79	535.27	14.39
5SPUp11-229	0.0581	4.6492	0.7021	5.6689	0.0876	3.0636	0.5731	541.07	15.90	540.05	23.75	533.67	101.79	541.07	15.90
5SPUp11-338	0.0557	7.6445	0.6734	8.6814	0.0877	4.1561	0.4740	541.72	21.59	522.75	35.49	438.52	170.11	541.72	21.59
5SPUp11-122	0.0600	9.6636	0.7297	13.3686	0.0880	9.2274	0.6910	543.99	48.14	556.39	57.33	605.24	209.02	543.99	48.14
5SPUp11-300	0.0591	9.3412	0.7230	12.3494	0.0887	8.1031	0.6541	547.87	42.56	552.41	52.66	569.10	203.28	547.87	42.56
5SPUp11-395	0.0564	6.7665	0.6968	9.3585	0.0894	6.4751	0.6908	552.27	34.27	536.85	39.04	469.79	149.75	552.27	34.27
5SPUp11-134	0.0586	4.3087	0.7278	5.9559	0.0900	4.0652	0.6904	555.33	21.63	555.26	25.48	552.72	94.03	555.33	21.63
5SPUp11-103	0.0569	10.0331	0.7098	11.5170	0.0904	5.6769	0.4910	557.85	30.34	544.66	48.59	487.57	221.41	557.85	30.34
5SPUp11-352	0.0590	11.6989	0.7370	16.1735	0.0905	11.1759	0.6905	558.37	59.78	560.65	69.79	567.71	254.65	558.37	59.78
5SPUp11-176	0.0584	4.3976	0.7360	6.2652	0.0913	4.5123	0.7123	562.93	24.32	560.09	26.98	546.38	96.07	562.93	24.32
5SPUp11-016	0.0608	7.3979	0.7704	8.7017	0.0918	4.4086	0.5269	566.31	23.90	580.01	38.47	632.18	159.29	566.31	23.90
5SPUp11-375	0.0577	4.0158	0.7362	5.6919	0.0924	4.0418	0.7087	569.89	22.05	560.21	24.51	518.89	88.14	569.89	22.05
5SPUp11-154	0.0603	5.4341	0.7708	7.0597	0.0926	4.7871	0.6395	571.00	26.16	580.21	31.21	614.25	117.36	571.00	26.16
5SPUp11-273	0.0581	3.4584	0.7430	4.5592	0.0927	2.9910	0.6516	571.27	16.35	564.13	19.74	533.40	75.72	571.27	16.35
5SPUp11-323	0.0605	12.1825	0.7754	17.4911	0.0929	12.5686	0.7176	572.46	68.85	582.85	77.72	621.47	262.79	572.46	68.85
5SPUp11-191	0.0643	3.7867	0.8248	4.8936	0.0930	3.1359	0.6335	573.33	17.20	610.74	22.46	749.97	79.98	573.33	17.20
5SPUp11-020	0.0596	3.4455	0.7688	4.3224	0.0935	2.4383	0.6052	576.40	13.44	579.07	19.08	587.65	74.75	576.40	13.44
5SPUp11-205	0.0587	3.5863	0.7632	5.1802	0.0943	3.5481	0.7226	580.76	19.71	575.83	22.77	554.31	78.24	580.76	19.71
5SPUp11-080	0.0564	8.6080	0.7348	9.7288	0.0944	4.5612	0.4660	581.22	25.35	559.39	41.87	469.35	190.52	581.22	25.35
5SPUp11-101	0.0605	8.4843	0.7904	9.5534	0.0946	4.4196	0.4597	582.56	24.62	591.39	42.85	623.21	182.96	582.56	24.62
5SPUp11-145	0.0589	3.6650	0.7701	4.7660	0.0947	3.0628	0.6393	583.51	17.09	579.81	21.06	563.10	79.84	583.51	17.09
5SPUp11-207	0.0598	3.2416	0.7901	4.5727	0.0958	3.0030	0.7071	589.65	16.92	591.21	20.50	595.09	70.23	589.65	16.92
5SPUp11-035	0.0595	5.8864	0.7863	7.1089	0.0958	4.0769	0.5608	589.94	22.98	589.04	31.78	583.62	127.78	589.94	22.98
5SPUp11-369	0.0638	3.4340	0.8528	4.4984	0.0968	2.9279	0.6459	595.50	16.65	626.21	21.03	736.64	72.69	595.50	16.65
5SPUp11-388	0.0565	6.8297	0.7579	9.6703	0.0972	6.8513	0.7080	597.70	39.11	572.79	42.36	473.01	151.06	597.70	39.11
5SPUp11-361	0.0684	22.4887	0.9199	22.9579	0.0974	4.6248	0.2011	599.33	26.47	662.33	112.15	881.07	465.26	599.33	26.47
5SPUp11-164	0.0608	13.1281	0.8192	18.3309	0.0977	12.9023	0.6980	600.66	74.00	607.58	84.00	631.28	282.72	600.66	74.00
5SPUp11-234	0.0611	4.7994	0.8260	5.8523	0.0980	3.2368	0.5726	602.55	18.62	611.37	26.89	642.14	103.17	602.55	18.62
5SPUp11-118	0.0611	7.7407	0.8285	10.1990	0.0982	6.6516	0.6511	603.74	38.34	612.78	46.96	644.15	166.34	603.74	38.34
5SPUp11-181	0.0622	5.7048	0.8493	7.2265	0.0990	4.4688	0.6139	608.35	25.94	624.24	33.71	680.15	121.87	608.35	25.94
5SPUp11-177	0.0614	4.8536	0.8506	6.7068	0.1004	4.6766	0.6902	617.01	27.52	624.99	31.31	651.82	104.17	617.01	27.52
5SPUp11-147	0.0604	5.3761	0.8523	6.6016	0.1023	3.8442	0.5804	627.64	22.99	625.93	30.85	617.54	116.04	627.64	22.99
5SPUp11-067	0.0609	4.4481	0.8612	5.9408	0.1025	3.9403	0.6629	629.08	23.62	630.76	27.92	634.72	95.74	629.08	23.62
5SPUp11-179	0.0597	4.2263	0.8458	5.6070	0.1026	3.7450	0.6573	629.79	22.47	622.36	26.09	593.27	91.60	629.79	22.47
5SPUp11-040	0.0626	4.1934	0.8951	5.9234	0.1036	4.2460	0.7064	635.72	25.70	649.11	28.42	694.01	89.37	635.72	25.70
5SPUp11-278	0.0629	4.2157	0.9045	5.7838	0.1042	3.9995	0.6847	638.88	24.33	654.14	27.90	705.11	89.69	638.88	24.33
5SPUp11-224	0.0624	5.7785	0.9324	8.1114	0.1082	5.5919	0.7019	662.32	35.20	668.91	39.76	689.14	123.26	662.32	35.20
5SPUp11-156	0.0630	3.8719	0.9669	5.1633	0.1112	3.7782	0.6649	679.45	24.36	686.85	25.78	709.02	82.32	679.45	24.36

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5SPUp11, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.869750, LONGITUDE: -69.946100 ACCEPTED															
5SPUp11-090	0.0650	8.3478	1.0078	9.2970	0.1123	4.1146	0.4402	685.81	26.77	707.77	47.42	775.95	175.58	685.81	26.77
5SPUp11-397	0.0637	3.8711	0.9888	4.5995	0.1125	2.5101	0.5401	687.15	16.36	698.13	23.22	731.64	82.00	687.15	16.36
5SPUp11-086	0.0668	7.6415	1.0412	9.5860	0.1129	5.8033	0.6038	689.72	37.96	724.53	49.69	831.74	159.31	689.72	37.96
5SPUp11-269	0.0642	10.0682	1.0037	14.6228	0.1133	10.5918	0.7252	691.70	69.47	705.70	74.51	748.53	212.70	691.70	69.47
5SPUp11-328	0.0683	8.2427	1.1273	11.2347	0.1196	7.6654	0.6795	728.20	52.78	766.45	60.52	877.63	170.62	728.20	52.78
5SPUp11-235	0.0634	3.9025	1.0601	6.0257	0.1212	4.4615	0.7623	737.67	31.10	733.85	31.49	720.20	82.82	737.67	31.10
5SPUp11-160	0.0676	10.0234	1.1553	15.9343	0.1239	12.4416	0.7774	752.78	88.40	779.73	86.94	855.54	208.19	752.78	88.40
5SPUp11-349	0.0670	5.1075	1.1785	6.6289	0.1275	4.2604	0.6375	773.67	31.06	790.63	36.43	836.67	106.40	773.67	31.06
5SPUp11-345	0.0638	4.2996	1.1339	5.0164	0.1288	2.6405	0.5152	780.81	19.42	769.63	27.07	735.19	91.03	780.81	19.42
5SPUp11-217	0.0696	3.3653	1.2434	5.1594	0.1294	3.7703	0.7585	784.31	27.84	820.42	29.04	917.63	69.22	784.31	27.84
5SPUp11-150	0.0655	4.0194	1.2193	5.6241	0.1349	4.0924	0.7000	815.90	31.36	809.44	31.38	789.56	84.36	789.56	84.36
5SPUp11-115	0.0683	6.9359	1.4275	9.5201	0.1515	6.5321	0.6850	909.52	55.41	900.52	56.90	876.36	143.60	876.36	143.60
5SPUp11-354	0.0693	3.9194	1.2917	5.4911	0.1350	3.8694	0.7004	816.20	29.66	842.05	31.44	908.77	80.74	908.77	80.74
5SPUp11-079	0.0698	6.4619	1.5756	8.1624	0.1636	4.9593	0.6110	976.89	44.96	960.65	50.74	921.61	132.83	921.61	132.83
5SPUp11-303	0.0700	13.3866	1.4817	18.8551	0.1533	13.2937	0.7042	919.54	113.94	922.93	114.79	929.07	274.86	929.07	274.86
5SPUp11-133	0.0708	3.3160	1.4675	4.3598	0.1503	2.7621	0.6494	902.56	23.26	917.11	26.33	950.20	67.87	950.20	67.87
5SPUp11-148	0.0709	11.9965	1.6716	15.1699	0.1708	9.2902	0.6121	1016.46	87.37	997.79	96.67	954.90	245.36	954.90	245.36
5SPUp11-190	0.0712	3.6758	1.7214	5.2009	0.1752	3.7099	0.7075	1040.44	35.65	1016.53	33.42	963.37	75.08	963.37	75.08
5SPUp11-212	0.0713	4.0881	1.6159	5.0261	0.1642	2.7764	0.5825	980.32	25.25	976.39	31.53	965.59	83.48	965.59	83.48
5SPUp11-026	0.0716	5.0372	1.6164	7.1588	0.1636	5.1565	0.7106	976.95	46.75	976.61	44.94	974.04	102.73	974.04	102.73
5SPUp11-389	0.0717	5.2507	1.7073	5.9850	0.1726	2.8848	0.4799	1026.60	27.38	1011.26	38.34	976.21	107.05	976.21	107.05
5SPUp11-319	0.0717	5.6934	1.7295	8.2711	0.1747	6.0411	0.7254	1038.09	57.92	1019.57	53.26	978.02	116.04	978.02	116.04
5SPUp11-142	0.0717	5.3359	1.7475	7.1914	0.1765	4.8465	0.6704	1047.62	46.86	1026.23	46.48	978.80	108.72	978.80	108.72
5SPUp11-188	0.0718	8.1054	1.5311	11.1083	0.1546	7.6061	0.6838	926.46	65.64	942.92	68.33	979.54	165.12	979.54	165.12
5SPUp11-070	0.0720	3.7603	1.6570	4.7929	0.1667	2.9334	0.6201	993.96	27.02	992.21	30.36	986.36	76.53	986.36	76.53
5SPUp11-178	0.0721	3.8188	1.7352	5.5670	0.1743	4.1056	0.7277	1035.79	39.28	1021.70	35.88	989.60	77.68	989.60	77.68
5SPUp11-222	0.0722	6.6356	1.7613	8.9550	0.1768	5.9534	0.6715	1049.25	57.65	1031.32	58.06	991.55	134.94	991.55	134.94
5SPUp11-290	0.0722	5.0847	1.7671	7.2552	0.1773	5.1991	0.7133	1052.00	50.47	1033.46	47.08	992.53	103.39	992.53	103.39
5SPUp11-058	0.0723	3.8166	1.6809	4.8319	0.1684	3.0902	0.6138	1003.32	28.71	1001.34	30.77	995.06	77.57	995.06	77.57
5SPUp11-219	0.0724	7.3935	1.7054	9.8369	0.1706	6.4048	0.6597	1015.39	60.17	1010.57	63.04	998.16	150.20	998.16	150.20
5SPUp11-231	0.0725	10.6530	1.6786	15.4205	0.1679	11.1160	0.7230	1000.41	103.02	1000.47	98.43	998.67	216.41	998.67	216.41
5SPUp11-055	0.0725	4.1132	1.7814	5.6505	0.1782	3.9723	0.6859	1056.88	38.72	1038.69	36.76	998.69	83.56	998.69	83.56
5SPUp11-227	0.0726	3.8657	1.6525	5.1906	0.1649	3.2959	0.6682	984.06	30.08	990.52	32.85	1002.91	78.48	1002.91	78.48
5SPUp11-081	0.0727	6.7633	1.6881	9.7674	0.1683	7.0649	0.7215	1002.54	65.60	1004.04	62.36	1005.30	137.26	1005.30	137.26
5SPUp11-127	0.0728	4.6155	1.6608	6.2068	0.1653	4.1035	0.6686	986.25	37.53	993.69	39.36	1008.04	93.63	1008.04	93.63
5SPUp11-226	0.0728	3.8577	1.7631	5.5759	0.1755	3.8824	0.7225	1042.17	37.36	1031.99	36.14	1008.52	78.25	1008.52	78.25
5SPUp11-183	0.0729	5.1604	1.7016	6.6650	0.1691	4.2528	0.6329	1007.34	39.66	1009.13	42.65	1011.00	104.64	1011.00	104.64
5SPUp11-062	0.0730	6.8648	1.6029	9.3506	0.1590	6.3214	0.6790	951.46	55.92	971.35	58.53	1014.65	139.13	1014.65	139.13
5SPUp11-347	0.0732	6.5148	1.6405	9.6345	0.1624	7.1187	0.7367	970.36	64.13	985.90	60.85	1018.65	131.95	1018.65	131.95
5SPUp11-342	0.0733	6.8009	1.7018	8.0906	0.1682	4.4030	0.5417	1002.22	40.87	1009.20	51.79	1022.39	137.67	1022.39	137.67
5SPUp11-121	0.0733	5.2373	1.7112	7.2252	0.1691	4.9583	0.6889	1006.97	46.22	1012.72	46.34	1023.09	106.01	1023.09	106.01
5SPUp11-297	0.0736	2.8395	1.8472	3.8196	0.1820	2.6486	0.6693	1077.71	26.29	1062.42	25.17	1029.24	57.41	1029.24	57.41
5SPUp11-246	0.0736	8.2592	1.6909	11.7330	0.1666	8.3052	0.7103	993.16	76.45	1005.10	75.00	1029.34	166.99	1029.34	166.99
5SPUp11-210	0.0737	6.6466	1.6190	8.6803	0.1592	5.5072	0.6432	952.48	48.76	977.59	54.54	1032.47	134.32	1032.47	134.32
5SPUp11-029	0.0737	11.5026	1.8384	16.4767	0.1808	11.8273	0.7160	1071.14	116.73	1059.28	108.77	1033.13	232.43	1033.13	232.43
5SPUp11-015	0.0737	11.9316	1.7606	16.3566	0.1731	11.1184	0.6840	1029.23	105.78	1031.06	106.31	1033.23	241.09	1033.23	241.09
5SPUp11-117	0.0739	6.5007	1.8610	9.0510	0.1825	6.3092	0.6958	1080.84	62.78	1067.36	59.85	1037.84	131.26	1037.84	131.26
5SPUp11-095	0.0739	3.9279	1.9194	5.3702	0.1882	3.7324	0.6820	1111.70	38.11	1087.86	35.86	1038.39	79.31	1038.39	79.31
5SPUp11-307	0.0740	3.6345	1.7653	5.0932	0.1729	3.6057	0.7006	1028.12	34.27	1032.79	33.03	1040.77	73.35	1040.77	73.35
5SPUp11-359	0.0741	7.7663	1.8104	11.2339	0.1771	8.1210	0.7225	1051.02	78.76	1049.23	73.61	1043.49	156.68	1043.49	156.68

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5SPUp11, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.869750, LONGITUDE: -69.946100 ACCEPTED															
5SPUp11-367	0.0741	10.2109	1.7096	12.5007	0.1672	7.2204	0.5769	996.56	66.67	1012.14	80.25	1043.99	205.99	1043.99	205.99
5SPUp11-013	0.0741	4.5883	1.6446	6.5751	0.1608	5.0947	0.7185	961.35	45.50	987.46	41.54	1044.24	92.56	1044.24	92.56
5SPUp11-158	0.0742	3.7266	1.7887	5.0449	0.1748	3.7642	0.6775	1038.35	36.10	1041.34	32.87	1045.57	75.16	1045.57	75.16
5SPUp11-249	0.0742	5.4826	1.8697	8.1937	0.1827	6.0502	0.7432	1081.50	60.24	1070.44	54.26	1046.07	110.57	1046.07	110.57
5SPUp11-275	0.0742	4.9818	1.8323	5.9149	0.1789	3.2379	0.5392	1061.05	31.68	1057.10	38.87	1047.05	100.45	1047.05	100.45
5SPUp11-077	0.0743	4.1155	1.8049	5.8219	0.1761	4.0845	0.7073	1045.65	39.43	1047.22	38.06	1048.51	82.97	1048.51	82.97
5SPUp11-380	0.0743	13.4088	1.9952	19.2733	0.1945	13.8467	0.7183	1145.77	145.38	1113.90	131.08	1050.22	270.24	1050.22	270.24
5SPUp11-028	0.0744	8.1056	1.6277	9.2879	0.1586	4.6128	0.4883	949.09	40.71	980.97	58.48	1051.23	163.34	1051.23	163.34
5SPUp11-131	0.0744	8.1758	1.7766	11.7524	0.1731	8.4198	0.7184	1029.04	80.09	1036.95	76.50	1051.60	164.74	1051.60	164.74
5SPUp11-314	0.0745	3.3960	1.8090	5.0196	0.1760	3.7633	0.7365	1045.19	36.31	1048.70	32.83	1054.10	68.40	1054.10	68.40
5SPUp11-124	0.0747	3.2635	1.8978	4.7419	0.1840	3.3842	0.7256	1089.00	33.91	1080.30	31.54	1060.74	65.67	1060.74	65.67
5SPUp11-382	0.0747	7.5132	1.7738	9.1177	0.1720	5.1720	0.5666	1022.99	48.93	1035.90	59.27	1061.26	151.17	1061.26	151.17
5SPUp11-053	0.0748	13.9200	1.5267	14.8651	0.1480	5.2651	0.3509	889.59	43.75	941.18	91.45	1062.02	280.05	1062.02	280.05
5SPUp11-376	0.0748	4.7972	1.7704	5.6124	0.1715	2.9243	0.5190	1020.62	27.60	1034.67	36.43	1062.47	96.51	1062.47	96.51
5SPUp11-197	0.0748	3.2211	1.7678	4.3510	0.1712	3.0641	0.6730	1018.71	28.87	1033.71	28.22	1063.60	64.79	1063.60	64.79
5SPUp11-078	0.0749	3.7069	1.8563	4.8908	0.1797	3.1473	0.6524	1065.08	30.90	1065.68	32.29	1064.90	74.54	1064.90	74.54
5SPUp11-166	0.0750	5.8169	1.8303	7.1780	0.1768	4.5254	0.5875	1049.51	43.83	1056.40	47.17	1068.64	116.91	1068.64	116.91
5SPUp11-362	0.0752	9.0209	1.9944	13.4660	0.1922	10.0010	0.7424	1133.43	103.96	1113.62	91.31	1073.15	181.18	1073.15	181.18
5SPUp11-138	0.0752	3.5946	1.9410	4.7615	0.1870	3.0609	0.6559	1105.05	31.08	1095.34	31.92	1074.02	72.19	1074.02	72.19
5SPUp11-027	0.0753	7.6065	1.7187	8.9629	0.1654	4.8153	0.5290	986.84	44.06	1015.55	57.59	1076.21	152.71	1076.21	152.71
5SPUp11-277	0.0756	4.8491	1.7330	6.1307	0.1661	3.7932	0.6119	990.84	34.84	1020.86	39.49	1083.89	97.24	1083.89	97.24
5SPUp11-057	0.0760	4.4072	1.7964	6.1752	0.1713	4.4134	0.7006	1019.39	41.61	1044.14	40.30	1094.40	88.24	1094.40	88.24
5SPUp11-006	0.0763	4.1814	1.6273	5.9303	0.1546	4.3517	0.7095	926.96	37.57	980.80	37.31	1101.69	83.63	1101.69	83.63
5SPUp11-363	0.0765	4.1030	1.9207	5.6210	0.1819	3.8502	0.6835	1077.31	38.20	1088.30	37.55	1108.35	81.98	1108.35	81.98
5SPUp11-232	0.0766	3.5389	2.1114	5.2046	0.1998	3.7182	0.7335	1174.15	39.91	1152.53	35.88	1110.19	70.69	1110.19	70.69
5SPUp11-174	0.0767	7.9691	2.0361	11.7926	0.1924	8.7182	0.7371	1134.29	90.68	1127.65	80.47	1112.86	159.11	1112.86	159.11
5SPUp11-054	0.0768	7.5871	2.0863	10.8519	0.1969	7.7920	0.7150	1158.87	82.65	1144.30	74.62	1114.89	151.44	1114.89	151.44
5SPUp11-104	0.0769	5.9693	2.0779	9.2631	0.1959	7.0952	0.7647	1153.09	74.92	1141.55	63.58	1117.64	119.10	1117.64	119.10
5SPUp11-296	0.0769	6.5923	1.9634	9.1905	0.1849	6.4417	0.6968	1093.86	64.81	1103.06	61.91	1119.35	131.50	1119.35	131.50
5SPUp11-253	0.0771	7.2058	2.0304	11.8169	0.1907	9.3517	0.7926	1125.40	96.58	1125.74	80.56	1124.53	143.62	1124.53	143.62
5SPUp11-173	0.0774	4.1847	2.0106	5.6568	0.1883	3.8646	0.6729	1112.13	39.48	1119.11	38.38	1130.68	83.33	1130.68	83.33
5SPUp11-088	0.0774	10.8845	2.1578	15.7867	0.2020	11.4424	0.7243	1185.94	123.96	1167.58	109.96	1131.67	216.72	1131.67	216.72
5SPUp11-107	0.0777	5.1211	1.9502	7.4213	0.1819	5.3869	0.7238	1077.36	53.45	1098.51	49.85	1138.62	101.86	1138.62	101.86
5SPUp11-167	0.0782	4.3997	2.2026	5.6758	0.2042	3.9561	0.6348	1197.82	43.25	1181.87	39.66	1150.79	87.35	1150.79	87.35
5SPUp11-128	0.0782	12.1251	1.9633	16.7660	0.1818	11.5628	0.6906	1076.91	114.69	1103.02	113.26	1152.84	240.67	1152.84	240.67
5SPUp11-049	0.0783	4.3535	1.8521	5.8800	0.1714	4.0651	0.6724	1020.02	38.35	1064.19	38.79	1154.03	86.40	1154.03	86.40
5SPUp11-126	0.0783	4.6398	2.1015	6.1165	0.1944	3.9372	0.6516	1144.94	41.30	1149.29	42.11	1155.47	92.06	1155.47	92.06
5SPUp11-355	0.0784	8.0460	1.8294	9.4796	0.1690	5.0190	0.5288	1006.48	46.77	1056.06	62.31	1158.05	159.58	1158.05	159.58
5SPUp11-383	0.0785	4.2204	2.0665	6.3589	0.1908	4.7633	0.7480	1125.47	49.19	1137.78	43.54	1159.38	83.69	1159.38	83.69
5SPUp11-322	0.0785	10.0119	1.7020	15.5256	0.1570	11.8849	0.7643	940.17	103.98	1009.27	99.62	1160.52	198.50	1160.52	198.50
5SPUp11-239	0.0785	4.1370	2.0369	6.7346	0.1879	5.2024	0.7893	1109.96	53.05	1127.93	45.90	1160.81	82.02	1160.81	82.02
5SPUp11-377	0.0786	9.1208	2.0236	11.8762	0.1865	7.6106	0.6405	1102.40	77.12	1123.48	80.88	1162.51	180.78	1162.51	180.78
5SPUp11-244	0.0787	3.6877	1.7983	4.8634	0.1656	3.0955	0.6522	987.99	28.35	1044.85	31.75	1163.89	73.08	1163.89	73.08
5SPUp11-116	0.0788	8.0249	2.2340	11.2500	0.2054	7.8935	0.7008	1204.25	86.71	1191.79	79.07	1167.22	158.95	1167.22	158.95
5SPUp11-309	0.0788	7.0643	2.2759	9.9157	0.2092	6.9776	0.7017	1224.45	77.82	1204.85	70.06	1167.98	139.91	1167.98	139.91
5SPUp11-108	0.0789	8.2680	2.1992	9.5927	0.2018	4.8816	0.5071	1185.22	52.85	1180.79	67.05	1170.65	163.68	1170.65	163.68
5SPUp11-114	0.0790	5.1309	2.0435	6.9254	0.1875	4.6579	0.6716	1107.89	47.41	1130.14	47.25	1171.10	101.57	1171.10	101.57
5SPUp11-267	0.0793	5.5284	1.9987	7.5988	0.1827	5.1873	0.6861	1081.56	51.65	1115.06	51.47	1179.10	109.31	1179.10	109.31
5SPUp11-243	0.0794	10.6338	2.0830	14.9596	0.1900	10.4843	0.7034	1121.51	107.93	1143.21	102.98	1182.75	210.15	1182.75	210.15
5SPUp11-365	0.0795	8.9029	2.0746	13.6883	0.1890	10.4037	0.7596	1116.23	106.64	1140.46	94.05	1184.88	175.88	1184.88	175.88

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5SPUp11, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.869750, LONGITUDE: -69.946100 ACCEPTED															
5SPUp11-335	0.0796	14.9349	2.0909	22.9146	0.1903	17.3888	0.7584	1123.26	179.30	1145.82	158.67	1186.83	294.97	1186.83	294.97
5SPUp11-230	0.0796	10.3823	1.8411	11.2558	0.1676	4.2617	0.3863	998.90	39.44	1060.25	74.19	1186.90	205.05	1186.90	205.05
5SPUp11-198	0.0796	4.5241	2.3885	6.5966	0.2173	4.8867	0.7279	1267.68	56.24	1239.16	47.25	1187.97	89.34	1187.97	89.34
5SPUp11-163	0.0796	5.5269	2.1709	9.3312	0.1975	7.6082	0.8058	1161.77	80.89	1171.76	64.96	1188.27	109.14	1188.27	109.14
5SPUp11-378	0.0800	10.6735	2.1672	14.7945	0.1964	10.2480	0.6925	1155.82	108.45	1170.59	103.14	1196.07	210.52	1196.07	210.52
5SPUp11-001	0.0800	3.1757	2.1522	4.2672	0.1948	3.0620	0.6696	1147.58	32.19	1165.77	29.59	1198.11	62.62	1198.11	62.62
5SPUp11-200	0.0805	5.3473	1.9173	7.3602	0.1726	5.0703	0.6872	1026.69	48.12	1087.11	49.15	1208.32	105.28	1208.32	105.28
5SPUp11-283	0.0805	8.7644	2.2436	13.0893	0.2020	9.7285	0.7427	1185.98	105.40	1194.78	92.18	1208.88	172.55	1208.88	172.55
5SPUp11-288	0.0808	7.2089	2.2453	10.7053	0.2013	7.9293	0.7393	1182.39	85.66	1195.30	75.34	1216.87	141.76	1216.87	141.76
5SPUp11-136	0.0809	5.4206	2.3755	7.2693	0.2128	4.8039	0.6663	1243.74	54.34	1235.25	51.99	1218.45	106.57	1218.45	106.57
5SPUp11-310	0.0810	5.1290	2.2285	6.4933	0.1993	4.0181	0.6133	1171.31	43.04	1190.05	45.54	1222.36	100.78	1222.36	100.78
5SPUp11-060	0.0811	9.9085	2.2658	14.4947	0.2024	10.5627	0.7299	1188.13	114.62	1201.70	102.46	1224.30	194.64	1224.30	194.64
5SPUp11-255	0.0812	13.8487	1.9343	21.3568	0.1726	16.2554	0.7613	1026.49	154.28	1093.03	143.91	1226.24	271.96	1226.24	271.96
5SPUp11-386	0.0813	4.6293	2.3557	6.3877	0.2100	4.4096	0.6891	1228.55	49.33	1229.30	45.56	1228.69	90.88	1228.69	90.88
5SPUp11-069	0.0814	3.2647	2.1162	4.1995	0.1883	2.6449	0.6290	1112.03	27.01	1154.09	28.96	1232.05	64.06	1232.05	64.06
5SPUp11-294	0.0814	4.8943	2.3976	6.6075	0.2133	4.4669	0.6718	1246.36	50.62	1241.88	47.38	1232.26	96.03	1232.26	96.03
5SPUp11-039	0.0815	6.0231	2.2813	9.2950	0.2028	7.1311	0.7617	1190.33	77.51	1206.50	65.71	1233.78	118.15	1233.78	118.15
5SPUp11-089	0.0818	7.3051	2.3750	10.7888	0.2103	7.9507	0.7359	1230.62	89.08	1235.11	77.24	1240.97	143.15	1240.97	143.15
5SPUp11-268	0.0822	9.9503	2.0090	11.1428	0.1770	4.9883	0.4501	1050.66	48.36	1118.55	75.68	1251.10	194.71	1251.10	194.71
5SPUp11-123	0.0825	5.6997	2.4659	7.8100	0.2166	5.3216	0.6837	1263.93	61.08	1262.10	56.48	1256.95	111.44	1256.95	111.44
5SPUp11-018	0.0826	5.9185	2.2639	9.0459	0.1986	6.7265	0.7564	1167.83	71.85	1201.12	63.79	1259.84	115.67	1259.84	115.67
5SPUp11-206	0.0828	4.8728	1.9870	7.4437	0.1739	5.5028	0.7561	1033.41	52.54	1111.11	50.32	1264.59	95.17	1264.59	95.17
5SPUp11-112	0.0828	5.0327	2.4509	6.7131	0.2144	4.4494	0.6618	1252.43	50.65	1257.69	48.45	1264.71	98.29	1264.71	98.29
5SPUp11-066	0.0829	4.3240	2.2843	5.9184	0.1996	4.0433	0.6828	1173.05	43.37	1207.44	41.82	1267.57	84.41	1267.57	84.41
5SPUp11-241	0.0829	9.5104	2.3174	14.7450	0.2025	11.2329	0.7642	1188.59	121.94	1217.63	104.96	1267.62	185.66	1267.62	185.66
5SPUp11-093	0.0831	7.4709	2.4949	11.3705	0.2177	8.5822	0.7539	1269.47	98.90	1270.55	82.60	1270.41	145.79	1270.41	145.79
5SPUp11-097	0.0833	9.6411	2.4662	15.0936	0.2145	11.6356	0.7694	1252.86	132.50	1262.18	109.46	1276.13	187.98	1276.13	187.98
5SPUp11-346	0.0834	13.7177	2.3107	18.7578	0.2007	12.8053	0.6821	1179.20	138.02	1215.58	133.70	1278.82	267.37	1278.82	267.37
5SPUp11-002	0.0835	7.9638	2.2832	10.7390	0.1982	7.2909	0.6709	1165.53	77.74	1207.11	75.97	1280.67	155.18	1280.67	155.18
5SPUp11-321	0.0838	4.0087	2.3123	6.4101	0.2000	5.0462	0.7804	1175.49	54.22	1216.08	45.47	1286.95	78.04	1286.95	78.04
5SPUp11-125	0.0839	5.2974	2.5433	5.9465	0.2197	2.6297	0.4545	1280.31	30.54	1284.51	43.37	1289.53	103.09	1289.53	103.09
5SPUp11-130	0.0841	6.2406	2.4447	8.2155	0.2106	5.3073	0.6504	1231.78	59.51	1255.85	59.27	1295.34	121.35	1295.34	121.35
5SPUp11-094	0.0845	8.3817	2.4364	10.2907	0.2090	6.0138	0.5802	1223.55	67.02	1253.40	74.21	1303.08	162.81	1303.08	162.81
5SPUp11-304	0.0853	3.8176	2.2809	7.1190	0.1939	6.0312	0.8441	1142.23	63.13	1206.40	50.29	1321.31	73.96	1321.31	73.96
5SPUp11-144	0.0853	9.3692	2.6197	14.2554	0.2225	10.7553	0.7537	1295.04	126.20	1306.18	105.13	1322.53	181.49	1322.53	181.49
5SPUp11-286	0.0856	14.8407	2.6012	23.0295	0.2202	17.6168	0.7647	1282.80	204.99	1300.99	170.49	1329.28	287.21	1329.28	287.21
5SPUp11-392	0.0856	13.6457	2.5193	18.3916	0.2132	12.3336	0.6705	1245.85	139.74	1277.63	134.46	1329.63	264.07	1329.63	264.07
5SPUp11-003	0.0858	4.6481	2.4061	5.9192	0.2031	3.8320	0.6198	1192.10	41.71	1244.43	42.48	1334.58	89.89	1334.58	89.89
5SPUp11-165	0.0865	3.6769	2.8201	4.8340	0.2362	3.5554	0.6542	1366.92	43.79	1360.91	36.25	1349.52	70.96	1349.52	70.96
5SPUp11-271	0.0868	5.0942	2.5032	7.5086	0.2090	5.5271	0.7346	1223.65	61.60	1272.97	54.53	1355.44	98.23	1355.44	98.23
5SPUp11-041	0.0868	8.6920	2.7451	12.7961	0.2292	9.4188	0.7339	1330.16	113.22	1340.76	95.52	1355.94	167.59	1355.94	167.59
5SPUp11-385	0.0875	9.3417	2.9652	14.1639	0.2456	10.6499	0.7517	1415.71	135.38	1398.76	107.95	1371.13	179.74	1371.13	179.74
5SPUp11-087	0.0876	6.3118	2.6552	8.8612	0.2195	6.2340	0.7019	1279.27	72.34	1316.10	65.45	1374.66	121.38	1374.66	121.38
5SPUp11-099	0.0901	5.9248	2.8745	9.6064	0.2313	7.5961	0.7872	1341.13	91.98	1375.26	72.49	1426.72	113.13	1426.72	113.13
5SPUp11-137	0.0901	6.5937	2.9977	9.8013	0.2410	7.2254	0.7399	1392.09	90.47	1407.03	74.76	1427.76	125.89	1427.76	125.89
5SPUp11-175	0.0903	5.3126	3.1208	7.8639	0.2505	5.8365	0.7373	1441.25	75.38	1437.84	60.54	1430.87	101.39	1430.87	101.39
5SPUp11-132	0.0903	6.0740	2.9078	9.7004	0.2334	7.5381	0.7797	1352.34	91.96	1383.94	73.42	1431.04	115.91	1431.04	115.91
5SPUp11-119	0.0904	8.9000	2.5978	15.7691	0.2082	13.0229	0.8255	1219.24	144.69	1300.01	116.12	1433.97	169.78	1433.97	169.78
5SPUp11-113	0.0909	5.0308	2.4673	7.1929	0.1968	5.1467	0.7147	1157.87	54.55	1262.52	52.02	1443.58	95.84	1443.58	95.84
5SPUp11-330	0.0909	12.4456	2.6222	16.7564	0.2090	11.2275	0.6696	1223.58	125.14	1306.89	123.78	1444.50	237.08	1444.50	237.08

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5SPUp11, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.869750, LONGITUDE: -69.946100 ACCEPTED															
5SPUp11-105	0.0910	6.3123	3.2770	9.4136	0.2609	6.9957	0.7419	1494.66	93.33	1475.61	73.36	1446.38	120.21	1446.38	120.21
5SPUp11-096	0.0915	5.3214	2.6366	6.9198	0.2088	4.4820	0.6393	1222.27	49.90	1310.92	50.98	1457.10	101.20	1457.10	101.20
5SPUp11-170	0.0918	8.1859	3.4676	12.6681	0.2736	9.6913	0.7632	1559.02	134.23	1519.87	100.16	1463.85	155.52	1463.85	155.52
5SPUp11-264	0.0921	10.9233	3.1785	15.6919	0.2501	11.2633	0.7179	1439.02	145.29	1451.96	121.78	1469.16	207.39	1469.16	207.39
5SPUp11-075	0.0923	5.5352	2.7720	8.8022	0.2176	6.8240	0.7775	1269.07	78.61	1348.04	65.77	1473.79	105.03	1473.79	105.03
5SPUp11-215	0.0924	3.2840	2.7885	4.3848	0.2186	2.7135	0.6642	1274.27	31.37	1352.46	32.78	1476.52	62.29	1476.52	62.29
5SPUp11-336	0.0933	7.3357	2.7347	11.9421	0.2125	9.4417	0.7891	1242.02	106.67	1337.93	89.02	1492.99	138.83	1492.99	138.83
5SPUp11-218	0.0942	6.2129	3.1895	7.8849	0.2452	4.7426	0.6159	1413.90	60.21	1454.62	61.03	1512.81	117.28	1512.81	117.28
5SPUp11-356	0.0945	3.3300	3.4625	4.8734	0.2654	3.5675	0.7301	1517.19	48.23	1518.72	38.41	1518.97	62.81	1518.97	62.81
5SPUp11-082	0.0946	10.7115	3.4115	15.5097	0.2613	11.2280	0.7232	1496.45	149.97	1507.04	122.37	1520.07	202.00	1520.07	202.00
5SPUp11-065	0.0947	2.9018	3.6353	4.4254	0.2780	3.3440	0.7550	1581.28	46.89	1557.28	35.26	1523.05	54.70	1523.05	54.70
5SPUp11-076	0.0948	5.6114	2.9006	8.2205	0.2218	5.9845	0.7308	1291.22	70.03	1382.06	62.15	1523.42	105.77	1523.42	105.77
5SPUp11-316	0.0949	4.8662	3.4434	7.2704	0.2630	5.4477	0.7430	1505.25	73.13	1514.36	57.27	1525.30	91.70	1525.30	91.70
5SPUp11-357	0.0950	6.7942	3.2389	9.9971	0.2471	7.3380	0.7336	1423.41	93.73	1466.52	77.71	1527.62	128.00	1527.62	128.00
5SPUp11-324	0.0951	3.0192	3.2351	4.7639	0.2464	3.7449	0.7736	1419.63	47.72	1465.61	36.97	1531.03	56.85	1531.03	56.85
5SPUp11-056	0.0953	13.9769	3.0502	17.8893	0.2318	11.2000	0.6242	1343.86	135.88	1420.27	137.63	1534.98	263.06	1534.98	263.06
5SPUp11-254	0.0955	11.7521	3.2380	21.9294	0.2457	18.5120	0.8443	1416.47	235.51	1466.30	171.75	1537.44	221.12	1537.44	221.12
5SPUp11-225	0.0960	5.9249	3.2256	8.5539	0.2435	6.0769	0.7213	1405.05	76.72	1463.33	66.39	1547.18	111.34	1547.18	111.34
5SPUp11-202	0.0964	5.2326	3.6107	6.6504	0.2713	4.1201	0.6172	1547.44	56.68	1551.88	52.93	1556.11	98.21	1556.11	98.21
5SPUp11-320	0.0966	10.0910	3.2542	13.2299	0.2441	8.5816	0.6467	1408.11	108.56	1470.17	103.11	1559.14	189.33	1559.14	189.33
5SPUp11-252	0.0968	4.6073	3.6281	6.8429	0.2715	5.0335	0.7394	1548.27	69.28	1555.71	54.52	1564.06	86.39	1564.06	86.39
5SPUp11-203	0.0970	9.7897	3.4636	12.9655	0.2586	8.5084	0.6557	1482.83	112.72	1518.97	102.50	1567.86	183.47	1567.86	183.47
5SPUp11-152	0.0982	3.9162	3.3312	5.3213	0.2458	3.7752	0.6778	1416.81	48.02	1488.40	41.58	1590.03	73.18	1590.03	73.18
5SPUp11-059	0.0985	13.5595	3.5149	18.6183	0.2586	12.7886	0.6853	1482.50	169.41	1530.57	148.22	1595.88	253.20	1595.88	253.20
5SPUp11-194	0.0992	3.2953	3.4005	4.7922	0.2483	3.5971	0.7264	1429.66	46.12	1504.50	37.62	1609.70	61.42	1609.70	61.42
5SPUp11-031	0.0995	5.6454	3.5816	7.1064	0.2609	4.4004	0.6075	1494.21	58.69	1545.46	56.47	1614.60	105.16	1614.60	105.16
5SPUp11-299	0.1002	4.9253	3.6281	7.2569	0.2625	5.3752	0.7344	1502.43	72.04	1555.72	57.83	1627.09	91.60	1627.09	91.60
5SPUp11-287	0.1013	4.5872	3.9268	5.7549	0.2809	3.5092	0.6039	1595.71	49.61	1619.22	46.61	1648.17	85.06	1648.17	85.06
5SPUp11-242	0.1025	5.5913	3.9242	8.8514	0.2773	6.8039	0.7752	1577.66	95.22	1618.68	71.74	1670.69	103.39	1670.69	103.39
5SPUp11-216	0.1031	10.6204	4.2506	14.1564	0.2988	9.3022	0.6612	1685.48	137.99	1683.86	116.88	1680.06	196.15	1680.06	196.15
5SPUp11-281	0.1042	8.9556	3.9940	12.2875	0.2779	8.4208	0.6847	1580.57	118.05	1632.97	100.10	1699.40	165.00	1699.40	165.00
5SPUp11-348	0.1042	3.1532	4.1480	6.1488	0.2884	5.3067	0.8585	1633.59	76.58	1663.82	50.35	1700.34	58.09	1700.34	58.09
5SPUp11-240	0.1048	8.8348	4.2178	13.6882	0.2917	10.4174	0.7638	1649.96	151.68	1677.50	112.81	1710.38	162.55	1710.38	162.55
5SPUp11-327	0.1055	4.7329	3.5956	8.2483	0.2470	6.7910	0.8190	1423.12	86.73	1548.56	65.62	1722.42	86.95	1722.42	86.95
5SPUp11-372	0.1060	7.3764	4.6573	11.4706	0.3182	8.7994	0.7658	1780.95	136.95	1759.60	96.17	1732.52	135.35	1732.52	135.35
5SPUp11-204	0.1074	3.9953	4.0080	5.9772	0.2704	4.4601	0.7438	1543.03	61.21	1635.81	48.61	1755.46	73.10	1755.46	73.10
5SPUp11-149	0.1083	4.3548	4.7019	7.6543	0.3146	6.3025	0.8224	1763.33	97.24	1767.58	64.17	1770.72	79.53	1770.72	79.53
5SPUp11-381	0.1086	13.6517	4.8812	19.8545	0.3258	14.4186	0.7261	1817.79	228.48	1799.01	168.86	1775.50	249.17	1775.50	249.17
5SPUp11-332	0.1087	6.7782	4.7172	9.4830	0.3146	6.6449	0.6994	1763.07	102.51	1770.30	79.61	1777.05	123.69	1777.05	123.69
5SPUp11-019	0.1115	13.1687	4.5390	19.9996	0.2950	15.0005	0.7526	1666.46	220.37	1738.15	167.93	1823.97	238.92	1823.97	238.92
5SPUp11-146	0.1125	8.2510	4.7256	11.5035	0.3044	8.0218	0.6968	1713.30	120.70	1771.79	96.70	1839.57	149.43	1839.57	149.43
5SPUp11-260	0.1142	2.0579	5.5040	3.0340	0.3493	2.2166	0.7348	1931.07	36.99	1901.22	26.08	1867.10	37.13	1867.10	37.13
5SPUp11-295	0.1155	4.9697	5.0109	8.0895	0.3142	6.4211	0.7891	1761.45	98.98	1821.16	68.58	1888.45	89.45	1888.45	89.45
5SPUp11-293	0.1161	3.6211	5.2969	5.3517	0.3305	3.9720	0.7364	1840.60	63.60	1868.37	45.74	1897.69	65.10	1897.69	65.10
5SPUp11-169	0.1181	7.6802	4.5366	10.4786	0.2783	7.3218	0.6805	1582.87	102.77	1737.71	87.40	1927.68	137.60	1927.68	137.60
5SPUp11-192	0.1254	3.6093	6.4175	6.0386	0.3708	4.8645	0.8017	2033.26	84.83	2034.67	53.10	2034.36	63.87	2034.36	63.87
5SPUp11-250	0.1278	6.0586	5.8271	8.0749	0.3305	5.3137	0.6611	1840.79	85.09	1950.44	70.09	2067.29	106.80	2067.29	106.80
5SPUp11-282	0.1281	2.6297	6.7740	3.5233	0.3833	2.3727	0.6656	2091.46	42.38	2082.34	31.18	2071.67	46.33	2071.67	46.33
5SPUp11-259	0.1282	7.0420	5.6013	9.4738	0.3167	6.3304	0.6689	1773.43	98.15	1916.30	81.80	2072.99	124.05	2072.99	124.05
5SPUp11-074	0.1303	3.6980	5.5279	8.8338	0.3074	8.0054	0.9082	1727.74	121.34	1904.94	76.10	2102.11	64.93	2102.11	64.93

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5SPUp11, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.869750, LONGITUDE: -69.946100 ACCEPTED															
5SPUp11-037	0.1305	8.0876	5.9496	11.4060	0.3304	8.0883	0.7052	1840.20	129.50	1968.50	99.47	2104.59	141.96	2104.59	141.96
5SPUp11-276	0.1318	6.0577	6.9162	8.7302	0.3801	6.3117	0.7201	2076.97	112.08	2100.74	77.60	2122.46	106.11	2122.46	106.11
5SPUp11-337	0.1617	2.7078	9.8020	3.8587	0.4391	2.8109	0.7126	2346.53	55.29	2416.34	35.57	2474.02	45.70	2474.02	45.70
5SPUp11-185	0.1780	5.8734	12.6712	8.6200	0.5159	6.3216	0.7319	2681.80	138.71	2655.53	81.30	2633.92	97.57	2633.92	97.57
5SPUp11, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.869750, LONGITUDE: -69.946100 REJECTED															
5SPUp11-046	0.0439	37.8205	0.0512	41.2909	0.0084	16.5966	0.4013	54.18	8.95	50.69	20.42	0.00	911.64	54.18	8.95
5SPUp11-047	0.0609	19.5469	0.0727	25.0077	0.0086	15.6272	0.6237	55.47	8.63	71.22	17.20	636.57	420.58	55.47	8.63
5SPUp11-399	0.0488	19.2459	0.0733	24.9840	0.0109	15.9350	0.6376	69.81	11.06	71.81	17.32	136.65	452.17	69.81	11.06
5SPUp11-100	0.0523	15.8391	0.0823	22.8087	0.0114	16.4198	0.7196	73.09	11.93	80.32	17.62	298.76	361.25	73.09	11.93
5SPUp11-199	0.0454	20.5275	0.0717	26.8705	0.0114	17.3632	0.6453	73.38	12.67	70.35	18.27	0.00	494.81	73.38	12.67
5SPUp11-398	0.0815	20.8269	0.1455	21.8669	0.0129	6.6733	0.3047	82.87	5.49	137.92	28.21	1232.93	408.60	82.87	5.49
5SPUp11-129	0.0803	21.2340	0.1441	22.8327	0.0130	8.3706	0.3676	83.30	6.93	136.73	29.22	1204.33	418.31	83.30	6.93
5SPUp11-151	0.3684	18.0747	0.7951	21.7022	0.0156	12.0651	0.5535	100.03	11.98	594.07	97.91	3784.77	274.00	100.03	11.98
5SPUp11-010	0.0796	93.6135	0.1729	95.3144	0.0157	17.9666	0.1881	100.67	17.95	161.90	143.59	1186.78	1848.91	100.67	17.95
5SPUp11-012	0.2526	8.5128	0.6667	10.2742	0.0191	6.0719	0.5607	122.13	7.35	518.71	41.75	3201.18	134.56	122.13	7.35
5SPUp11-038	0.0923	7.2487	0.2788	9.8746	0.0219	6.7600	0.6791	139.63	9.34	249.70	21.86	1472.65	137.56	139.63	9.34
5SPUp11-106	0.3820	16.6086	1.3339	20.5081	0.0253	12.0376	0.5866	161.06	19.15	860.59	119.56	3839.80	250.81	161.06	19.15
5SPUp11-353	0.0608	31.3703	0.2222	43.2864	0.0265	29.8295	0.6890	168.42	49.59	203.71	80.06	632.60	675.42	168.42	49.59
5SPUp11-025	0.2106	26.8345	0.9991	29.0658	0.0344	11.2002	0.3842	217.91	24.00	703.38	148.55	2910.08	434.79	217.91	24.00
5SPUp11-140	0.0522	15.3945	0.3153	21.5890	0.0438	15.1439	0.7011	276.35	40.97	278.27	52.59	292.06	351.53	276.35	40.97
5SPUp11-085	0.1982	14.8934	1.9363	16.7408	0.0708	7.6565	0.4566	440.93	32.63	1093.71	112.55	2811.19	243.39	440.93	32.63
5SPUp11-182	-0.7137	194.3123	-7.4275	241.6295	0.0754	143.6239	0.5944	468.65	651.42	0.00	0.00	0.00	4683.80	468.65	651.42
5SPUp11-318	0.0611	15.7185	0.8052	22.4647	0.0955	16.0651	0.7144	588.15	90.31	599.73	102.08	641.68	337.92	588.15	90.31
5SPUp11-187	0.0807	16.2852	1.0792	24.0539	0.0969	17.7071	0.7360	596.40	100.88	743.26	127.44	1213.43	320.40	596.40	100.88
5SPUp11-072	0.1018	18.4816	1.3892	19.6188	0.0988	6.5653	0.3355	607.61	38.07	884.35	116.33	1657.81	342.30	607.61	38.07
5SPUp11-102	0.0591	15.0392	0.8124	21.7173	0.0996	15.6752	0.7214	612.08	91.54	603.78	99.16	570.54	327.20	612.08	91.54
5SPUp11-071	0.1495	15.2235	2.1700	23.0647	0.1052	17.3205	0.7512	644.78	106.28	1171.49	161.67	2339.84	260.55	644.78	106.28
5SPUp11-351	0.0740	10.9177	1.0978	16.1060	0.1076	11.8486	0.7352	658.57	74.18	752.29	85.79	1040.12	220.38	658.57	74.18
5SPUp11-135	0.0570	12.1117	0.8569	12.8080	0.1090	4.1192	0.3252	666.89	26.10	628.44	60.08	490.10	267.16	666.89	26.10
5SPUp11-306	0.0784	7.8688	1.2425	11.4246	0.1148	8.2989	0.7250	700.36	55.08	820.01	64.36	1158.16	156.06	700.36	55.08
5SPUp11-384	0.0683	11.3344	1.6118	14.1875	0.1710	8.5371	0.6015	1017.85	80.39	974.82	89.13	877.05	234.64	877.05	234.64
5SPUp11-279	0.0726	7.4813	1.3252	8.5373	0.1322	4.1512	0.4818	800.65	31.26	856.80	49.44	1003.14	151.88	1003.14	151.88
5SPUp11-368	0.0729	16.9691	1.5545	24.4533	0.1545	17.6109	0.7200	926.02	151.94	952.27	152.22	1011.40	344.07	1011.40	344.07
5SPUp11-396	0.0734	15.5048	1.6793	22.6561	0.1658	16.5237	0.7292	989.19	151.55	1000.71	145.17	1024.13	313.79	1024.13	313.79
5SPUp11-155	0.0736	15.6907	1.5087	24.7001	0.1485	19.1443	0.7723	892.45	159.59	933.90	151.95	1030.99	317.16	1030.99	317.16
5SPUp11-291	0.0761	15.9968	1.6855	19.4721	0.1606	11.1136	0.5702	960.01	99.13	1003.07	124.72	1096.52	320.17	1096.52	320.17
5SPUp11-208	0.0766	16.9828	2.0744	23.2783	0.1961	15.8769	0.6839	1154.59	167.87	1140.40	160.81	1111.57	339.15	1111.57	339.15
5SPUp11-270	0.0769	26.0184	1.8517	38.6352	0.1745	28.5629	0.7392	1036.76	273.71	1064.03	260.28	1118.50	519.06	1118.50	519.06
5SPUp11-044	0.0771	16.9672	1.9498	22.5690	0.1832	14.9124	0.6594	1084.55	148.89	1098.39	152.61	1124.06	338.21	1124.06	338.21
5SPUp11-139	0.0783	16.4215	1.7219	22.6204	0.1594	15.5446	0.6877	953.18	137.76	1016.73	146.30	1154.20	325.88	1154.20	325.88
5SPUp11-329	0.0785	8.1646	1.4888	12.7712	0.1374	9.8450	0.7690	829.69	76.65	925.85	77.72	1160.49	161.88	1160.49	161.88
5SPUp11-168	0.0786	4.4925	1.5921	6.0284	0.1468	4.3535	0.6689	883.21	35.93	967.14	37.61	1161.10	89.06	1161.10	89.06
5SPUp11-063	0.0786	19.8773	1.8751	30.6967	0.1729	23.3845	0.7620	1028.16	222.32	1072.35	206.06	1161.41	394.04	1161.41	394.04
5SPUp11-005	0.0801	15.7066	2.1943	21.6662	0.1985	14.9659	0.6888	1167.33	159.83	1179.24	152.26	1199.54	309.64	1199.54	309.64
5SPUp11-238	0.0818	26.5154	2.0808	35.9867	0.1844	24.3064	0.6761	1090.71	244.01	1142.51	251.84	1240.38	519.65	1240.38	519.65
5SPUp11-024	0.0846	26.1768	1.6154	41.4494	0.1384	32.1241	0.7753	835.72	251.92	976.22	265.87	1305.68	508.27	1305.68	508.27
5SPUp11-233	0.0858	15.6058	1.7530	25.0358	0.1481	19.5579	0.7820	890.31	162.67	1028.27	163.26	1332.89	301.86	1332.89	301.86
5SPUp11-092	0.0879	19.1412	2.6965	29.9131	0.2221	22.9911	0.7685	1293.16	269.55	1327.49	225.19	1381.38	367.77	1381.38	367.77
5SPUp11-315	0.0915	17.2156	2.7212	22.3601	0.2156	14.2862	0.6381	1258.41	163.35	1334.27	167.53	1456.34	327.42	1456.34	327.42

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5SPUp11, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.869750, LONGITUDE: -69.946100 REJECTED															
5SPUp11-221	0.0942	17.2821	2.9678	22.9035	0.2282	15.0061	0.6562	1325.05	179.78	1399.41	175.68	1512.79	326.22	1512.79	326.22
5SPUp11-068	0.0987	15.3721	3.7039	21.1614	0.2719	14.5438	0.6872	1550.35	200.48	1572.22	170.78	1599.88	286.90	1599.88	286.90
5SPUp11-394	0.0992	16.4267	3.4837	21.3547	0.2545	13.6498	0.6390	1461.52	178.54	1523.53	170.04	1608.98	306.22	1608.98	306.22
5SPUp11-064	0.1015	8.6030	2.7506	10.5431	0.1964	6.0963	0.5781	1156.01	64.52	1342.26	78.67	1651.19	159.47	1651.19	159.47
5SPUp11-143	0.1033	7.6265	2.7778	12.3076	0.1949	9.6725	0.7849	1147.61	101.69	1349.59	92.14	1684.01	140.79	1684.01	140.79
5SPUp11-171	0.1048	20.6861	4.5599	29.1025	0.3152	20.4814	0.7034	1766.20	316.67	1741.96	247.12	1711.13	380.57	1711.13	380.57
5SPUp11-258	0.1065	7.3854	2.9699	12.3725	0.2021	9.9220	0.8023	1186.37	107.52	1399.94	94.25	1740.35	135.38	1740.35	135.38
5SPUp11-265	0.1071	6.6173	2.9455	12.9166	0.1993	11.0806	0.8588	1171.53	118.71	1393.68	98.22	1750.47	121.15	1750.47	121.15
5SPUp11-263	0.1167	4.2489	4.1030	5.4582	0.2548	3.4179	0.6277	1462.95	44.73	1654.90	44.59	1906.27	76.31	1906.27	76.31
5SPUp11-162	0.1229	9.0315	4.6903	13.4878	0.2766	10.0853	0.7427	1574.09	140.88	1765.51	113.35	1998.31	160.50	1998.31	160.50
5SPUp11-030	0.1252	18.7499	4.9478	24.6775	0.2865	16.0672	0.6502	1623.91	230.75	1810.46	211.45	2030.94	331.93	2030.94	331.93
5SPUp11-036	0.1338	2.9148	5.3307	4.1856	0.2887	3.1235	0.7182	1635.02	45.11	1873.80	35.80	2148.39	50.91	2148.39	50.91
5SPUp11-172	0.1641	14.0647	5.1684	25.1239	0.2281	20.8289	0.8286	1324.72	249.54	1847.43	216.99	2498.81	236.77	2498.81	236.77
5SPUp11-272	0.1862	3.4673	9.3533	4.7421	0.3640	3.2536	0.6822	2000.90	55.97	2373.26	43.53	2708.98	57.19	2708.98	57.19
5SPUp11-193	0.2060	3.4056	11.4320	5.5378	0.4021	4.3926	0.7886	2178.56	81.21	2559.04	51.75	2874.42	55.35	2874.42	55.35
4SPU155, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.876990, LONGITUDE: -69.947950 ACCEPTED															
4SPU155-086	0.1065	40.8854	0.1125	42.6768	0.0077	12.2919	0.2867	49.15	6.02	108.28	43.86	1740.68	749.44	49.15	6.02
4SPU155-251	0.0337	61.9697	0.0365	62.3135	0.0078	6.7703	0.1050	50.33	3.39	36.38	22.27	0.00	1493.75	50.33	3.39
4SPU155-368	0.0639	20.6821	0.0729	21.5078	0.0083	5.9132	0.2744	53.08	3.13	71.46	14.84	738.17	437.65	53.08	3.13
4SPU155-308	0.0493	27.7252	0.0566	28.2678	0.0083	5.4672	0.1950	53.38	2.91	55.91	15.38	163.35	648.18	53.38	2.91
4SPU155-101	0.0591	27.6296	0.0683	29.4723	0.0084	10.2703	0.3480	53.73	5.50	67.10	19.14	571.84	600.99	53.73	5.50
4SPU155-240	0.0470	34.3447	0.0544	34.8056	0.0084	5.8829	0.1623	53.92	3.16	53.82	18.25	47.37	820.46	53.92	3.16
4SPU155-374	0.0632	24.5270	0.0745	25.8451	0.0085	8.1400	0.3153	54.80	4.44	72.94	18.19	715.53	520.92	54.80	4.44
4SPU155-065	0.0659	25.2838	0.0788	25.7048	0.0087	5.0980	0.1811	55.57	2.82	77.02	19.07	804.62	529.37	55.57	2.82
4SPU155-343	0.0617	20.0243	0.0740	21.6956	0.0087	8.3439	0.3849	55.79	4.64	72.46	15.17	662.32	429.01	55.79	4.64
4SPU155-321	0.0526	18.0193	0.0632	18.4485	0.0087	3.9910	0.2144	55.91	2.22	62.26	11.14	311.90	410.00	55.91	2.22
4SPU155-184	0.0701	25.5407	0.0866	26.7060	0.0089	7.7452	0.2922	57.42	4.43	84.29	21.61	931.34	524.23	57.42	4.43
4SPU155-360	0.0520	16.8546	0.0648	19.9819	0.0090	10.7240	0.5371	57.96	6.19	63.73	12.34	284.13	385.43	57.96	6.19
4SPU155-326	0.0514	14.3114	0.0686	14.8910	0.0097	4.2387	0.2764	62.04	2.62	67.41	9.71	260.23	328.69	62.04	2.62
4SPU155-286	0.0611	36.7748	0.0824	37.3925	0.0098	6.7626	0.1810	62.74	4.22	80.42	28.92	641.39	790.63	62.74	4.22
4SPU155-022	0.0516	24.7437	0.0715	25.8171	0.0100	7.4275	0.2854	64.37	4.76	70.15	17.50	269.62	567.33	64.37	4.76
4SPU155-230	0.0456	24.5182	0.0701	25.5204	0.0111	7.1677	0.2775	71.44	5.09	68.79	16.97	0.00	591.00	71.44	5.09
4SPU155-330	0.0520	12.1162	0.0808	12.8780	0.0113	4.3977	0.3389	72.25	3.16	78.91	9.78	283.39	277.11	72.25	3.16
4SPU155-095	0.0569	15.8131	0.0906	19.6402	0.0115	11.6052	0.5931	73.91	8.53	88.09	16.57	489.41	348.85	73.91	8.53
4SPU155-386	0.0666	20.8160	0.1075	22.0201	0.0117	7.1683	0.3262	74.95	5.34	103.70	21.71	825.86	434.37	74.95	5.34
4SPU155-091	0.1275	50.8768	0.2083	52.7792	0.0118	14.0773	0.2661	75.83	10.61	192.13	92.64	2064.32	897.17	75.83	10.61
4SPU155-006	0.0476	15.8428	0.0781	21.5119	0.0119	14.5606	0.6765	76.18	11.03	76.31	15.82	78.32	376.28	76.18	11.03
4SPU155-031	0.0580	20.8667	0.0967	21.5097	0.0121	5.1395	0.2427	77.38	3.95	93.69	19.25	529.55	457.17	77.38	3.95
4SPU155-094	0.0717	63.5130	0.1205	64.6966	0.0122	12.2779	0.1904	78.06	9.53	115.52	70.76	976.35	1294.83	78.06	9.53
4SPU155-159	0.0791	40.7480	0.1353	41.7350	0.0124	9.0743	0.2162	79.41	7.16	128.85	50.54	1174.37	806.25	79.41	7.16
4SPU155-249	0.0866	38.8995	0.1530	39.8590	0.0128	8.9707	0.2182	82.04	7.31	144.58	53.76	1351.01	750.54	82.04	7.31
4SPU155-377	0.0472	21.8817	0.0838	23.9450	0.0129	9.7169	0.4061	82.39	7.95	81.74	18.81	60.30	521.47	82.39	7.95
4SPU155-332	0.0600	20.7028	0.1094	22.5710	0.0132	9.0079	0.3984	84.65	7.58	105.40	22.60	602.05	448.03	84.65	7.58
4SPU155-255	0.0673	17.5728	0.1229	18.3334	0.0132	5.2227	0.2851	84.71	4.40	117.70	20.38	847.92	365.43	84.71	4.40
4SPU155-064	0.0525	9.2475	0.0970	11.7719	0.0134	7.5883	0.6193	85.81	6.47	94.03	10.57	305.60	210.65	85.81	6.47
4SPU155-193	0.0623	17.5261	0.1155	18.4962	0.0134	5.8976	0.3196	85.98	5.04	110.96	19.44	685.10	374.09	85.98	5.04
4SPU155-214	0.0505	9.5085	0.0958	12.0911	0.0137	7.3947	0.6177	87.98	6.46	92.85	10.73	217.66	220.09	87.98	6.46
4SPU155-385	0.0505	7.1775	0.1002	8.6150	0.0144	4.7443	0.5531	91.98	4.33	96.99	7.97	219.80	166.07	91.98	4.33
4SPU155-345	0.0581	9.4330	0.1165	9.9160	0.0145	3.0495	0.3083	92.98	2.82	111.92	10.51	534.17	206.50	92.98	2.82

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
4SPU155, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.876990, LONGITUDE: -69.947950 ACCEPTED															
4SPU155-077	0.0464	10.1366	0.0944	10.9774	0.0147	5.3853	0.3954	94.26	5.04	91.58	9.61	20.02	243.41	94.26	5.04
4SPU155-342	0.0652	14.9149	0.1349	15.7025	0.0150	4.9000	0.3127	95.97	4.67	128.52	18.96	780.34	313.48	95.97	4.67
4SPU155-370	0.0511	5.8035	0.1062	6.5497	0.0151	3.0570	0.4635	96.30	2.92	102.46	6.38	246.02	133.64	96.30	2.92
4SPU155-181	0.0621	9.5863	0.1310	11.5126	0.0153	6.3301	0.5538	97.70	6.14	124.96	13.54	679.04	204.82	97.70	6.14
4SPU155-115	0.0583	5.2748	0.1244	6.3946	0.0155	3.4092	0.5663	98.92	3.35	119.03	7.18	540.20	115.35	98.92	3.35
4SPU155-280	0.0590	9.9807	0.1270	10.9005	0.0156	4.3774	0.4021	99.79	4.33	121.43	12.48	567.29	217.26	99.79	4.33
4SPU155-310	0.0544	11.0902	0.1185	11.7600	0.0158	3.8753	0.3327	100.97	3.88	113.67	12.65	386.40	249.06	100.97	3.88
4SPU155-396	0.0502	15.5929	0.1122	15.9858	0.0162	3.4804	0.2204	103.59	3.58	107.97	16.38	203.57	361.86	103.59	3.58
4SPU155-050	0.0714	23.0194	0.1744	24.0487	0.0177	7.1048	0.2895	113.02	7.96	163.23	36.28	970.09	469.73	113.02	7.96
4SPU155-073	0.0622	12.2253	0.1793	13.8695	0.0209	6.8867	0.4729	133.18	9.08	167.44	21.41	681.90	261.08	133.18	9.08
4SPU155-039	0.0503	21.1700	0.1542	22.3962	0.0222	7.3500	0.3263	141.51	10.29	145.60	30.39	210.52	490.66	141.51	10.29
4SPU155-236	0.0532	7.7656	0.1656	8.5327	0.0226	4.0064	0.4176	143.81	5.70	155.59	12.31	336.96	175.94	143.81	5.70
4SPU155-033	0.0477	17.8528	0.1494	18.3750	0.0227	4.2525	0.2368	144.73	6.09	141.36	24.25	82.92	423.65	144.73	6.09
4SPU155-127	0.0687	15.4142	0.2240	17.4229	0.0236	8.0222	0.4662	150.52	11.93	205.21	32.38	889.52	318.48	150.52	11.93
4SPU155-373	0.0488	11.5864	0.1612	14.9465	0.0239	9.4376	0.6317	152.56	14.23	151.75	21.07	136.77	272.21	152.56	14.23
4SPU155-014	0.0490	8.2540	0.1624	8.8886	0.0240	3.3659	0.3711	152.94	5.09	152.81	12.61	148.68	193.49	152.94	5.09
4SPU155-051	0.0580	9.0737	0.1944	9.5940	0.0243	3.4269	0.3263	154.67	5.24	180.40	15.86	530.20	198.77	154.67	5.24
4SPU155-017	0.0556	11.1131	0.1864	11.7568	0.0243	3.8951	0.3264	154.82	5.96	173.59	18.76	435.62	247.42	154.82	5.96
4SPU155-203	0.0550	14.7203	0.1860	17.2073	0.0245	8.8668	0.5179	156.06	13.67	173.21	27.41	412.36	329.06	156.06	13.67
4SPU155-007	0.0713	15.3077	0.2435	16.3120	0.0247	5.6569	0.3455	157.46	8.80	221.26	32.44	967.44	312.49	157.46	8.80
4SPU155-139	0.0554	14.3053	0.2031	17.9960	0.0265	10.8643	0.6067	168.84	18.11	187.71	30.85	429.92	318.80	168.84	18.11
4SPU155-245	0.0423	18.8316	0.1753	21.8697	0.0300	11.3384	0.5086	190.53	21.29	164.00	33.13	0.00	453.93	190.53	21.29
4SPU155-352	0.0680	14.6222	0.2861	15.1848	0.0305	4.0894	0.2697	193.60	7.80	255.47	34.31	868.19	303.12	193.60	7.80
4SPU155-016	0.0485	25.1458	0.2208	25.5711	0.0330	4.6926	0.1816	209.29	9.66	202.58	47.00	123.05	592.28	209.29	9.66
4SPU155-058	0.0749	18.9978	0.3617	20.1114	0.0350	7.1509	0.3292	221.72	15.59	313.49	54.30	1065.60	382.00	221.72	15.59
4SPU155-089	0.0516	6.2702	0.2778	7.9438	0.0390	5.0182	0.6142	246.85	12.15	248.89	17.54	265.84	143.86	246.85	12.15
4SPU155-105	0.0715	11.7047	0.3881	12.2941	0.0393	4.0167	0.3066	248.59	9.80	332.96	34.91	972.15	238.77	248.59	9.80
4SPU155-254	0.0532	4.6428	0.2974	5.1775	0.0405	2.2839	0.4426	256.18	5.74	264.37	12.05	335.60	105.21	256.18	5.74
4SPU155-340	0.0529	11.2027	0.2969	15.2291	0.0407	10.3111	0.6774	256.99	25.98	263.97	35.41	324.20	254.34	256.99	25.98
4SPU155-110	0.0651	7.5184	0.3801	10.1398	0.0423	6.6965	0.6711	267.12	17.52	327.13	28.37	777.53	158.09	267.12	17.52
4SPU155-062	0.0655	10.3706	0.3863	12.9684	0.0427	8.0609	0.6008	269.84	21.30	331.64	36.71	789.42	217.66	269.84	21.30
4SPU155-018	0.0524	4.2535	0.3104	5.7116	0.0429	3.8705	0.6675	271.06	10.27	274.51	13.74	301.92	96.96	271.06	10.27
4SPU155-353	0.0606	5.3478	0.3666	6.7928	0.0439	4.1828	0.6166	276.68	11.33	317.11	18.50	623.84	115.31	276.68	11.33
4SPU155-155	0.0575	3.9110	0.3506	5.1910	0.0442	3.5471	0.6580	278.69	9.67	305.18	13.68	510.80	85.96	278.69	9.67
4SPU155-180	0.0538	8.6212	0.3291	11.2134	0.0443	7.1304	0.6395	279.67	19.52	288.88	28.20	361.90	194.46	279.67	19.52
4SPU155-005	0.0558	13.6096	0.3415	17.6129	0.0443	11.1909	0.6348	279.73	30.64	298.30	45.56	444.20	302.54	279.73	30.64
4SPU155-175	0.0535	6.9286	0.3370	9.0562	0.0457	6.1123	0.6447	287.93	17.21	294.89	23.18	348.27	156.66	287.93	17.21
4SPU155-071	0.0621	9.4631	0.4365	9.9949	0.0509	3.8560	0.3271	319.98	12.04	367.75	30.85	678.91	202.19	319.98	12.04
4SPU155-224	0.0525	5.3347	0.3703	5.9369	0.0511	2.2661	0.4431	321.33	7.10	319.86	16.29	307.12	121.49	321.33	7.10
4SPU155-231	0.0559	3.7877	0.5077	4.8557	0.0658	3.2344	0.6269	410.71	12.87	416.88	16.60	449.14	84.13	410.71	12.87
4SPU155-145	0.0587	5.2336	0.6131	6.8901	0.0756	4.5962	0.6506	470.03	20.83	485.52	26.60	557.14	114.12	470.03	20.83
4SPU155-246	0.0701	6.5903	0.7444	8.5446	0.0770	5.8722	0.6384	478.17	27.06	564.95	37.04	929.91	135.30	478.17	27.06
4SPU155-389	0.0585	8.5264	0.6231	11.3825	0.0772	7.5278	0.6625	479.52	34.79	491.81	44.40	547.35	186.24	479.52	34.79
4SPU155-372	0.0650	3.1613	0.7352	4.0304	0.0820	2.4807	0.6203	508.10	12.12	559.61	17.34	773.01	66.52	508.10	12.12
4SPU155-019	0.0697	4.8561	0.7906	8.7834	0.0822	7.3496	0.8333	509.46	36.00	591.51	39.40	918.37	99.87	509.46	36.00
4SPU155-156	0.0633	12.2871	0.7201	13.1238	0.0824	4.7108	0.3514	510.66	23.13	550.71	55.84	717.93	260.86	510.66	23.13
4SPU155-026	0.0748	6.3628	0.8658	9.4251	0.0839	6.9544	0.7377	519.46	34.71	633.26	44.44	1061.90	128.01	519.46	34.71
4SPU155-294	0.0586	7.5831	0.6804	10.5678	0.0842	7.3365	0.6965	520.90	36.71	526.99	43.47	551.43	165.52	520.90	36.71
4SPU155-260	0.0690	4.1439	0.8069	5.0739	0.0847	2.9246	0.5771	524.21	14.72	600.74	23.01	899.39	85.49	524.21	14.72
4SPU155-267	0.0576	5.1695	0.6768	6.3272	0.0851	3.6455	0.5766	526.41	18.43	524.86	25.94	516.11	113.52	526.41	18.43

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
4SPU155, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.876990, LONGITUDE: -69.947950 ACCEPTED															
4SPU155-300	0.0597	5.6085	0.7016	8.1678	0.0851	5.9269	0.7270	526.44	29.96	539.74	34.21	594.30	121.53	526.44	29.96
4SPU155-074	0.0612	6.3077	0.7268	7.6008	0.0861	5.4068	0.5745	532.43	27.63	554.68	32.49	644.91	135.53	532.43	27.63
4SPU155-010	0.0587	6.5682	0.7106	8.9497	0.0877	6.0938	0.6792	541.97	31.68	545.09	37.77	556.17	143.25	541.97	31.68
4SPU155-002	0.0613	3.6470	0.7504	4.7188	0.0886	3.0352	0.6346	547.45	15.93	568.46	20.54	651.48	78.28	547.45	15.93
4SPU155-296	0.0617	3.6868	0.7615	4.8030	0.0895	2.9823	0.6412	552.35	15.79	574.89	21.09	663.06	78.98	552.35	15.79
4SPU155-323	0.0591	2.5938	0.7345	3.3671	0.0901	2.2106	0.6379	555.87	11.77	559.18	14.48	570.61	56.43	555.87	11.77
4SPU155-040	0.0591	6.3833	0.7424	8.3212	0.0910	5.3944	0.6416	561.24	29.00	563.82	36.02	572.13	138.84	561.24	29.00
4SPU155-327	0.0569	3.9238	0.7189	4.5208	0.0915	2.4664	0.4988	564.69	13.34	550.01	19.20	487.60	86.59	564.69	13.34
4SPU155-336	0.0617	3.7641	0.7842	4.2761	0.0921	2.0693	0.4746	567.82	11.25	587.86	19.09	663.96	80.62	567.82	11.25
4SPU155-189	0.0580	5.5392	0.7392	6.5705	0.0924	3.4047	0.5382	569.48	18.56	561.93	28.36	529.44	121.36	569.48	18.56
4SPU155-054	0.0611	6.1724	0.7788	7.8887	0.0924	5.1151	0.6232	569.79	27.89	584.79	35.08	641.28	132.70	569.79	27.89
4SPU155-239	0.0593	3.9859	0.7572	4.4035	0.0926	2.6558	0.4513	570.87	14.51	572.41	19.27	576.58	86.63	570.87	14.51
4SPU155-351	0.0614	11.2630	0.7886	15.0125	0.0930	9.9233	0.6612	573.15	54.42	590.36	67.31	655.01	241.60	573.15	54.42
4SPU155-035	0.0676	5.4238	0.8692	6.9015	0.0931	4.3378	0.6184	574.06	23.82	635.12	32.60	856.93	112.63	574.06	23.82
4SPU155-194	0.0575	9.2539	0.7407	12.8250	0.0933	8.8146	0.6924	574.80	48.47	562.81	55.47	512.60	203.33	574.80	48.47
4SPU155-199	0.0764	8.9087	0.9874	10.1482	0.0936	4.7405	0.4791	576.90	26.16	697.37	51.24	1106.11	178.05	576.90	26.16
4SPU155-335	0.0598	6.7507	0.7761	9.1234	0.0940	6.1506	0.6727	579.18	34.07	583.28	40.50	597.23	146.21	579.18	34.07
4SPU155-135	0.0716	11.2656	0.9317	12.3099	0.0943	4.8411	0.4032	580.65	26.88	668.55	60.36	975.30	229.71	580.65	26.88
4SPU155-056	0.0914	19.8388	1.1925	20.4980	0.0946	5.8457	0.2535	582.45	32.56	797.14	113.68	1454.39	377.41	582.45	32.56
4SPU155-001	0.0601	11.0324	0.7889	15.5869	0.0952	11.0219	0.7064	586.15	61.76	590.54	69.90	605.50	238.62	586.15	61.76
4SPU155-318	0.0610	3.8844	0.8103	4.7791	0.0963	2.6770	0.5830	592.68	15.16	602.63	21.72	638.23	83.56	592.68	15.16
4SPU155-081	0.0604	11.0236	0.8110	14.7949	0.0973	9.9380	0.6670	598.78	56.83	603.02	67.37	616.77	237.98	598.78	56.83
4SPU155-197	0.0603	7.3387	0.8360	9.7520	0.1005	6.3321	0.6586	617.55	37.29	616.93	45.12	612.67	158.53	617.55	37.29
4SPU155-009	0.0646	9.5337	0.9007	10.2729	0.1010	3.8585	0.3725	620.04	22.81	652.12	49.47	762.86	200.94	620.04	22.81
4SPU155-125	0.0603	9.7871	0.8401	13.9684	0.1010	9.8855	0.7135	620.38	58.47	619.20	64.84	612.69	211.43	620.38	58.47
4SPU155-174	0.0603	4.3228	0.8454	5.2004	0.1016	3.2088	0.5589	623.49	19.07	622.13	24.20	615.13	93.35	623.49	19.07
4SPU155-371	0.0617	2.7519	0.8703	3.6462	0.1022	2.3621	0.6561	627.43	14.12	635.72	17.23	663.22	58.95	627.43	14.12
4SPU155-313	0.0595	3.4133	0.8400	4.8656	0.1023	3.4258	0.7127	627.99	20.50	619.12	22.56	584.81	74.08	627.99	20.50
4SPU155-037	0.0616	5.0067	0.8803	5.9727	0.1035	3.3481	0.5455	635.02	20.25	641.16	28.40	660.79	107.29	635.02	20.25
4SPU155-315	0.0617	5.6248	0.8894	7.6290	0.1044	5.0971	0.6756	640.06	31.06	646.03	36.48	664.96	120.46	640.06	31.06
4SPU155-003	0.0622	2.9548	0.8990	4.3075	0.1047	3.1732	0.7277	641.91	19.39	651.19	20.71	681.54	63.11	641.91	19.39
4SPU155-111	0.0655	4.2122	0.9534	5.2530	0.1054	2.8993	0.5994	645.92	17.82	679.87	26.04	791.81	88.37	645.92	17.82
4SPU155-400	0.0613	5.1658	0.8956	6.4576	0.1059	3.8369	0.6001	648.81	23.68	649.39	30.99	649.34	110.91	648.81	23.68
4SPU155-238	0.0626	3.4987	0.9264	3.9567	0.1072	2.6390	0.4970	656.38	16.47	665.75	19.32	695.69	74.55	656.38	16.47
4SPU155-162	0.0632	6.1438	0.9916	8.1372	0.1136	5.3770	0.6557	693.79	35.37	699.55	41.16	716.04	130.47	693.79	35.37
4SPU155-229	0.0634	6.2315	1.0015	8.8374	0.1145	6.1332	0.7092	698.59	40.61	704.56	44.93	721.73	132.21	698.59	40.61
4SPU155-158	0.0639	4.1044	1.0745	5.8911	0.1218	4.3347	0.7176	740.66	30.33	740.95	30.99	739.76	86.83	740.66	30.33
4SPU155-306	0.0678	7.6473	1.1645	8.2398	0.1244	2.9873	0.3725	755.78	21.30	784.08	45.04	863.54	158.64	755.78	21.30
4SPU155-303	0.0695	4.3352	1.2025	5.2396	0.1254	2.9206	0.5617	761.76	20.98	801.74	29.05	912.60	89.23	761.76	20.98
4SPU155-076	0.0661	5.8712	1.1503	7.1835	0.1260	5.3273	0.5946	765.29	38.44	777.37	39.04	810.06	122.82	765.29	38.44
4SPU155-331	0.0670	8.5795	1.3604	11.1651	0.1471	7.1659	0.6399	884.96	59.26	872.03	65.43	837.35	178.71	837.35	178.71
4SPU155-060	0.0687	6.9453	1.3216	7.8112	0.1394	4.1385	0.4625	841.06	32.63	855.20	45.18	889.94	143.49	889.94	143.49
4SPU155-055	0.0689	5.5058	1.3470	7.9388	0.1416	6.3479	0.7243	853.86	50.77	866.26	46.30	896.01	113.65	896.01	113.65
4SPU155-152	0.0691	3.3477	1.4692	3.9710	0.1540	2.2531	0.5386	923.35	19.38	917.82	24.00	902.53	69.03	902.53	69.03
4SPU155-120	0.0692	5.3822	1.5012	7.6762	0.1571	5.4971	0.7130	940.44	48.10	930.85	46.81	906.13	110.92	906.13	110.92
4SPU155-221	0.0699	6.9983	1.5871	9.0758	0.1644	5.6826	0.6368	981.43	51.73	965.18	56.59	926.49	143.75	926.49	143.75
4SPU155-250	0.0707	12.0210	1.3859	18.3302	0.1420	13.9498	0.7550	855.80	111.81	882.95	108.52	949.78	246.05	949.78	246.05
4SPU155-141	0.0708	3.2573	1.5554	4.5131	0.1593	3.0028	0.6927	952.74	26.60	952.66	27.90	950.45	66.66	950.45	66.66
4SPU155-334	0.0714	5.4914	1.3681	8.8421	0.1388	6.9420	0.7838	837.59	54.53	875.35	51.91	970.18	112.06	970.18	112.06
4SPU155-220	0.0716	5.8598	1.5572	6.8554	0.1576	3.3996	0.5195	943.42	29.84	953.35	42.41	974.49	119.50	974.49	119.50

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
4SPU155, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.876990, LONGITUDE: -69.947950 ACCEPTED															
4SPU155-130	0.0716	3.6358	1.6952	4.8645	0.1715	3.0653	0.6653	1020.62	28.93	1006.71	31.08	974.53	74.14	974.53	74.14
4SPU155-044	0.0718	10.4874	1.6076	14.5147	0.1622	10.1825	0.6914	968.97	91.61	973.18	91.10	980.64	213.61	980.64	213.61
4SPU155-281	0.0720	6.2337	1.6921	8.7505	0.1702	6.1372	0.7018	1013.11	57.54	1005.54	55.90	987.23	126.85	987.23	126.85
4SPU155-218	0.0724	8.3269	1.6816	11.7863	0.1682	8.2751	0.7077	1002.29	76.82	1001.59	75.18	998.20	169.17	998.20	169.17
4SPU155-102	0.0725	3.9253	1.6921	4.8825	0.1690	2.9476	0.5948	1006.81	27.48	1005.57	31.17	1000.77	79.72	1000.77	79.72
4SPU155-148	0.0728	5.3964	1.7548	6.1071	0.1747	3.0360	0.4690	1038.17	29.11	1028.92	39.52	1007.31	109.49	1007.31	109.49
4SPU155-027	0.0729	4.7065	1.7555	6.8146	0.1745	4.9299	0.7232	1036.98	47.22	1029.18	44.11	1010.70	95.44	1010.70	95.44
4SPU155-083	0.0729	5.9501	1.6485	7.2546	0.1638	4.3151	0.5725	978.13	39.16	988.98	45.88	1011.04	120.65	1011.04	120.65
4SPU155-108	0.0731	3.6102	1.7724	4.1733	0.1758	2.5241	0.5105	1043.94	24.33	1035.40	27.10	1015.35	73.16	1015.35	73.16
4SPU155-021	0.0734	13.2346	1.7445	18.8489	0.1721	13.4545	0.7120	1023.80	127.38	1025.11	122.24	1026.01	267.77	1026.01	267.77
4SPU155-376	0.0735	10.7747	1.8151	14.8822	0.1789	10.2592	0.6898	1060.96	100.37	1050.91	97.73	1028.13	217.93	1028.13	217.93
4SPU155-263	0.0736	5.3607	1.5540	6.8480	0.1530	4.2588	0.6223	917.65	36.43	952.08	42.33	1030.72	108.36	1030.72	108.36
4SPU155-234	0.0736	7.4612	1.8669	9.9017	0.1838	6.6034	0.6575	1087.44	66.08	1069.44	65.56	1031.09	150.81	1031.09	150.81
4SPU155-322	0.0737	3.7116	1.7483	5.3234	0.1719	3.8523	0.7169	1022.66	36.43	1026.52	34.40	1032.87	75.00	1032.87	75.00
4SPU155-143	0.0737	4.4797	1.5903	6.0347	0.1563	3.9508	0.6702	936.22	34.43	966.43	37.64	1033.80	90.51	1033.80	90.51
4SPU155-042	0.0737	4.5435	1.7712	5.3152	0.1740	2.8655	0.5193	1034.33	27.38	1034.97	34.51	1034.28	91.79	1034.28	91.79
4SPU155-309	0.0739	5.1221	1.7397	6.4474	0.1705	3.8528	0.6074	1014.84	36.18	1023.34	41.59	1039.66	103.40	1039.66	103.40
4SPU155-314	0.0740	8.1341	1.8041	11.7642	0.1766	8.4646	0.7225	1048.58	81.92	1046.96	77.00	1041.69	164.15	1041.69	164.15
4SPU155-329	0.0740	5.0239	1.7785	6.8034	0.1741	4.6999	0.6745	1034.51	44.92	1037.63	44.25	1042.32	101.37	1042.32	101.37
4SPU155-107	0.0741	4.7159	1.7503	6.8659	0.1712	5.1855	0.7273	1018.83	48.87	1027.27	44.40	1043.23	95.15	1043.23	95.15
4SPU155-093	0.0741	3.1082	1.7470	4.2160	0.1709	3.0142	0.6767	1017.00	28.36	1026.05	27.23	1043.32	62.71	1043.32	62.71
4SPU155-173	0.0741	3.1216	1.7806	3.8761	0.1741	2.6869	0.6001	1034.55	25.68	1038.38	25.21	1044.55	62.97	1044.55	62.97
4SPU155-258	0.0745	3.2818	1.8295	4.6236	0.1780	3.2515	0.7044	1056.09	31.67	1056.10	30.36	1054.31	66.10	1054.31	66.10
4SPU155-080	0.0750	10.7270	1.7328	15.1532	0.1675	10.7677	0.7063	998.07	99.57	1020.78	97.86	1067.75	215.63	1067.75	215.63
4SPU155-208	0.0750	4.3510	1.6001	5.6002	0.1546	3.1612	0.6333	926.79	27.29	970.26	35.01	1068.21	87.46	1068.21	87.46
4SPU155-177	0.0751	2.8575	1.9898	3.0943	0.1919	2.1819	0.4569	1131.70	22.65	1112.04	20.91	1071.90	57.40	1071.90	57.40
4SPU155-223	0.0752	8.1986	1.8202	11.1060	0.1755	7.4179	0.6746	1042.39	71.40	1052.76	72.91	1072.52	164.68	1072.52	164.68
4SPU155-211	0.0752	10.7465	1.8610	14.7039	0.1792	9.9242	0.6826	1062.70	97.24	1067.33	97.41	1074.97	215.79	1074.97	215.79
4SPU155-030	0.0753	11.8269	1.7229	17.1452	0.1657	12.3792	0.7240	988.42	113.45	1017.12	110.59	1077.52	237.39	1077.52	237.39
4SPU155-273	0.0754	6.8162	1.7785	9.1775	0.1709	6.1471	0.6696	1016.90	57.83	1037.65	59.72	1079.79	136.77	1079.79	136.77
4SPU155-046	0.0756	3.9904	1.6603	6.2491	0.1592	5.1108	0.7710	952.09	45.24	993.49	39.62	1084.04	80.02	1084.04	80.02
4SPU155-161	0.0757	4.6815	1.8975	6.1799	0.1817	4.0889	0.6529	1076.21	40.53	1080.21	41.12	1086.36	93.84	1086.36	93.84
4SPU155-068	0.0758	8.4447	1.8353	11.4743	0.1754	8.0540	0.6775	1041.95	77.49	1058.16	75.55	1089.71	169.19	1089.71	169.19
4SPU155-215	0.0763	11.4267	1.9760	15.7699	0.1877	10.8174	0.6892	1109.00	110.22	1107.37	106.71	1102.36	228.51	1102.36	228.51
4SPU155-395	0.0764	3.6589	1.8326	4.8198	0.1739	3.0900	0.6510	1033.59	29.51	1057.22	31.67	1104.41	73.15	1104.41	73.15
4SPU155-325	0.0764	5.3102	1.9777	7.3445	0.1877	5.1755	0.6910	1108.64	52.72	1107.93	49.57	1104.65	106.15	1104.65	106.15
4SPU155-301	0.0764	9.0596	1.8755	13.1446	0.1779	9.5171	0.7246	1055.56	92.67	1072.47	87.27	1105.17	181.09	1105.17	181.09
4SPU155-190	0.0765	3.9094	1.9107	5.4729	0.1810	3.8086	0.6998	1072.28	37.62	1084.83	36.49	1108.28	78.11	1108.28	78.11
4SPU155-043	0.0766	6.2548	1.7926	7.3637	0.1695	3.9628	0.5278	1009.50	37.03	1042.77	48.03	1111.18	124.92	1111.18	124.92
4SPU155-319	0.0767	9.0021	1.7371	9.6487	0.1641	3.3875	0.3600	979.26	30.78	1022.37	62.25	1113.98	179.71	1113.98	179.71
4SPU155-082	0.0769	5.9635	1.8539	7.7582	0.1746	5.1011	0.6399	1037.65	48.89	1064.82	51.22	1118.85	118.96	1118.85	118.96
4SPU155-201	0.0769	9.6891	1.7910	12.3500	0.1687	7.6066	0.6201	1004.69	70.77	1042.17	80.64	1119.79	193.26	1119.79	193.26
4SPU155-289	0.0772	5.4920	1.9105	6.7115	0.1794	3.8468	0.5748	1063.73	37.72	1084.75	44.76	1125.40	109.45	1125.40	109.45
4SPU155-165	0.0772	4.7334	2.0764	7.0687	0.1950	5.2704	0.7427	1148.27	55.44	1141.04	48.48	1125.41	94.33	1125.41	94.33
4SPU155-128	0.0773	9.0846	1.9947	13.6614	0.1871	10.1241	0.7469	1105.39	102.85	1113.71	92.65	1127.98	180.98	1127.98	180.98
4SPU155-391	0.0773	6.2762	1.8521	6.8535	0.1736	2.7174	0.4017	1032.11	25.92	1064.19	45.22	1128.64	125.02	1128.64	125.02
4SPU155-275	0.0773	6.6110	2.1293	9.3973	0.1995	6.6964	0.7107	1172.80	71.81	1158.36	65.02	1129.63	131.67	1129.63	131.67
4SPU155-025	0.0774	3.3664	1.9126	4.9764	0.1790	3.6673	0.7365	1061.66	35.90	1085.49	33.19	1131.77	67.03	1131.77	67.03
4SPU155-266	0.0775	6.8175	1.9502	9.8348	0.1824	7.0869	0.7207	1080.15	70.48	1098.52	66.11	1133.31	135.71	1133.31	135.71
4SPU155-160	0.0778	12.2575	2.1894	17.8550	0.2040	13.0000	0.7271	1196.62	142.00	1177.68	125.08	1141.13	243.71	1141.13	243.71

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
4SPU155, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.876990, LONGITUDE: -69.947950 ACCEPTED															
4SPU155-047	0.0778	5.8616	1.8833	7.3371	0.1754	4.7400	0.6030	1041.85	45.60	1075.24	48.70	1141.58	116.54	1141.58	116.54
4SPU155-114	0.0782	5.2653	1.7354	6.6569	0.1608	3.8919	0.6125	961.47	34.76	1021.77	42.91	1151.28	104.53	1151.28	104.53
4SPU155-256	0.0782	2.5395	2.2547	3.0928	0.2088	1.7555	0.5708	1222.48	19.55	1198.25	21.76	1153.03	50.40	1153.03	50.40
4SPU155-069	0.0784	7.4888	2.0133	9.7231	0.1861	6.5557	0.6388	1100.01	66.30	1119.99	66.06	1156.93	148.55	1156.93	148.55
4SPU155-383	0.0784	5.7779	2.1329	7.8432	0.1971	5.2911	0.6763	1159.48	56.15	1159.54	54.27	1157.73	114.60	1157.73	114.60
4SPU155-079	0.0785	6.0780	1.7331	6.9483	0.1601	4.7523	0.5136	957.11	42.27	1020.91	44.77	1158.30	120.54	1158.30	120.54
4SPU155-399	0.0785	6.5227	1.9446	8.8550	0.1795	5.9641	0.6763	1064.20	58.51	1096.57	59.44	1159.49	129.34	1159.49	129.34
4SPU155-178	0.0787	8.9312	1.9633	11.8409	0.1808	7.9870	0.6568	1071.46	78.85	1103.01	79.82	1163.92	176.98	1163.92	176.98
4SPU155-153	0.0787	4.6208	2.2320	5.6296	0.2054	3.2948	0.5714	1204.35	36.20	1191.13	39.50	1165.29	91.55	1165.29	91.55
4SPU155-196	0.0789	9.7141	1.8403	10.5706	0.1690	4.0280	0.3945	1006.84	37.55	1059.96	69.65	1169.19	192.35	1169.19	192.35
4SPU155-304	0.0789	6.1188	2.0442	8.3714	0.1877	5.6702	0.6825	1108.70	57.76	1130.36	57.14	1170.38	121.14	1170.38	121.14
4SPU155-183	0.0789	7.3447	2.1927	9.9820	0.2012	6.7175	0.6772	1182.02	72.55	1178.74	69.72	1170.86	145.40	1170.86	145.40
4SPU155-316	0.0790	5.3405	1.9454	7.5358	0.1785	5.2615	0.7056	1059.02	51.39	1096.87	50.58	1170.90	105.72	1170.90	105.72
4SPU155-090	0.0790	10.4552	2.0827	14.8122	0.1911	10.5386	0.7084	1127.38	109.01	1143.14	101.95	1171.12	206.97	1171.12	206.97
4SPU155-365	0.0793	11.5305	2.2349	17.1497	0.2043	12.6999	0.7402	1198.29	138.90	1192.07	120.87	1178.91	227.99	1178.91	227.99
4SPU155-320	0.0795	9.8047	2.2258	13.1864	0.2030	8.8333	0.6687	1191.17	96.08	1189.19	92.64	1183.75	193.73	1183.75	193.73
4SPU155-131	0.0795	5.6833	2.0130	7.9474	0.1835	5.4601	0.6991	1086.11	54.58	1119.90	53.96	1184.10	112.29	1184.10	112.29
4SPU155-347	0.0796	3.4500	1.9555	4.2366	0.1780	2.4498	0.5804	1056.16	23.87	1100.34	28.47	1186.90	68.14	1186.90	68.14
4SPU155-132	0.0796	7.1434	2.0836	9.4040	0.1897	6.0298	0.6504	1119.54	61.97	1143.42	64.61	1187.05	141.08	1187.05	141.08
4SPU155-164	0.0798	2.8149	1.9539	4.1729	0.1774	3.1153	0.7383	1052.63	30.26	1099.77	28.03	1192.38	55.55	1192.38	55.55
4SPU155-302	0.0802	11.8215	1.8885	16.8069	0.1706	11.9413	0.7108	1015.24	112.18	1077.06	112.03	1202.56	232.94	1202.56	232.94
4SPU155-217	0.0803	8.4207	2.3907	11.7425	0.2158	8.1165	0.6970	1259.57	92.87	1239.82	84.26	1203.87	165.90	1203.87	165.90
4SPU155-253	0.0804	5.0264	1.8738	6.4529	0.1689	4.4134	0.6295	1006.04	41.11	1071.89	42.75	1206.62	98.99	1206.62	98.99
4SPU155-237	0.0804	5.0390	2.2738	7.3188	0.2049	5.6324	0.7265	1201.34	61.74	1204.18	51.66	1207.51	99.22	1207.51	99.22
4SPU155-118	0.0805	5.3234	2.1426	7.8571	0.1930	5.6525	0.7357	1137.34	58.94	1162.66	54.45	1208.14	104.81	1208.14	104.81
4SPU155-379	0.0806	14.9262	2.0146	18.3457	0.1810	10.6601	0.5814	1072.52	105.34	1120.46	125.12	1212.73	293.69	1212.73	293.69
4SPU155-092	0.0810	7.7257	2.2858	10.9271	0.2045	7.7902	0.7072	1199.54	85.27	1207.91	77.33	1220.87	151.83	1220.87	151.83
4SPU155-191	0.0811	4.6739	2.3532	6.1719	0.2103	4.0104	0.6531	1230.40	44.92	1228.54	44.01	1223.45	91.82	1223.45	91.82
4SPU155-023	0.0811	4.8658	2.3399	7.5508	0.2090	5.8511	0.7648	1223.55	65.21	1224.49	53.76	1224.30	95.58	1224.30	95.58
4SPU155-182	0.0813	8.0684	2.0349	9.1646	0.1814	4.2801	0.4743	1074.86	42.37	1127.25	62.47	1227.79	158.41	1227.79	158.41
4SPU155-367	0.0817	10.1668	2.0545	10.6131	0.1823	3.0663	0.2870	1079.51	30.48	1133.80	72.61	1237.38	199.33	1237.38	199.33
4SPU155-293	0.0817	6.0551	2.3395	8.5858	0.2074	6.0581	0.7090	1214.87	67.08	1224.37	61.15	1239.36	118.69	1239.36	118.69
4SPU155-216	0.0819	3.4977	2.3635	4.6490	0.2092	2.8769	0.6600	1224.66	32.09	1231.63	33.18	1242.08	68.53	1242.08	68.53
4SPU155-020	0.0824	7.6203	2.5054	10.9478	0.2204	7.9172	0.7180	1283.93	92.17	1273.60	79.61	1254.36	149.04	1254.36	149.04
4SPU155-380	0.0829	9.1265	2.4662	12.7586	0.2155	8.9080	0.6988	1257.83	101.80	1262.19	92.43	1267.74	178.16	1267.74	178.16
4SPU155-179	0.0830	4.5534	2.3402	5.4637	0.2042	3.5312	0.5595	1197.80	38.60	1224.59	38.89	1270.24	88.86	1270.24	88.86
4SPU155-358	0.0832	3.5457	2.1203	5.8148	0.1848	4.5749	0.7926	1092.91	45.99	1155.42	40.14	1272.78	69.17	1272.78	69.17
4SPU155-121	0.0832	9.7619	2.6641	15.7898	0.2319	12.4212	0.7860	1344.56	150.77	1318.56	117.09	1274.57	190.38	1274.57	190.38
4SPU155-109	0.0834	9.6263	2.2798	14.1350	0.1982	10.4461	0.7323	1165.38	111.38	1206.05	100.09	1277.64	187.66	1277.64	187.66
4SPU155-096	0.0836	3.9348	2.0893	4.7932	0.1811	2.5474	0.5725	1072.88	25.18	1145.29	32.93	1283.11	76.65	1283.11	76.65
4SPU155-144	0.0838	7.6633	2.0825	10.1344	0.1801	6.5757	0.6544	1067.38	64.69	1143.06	69.63	1287.73	149.18	1287.73	149.18
4SPU155-390	0.0844	8.4998	2.5517	13.9344	0.2191	11.0330	0.7924	1277.08	127.84	1286.94	101.99	1301.54	165.14	1301.54	165.14
4SPU155-384	0.0845	3.8789	2.2127	4.9771	0.1898	3.0967	0.6266	1120.51	31.85	1185.07	34.82	1303.01	75.34	1303.01	75.34
4SPU155-226	0.0845	8.0657	2.3838	12.4623	0.2044	9.4128	0.7623	1198.70	102.97	1237.75	89.37	1304.65	156.63	1304.65	156.63
4SPU155-346	0.0845	14.2144	2.6298	21.0897	0.2254	15.5782	0.7387	1310.21	184.75	1309.01	156.37	1305.22	276.02	1305.22	276.02
4SPU155-207	0.0855	6.6040	2.5813	8.4702	0.2188	5.0689	0.6268	1275.50	58.66	1295.34	62.07	1326.59	127.85	1326.59	127.85
4SPU155-053	0.0856	12.1427	2.6561	17.1223	0.2249	12.1557	0.7050	1307.86	143.91	1316.33	126.96	1328.19	235.03	1328.19	235.03
4SPU155-198	0.0857	6.2172	2.6834	9.8613	0.2268	7.5791	0.7763	1317.57	90.32	1323.90	73.07	1332.37	120.27	1332.37	120.27
4SPU155-168	0.0859	4.2947	2.3355	4.9308	0.1971	2.4666	0.4914	1159.78	26.18	1223.16	35.07	1334.88	83.05	1334.88	83.05
4SPU155-052	0.0859	3.0190	2.6132	3.8119	0.2204	2.7291	0.6183	1284.17	31.78	1304.36	28.00	1335.77	58.37	1335.77	58.37

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
4SPU155, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.876990, LONGITUDE: -69.947950 ACCEPTED															
4SPU155-041	0.0860	8.5220	2.5460	12.2107	0.2146	8.7795	0.7162	1253.07	99.99	1285.28	89.25	1337.65	164.73	1337.65	164.73
4SPU155-024	0.0861	5.6503	2.2892	8.2709	0.1926	6.1138	0.7303	1135.57	63.66	1208.96	58.51	1340.69	109.17	1340.69	109.17
4SPU155-295	0.0868	6.8388	2.6491	8.9385	0.2211	5.7049	0.6439	1287.47	66.58	1314.38	65.98	1356.77	131.84	1356.77	131.84
4SPU155-282	0.0873	7.5695	2.5677	9.8887	0.2131	6.3595	0.6435	1245.30	72.02	1291.49	72.39	1367.36	145.72	1367.36	145.72
4SPU155-028	0.0876	5.9896	2.3639	8.7207	0.1955	6.3396	0.7268	1151.22	66.84	1231.75	62.30	1373.76	115.20	1373.76	115.20
4SPU155-210	0.0876	5.7601	2.6255	7.4644	0.2172	4.5068	0.6369	1266.81	51.83	1307.80	54.94	1373.92	110.79	1373.92	110.79
4SPU155-185	0.0880	4.3615	2.6588	6.3889	0.2190	4.5716	0.7309	1276.77	52.95	1317.09	47.18	1381.53	83.80	1381.53	83.80
4SPU155-188	0.0883	6.3890	2.6858	9.0022	0.2204	6.2709	0.7045	1284.04	73.01	1324.54	66.70	1388.89	122.63	1388.89	122.63
4SPU155-299	0.0886	3.3472	2.7367	5.1489	0.2239	3.8375	0.7600	1302.34	45.25	1338.47	38.31	1394.96	64.19	1394.96	64.19
4SPU155-117	0.0886	10.6516	2.7673	14.2397	0.2263	9.3737	0.6637	1314.98	111.51	1346.76	106.60	1395.65	204.25	1395.65	204.25
4SPU155-375	0.0892	5.1284	2.4413	6.1663	0.1982	3.4039	0.5553	1165.82	36.30	1254.87	44.45	1409.19	98.16	1409.19	98.16
4SPU155-147	0.0896	5.7698	3.0626	8.3161	0.2476	6.0753	0.7202	1426.08	77.73	1423.38	63.74	1417.47	110.31	1417.47	110.31
4SPU155-283	0.0901	6.4691	2.7448	10.0579	0.2207	7.6985	0.7657	1285.65	89.74	1340.67	74.99	1427.88	123.51	1427.88	123.51
4SPU155-123	0.0916	3.5133	2.8390	5.9124	0.2246	4.7827	0.8043	1305.87	56.54	1365.91	44.42	1459.20	66.79	1459.20	66.79
4SPU155-059	0.0920	3.7686	2.7498	3.9280	0.2165	2.9684	0.4305	1263.58	34.06	1342.04	29.26	1467.50	71.57	1467.50	71.57
4SPU155-150	0.0921	4.1295	3.0867	5.3421	0.2429	3.4641	0.6345	1401.86	43.65	1429.40	40.99	1468.78	78.41	1468.78	78.41
4SPU155-244	0.0923	8.8735	2.9878	14.0338	0.2346	11.0956	0.7749	1358.52	135.93	1404.51	107.16	1473.31	168.38	1473.31	168.38
4SPU155-113	0.0925	3.3624	2.8694	4.6548	0.2248	2.9861	0.6935	1307.33	35.33	1373.92	35.06	1477.07	63.77	1477.07	63.77
4SPU155-272	0.0944	2.5719	3.0899	3.9498	0.2372	3.0011	0.7590	1372.01	37.09	1430.18	30.31	1516.13	48.53	1516.13	48.53
4SPU155-348	0.0949	14.2610	3.1795	19.5439	0.2427	13.3620	0.6838	1400.78	168.27	1452.20	152.09	1526.48	268.71	1526.48	268.71
4SPU155-270	0.0953	4.9462	3.0654	8.7933	0.2330	7.2717	0.8268	1350.19	88.59	1424.10	67.42	1534.67	93.10	1534.67	93.10
4SPU155-163	0.0957	2.5716	3.3013	5.0700	0.2501	4.4200	0.8619	1438.74	57.00	1481.36	39.53	1541.14	48.36	1541.14	48.36
4SPU155-279	0.0963	6.6251	3.2900	8.6122	0.2476	5.5241	0.6389	1426.08	70.68	1478.70	67.16	1553.32	124.39	1553.32	124.39
4SPU155-232	0.0978	3.6308	3.4697	4.6014	0.2570	3.0364	0.6159	1474.40	40.02	1520.36	36.28	1583.26	67.91	1583.26	67.91
4SPU155-268	0.0979	2.4106	3.5113	4.4141	0.2599	3.6950	0.8377	1489.09	49.13	1529.76	34.90	1584.78	45.08	1584.78	45.08
4SPU155-242	0.0982	5.0192	3.2993	6.9376	0.2435	5.0675	0.6914	1404.76	63.97	1480.89	54.11	1590.03	93.79	1590.03	93.79
4SPU155-285	0.0984	3.5880	3.5442	5.2428	0.2611	3.8114	0.7291	1495.53	50.87	1537.14	41.54	1593.15	67.02	1593.15	67.02
4SPU155-011	0.0990	7.3101	3.2601	11.2819	0.2386	8.5702	0.7617	1379.33	106.43	1471.59	87.88	1605.59	136.33	1605.59	136.33
4SPU155-070	0.0990	8.1173	3.4474	11.3639	0.2523	8.2323	0.7003	1450.08	106.91	1515.28	89.68	1605.70	151.38	1605.70	151.38
4SPU155-029	0.0993	5.1030	3.6557	6.5972	0.2668	4.1832	0.6338	1524.48	56.79	1561.74	52.65	1610.72	95.11	1610.72	95.11
4SPU155-382	0.0997	6.0528	3.4430	7.6480	0.2501	4.6604	0.6113	1439.15	60.11	1514.27	60.25	1619.16	112.69	1619.16	112.69
4SPU155-146	0.0999	3.3615	3.4706	4.1160	0.2517	2.5853	0.5792	1447.45	33.52	1520.56	32.46	1622.02	62.56	1622.02	62.56
4SPU155-034	0.1001	7.2934	3.6770	11.9439	0.2663	9.4903	0.7919	1521.93	128.67	1566.39	95.63	1625.04	135.68	1625.04	135.68
4SPU155-012	0.1008	3.4150	3.8370	5.0228	0.2757	3.5878	0.7336	1569.68	49.99	1600.53	40.48	1639.68	63.41	1639.68	63.41
4SPU155-288	0.1011	6.9015	3.8299	8.9520	0.2746	5.6940	0.6369	1564.09	79.08	1599.06	72.20	1643.74	128.05	1643.74	128.05
4SPU155-195	0.1014	4.4319	3.6279	5.9597	0.2591	3.8377	0.6691	1485.36	50.91	1555.67	47.47	1650.77	82.16	1650.77	82.16
4SPU155-084	0.1015	5.1258	3.8351	7.1469	0.2738	5.1185	0.6971	1559.83	70.92	1600.15	57.62	1651.74	95.01	1651.74	95.01
4SPU155-291	0.1017	2.5310	3.9458	3.6871	0.2813	2.6147	0.7274	1597.76	37.00	1623.13	29.88	1654.48	46.90	1654.48	46.90
4SPU155-170	0.1024	4.7856	4.1074	8.3202	0.2906	6.9472	0.8182	1644.68	100.86	1655.78	68.04	1668.14	88.52	1668.14	88.52
4SPU155-219	0.1029	3.0543	3.8257	4.3955	0.2693	2.9815	0.7204	1537.16	40.78	1598.18	35.40	1677.91	56.42	1677.91	56.42
4SPU155-241	0.1034	9.2502	4.2540	12.1976	0.2980	8.1215	0.6520	1681.59	120.22	1684.51	100.61	1686.48	170.71	1686.48	170.71
4SPU155-394	0.1040	2.5161	3.8488	3.4721	0.2681	2.3304	0.6894	1530.97	31.76	1603.01	27.99	1697.24	46.37	1697.24	46.37
4SPU155-129	0.1043	4.4156	3.7831	5.8062	0.2627	3.5508	0.6505	1503.55	47.62	1589.16	46.66	1702.83	81.32	1702.83	81.32
4SPU155-359	0.1047	4.8327	4.1967	6.5745	0.2906	4.4225	0.6780	1644.29	64.19	1673.38	53.96	1708.29	88.94	1708.29	88.94
4SPU155-085	0.1049	5.8049	4.2274	7.6426	0.2919	5.1095	0.6507	1651.14	74.43	1679.35	62.84	1712.88	106.77	1712.88	106.77
4SPU155-276	0.1052	6.8185	4.3127	10.5613	0.2971	8.0800	0.7637	1676.80	119.31	1695.80	87.27	1717.69	125.34	1717.69	125.34
4SPU155-049	0.1053	4.7279	4.2761	6.0810	0.2942	4.1974	0.6316	1662.52	61.51	1688.76	50.08	1719.66	86.89	1719.66	86.89
4SPU155-104	0.1055	4.2546	4.4989	5.6071	0.3088	3.9149	0.6529	1734.97	59.55	1730.77	46.61	1723.82	78.15	1723.82	78.15
4SPU155-134	0.1056	2.8238	4.0608	3.9357	0.2787	2.5166	0.6991	1584.94	35.36	1646.46	32.08	1724.08	51.87	1724.08	51.87
4SPU155-106	0.1056	7.0973	4.4349	9.6835	0.3043	6.7369	0.6805	1712.65	101.33	1718.88	80.40	1724.59	130.36	1724.59	130.36

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
4SPU155, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.876990, LONGITUDE: -69.947950 ACCEPTED															
4SPU155-061	0.1057	6.5308	4.4155	9.4343	0.3026	7.1206	0.7224	1704.42	106.66	1715.25	78.26	1726.61	119.92	1726.61	119.92
4SPU155-075	0.1061	6.8385	4.2621	9.1221	0.2911	6.9062	0.6678	1646.85	100.38	1686.08	75.16	1733.33	125.47	1733.33	125.47
4SPU155-356	0.1064	8.3802	4.5665	12.1307	0.3111	8.7530	0.7230	1746.04	133.90	1743.18	101.38	1737.99	153.66	1737.99	153.66
4SPU155-357	0.1067	4.9173	4.2615	6.6916	0.2893	4.5042	0.6783	1638.06	65.16	1685.96	55.09	1744.33	90.09	1744.33	90.09
4SPU155-103	0.1077	12.0382	4.5625	18.3021	0.3069	13.7952	0.7532	1725.54	208.92	1742.44	153.59	1760.90	220.12	1760.90	220.12
4SPU155-225	0.1082	6.3386	4.4733	8.3821	0.2997	5.3319	0.6546	1689.90	79.27	1726.04	69.67	1768.49	115.79	1768.49	115.79
4SPU155-136	0.1095	3.8791	4.3410	6.1230	0.2872	4.6111	0.7740	1627.75	66.33	1701.19	50.57	1791.06	70.67	1791.06	70.67
4SPU155-099	0.1095	4.0538	4.7968	5.3993	0.3174	3.4228	0.6611	1776.91	53.16	1784.33	45.40	1791.16	73.85	1791.16	73.85
4SPU155-187	0.1108	2.6810	5.1066	3.6498	0.3338	2.2884	0.6807	1856.87	36.92	1837.20	31.00	1813.30	48.70	1813.30	48.70
4SPU155-338	0.1121	3.0073	4.6058	4.0263	0.2978	2.7078	0.6650	1680.40	40.05	1750.32	33.60	1833.15	54.50	1833.15	54.50
4SPU155-328	0.1126	7.8104	4.0733	11.7744	0.2622	8.8700	0.7483	1501.00	118.79	1648.97	96.28	1841.35	141.35	1841.35	141.35
4SPU155-264	0.1140	3.8316	5.3473	5.7558	0.3399	4.2927	0.7462	1886.01	70.20	1876.46	49.27	1864.26	69.16	1864.26	69.16
4SPU155-392	0.1181	2.9101	4.8255	4.4086	0.2962	3.2822	0.7512	1672.28	48.35	1789.36	37.10	1927.00	52.14	1927.00	52.14
4SPU155-398	0.1185	2.9083	4.8036	4.1322	0.2938	2.8849	0.7105	1660.46	42.23	1785.52	34.74	1933.24	52.07	1933.24	52.07
4SPU155-305	0.1203	5.3636	5.9149	7.7345	0.3563	5.5286	0.7205	1964.73	93.64	1963.42	67.28	1960.38	95.74	1960.38	95.74
4SPU155-381	0.1208	7.8460	6.1901	11.0420	0.3713	7.7608	0.7036	2035.59	135.49	2003.06	96.82	1967.94	139.93	1967.94	139.93
4SPU155-032	0.1211	2.7501	5.4754	4.2717	0.3276	3.1381	0.7658	1826.71	49.92	1896.74	36.69	1972.56	49.02	1972.56	49.02
4SPU155-222	0.1237	3.0362	6.0117	4.1362	0.3522	2.6053	0.6810	1944.99	43.74	1977.54	36.02	2010.15	53.88	2010.15	53.88
4SPU155-151	0.1238	5.3739	5.9793	7.9753	0.3500	5.9364	0.7389	1934.39	99.21	1972.84	69.49	2011.67	95.35	2011.67	95.35
4SPU155-122	0.1241	4.5290	5.5554	6.9461	0.3243	5.2912	0.7582	1810.72	83.53	1909.22	59.84	2016.20	80.32	2016.20	80.32
4SPU155-274	0.1248	7.8113	5.4833	11.5442	0.3184	8.5141	0.7363	1781.87	132.57	1897.98	99.45	2025.83	138.37	2025.83	138.37
4SPU155-235	0.1253	5.7465	6.3819	7.7432	0.3691	5.5213	0.6715	2025.15	95.96	2029.78	68.07	2032.90	101.71	2032.90	101.71
4SPU155-008	0.1292	3.4363	6.2315	5.0033	0.3494	3.6702	0.7269	1931.92	61.27	2008.89	43.80	2087.36	60.43	2087.36	60.43
4SPU155-227	0.1299	3.8638	5.7711	5.4321	0.3218	3.5953	0.7042	1798.73	56.43	1942.09	47.04	2097.06	67.88	2097.06	67.88
4SPU155-324	0.1309	3.2598	6.6659	4.4829	0.3688	3.1221	0.6865	2023.96	54.23	2068.11	39.60	2110.74	57.18	2110.74	57.18
4SPU155-247	0.1367	6.2249	8.4649	8.2478	0.4488	5.8464	0.6580	2389.89	116.76	2282.16	75.03	2185.46	108.26	2185.46	108.26
4SPU155-252	0.1615	6.3529	9.1336	9.4237	0.4097	7.1799	0.7390	2213.48	134.53	2351.48	86.45	2471.92	107.24	2471.92	107.24
4SPU155-171	0.1733	5.0907	11.0388	6.6685	0.4616	4.5269	0.6467	2446.66	92.17	2526.41	62.16	2589.52	84.93	2589.52	84.93
4SPU155-397	0.1758	2.1617	12.2756	3.4267	0.5060	2.6030	0.7761	2639.43	56.38	2625.71	32.18	2613.53	35.98	2613.53	35.98
4SPU155-265	0.1834	2.1041	12.5446	2.8747	0.4956	1.9535	0.6814	2594.83	41.73	2646.08	27.04	2684.00	34.79	2684.00	34.79
4SPU155-100	0.1895	3.7936	13.0185	5.2358	0.4978	3.6441	0.6893	2604.13	78.07	2680.99	49.41	2737.79	62.41	2737.79	62.41
4SPU155, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.876990, LONGITUDE: -69.947950 REJECTED															
4SPU155-349	0.0798	10.4496	0.1268	14.6793	0.0115	10.3074	0.7023	73.81	7.56	121.20	16.77	1191.35	206.25	73.81	7.56
4SPU155-261	0.0927	17.0957	0.1481	18.0185	0.0116	5.6906	0.3159	74.20	4.20	140.26	23.61	1482.30	324.01	74.20	4.20
4SPU155-228	0.0844	8.5846	0.1379	10.0163	0.0118	4.9980	0.5155	75.90	3.77	131.15	12.32	1300.73	166.80	75.90	3.77
4SPU155-167	0.0954	16.0653	0.1610	16.9233	0.0122	5.3403	0.3144	78.35	4.16	151.59	23.84	1536.30	302.32	78.35	4.16
4SPU155-149	0.1233	32.0674	0.2152	33.8083	0.0126	10.7575	0.3168	81.03	8.66	197.90	60.86	2004.08	569.48	81.03	8.66
4SPU155-154	0.0588	26.6355	0.1045	36.5962	0.0129	25.1149	0.6858	82.47	20.58	100.93	35.17	560.07	580.52	82.47	20.58
4SPU155-290	0.0756	14.3269	0.1349	15.0963	0.0129	4.7211	0.3152	82.82	3.89	128.49	18.22	1084.40	287.27	82.82	3.89
4SPU155-297	0.1051	17.6584	0.1931	19.1679	0.0133	7.4166	0.3890	85.25	6.28	179.29	31.51	1716.45	324.66	85.25	6.28
4SPU155-209	0.0552	18.3236	0.1025	25.2966	0.0135	17.3703	0.6894	86.21	14.87	99.10	23.89	419.68	409.09	86.21	14.87
4SPU155-212	0.0779	9.0099	0.1457	10.2669	0.0136	4.6908	0.4800	86.86	4.05	138.15	13.26	1143.11	179.09	86.86	4.05
4SPU155-088	0.0715	10.3703	0.1347	14.0634	0.0136	9.5724	0.6755	87.38	8.31	128.32	16.95	972.05	211.55	87.38	8.31
4SPU155-350	0.0827	12.7905	0.1566	15.8444	0.0137	9.3490	0.5902	87.83	8.16	147.73	21.79	1262.66	249.87	87.83	8.16
4SPU155-387	0.0649	5.7240	0.1233	6.7354	0.0138	3.5223	0.5271	88.07	3.08	118.02	7.50	771.86	120.47	88.07	3.08
4SPU155-292	0.1242	33.9075	0.2384	35.5111	0.0139	10.5341	0.2971	89.02	9.31	217.09	69.52	2017.78	601.19	89.02	9.31
4SPU155-176	0.1510	8.5339	0.2938	9.5332	0.0141	4.6266	0.4473	90.23	4.15	261.52	21.98	2357.42	145.78	90.23	4.15
4SPU155-013	0.0709	11.1681	0.1456	11.7330	0.0149	3.5484	0.3066	95.20	3.35	138.01	15.14	954.75	228.42	95.20	3.35
4SPU155-072	0.2169	54.8784	0.4486	59.1679	0.0150	22.2199	0.3738	95.86	21.14	376.27	188.16	2957.98	885.07	95.86	21.14

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
4SPU155, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.876990, LONGITUDE: -69.947950 REJECTED															
4SPU155-269	0.1058	6.3586	0.2305	7.8654	0.0158	4.6274	0.5886	100.93	4.63	210.61	14.96	1728.94	116.72	100.93	4.63
4SPU155-333	0.1307	8.4570	0.2931	9.2110	0.0163	3.6906	0.3963	103.94	3.81	261.00	21.20	2106.94	148.40	103.94	3.81
4SPU155-004	0.1822	13.9881	0.5010	14.9333	0.0199	5.2520	0.3501	127.17	6.61	412.35	50.65	2672.98	231.51	127.17	6.61
4SPU155-097	0.3328	15.1400	0.9164	17.0017	0.0200	7.6703	0.4550	127.34	9.67	660.46	82.73	3630.08	231.81	127.34	9.67
4SPU155-138	0.0736	11.5011	0.2339	12.2272	0.0230	4.0058	0.3397	146.68	5.81	213.38	23.54	1031.18	232.47	146.68	5.81
4SPU155-337	0.0870	13.0845	0.2772	14.1501	0.0231	5.4026	0.3807	147.08	7.86	248.41	31.19	1360.95	252.11	147.08	7.86
4SPU155-262	0.0790	12.9735	0.2601	13.5717	0.0238	3.9825	0.2936	151.88	5.98	234.72	28.45	1173.23	256.74	151.88	5.98
4SPU155-098	0.0731	8.9529	0.2429	10.2245	0.0241	4.8356	0.4831	153.46	7.33	220.83	20.30	1015.77	181.41	153.46	7.33
4SPU155-339	0.0757	7.8457	0.2808	8.7679	0.0269	3.9353	0.4464	170.98	6.64	251.33	19.52	1087.48	157.24	170.98	6.64
4SPU155-311	0.5183	6.2378	2.0637	8.7766	0.0289	6.1507	0.7035	183.36	11.12	1136.86	60.10	4294.05	91.65	183.36	11.12
4SPU155-362	0.0541	16.6018	0.3124	23.0719	0.0419	16.0154	0.6944	264.35	41.48	276.06	55.82	374.35	373.63	264.35	41.48
4SPU155-354	0.0802	6.8630	0.4661	8.5325	0.0421	5.0653	0.5942	265.91	13.20	388.46	27.55	1201.65	135.25	265.91	13.20
4SPU155-166	0.0869	12.4641	0.5087	15.1729	0.0424	8.6648	0.5703	267.66	22.72	417.54	51.99	1359.00	240.22	267.66	22.72
4SPU155-259	0.0815	7.1166	0.4896	9.6177	0.0435	6.4667	0.6727	274.58	17.38	404.64	32.11	1234.26	139.59	274.58	17.38
4SPU155-361	0.0785	8.5469	0.5334	9.4979	0.0492	4.1187	0.4362	309.81	12.46	434.05	33.56	1159.48	169.48	309.81	12.46
4SPU155-213	0.1111	21.4476	0.8089	24.7250	0.0527	12.2106	0.4975	331.34	39.44	601.85	112.73	1818.02	389.38	331.34	39.44
4SPU155-298	0.6722	28.8439	5.5713	36.9315	0.0601	23.0519	0.6245	375.99	84.20	1911.68	328.98	4672.33	416.58	375.99	84.20
4SPU155-369	0.0981	9.3673	1.0699	13.8280	0.0790	10.1782	0.7356	490.45	48.07	738.69	72.70	1587.67	175.10	490.45	48.07
4SPU155-192	0.1217	5.4021	1.5638	7.6355	0.0931	5.3810	0.7067	573.92	29.55	955.99	47.32	1981.26	96.20	573.92	29.55
4SPU155-355	0.1159	10.2414	1.5140	12.3864	0.0946	6.9447	0.5625	582.75	38.69	936.04	75.88	1894.63	184.19	582.75	38.69
4SPU155-366	0.0649	5.2522	0.8817	6.5143	0.0984	3.8701	0.5916	605.14	22.35	641.92	31.00	771.58	110.55	605.14	22.35
4SPU155-119	0.0668	7.3930	0.9089	9.1324	0.0986	5.2250	0.5873	606.36	30.24	656.50	44.18	830.67	154.15	606.36	30.24
4SPU155-312	0.0575	3.8964	0.7907	4.9243	0.0996	2.9629	0.6116	612.27	17.31	591.57	22.08	510.89	85.64	612.27	17.31
4SPU155-204	0.0656	8.2211	0.9095	9.7007	0.1005	5.0728	0.5309	617.26	29.86	656.77	46.95	793.01	172.44	617.26	29.86
4SPU155-140	0.0684	12.6779	0.9686	17.2291	0.1025	11.6350	0.6772	629.27	69.76	687.75	86.28	882.01	262.25	629.27	69.76
4SPU155-186	0.0837	16.7868	1.1917	17.8366	0.1032	5.9542	0.3380	633.09	35.90	796.77	98.79	1285.17	326.89	633.09	35.90
4SPU155-133	0.0700	15.9172	1.0013	19.7200	0.1037	11.5962	0.5903	635.88	70.22	704.45	100.51	927.67	326.88	635.88	70.22
4SPU155-142	0.0696	4.2725	1.0591	5.4630	0.1103	3.2938	0.6235	674.29	21.09	733.37	28.54	916.32	87.89	674.29	21.09
4SPU155-126	0.0830	5.0608	1.2703	6.0738	0.1108	3.1103	0.5546	677.53	20.00	832.52	34.52	1270.36	98.76	677.53	20.00
4SPU155-087	0.0720	15.1475	1.1354	20.4862	0.1142	13.8430	0.6733	697.03	91.46	770.33	111.04	987.09	308.24	697.03	91.46
4SPU155-116	0.0908	4.7921	1.4871	8.4568	0.1187	6.8636	0.8240	723.08	46.95	925.12	51.39	1441.75	91.32	723.08	46.95
4SPU155-393	0.0732	4.0403	1.2107	5.8443	0.1198	4.1996	0.7225	729.54	28.97	805.50	32.51	1019.78	81.82	729.54	28.97
4SPU155-341	0.1040	8.7286	1.7689	11.6273	0.1233	7.6746	0.6606	749.52	54.31	1034.11	75.56	1695.82	160.89	749.52	54.31
4SPU155-172	0.0765	2.8767	1.3598	3.7662	0.1287	2.8014	0.6519	780.65	20.60	871.79	22.04	1109.13	57.47	780.65	20.60
4SPU155-233	0.0781	2.8434	1.3994	3.5117	0.1299	2.3402	0.5916	787.36	17.35	888.68	20.80	1148.27	56.48	787.36	17.35
4SPU155-363	0.0830	11.4835	1.4931	13.9996	0.1303	7.9951	0.5720	789.77	59.43	927.60	85.33	1269.44	224.12	789.77	59.43
4SPU155-137	0.0761	7.0097	2.4185	9.3841	0.2303	6.1435	0.6649	1335.93	74.13	1248.10	67.51	1097.60	140.28	1097.60	140.28
4SPU155-202	0.0776	15.3581	1.9039	20.0717	0.1777	12.8927	0.6438	1054.28	125.41	1082.44	134.40	1137.74	305.52	1137.74	305.52
4SPU155-243	0.0784	3.4814	1.6573	4.1079	0.1532	2.7380	0.5446	918.71	23.44	992.33	26.02	1157.06	69.06	1157.06	69.06
4SPU155-248	0.0785	16.2124	2.1875	22.3585	0.2019	15.5553	0.6887	1185.66	168.50	1177.07	157.04	1159.51	321.48	1159.51	321.48
4SPU155-066	0.0800	16.6966	1.9255	22.1594	0.1744	14.7236	0.6575	1036.39	140.98	1089.99	149.16	1196.69	329.29	1196.69	329.29
4SPU155-205	0.0819	5.2731	1.8477	7.0731	0.1635	4.4480	0.6676	976.01	40.29	1062.60	46.63	1243.19	103.30	1243.19	103.30
4SPU155-307	0.0819	2.4521	1.7634	3.5511	0.1560	2.4714	0.7238	934.46	21.50	1032.08	23.01	1243.35	48.04	1243.35	48.04
4SPU155-200	0.0828	7.4944	1.5324	9.4427	0.1341	5.6759	0.6084	811.10	43.26	943.46	58.08	1264.86	146.36	1264.86	146.36
4SPU155-038	0.0834	4.0965	1.8386	6.1072	0.1597	4.5956	0.7417	954.94	40.79	1059.38	40.19	1279.43	79.84	1279.43	79.84
4SPU155-045	0.0850	17.4168	2.4215	26.6762	0.2064	20.2797	0.7575	1209.55	223.74	1249.00	194.03	1315.73	337.70	1315.73	337.70
4SPU155-036	0.0858	9.5384	1.9049	13.1072	0.1609	9.0233	0.6859	961.70	80.62	1082.82	87.49	1333.47	184.49	1333.47	184.49
4SPU155-063	0.0859	18.7812	2.2030	24.6478	0.1858	16.0974	0.6476	1098.55	162.63	1181.99	173.81	1336.10	363.12	1336.10	363.12
4SPU155-157	0.0878	10.4737	1.6363	13.2854	0.1350	8.2300	0.6152	816.13	63.09	984.30	83.92	1379.16	201.30	1379.16	201.30
4SPU155-048	0.0891	10.0148	2.2913	15.4720	0.1863	11.9197	0.7623	1101.55	120.71	1209.61	109.79	1406.07	191.77	1406.07	191.77

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
4SPU155, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.876990, LONGITUDE: -69.947950 REJECTED															
4SPU155-317	0.0907	15.5005	2.8158	20.5212	0.2249	13.4265	0.6553	1307.74	158.95	1359.76	154.95	1440.71	295.42	1440.71	295.42
4SPU155-271	0.0917	10.5058	2.2378	15.0484	0.1768	10.7751	0.7160	1049.54	104.37	1192.97	105.99	1461.37	199.67	1461.37	199.67
4SPU155-344	0.0922	27.8981	2.7375	37.1149	0.2151	24.4779	0.6595	1255.84	279.49	1338.71	283.15	1471.99	529.47	1471.99	529.47
4SPU155-067	0.0952	5.3302	1.8292	7.6579	0.1392	5.8953	0.7198	840.13	46.44	1055.99	50.31	1532.21	100.36	1532.21	100.36
4SPU155-278	0.0966	3.5716	2.3563	4.5579	0.1767	2.8731	0.6213	1048.90	27.81	1229.47	32.50	1560.06	67.00	1560.06	67.00
4SPU155-169	0.0967	21.3039	2.8627	33.8698	0.2146	26.3348	0.7774	1253.18	300.14	1372.15	260.44	1560.70	399.62	1560.70	399.62
4SPU155-124	0.0990	6.7717	2.5567	9.4217	0.1871	6.4271	0.6954	1105.38	65.29	1288.34	68.87	1605.96	126.28	1605.96	126.28
4SPU155-057	0.1016	16.1133	2.8555	22.0638	0.2036	15.3218	0.6832	1194.81	167.14	1370.25	167.43	1653.51	298.60	1653.51	298.60
4SPU155-378	0.1085	8.4749	2.6646	11.4973	0.1780	7.7606	0.6758	1055.80	75.58	1318.70	85.08	1774.27	154.71	1774.27	154.71
4SPU155-015	0.1085	5.5301	3.3372	7.5576	0.2228	5.1948	0.6816	1296.61	61.02	1489.79	59.11	1774.98	100.94	1774.98	100.94
4SPU155-206	0.1089	7.9129	5.5739	10.2305	0.3710	6.2938	0.6341	2034.10	109.80	1912.08	88.30	1780.52	144.34	1780.52	144.34
4SPU155-284	0.1099	3.6366	3.7816	4.6896	0.2494	2.9465	0.6314	1435.45	37.92	1588.85	37.68	1797.17	66.20	1797.17	66.20
4SPU155-364	0.1145	21.2614	5.0113	29.4386	0.3172	20.3644	0.6917	1776.07	316.39	1821.23	254.38	1871.55	383.42	1871.55	383.42
4SPU155-257	0.1201	4.5857	2.9181	6.5587	0.1760	4.6854	0.7149	1045.33	45.21	1386.62	49.64	1957.90	81.88	1957.90	81.88
4SPU155-388	0.1240	6.7279	2.8650	7.5912	0.1674	3.4882	0.4632	997.72	32.24	1372.75	57.20	2014.74	119.33	2014.74	119.33
4SPU155-277	0.1253	6.0547	4.9466	7.5327	0.2862	4.5076	0.5949	1622.28	64.65	1810.25	63.71	2032.47	107.17	2032.47	107.17
4SPU155-112	0.1474	9.0763	6.5096	11.0279	0.3201	6.1474	0.5681	1790.02	96.09	2047.20	97.36	2315.51	155.73	2315.51	155.73
4SPU155-287	0.1923	26.2238	4.9604	32.1213	0.1869	18.5473	0.5775	1104.51	188.32	1812.60	278.19	2762.13	430.45	2762.13	430.45
4SPU155-078	0.2377	43.2846	10.4776	47.0734	0.3194	18.8041	0.3931	1786.81	293.65	2477.94	466.62	3104.43	689.57	3104.43	689.57
1SPU93, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.880380, LONGITUDE: -69.956440 ACCEPTED															
1SPU93-065	0.0380	37.8131	0.0419	39.4727	0.0080	11.3253	0.2869	51.21	5.78	41.63	16.10	0.00	911.47	51.21	5.78
1SPU93-130	0.0464	22.5908	0.0542	23.5498	0.0085	6.6265	0.2825	54.26	3.58	53.57	12.29	20.16	542.45	54.26	3.58
1SPU93-151	0.0880	46.2352	0.1047	47.1904	0.0086	9.4553	0.2002	55.30	5.21	101.09	45.44	1383.12	888.13	55.30	5.21
1SPU93-280	0.0476	23.2126	0.0568	24.1360	0.0086	6.6998	0.2740	55.48	3.70	56.12	13.18	81.59	550.98	55.48	3.70
1SPU93-161	-0.0069	1044.6110	-0.0083	1044.7086	0.0087	14.2872	0.0137	55.68	7.92	0.00	0.00	0.00	25179.82	55.68	7.92
1SPU93-299	0.0411	36.7676	0.0499	37.7217	0.0088	8.4397	0.2235	56.54	4.75	49.48	18.22	0.00	886.26	56.54	4.75
1SPU93-217	0.0450	42.4919	0.0578	44.2374	0.0093	12.2692	0.2781	59.64	7.28	57.03	24.54	0.00	1024.25	59.64	7.28
1SPU93-026	0.0468	16.3942	0.0718	16.7024	0.0111	4.6867	0.2055	71.24	3.32	70.40	11.36	39.55	392.22	71.24	3.32
1SPU93-222	0.0506	15.5508	0.0779	16.7835	0.0112	6.2458	0.3762	71.59	4.45	76.17	12.32	220.40	359.77	71.59	4.45
1SPU93-068	0.0774	42.3093	0.1229	43.2271	0.0115	8.8601	0.2050	73.71	6.49	117.72	48.08	1132.61	842.29	73.71	6.49
1SPU93-097	0.0541	19.8028	0.0872	20.7127	0.0117	6.0414	0.2931	74.80	4.49	84.85	16.86	375.26	445.60	74.80	4.49
1SPU93-131	0.0541	15.4811	0.0875	16.8766	0.0117	6.6949	0.3982	75.12	5.00	85.15	13.79	373.98	348.43	75.12	5.00
1SPU93-035	0.0487	9.4385	0.0788	12.7293	0.0117	8.2773	0.6713	75.15	6.18	77.03	9.44	133.23	221.89	75.15	6.18
1SPU93-216	0.0300	112.5324	0.0488	112.8693	0.0118	8.6654	0.0772	75.62	6.51	48.40	53.39	0.00	2712.54	75.62	6.51
1SPU93-164	0.0436	30.2499	0.0736	30.7518	0.0122	5.5986	0.1799	78.32	4.36	72.07	21.40	0.00	729.16	78.32	4.36
1SPU93-001	0.0462	13.8299	0.0786	16.7130	0.0123	9.3932	0.5615	79.02	7.38	76.86	12.37	7.87	332.86	79.02	7.38
1SPU93-296	0.0488	10.4472	0.0832	12.0942	0.0123	6.1056	0.5038	79.12	4.80	81.12	9.43	138.49	245.37	79.12	4.80
1SPU93-226	0.0555	14.9331	0.0948	20.0398	0.0124	13.3172	0.6669	79.25	10.49	91.98	17.62	434.11	332.55	79.25	10.49
1SPU93-047	0.0513	12.8742	0.0879	15.6841	0.0124	8.9580	0.5711	79.53	7.08	85.59	12.87	255.58	295.94	79.53	7.08
1SPU93-088	0.0536	12.8951	0.0934	14.0385	0.0126	5.7301	0.3955	80.86	4.60	90.63	12.17	353.77	291.28	80.86	4.60
1SPU93-253	0.0556	11.2072	0.0971	15.2019	0.0127	10.2014	0.6757	81.05	8.22	94.13	13.67	437.81	249.41	81.05	8.22
1SPU93-290	0.0500	8.7037	0.0874	10.4716	0.0127	5.8952	0.5561	81.18	4.76	85.08	8.55	194.09	202.34	81.18	4.76
1SPU93-348	0.0338	82.9327	0.0591	83.2279	0.0127	7.0425	0.0841	81.24	5.69	58.29	47.18	0.00	1999.05	81.24	5.69
1SPU93-154	0.0485	13.1815	0.0850	18.0979	0.0127	12.4320	0.6852	81.32	10.05	82.82	14.40	123.92	310.42	81.32	10.05
1SPU93-122	0.0518	10.1165	0.0913	11.1771	0.0128	4.7953	0.4252	81.81	3.90	88.75	9.50	277.16	231.64	81.81	3.90
1SPU93-185	0.0429	17.9159	0.0757	19.1123	0.0128	6.6441	0.3483	81.89	5.41	74.06	13.65	0.00	431.85	81.89	5.41
1SPU93-273	0.0395	19.8053	0.0701	20.2955	0.0128	4.4519	0.2185	82.28	3.64	68.76	13.49	0.00	477.40	82.28	3.64
1SPU93-162	0.0505	9.1085	0.0895	12.1276	0.0128	8.0280	0.6602	82.31	6.57	87.08	10.12	217.75	210.83	82.31	6.57
1SPU93-266	0.0528	13.6753	0.0958	15.2820	0.0132	6.8045	0.4463	84.24	5.69	92.90	13.57	319.59	310.73	84.24	5.69

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1SPU93, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.880380, LONGITUDE: -69.956440 ACCEPTED															
1SPU93-269	0.0569	12.2138	0.1041	15.5620	0.0133	9.6320	0.6197	84.95	8.13	100.59	14.91	487.25	269.55	84.95	8.13
1SPU93-049	0.0537	11.0096	0.0986	12.3538	0.0133	5.6041	0.4536	85.11	4.74	95.44	11.25	359.73	248.42	85.11	4.74
1SPU93-327	0.0491	12.0877	0.0910	16.7537	0.0134	11.6341	0.6924	86.04	9.94	88.39	14.18	150.29	283.28	86.04	9.94
1SPU93-257	0.0524	14.8966	0.0997	20.7157	0.0138	14.2943	0.6949	88.30	12.54	96.50	19.07	302.11	339.55	88.30	12.54
1SPU93-340	0.0482	10.0656	0.0941	13.2230	0.0141	8.6303	0.6485	90.51	7.76	91.29	11.54	109.57	237.67	90.51	7.76
1SPU93-055	0.0495	5.8816	0.0980	7.1425	0.0144	4.0523	0.5674	91.85	3.70	94.88	6.47	169.39	137.35	91.85	3.70
1SPU93-341	0.0521	15.7652	0.1047	17.0560	0.0145	6.5816	0.3816	93.10	6.08	101.07	16.41	291.35	360.04	93.10	6.08
1SPU93-319	0.0499	6.2613	0.1012	7.3412	0.0147	4.3848	0.5268	94.05	4.09	97.89	6.85	190.36	145.65	94.05	4.09
1SPU93-337	0.0563	17.7733	0.1175	19.7385	0.0151	8.6411	0.4350	96.75	8.30	112.84	21.08	465.21	393.65	96.75	8.30
1SPU93-346	0.0472	11.4086	0.1038	12.6123	0.0159	5.4288	0.4264	101.81	5.48	100.24	12.04	60.91	271.85	101.81	5.48
1SPU93-298	0.0604	14.1491	0.1374	16.2617	0.0165	8.0250	0.4929	105.46	8.39	130.75	19.95	617.23	305.42	105.46	8.39
1SPU93-136	0.0527	19.5700	0.1233	20.2916	0.0170	5.3106	0.2643	108.44	5.71	118.09	22.63	314.88	445.04	108.44	5.71
1SPU93-240	0.0560	21.7313	0.1441	22.6062	0.0186	6.1150	0.2755	119.06	7.21	136.69	28.92	452.88	482.35	119.06	7.21
1SPU93-135	0.0508	16.6870	0.1525	17.4575	0.0217	5.0737	0.2938	138.66	6.96	144.16	23.47	233.27	385.15	138.66	6.96
1SPU93-291	0.0606	12.4601	0.1819	13.2504	0.0218	4.6014	0.3403	138.79	6.32	169.69	20.71	623.80	268.67	138.79	6.32
1SPU93-048	0.0483	10.8326	0.1465	13.6470	0.0220	8.3003	0.6082	140.12	11.51	138.81	17.71	114.04	255.57	140.12	11.51
1SPU93-268	0.0588	11.7850	0.1793	12.9767	0.0221	5.4116	0.4186	140.97	7.55	167.50	20.04	559.09	256.90	140.97	7.55
1SPU93-089	0.0523	9.8405	0.1610	11.2776	0.0223	5.6910	0.4887	142.15	8.00	151.54	15.88	298.65	224.44	142.15	8.00
1SPU93-200	0.0496	11.5331	0.1534	13.3096	0.0224	6.5864	0.4992	142.82	9.30	144.92	17.98	177.19	268.94	142.82	9.30
1SPU93-152	0.0468	10.0701	0.1450	11.5551	0.0225	5.6818	0.4904	143.18	8.05	137.47	14.86	37.59	241.01	143.18	8.05
1SPU93-343	0.0559	12.0388	0.1734	16.9329	0.0225	11.9474	0.7032	143.34	16.94	162.35	25.41	447.38	267.47	143.34	16.94
1SPU93-338	0.0592	19.1007	0.1840	19.8176	0.0225	5.3715	0.2666	143.46	7.62	171.48	31.28	575.98	415.18	143.46	7.62
1SPU93-114	0.0502	8.1790	0.1571	9.4327	0.0227	4.7232	0.4982	144.62	6.75	148.18	13.01	203.04	189.83	144.62	6.75
1SPU93-004	0.0450	13.0597	0.1424	13.9232	0.0229	4.8448	0.3467	146.17	7.00	135.22	17.63	0.00	314.80	146.17	7.00
1SPU93-016	0.0477	10.2585	0.1519	13.5893	0.0231	9.0265	0.6559	147.15	13.13	143.58	18.20	82.72	243.45	147.15	13.13
1SPU93-061	0.0547	12.1079	0.1763	14.2529	0.0234	7.5196	0.5276	148.81	11.06	164.87	21.69	399.88	271.26	148.81	11.06
1SPU93-315	0.0494	12.3581	0.1638	13.4849	0.0240	5.8014	0.4012	152.97	8.77	153.99	19.27	167.71	288.69	152.97	8.77
1SPU93-126	0.0506	4.2048	0.1722	6.0260	0.0246	4.2775	0.7163	156.94	6.63	161.37	8.99	224.41	97.21	156.94	6.63
1SPU93-270	0.0519	6.5092	0.1900	8.6336	0.0265	5.6860	0.6570	168.73	9.47	176.60	14.00	281.26	148.93	168.73	9.47
1SPU93-247	0.0598	16.9020	0.2202	19.6877	0.0267	9.9588	0.5128	169.82	16.69	202.11	36.10	595.89	366.16	169.82	16.69
1SPU93-304	0.0526	12.0160	0.2045	15.6665	0.0282	10.2461	0.6418	179.25	18.11	188.95	27.02	309.98	273.50	179.25	18.11
1SPU93-069	0.0472	12.8450	0.1914	14.7694	0.0294	7.2897	0.4936	186.50	13.40	177.82	24.10	61.41	306.05	186.50	13.40
1SPU93-259	0.0558	8.7512	0.2281	10.7985	0.0296	6.0926	0.5863	188.22	11.30	208.67	20.37	444.29	194.53	188.22	11.30
1SPU93-181	0.0561	14.8134	0.2430	20.5744	0.0314	14.2899	0.6940	199.10	28.02	220.86	40.86	457.36	328.54	199.10	28.02
1SPU93-056	0.0563	9.8113	0.2997	10.8817	0.0386	4.7065	0.4325	243.86	11.26	266.19	25.49	465.34	217.30	243.86	11.26
1SPU93-090	0.0544	13.9730	0.2951	15.9872	0.0393	7.7446	0.4859	248.44	18.87	262.59	37.01	388.51	313.68	248.44	18.87
1SPU93-053	0.0598	8.0900	0.3506	10.7247	0.0425	7.0407	0.6565	268.15	18.49	305.20	28.28	596.79	175.23	268.15	18.49
1SPU93-286	0.0514	3.6689	0.3300	5.2225	0.0465	3.9342	0.7128	292.96	11.27	289.55	13.16	260.12	84.27	292.96	11.27
1SPU93-179	0.0539	8.1578	0.3552	8.9775	0.0478	3.8441	0.4176	300.98	11.30	308.66	23.90	364.85	183.91	300.98	11.30
1SPU93-083	0.0540	13.1908	0.3588	17.8293	0.0482	12.0799	0.6728	303.34	35.79	311.33	47.84	369.30	297.13	303.34	35.79
1SPU93-145	0.0518	8.4864	0.3833	9.2565	0.0537	3.6726	0.3994	336.93	12.06	329.48	26.05	274.83	194.39	336.93	12.06
1SPU93-302	0.0583	7.6499	0.4871	9.6962	0.0606	6.1513	0.6148	379.13	22.65	402.90	32.26	539.70	167.31	379.13	22.65
1SPU93-109	0.0556	4.8044	0.4867	6.1633	0.0634	3.8126	0.6264	396.56	14.66	402.67	20.49	435.58	106.96	396.56	14.66
1SPU93-059	0.0587	8.0164	0.5660	11.7022	0.0698	8.5251	0.7285	435.15	35.87	455.45	42.97	556.99	174.81	435.15	35.87
1SPU93-206	0.0546	5.4889	0.5287	7.0135	0.0702	4.1771	0.6231	437.26	17.66	430.94	24.63	395.20	123.07	437.26	17.66
1SPU93-093	0.0612	18.1860	0.6300	18.9499	0.0746	5.2913	0.2811	463.77	23.68	496.12	74.50	646.10	390.68	463.77	23.68
1SPU93-186	0.0706	4.8373	0.7319	6.9103	0.0751	4.9190	0.7141	466.65	22.14	557.64	29.66	946.84	99.05	466.65	22.14
1SPU93-232	0.0620	4.8480	0.6510	6.4479	0.0761	4.1722	0.6594	472.75	19.02	509.11	25.82	673.97	103.67	472.75	19.02
1SPU93-188	0.0623	21.5196	0.6592	22.8439	0.0766	7.6548	0.3355	475.96	35.12	514.12	92.41	685.49	459.30	475.96	35.12
1SPU93-034	0.0584	6.0848	0.6346	8.7223	0.0787	5.8838	0.7178	488.56	27.68	498.93	34.40	544.62	132.97	488.56	27.68

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1SPU93, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.880380, LONGITUDE: -69.956440 ACCEPTED															
1SPU93-141	0.0558	6.4283	0.6200	8.6970	0.0805	5.8427	0.6735	498.92	28.05	489.82	33.81	445.18	142.88	498.92	28.05
1SPU93-019	0.0573	5.4901	0.6391	7.5124	0.0809	5.3235	0.6831	501.33	25.68	501.76	29.75	501.57	120.86	501.33	25.68
1SPU93-234	0.0570	7.2969	0.6390	9.5058	0.0813	6.0374	0.6409	503.71	29.25	501.71	37.65	490.61	160.94	503.71	29.25
1SPU93-249	0.0589	5.4407	0.6622	7.7139	0.0815	5.2109	0.7097	505.13	25.32	515.96	31.21	562.23	118.54	505.13	25.32
1SPU93-330	0.0572	4.6589	0.6459	6.0048	0.0818	3.8901	0.6311	506.92	18.96	505.97	23.93	499.74	102.60	506.92	18.96
1SPU93-067	0.0603	7.4885	0.6813	8.9336	0.0818	4.8714	0.5453	507.00	23.75	527.54	36.77	615.23	161.70	507.00	23.75
1SPU93-210	0.0652	4.9671	0.7380	6.8489	0.0820	4.6247	0.6886	508.07	22.59	561.26	29.54	781.19	104.39	508.07	22.59
1SPU93-014	0.0582	6.3288	0.6643	9.0721	0.0827	6.6553	0.7167	512.27	32.77	517.25	36.78	537.19	138.48	512.27	32.77
1SPU93-260	0.0572	4.5773	0.6633	6.3072	0.0840	4.3134	0.6880	519.93	21.55	516.62	25.54	500.03	100.79	519.93	21.55
1SPU93-263	0.0581	5.0501	0.6739	6.7310	0.0840	4.4248	0.6611	520.21	22.11	523.06	27.52	533.55	110.57	520.21	22.11
1SPU93-140	0.0596	8.6821	0.6940	12.2634	0.0844	8.6507	0.7062	522.17	43.39	535.18	51.06	588.80	188.31	522.17	43.39
1SPU93-254	0.0607	6.2708	0.7120	9.0494	0.0850	6.2979	0.7214	525.88	31.80	545.91	38.23	628.49	135.11	525.88	31.80
1SPU93-283	0.0599	4.9554	0.7030	6.1677	0.0851	3.8274	0.5959	526.26	19.34	540.58	25.86	599.58	107.29	526.26	19.34
1SPU93-209	0.0640	4.8863	0.7605	7.2934	0.0861	5.2634	0.7427	532.70	26.91	574.30	32.00	740.53	103.36	532.70	26.91
1SPU93-074	0.0571	7.5082	0.6803	11.5294	0.0862	7.6961	0.7651	533.30	39.39	526.93	47.43	497.12	165.42	533.30	39.39
1SPU93-238	0.0587	8.5089	0.7011	12.2616	0.0866	8.7836	0.7200	535.24	45.11	539.47	51.36	555.43	185.60	535.24	45.11
1SPU93-289	0.0609	6.8459	0.7321	9.1443	0.0871	6.1981	0.6631	538.40	32.02	557.77	39.26	635.77	147.32	538.40	32.02
1SPU93-011	0.0583	4.3083	0.7082	5.9580	0.0880	4.1361	0.6907	543.74	21.57	543.66	25.09	541.21	94.20	543.74	21.57
1SPU93-138	0.0590	6.9322	0.7232	8.8566	0.0888	5.4606	0.6224	548.39	28.71	552.57	37.76	567.59	150.90	548.39	28.71
1SPU93-149	0.0557	8.2578	0.6826	9.7434	0.0889	5.1542	0.5308	548.79	27.12	528.35	40.16	438.71	183.75	548.79	27.12
1SPU93-212	0.0647	7.3107	0.8017	10.6617	0.0898	7.7057	0.7279	554.56	40.95	597.81	48.21	763.48	154.07	554.56	40.95
1SPU93-275	0.0594	5.9983	0.7395	7.2035	0.0902	4.0649	0.5538	556.79	21.68	562.13	31.11	581.89	130.25	556.79	21.68
1SPU93-317	0.0575	7.9323	0.7174	11.4151	0.0903	8.4806	0.7195	557.52	45.29	549.12	48.45	512.53	174.30	557.52	45.29
1SPU93-036	0.0570	6.0086	0.7141	7.5982	0.0908	4.1464	0.6161	560.14	22.25	547.16	32.15	491.26	132.51	560.14	22.25
1SPU93-287	0.0589	7.3463	0.7378	10.0117	0.0908	6.9232	0.6795	560.37	37.16	561.12	43.19	562.30	160.05	560.37	37.16
1SPU93-227	0.0602	5.8316	0.7551	7.7495	0.0909	4.9798	0.6588	560.91	26.75	571.18	33.87	610.23	126.03	560.91	26.75
1SPU93-201	0.0722	19.2673	0.9096	21.0318	0.0913	8.3876	0.4009	563.31	45.24	656.84	102.06	990.88	391.85	563.31	45.24
1SPU93-223	0.0618	7.6767	0.7844	9.1026	0.0920	4.8038	0.5374	567.17	26.08	587.97	40.65	667.11	164.34	567.17	26.08
1SPU93-187	0.0552	10.9989	0.7043	12.1403	0.0924	5.1239	0.4233	569.58	27.93	541.37	50.99	422.12	245.45	569.58	27.93
1SPU93-205	0.0649	7.8117	0.8312	9.8912	0.0928	5.9330	0.6136	571.86	32.47	614.27	45.62	771.87	164.41	571.86	32.47
1SPU93-246	0.0606	4.2198	0.7763	5.9970	0.0929	3.9253	0.7129	572.55	21.50	583.39	26.62	623.89	90.99	572.55	21.50
1SPU93-267	0.0614	6.8892	0.7886	10.3286	0.0931	7.6808	0.7451	573.99	42.18	590.40	46.27	652.11	147.85	573.99	42.18
1SPU93-009	0.0588	5.9870	0.7558	8.7202	0.0931	6.3536	0.7271	574.06	34.90	571.57	38.13	559.60	130.50	574.06	34.90
1SPU93-235	0.0595	6.7806	0.7673	9.6137	0.0934	6.7566	0.7089	575.52	37.20	578.23	42.41	586.89	147.11	575.52	37.20
1SPU93-265	0.0616	8.7888	0.8038	12.5643	0.0945	8.9663	0.7146	582.19	49.91	598.98	56.91	661.20	188.33	582.19	49.91
1SPU93-031	0.0564	6.1106	0.7360	7.3814	0.0946	4.4618	0.5625	582.76	24.86	560.05	31.79	466.61	135.31	582.76	24.86
1SPU93-334	0.0620	7.4171	0.8103	9.6605	0.0946	6.2660	0.6408	582.90	34.92	602.61	43.93	675.56	158.56	582.90	34.92
1SPU93-282	0.0595	7.6302	0.7775	9.6739	0.0947	6.0440	0.6148	583.08	33.70	584.05	42.99	585.94	165.57	583.08	33.70
1SPU93-015	0.0600	4.1609	0.7857	5.4224	0.0949	3.7596	0.6432	584.63	21.01	588.72	24.23	602.45	90.04	584.63	21.01
1SPU93-082	0.0605	3.8755	0.8035	5.1552	0.0962	3.6871	0.6616	592.08	20.86	598.82	23.33	622.17	83.59	592.08	20.86
1SPU93-295	0.0586	6.0658	0.7787	7.8078	0.0963	4.9318	0.6297	592.82	27.93	584.77	34.72	551.77	132.39	592.82	27.93
1SPU93-230	0.0628	6.6922	0.8421	8.6734	0.0971	5.4568	0.6362	597.63	31.15	620.32	40.28	702.01	142.45	597.63	31.15
1SPU93-096	0.0613	4.3413	0.8219	6.1902	0.0972	4.3707	0.7129	597.96	24.96	609.11	28.36	648.54	93.22	597.96	24.96
1SPU93-158	0.0622	5.5160	0.8382	7.1380	0.0977	4.6151	0.6348	600.90	26.48	618.17	33.06	679.73	117.84	600.90	26.48
1SPU93-349	0.0607	3.6656	0.8218	5.2081	0.0980	3.7745	0.7105	602.85	21.72	609.04	23.86	630.12	78.96	602.85	21.72
1SPU93-242	0.0591	6.4199	0.8106	7.9961	0.0994	4.6180	0.5964	610.78	26.91	602.80	36.36	570.91	139.67	610.78	26.91
1SPU93-243	0.0608	4.8672	0.8345	6.3377	0.0995	3.8834	0.6411	611.48	22.65	616.13	29.28	631.32	104.82	611.48	22.65
1SPU93-331	0.0590	5.0746	0.8115	6.5516	0.0996	4.2369	0.6326	612.14	24.74	603.30	29.81	568.29	110.45	612.14	24.74
1SPU93-333	0.0624	6.5829	0.8593	8.9170	0.0998	6.0794	0.6746	613.49	35.58	629.73	41.87	686.56	140.48	613.49	35.58
1SPU93-318	0.0600	6.6184	0.8279	8.8041	0.1000	6.1842	0.6608	614.19	36.23	612.43	40.51	604.04	143.18	614.19	36.23

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1SPU93, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.880380, LONGITUDE: -69.956440 ACCEPTED															
1SPU93-155	0.0638	7.5995	0.8987	11.3923	0.1021	8.5327	0.7450	626.57	50.95	651.03	54.81	734.59	160.90	626.57	50.95
1SPU93-218	0.0624	4.4679	0.8798	6.4589	0.1021	4.5726	0.7223	626.83	27.31	640.86	30.70	688.64	95.31	626.83	27.31
1SPU93-106	0.0650	6.0104	0.9205	8.1022	0.1026	5.3993	0.6706	629.45	32.38	662.62	39.45	774.97	126.43	629.45	32.38
1SPU93-307	0.0604	4.8192	0.8577	6.5383	0.1028	4.8426	0.6786	631.03	29.11	628.87	30.66	619.29	103.99	631.03	29.11
1SPU93-173	0.0620	13.5920	0.8795	19.6098	0.1028	14.1609	0.7208	631.05	85.13	640.71	93.44	672.80	290.70	631.05	85.13
1SPU93-194	0.0603	3.9941	0.8562	5.5938	0.1029	3.9668	0.7002	631.47	23.86	628.03	26.20	613.58	86.27	631.47	23.86
1SPU93-329	0.0610	8.4797	0.8947	12.0683	0.1062	8.6324	0.7116	650.79	53.44	648.87	57.93	640.31	182.34	650.79	53.44
1SPU93-233	0.0613	4.1356	0.9001	5.8754	0.1065	4.0930	0.7105	652.16	25.39	651.80	28.27	648.57	88.81	652.16	25.39
1SPU93-300	0.0624	5.0096	0.9386	8.2872	0.1090	6.7767	0.7969	666.99	42.94	672.15	40.76	687.64	106.88	666.99	42.94
1SPU93-105	0.0618	5.8927	0.9565	8.1553	0.1121	5.6051	0.6913	685.09	36.43	681.51	40.51	667.47	126.14	685.09	36.43
1SPU93-196	0.0620	9.3541	0.9806	13.2977	0.1146	9.4724	0.7108	699.57	62.80	693.93	66.95	673.63	200.04	699.57	62.80
1SPU93-168	0.0658	4.1019	1.0535	5.9223	0.1159	4.3566	0.7215	707.21	29.18	730.59	30.86	800.89	85.93	707.21	29.18
1SPU93-313	0.0654	11.2022	1.0536	16.2036	0.1168	11.8298	0.7226	712.27	79.78	730.67	84.61	785.72	235.25	712.27	79.78
1SPU93-027	0.0634	4.1833	1.0250	4.5398	0.1172	3.8568	0.5136	714.43	26.08	716.40	23.34	720.52	88.78	714.43	26.08
1SPU93-251	0.0637	4.4840	1.0777	6.5596	0.1227	4.6362	0.7303	745.81	32.65	742.49	34.56	730.60	95.00	745.81	32.65
1SPU93-115	0.0656	4.7907	1.1608	6.3871	0.1282	4.2810	0.6614	777.51	31.36	782.31	34.85	793.83	100.48	777.51	31.36
1SPU93-120	0.0682	9.3615	1.2134	13.3701	0.1288	9.5674	0.7140	781.08	70.38	806.74	74.56	876.07	193.83	781.08	70.38
1SPU93-301	0.0698	10.9288	1.4444	15.6051	0.1500	11.2437	0.7138	900.93	94.54	907.57	93.90	922.01	224.63	922.01	224.63
1SPU93-284	0.0705	7.9982	1.5902	9.2807	0.1634	4.8811	0.5076	975.86	44.20	966.38	57.92	943.13	163.87	943.13	163.87
1SPU93-252	0.0708	3.9609	1.6158	5.9350	0.1654	4.2552	0.7452	986.45	38.92	976.37	37.24	951.94	81.05	951.94	81.05
1SPU93-328	0.0708	6.5729	1.3783	8.1321	0.1410	4.8690	0.5889	850.49	38.80	879.71	47.89	952.14	134.49	952.14	134.49
1SPU93-177	0.0708	6.9750	1.6234	8.9863	0.1660	5.7302	0.6306	990.23	52.60	979.31	56.52	952.84	142.70	952.84	142.70
1SPU93-111	0.0709	3.6215	1.5503	4.8813	0.1585	3.3077	0.6705	948.26	29.17	950.60	30.14	953.88	74.08	953.88	74.08
1SPU93-322	0.0711	4.9009	1.6552	6.9895	0.1688	5.1127	0.7132	1005.41	47.60	991.54	44.27	959.20	100.17	959.20	100.17
1SPU93-023	0.0711	9.5289	1.7167	13.7953	0.1749	10.0774	0.7231	1039.02	96.71	1014.81	88.74	960.91	194.71	960.91	194.71
1SPU93-045	0.0711	5.9402	1.6354	8.5914	0.1666	6.2070	0.7225	993.13	57.13	983.93	54.19	961.38	121.37	961.38	121.37
1SPU93-306	0.0713	6.1764	1.4571	7.1537	0.1481	4.1174	0.5089	890.16	34.23	912.82	43.10	966.29	126.11	966.29	126.11
1SPU93-002	0.0714	8.5060	1.4863	11.9940	0.1509	8.4660	0.7050	905.86	71.55	924.82	72.93	968.36	173.62	968.36	173.62
1SPU93-342	0.0715	5.3190	1.6480	7.8766	0.1670	5.8907	0.7376	995.60	54.34	988.78	49.81	971.80	108.51	971.80	108.51
1SPU93-316	0.0716	3.8912	1.6697	4.9687	0.1691	3.7527	0.6336	1007.08	34.99	997.08	31.56	973.40	79.36	973.40	79.36
1SPU93-095	0.0716	3.7523	1.7358	5.4143	0.1756	3.8557	0.7210	1043.07	37.13	1021.92	34.89	974.75	76.52	974.75	76.52
1SPU93-159	0.0717	3.7403	1.5827	5.8592	0.1599	4.5951	0.7699	956.29	40.84	963.42	36.47	977.64	76.24	977.64	76.24
1SPU93-182	0.0717	8.2175	1.7278	12.2819	0.1746	9.1460	0.7432	1037.21	87.63	1018.95	79.15	977.91	167.49	977.91	167.49
1SPU93-071	0.0719	12.7314	1.7133	18.6424	0.1725	12.9663	0.7314	1026.04	123.01	1013.53	120.08	984.49	259.17	984.49	259.17
1SPU93-046	0.0721	11.9840	1.3703	15.6296	0.1377	10.0333	0.6419	831.80	78.30	876.30	92.00	988.43	243.82	988.43	243.82
1SPU93-076	0.0721	3.1957	1.5070	4.9566	0.1513	3.7889	0.7644	908.51	32.11	933.23	30.26	989.97	65.00	989.97	65.00
1SPU93-303	0.0722	2.7266	1.6229	3.8408	0.1628	3.1081	0.7111	972.51	28.06	979.13	24.14	992.29	55.44	992.29	55.44
1SPU93-022	0.0724	3.9793	1.7045	5.4253	0.1705	3.9552	0.6814	1014.88	37.14	1010.23	34.73	998.16	80.84	998.16	80.84
1SPU93-072	0.0725	4.9733	1.6948	8.4054	0.1694	5.3470	0.8289	1009.01	49.94	1006.59	53.73	999.23	101.02	999.23	101.02
1SPU93-320	0.0725	5.4192	1.7046	7.6409	0.1704	5.6395	0.7057	1014.09	52.92	1010.25	48.94	1000.16	110.06	1000.16	110.06
1SPU93-169	0.0726	6.3375	1.6153	8.9121	0.1612	6.3241	0.7031	963.71	56.61	976.19	55.95	1002.32	128.67	1002.32	128.67
1SPU93-170	0.0727	3.6880	1.3589	7.3309	0.1355	6.3931	0.8643	819.05	49.17	871.38	42.91	1004.77	74.85	1004.77	74.85
1SPU93-103	0.0727	13.7275	1.6806	18.3946	0.1674	12.2290	0.6656	998.03	113.08	1001.21	117.62	1006.06	278.56	1006.06	278.56
1SPU93-028	0.0728	4.5674	1.7390	5.7002	0.1732	4.8369	0.6352	1029.60	46.03	1023.10	36.76	1007.22	92.67	1007.22	92.67
1SPU93-121	0.0728	4.3096	1.8825	6.3494	0.1874	4.7067	0.7344	1107.34	47.89	1074.95	42.13	1007.72	87.43	1007.72	87.43
1SPU93-211	0.0729	4.3541	1.6629	5.8727	0.1654	3.8317	0.6713	986.65	35.06	994.47	37.25	1009.83	88.31	1009.83	88.31
1SPU93-297	0.0729	5.6043	1.5883	7.9418	0.1579	5.6407	0.7085	945.30	49.60	965.62	49.52	1010.44	113.65	1010.44	113.65
1SPU93-118	0.0730	6.9044	1.7097	9.8835	0.1697	7.1060	0.7155	1010.47	66.46	1012.18	63.40	1013.77	139.95	1013.77	139.95
1SPU93-345	0.0730	8.6419	1.6421	11.5049	0.1630	7.6315	0.6601	973.34	68.95	986.52	72.73	1014.08	175.16	1014.08	175.16
1SPU93-321	0.0734	3.5592	1.6932	4.9383	0.1673	3.6090	0.6942	997.03	33.34	1005.98	31.53	1023.74	72.04	1023.74	72.04

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1SPU93, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.880380, LONGITUDE: -69.956440 ACCEPTED															
1SPU93-231	0.0734	5.4803	1.6497	7.8701	0.1628	5.5893	0.7178	972.41	50.45	989.44	49.79	1025.54	110.89	1025.54	110.89
1SPU93-107	0.0736	8.7983	1.5856	10.0381	0.1562	4.7942	0.4814	935.53	41.75	964.59	62.58	1029.32	177.89	1029.32	177.89
1SPU93-221	0.0736	9.1293	1.6735	12.5175	0.1647	8.5145	0.6842	982.71	77.61	998.50	79.72	1031.46	184.52	1031.46	184.52
1SPU93-057	0.0737	5.7995	1.5965	7.8288	0.1569	5.2589	0.6717	939.67	45.98	968.83	48.91	1033.52	117.18	1033.52	117.18
1SPU93-113	0.0738	10.4624	1.6442	13.5410	0.1615	8.6097	0.6348	964.84	77.16	987.31	85.70	1035.50	211.33	1035.50	211.33
1SPU93-276	0.0738	3.3266	1.7142	4.8578	0.1683	3.6255	0.7289	1002.49	33.66	1013.86	31.16	1036.74	67.18	1036.74	67.18
1SPU93-085	0.0739	6.3795	1.7363	9.2164	0.1703	6.8031	0.7219	1013.85	63.82	1022.11	59.45	1037.74	128.82	1037.74	128.82
1SPU93-010	0.0739	4.3625	1.7007	6.0735	0.1667	4.2458	0.6958	993.98	39.11	1008.79	38.85	1039.15	88.07	1039.15	88.07
1SPU93-288	0.0741	8.1686	1.6593	9.1797	0.1624	4.3824	0.4567	969.95	39.46	993.10	58.22	1042.86	164.82	1042.86	164.82
1SPU93-180	0.0741	8.5049	1.6405	12.5816	0.1604	9.2894	0.7369	958.84	82.77	985.90	79.53	1044.63	171.56	1044.63	171.56
1SPU93-220	0.0745	3.7973	1.7085	5.5789	0.1661	3.9821	0.7329	990.75	36.57	1011.74	35.75	1055.58	76.47	1055.58	76.47
1SPU93-025	0.0746	5.8460	1.6272	7.9339	0.1580	6.3668	0.6860	945.85	56.01	980.77	49.94	1057.80	117.69	1057.80	117.69
1SPU93-060	0.0747	6.5616	1.8495	9.8081	0.1793	7.2900	0.7433	1063.41	71.47	1063.26	64.73	1060.88	132.03	1060.88	132.03
1SPU93-080	0.0748	4.4432	1.4718	6.5941	0.1425	5.0772	0.7395	858.89	40.83	918.87	39.89	1063.71	89.37	1063.71	89.37
1SPU93-314	0.0749	4.7818	1.7881	6.2767	0.1730	4.5900	0.6525	1028.35	43.63	1041.13	40.90	1066.31	96.14	1066.31	96.14
1SPU93-175	0.0749	3.9036	1.7872	6.3818	0.1728	5.1205	0.7912	1027.41	48.63	1040.82	41.57	1067.06	78.48	1067.06	78.48
1SPU93-237	0.0750	9.9634	1.6439	13.5470	0.1588	9.1354	0.6776	949.95	80.69	987.20	85.73	1069.12	200.24	1069.12	200.24
1SPU93-125	0.0752	3.9337	1.6744	5.7495	0.1613	4.1530	0.7293	963.98	37.18	998.87	36.57	1074.20	79.00	1074.20	79.00
1SPU93-102	0.0753	5.6159	1.7815	8.2508	0.1715	6.0140	0.7326	1020.19	56.75	1038.73	53.71	1075.86	112.75	1075.86	112.75
1SPU93-033	0.0755	7.1550	1.7508	9.9860	0.1681	7.1617	0.6979	1001.50	66.43	1027.47	64.62	1081.18	143.53	1081.18	143.53
1SPU93-038	0.0755	11.2681	1.8057	16.3038	0.1733	11.5936	0.7228	1030.45	110.42	1047.51	106.94	1081.22	226.04	1081.22	226.04
1SPU93-163	0.0755	4.1216	1.7816	5.5147	0.1709	3.7093	0.6644	1016.93	34.90	1038.78	35.88	1083.01	82.66	1083.01	82.66
1SPU93-157	0.0757	4.6686	2.0299	6.5536	0.1944	4.6828	0.7019	1145.05	49.13	1125.58	44.61	1086.14	93.59	1086.14	93.59
1SPU93-219	0.0757	13.7740	1.6347	20.0367	0.1565	14.5223	0.7262	937.14	126.68	983.67	126.89	1087.12	276.07	1087.12	276.07
1SPU93-037	0.0757	9.7697	1.9512	14.5129	0.1867	10.5235	0.7396	1103.66	106.75	1098.85	97.73	1087.34	195.81	1087.34	195.81
1SPU93-293	0.0757	4.2936	1.8218	6.8724	0.1743	5.4450	0.7809	1035.94	52.11	1053.34	45.08	1087.86	86.05	1087.86	86.05
1SPU93-339	0.0759	4.3097	1.5678	7.0066	0.1496	5.6098	0.7885	898.88	47.07	957.55	43.46	1093.08	86.30	1093.08	86.30
1SPU93-311	0.0759	8.2308	1.9330	10.4544	0.1845	6.6653	0.6169	1091.27	66.92	1092.57	70.07	1093.43	164.82	1093.43	164.82
1SPU93-018	0.0764	3.3139	1.7766	4.3553	0.1686	3.1673	0.6531	1004.37	29.46	1036.95	28.30	1104.35	66.25	1104.35	66.25
1SPU93-213	0.0764	6.5584	1.7620	7.5660	0.1672	3.6584	0.4988	996.55	33.78	1031.58	49.05	1104.73	131.11	1104.73	131.11
1SPU93-029	0.0764	5.8245	2.0062	7.6658	0.1902	6.0502	0.6624	1122.59	62.34	1117.59	51.99	1105.92	116.41	1105.92	116.41
1SPU93-166	0.0767	14.4111	1.7686	19.1439	0.1671	12.6309	0.6583	995.90	116.57	1034.01	124.80	1113.47	287.71	1113.47	287.71
1SPU93-137	0.0774	8.1040	2.0248	11.7789	0.1896	8.5148	0.7257	1118.95	87.47	1123.87	80.23	1131.32	161.37	1131.32	161.37
1SPU93-193	0.0775	10.5416	1.9824	15.4104	0.1855	11.2475	0.7294	1096.70	113.44	1109.54	104.38	1132.87	209.85	1132.87	209.85
1SPU93-104	0.0777	7.2602	2.0261	10.7734	0.1890	7.9366	0.7388	1115.97	81.33	1124.32	73.37	1138.42	144.41	1138.42	144.41
1SPU93-040	0.0781	4.3209	2.0608	6.8632	0.1913	4.8988	0.7797	1128.39	50.71	1135.89	46.95	1148.25	85.82	1148.25	85.82
1SPU93-064	0.0781	14.0523	2.0039	21.9641	0.1860	16.8806	0.7686	1099.42	170.66	1116.82	149.85	1148.81	279.09	1148.81	279.09
1SPU93-024	0.0782	3.9526	2.0929	6.0059	0.1939	4.7426	0.7538	1142.55	49.66	1146.47	41.29	1151.95	78.46	1151.95	78.46
1SPU93-236	0.0784	7.6015	2.0335	10.7509	0.1879	7.5500	0.7072	1110.22	77.00	1126.79	73.30	1157.07	150.79	1157.07	150.79
1SPU93-091	0.0784	6.7970	2.0743	9.9918	0.1916	7.2985	0.7330	1129.96	75.65	1140.34	68.56	1158.06	134.81	1158.06	134.81
1SPU93-007	0.0786	10.9843	2.0788	14.5742	0.1917	9.5876	0.6572	1130.38	99.41	1141.85	100.24	1161.82	217.74	1161.82	217.74
1SPU93-112	0.0789	10.3836	1.9519	14.1969	0.1792	9.6934	0.6819	1062.76	94.98	1099.11	95.60	1169.74	205.59	1169.74	205.59
1SPU93-124	0.0795	3.4316	2.0728	5.2234	0.1888	3.8952	0.7540	1114.96	39.88	1139.85	35.79	1185.49	67.79	1185.49	67.79
1SPU93-021	0.0797	6.6664	2.2027	8.8948	0.2002	6.0598	0.6623	1176.56	65.17	1181.89	62.19	1189.72	131.61	1189.72	131.61
1SPU93-100	0.0798	5.3898	1.9886	8.6863	0.1804	6.7849	0.7842	1069.41	66.86	1111.66	58.75	1193.18	106.35	1193.18	106.35
1SPU93-156	0.0800	8.1783	2.3007	11.4887	0.2085	8.1166	0.7023	1220.73	90.27	1212.49	81.49	1195.84	161.31	1195.84	161.31
1SPU93-176	0.0800	7.1860	1.9831	9.1685	0.1796	5.7580	0.6211	1064.88	56.52	1109.78	61.96	1196.85	141.72	1196.85	141.72
1SPU93-127	0.0802	4.9000	2.1601	7.3387	0.1951	5.4324	0.7444	1149.01	57.17	1168.31	50.98	1202.22	96.56	1202.22	96.56
1SPU93-172	0.0808	5.0814	2.3616	7.4081	0.2117	5.4581	0.7277	1237.83	61.47	1231.08	52.89	1217.28	99.92	1217.28	99.92
1SPU93-153	0.0808	7.4622	2.1968	10.2097	0.1969	6.9804	0.6825	1158.71	74.03	1180.02	71.36	1217.29	146.73	1217.29	146.73

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1SPU93, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.880380, LONGITUDE: -69.956440 ACCEPTED															
1SPU93-132	0.0811	7.2209	2.2758	10.7420	0.2033	7.9318	0.7404	1192.84	86.38	1204.81	75.92	1224.32	141.84	1224.32	141.84
1SPU93-279	0.0812	12.3344	2.5362	18.4218	0.2265	13.7054	0.7428	1315.88	163.17	1282.48	134.94	1225.26	242.26	1225.26	242.26
1SPU93-167	0.0827	5.8624	2.2905	8.1747	0.2007	5.7610	0.6970	1179.08	62.08	1209.37	57.84	1261.87	114.54	1261.87	114.54
1SPU93-143	0.0829	10.5460	2.0445	16.1341	0.1787	12.2030	0.7568	1060.08	119.30	1130.47	110.45	1266.26	205.92	1266.26	205.92
1SPU93-142	0.0832	5.8907	2.2728	7.2467	0.1980	4.1998	0.5824	1164.32	44.74	1203.88	51.14	1273.57	114.90	1273.57	114.90
1SPU93-012	0.0832	7.3799	2.2097	11.2725	0.1925	8.5356	0.7559	1134.64	88.81	1184.13	78.96	1273.79	143.94	1273.79	143.94
1SPU93-274	0.0832	11.5294	2.3190	17.1348	0.2019	12.6999	0.7398	1185.63	137.56	1218.10	122.15	1274.40	224.86	1274.40	224.86
1SPU93-245	0.0841	5.4957	2.2828	7.7678	0.1966	5.2332	0.7075	1157.12	55.43	1206.98	54.90	1295.55	106.86	1295.55	106.86
1SPU93-160	0.0850	10.8340	2.6025	16.6431	0.2217	12.6472	0.7591	1291.00	147.99	1301.33	122.68	1316.44	210.05	1316.44	210.05
1SPU93-054	0.0855	5.2219	2.4833	8.6099	0.2104	6.8457	0.7951	1231.18	76.73	1267.18	62.40	1326.82	101.09	1326.82	101.09
1SPU93-058	0.0860	3.6830	2.6365	5.6375	0.2221	4.2682	0.7571	1292.82	50.00	1310.89	41.52	1338.59	71.18	1338.59	71.18
1SPU93-017	0.0861	9.7071	2.4923	14.2537	0.2098	10.5349	0.7323	1227.50	117.76	1269.79	103.64	1340.26	187.57	1340.26	187.57
1SPU93-281	0.0862	9.3812	2.3564	12.2686	0.1980	7.9798	0.6445	1164.52	85.02	1229.50	87.68	1343.64	181.19	1343.64	181.19
1SPU93-052	0.0864	4.7045	2.6374	6.5401	0.2212	4.5432	0.6947	1288.09	53.05	1311.13	48.19	1347.05	90.82	1347.05	90.82
1SPU93-204	0.0864	11.0779	2.5378	15.5757	0.2128	10.9145	0.7030	1243.52	123.45	1282.94	113.92	1347.73	213.84	1347.73	213.84
1SPU93-208	0.0865	7.8194	2.7435	10.4322	0.2299	6.7878	0.6621	1333.82	81.79	1340.33	77.78	1348.92	150.91	1348.92	150.91
1SPU93-073	0.0866	8.3328	2.4180	13.2079	0.2023	9.3642	0.7790	1187.55	101.57	1247.95	95.15	1351.75	160.76	1351.75	160.76
1SPU93-244	0.0875	13.8717	2.5726	21.0217	0.2131	15.7079	0.7514	1245.20	177.91	1292.89	154.90	1371.24	266.90	1371.24	266.90
1SPU93-224	0.0886	7.6629	2.7905	13.0042	0.2282	10.4469	0.8080	1325.18	125.15	1352.98	97.51	1395.41	146.95	1395.41	146.95
1SPU93-144	0.0897	3.8706	2.5655	7.3662	0.2073	6.2532	0.8508	1214.26	69.21	1290.86	53.87	1418.67	73.99	1418.67	73.99
1SPU93-134	0.0897	4.2363	2.8456	6.1622	0.2298	4.4115	0.7263	1333.61	53.15	1367.66	46.33	1419.28	80.97	1419.28	80.97
1SPU93-271	0.0897	8.3388	3.0716	12.5652	0.2481	9.4079	0.7481	1428.65	120.57	1425.64	96.54	1419.47	159.38	1419.47	159.38
1SPU93-041	0.0898	13.3722	2.7780	17.2627	0.2241	10.7120	0.6325	1303.68	126.45	1349.65	129.59	1421.34	255.53	1421.34	255.53
1SPU93-005	0.0906	4.4792	2.5700	8.0794	0.2056	6.7367	0.8322	1205.14	74.05	1292.15	59.12	1437.96	85.40	1437.96	85.40
1SPU93-294	0.0932	4.6458	3.0955	6.2629	0.2407	4.3004	0.6708	1390.52	53.79	1431.59	48.10	1491.56	87.94	1491.56	87.94
1SPU93-184	0.0933	4.1388	2.9667	7.3966	0.2304	6.1175	0.8288	1336.46	73.84	1399.13	56.23	1494.12	78.32	1494.12	78.32
1SPU93-075	0.0941	7.7960	3.0713	13.6764	0.2364	11.2369	0.8216	1368.05	138.53	1425.56	105.13	1510.57	147.20	1510.57	147.20
1SPU93-308	0.0942	6.6207	3.3261	12.6428	0.2557	10.9514	0.8520	1468.02	143.80	1487.19	99.01	1513.02	124.97	1513.02	124.97
1SPU93-278	0.0956	4.2086	3.3401	5.6720	0.2531	3.8822	0.6705	1454.58	50.55	1490.48	44.35	1540.31	79.16	1540.31	79.16
1SPU93-110	0.0958	8.3005	3.2675	11.9460	0.2471	8.6046	0.7192	1423.75	109.93	1473.34	93.13	1543.56	156.05	1543.56	156.05
1SPU93-239	0.0962	9.0431	3.2369	15.7969	0.2437	12.9216	0.8199	1405.96	163.26	1466.05	123.14	1552.49	169.81	1552.49	169.81
1SPU93-190	0.0970	11.1397	3.2659	14.5084	0.2440	9.3034	0.6407	1407.57	117.65	1472.98	113.25	1566.71	208.80	1566.71	208.80
1SPU93-165	0.0974	8.0563	3.3348	11.4432	0.2480	8.1716	0.7102	1428.35	104.70	1489.23	89.62	1575.12	150.84	1575.12	150.84
1SPU93-081	0.0977	9.5110	3.3705	15.2372	0.2499	11.9897	0.7813	1438.00	154.56	1497.56	119.87	1580.97	177.94	1580.97	177.94
1SPU93-189	0.0979	14.1487	3.6281	21.8588	0.2684	16.6574	0.7623	1532.81	227.33	1555.72	175.73	1585.14	264.57	1585.14	264.57
1SPU93-207	0.0984	8.9042	3.0016	14.2316	0.2211	11.0291	0.7801	1287.68	128.75	1408.02	108.81	1593.38	166.32	1593.38	166.32
1SPU93-264	0.0987	3.8146	3.4837	6.6880	0.2557	5.4730	0.8214	1467.70	71.84	1523.53	52.81	1600.31	71.19	1600.31	71.19
1SPU93-094	0.0990	8.3951	3.3422	10.6061	0.2445	6.4532	0.6111	1410.02	81.73	1490.96	83.08	1606.09	156.56	1606.09	156.56
1SPU93-117	0.0991	8.3746	3.2960	13.3998	0.2410	10.4834	0.7806	1391.93	131.26	1480.10	104.76	1606.92	156.16	1606.92	156.16
1SPU93-324	0.0993	7.4889	3.6195	12.8569	0.2642	10.5129	0.8129	1511.40	141.66	1553.83	102.63	1610.38	139.58	1610.38	139.58
1SPU93-335	0.1000	10.0839	3.3291	15.7441	0.2413	12.1302	0.7680	1393.60	152.05	1487.90	123.54	1623.34	187.64	1623.34	187.64
1SPU93-066	0.1004	5.1259	3.4902	9.3014	0.2519	7.7616	0.8344	1448.49	100.70	1525.01	73.54	1630.96	95.29	1630.96	95.29
1SPU93-101	0.1005	8.1637	3.7500	11.2147	0.2703	7.6652	0.6856	1542.23	105.15	1582.12	90.14	1633.79	151.70	1633.79	151.70
1SPU93-312	0.1009	14.1409	3.9790	23.2092	0.2857	18.4818	0.7930	1619.78	264.86	1629.93	190.54	1641.46	262.52	1641.46	262.52
1SPU93-148	0.1014	14.4590	3.2375	22.6690	0.2314	17.4541	0.7702	1341.96	211.53	1466.18	177.65	1649.09	268.09	1649.09	268.09
1SPU93-078	0.1026	4.5878	3.2987	8.8639	0.2329	7.5843	0.8556	1349.71	92.37	1480.74	69.17	1671.93	84.82	1671.93	84.82
1SPU93-272	0.1028	5.0961	3.8681	8.1354	0.2726	6.3541	0.7795	1554.03	87.75	1607.05	65.73	1675.64	94.17	1675.64	94.17
1SPU93-020	0.1028	8.2773	3.9958	10.8301	0.2815	7.1290	0.6450	1599.03	100.96	1633.35	88.18	1676.01	152.95	1676.01	152.95
1SPU93-285	0.1028	5.0739	3.9967	7.5994	0.2816	5.8026	0.7447	1599.44	82.20	1633.52	61.80	1676.09	93.76	1676.09	93.76
1SPU93-250	0.1029	6.4501	3.8467	10.1650	0.2709	7.7650	0.7729	1545.53	106.72	1602.57	82.10	1676.72	119.18	1676.72	119.18

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1SPU93, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.880380, LONGITUDE: -69.956440 ACCEPTED															
1SPU93-099	0.1029	6.0670	4.0133	9.7059	0.2825	7.5517	0.7806	1603.95	107.24	1636.90	79.05	1677.56	112.09	1677.56	112.09
1SPU93-008	0.1031	11.5683	3.8869	15.3821	0.2731	10.1468	0.6591	1556.60	140.34	1610.97	124.85	1681.01	213.63	1681.01	213.63
1SPU93-051	0.1032	8.0952	3.7481	12.1481	0.2632	9.0578	0.7456	1506.31	121.68	1581.70	97.67	1681.87	149.48	1681.87	149.48
1SPU93-077	0.1046	2.8288	4.4647	4.4826	0.3092	3.4772	0.7757	1736.56	52.94	1724.44	37.20	1707.85	52.06	1707.85	52.06
1SPU93-044	0.1048	9.9474	4.2034	12.3273	0.2907	7.2809	0.5906	1645.14	105.73	1674.68	101.45	1710.03	183.03	1710.03	183.03
1SPU93-197	0.1048	4.7590	3.8844	6.5799	0.2687	4.5875	0.6906	1533.99	62.63	1610.44	53.18	1710.12	87.56	1710.12	87.56
1SPU93-310	0.1048	14.0688	3.9794	19.5923	0.2751	13.7405	0.6960	1566.44	191.14	1630.01	160.30	1711.46	258.82	1711.46	258.82
1SPU93-139	0.1057	5.1626	4.2704	7.8736	0.2928	5.8972	0.7551	1655.72	86.11	1687.68	64.87	1725.72	94.81	1725.72	94.81
1SPU93-146	0.1059	5.7676	4.1786	7.5244	0.2859	4.8140	0.6422	1620.90	69.00	1669.83	61.72	1730.01	105.86	1730.01	105.86
1SPU93-042	0.1061	7.6817	4.7376	11.4970	0.3235	8.2908	0.7444	1806.64	130.64	1773.92	96.68	1733.77	140.93	1733.77	140.93
1SPU93-262	0.1065	13.6234	4.5932	20.1604	0.3125	14.8533	0.7371	1753.19	228.09	1748.04	169.67	1740.27	249.73	1740.27	249.73
1SPU93-119	0.1071	6.0611	4.5360	8.8439	0.3070	6.4778	0.7282	1725.79	98.09	1737.60	73.71	1749.95	110.97	1749.95	110.97
1SPU93-347	0.1075	5.6592	4.3917	7.9023	0.2960	5.5658	0.6980	1671.37	81.95	1710.78	65.45	1757.67	103.52	1757.67	103.52
1SPU93-336	0.1076	5.9367	4.6761	8.6544	0.3150	6.3722	0.7277	1765.33	98.41	1762.98	72.52	1758.55	108.58	1758.55	108.58
1SPU93-195	0.1080	7.3909	4.1803	11.0844	0.2805	8.2846	0.7453	1593.98	117.01	1670.16	91.07	1765.51	135.07	1765.51	135.07
1SPU93-030	0.1087	7.1566	4.6439	10.0126	0.3094	7.7975	0.7034	1737.83	118.79	1757.20	83.84	1778.52	130.58	1778.52	130.58
1SPU93-087	0.1088	4.1508	4.4678	5.6772	0.2975	4.1278	0.6836	1678.88	61.01	1725.01	47.14	1779.55	75.72	1779.55	75.72
1SPU93-178	0.1108	7.9704	4.6129	10.9074	0.3016	7.4949	0.6827	1699.21	111.96	1751.61	91.27	1812.94	144.79	1812.94	144.79
1SPU93-305	0.1136	3.2151	4.6254	4.1806	0.2950	3.3267	0.6546	1666.40	48.85	1753.86	34.92	1858.17	58.07	1858.17	58.07
1SPU93-079	0.1139	11.1911	4.8726	16.0355	0.3099	11.4846	0.7162	1740.40	175.21	1797.52	135.90	1862.59	202.03	1862.59	202.03
1SPU93-332	0.1181	4.9188	5.8987	7.3580	0.3619	5.5431	0.7438	1991.07	94.96	1961.04	63.97	1927.89	88.13	1927.89	88.13
1SPU93-309	0.1216	6.3447	6.0463	8.9175	0.3603	6.5721	0.7035	1983.81	112.24	1982.54	77.85	1979.68	113.00	1979.68	113.00
1SPU93-116	0.1262	3.2342	6.2598	4.9460	0.3594	3.8061	0.7567	1979.33	64.87	2012.84	43.33	2045.56	57.16	2045.56	57.16
1SPU93-215	0.1294	5.4140	6.6535	7.8312	0.3725	5.5830	0.7226	2041.31	97.69	2066.47	69.23	2090.00	95.19	2090.00	95.19
1SPU93-086	0.1401	3.3008	7.8683	4.6267	0.4070	3.5425	0.7035	2201.34	66.06	2216.06	41.70	2227.90	57.15	2227.90	57.15
1SPU93-256	0.1649	4.4926	9.6103	7.0821	0.4222	5.2025	0.7740	2270.49	99.57	2398.16	65.22	2506.94	75.57	2506.94	75.57
1SPU93-098	0.1725	3.3354	10.6597	5.2439	0.4477	4.0007	0.7717	2384.85	79.76	2493.92	48.72	2582.25	55.69	2582.25	55.69
1SPU93-129	0.1842	9.9864	12.7715	14.5257	0.5024	10.5324	0.7262	2623.98	227.13	2662.95	137.62	2690.97	165.00	2690.97	165.00
1SPU93, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.880380, LONGITUDE: -69.956440 REJECTED															
1SPU93-203	0.0478	57.0860	0.0682	63.2104	0.0104	27.1291	0.4294	66.38	17.92	67.02	41.02	87.68	1353.46	66.38	17.92
1SPU93-050	0.0952	34.8509	0.1508	47.0039	0.0115	31.5403	0.6710	73.56	23.07	142.62	62.62	1532.17	656.18	73.56	23.07
1SPU93-323	0.0480	22.2910	0.0847	30.3558	0.0128	20.6372	0.6788	81.81	16.78	82.52	24.06	101.06	527.17	81.81	16.78
1SPU93-255	0.0531	19.8682	0.0962	24.9883	0.0131	15.0586	0.6065	84.18	12.59	93.29	22.28	331.06	450.62	84.18	12.59
1SPU93-070	0.0670	9.5598	0.1297	11.2977	0.0140	4.3501	0.5613	89.82	3.88	123.82	13.17	836.88	199.14	89.82	3.88
1SPU93-039	0.0509	21.8580	0.1000	29.9769	0.0142	20.4060	0.6844	91.19	18.48	96.78	27.68	234.28	504.40	91.19	18.48
1SPU93-147	0.0917	15.1365	0.2108	15.8354	0.0167	4.6335	0.2938	106.52	4.89	194.22	28.00	1460.52	287.71	106.52	4.89
1SPU93-043	0.0738	12.6752	0.2307	14.1414	0.0226	5.9064	0.4442	144.37	8.43	210.79	26.92	1036.34	256.00	144.37	8.43
1SPU93-229	0.0905	16.3668	0.2879	17.2899	0.0231	5.4608	0.3225	146.96	7.93	256.93	39.27	1435.67	312.14	146.96	7.93
1SPU93-174	0.0853	21.6068	0.2871	22.2533	0.0244	5.3933	0.2393	155.29	8.28	256.29	50.45	1322.84	418.53	155.29	8.28
1SPU93-261	0.0670	11.5349	0.4710	19.5835	0.0510	15.8189	0.8081	320.53	49.46	391.90	63.75	836.30	240.31	320.53	49.46
1SPU93-248	0.0577	26.5180	0.6851	37.8014	0.0861	26.8885	0.7127	532.36	137.41	529.86	157.30	517.09	582.22	532.36	137.41
1SPU93-003	0.1145	8.7327	1.4483	12.1723	0.0916	8.4897	0.6966	565.18	45.94	909.15	73.24	1872.34	157.47	565.18	45.94
1SPU93-241	0.0554	16.7142	0.7462	18.7317	0.0976	8.3734	0.4515	600.06	47.98	566.04	81.45	429.58	372.51	600.06	47.98
1SPU93-325	0.0600	15.6531	0.8121	22.1327	0.0981	15.6721	0.7070	603.51	90.30	603.62	101.04	602.14	338.75	603.51	90.30
1SPU93-063	0.0583	3.8759	0.7917	5.6799	0.0984	4.1519	0.7310	605.03	23.98	592.13	25.49	540.73	84.75	605.03	23.98
1SPU93-225	0.0605	17.7220	0.8326	25.8529	0.0998	18.7897	0.7281	613.09	109.90	615.07	119.82	620.36	382.35	613.09	109.90
1SPU93-013	0.0588	4.9747	0.8511	7.0130	0.1049	5.0435	0.7050	643.26	30.88	625.26	32.75	558.53	108.45	643.26	30.88
1SPU93-202	0.0762	5.3157	1.1599	6.7517	0.1102	4.0711	0.6167	674.18	26.06	781.91	36.83	1101.19	106.32	674.18	26.06
1SPU93-006	0.0879	3.3359	1.4952	4.6778	0.1233	3.3054	0.7011	749.66	23.39	928.45	28.47	1379.24	64.11	749.66	23.39

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1SPU93, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.880380, LONGITUDE: -69.956440 REJECTED															
1SPU93-123	0.1099	4.7302	1.9700	6.4365	0.1299	4.4119	0.6782	787.27	32.70	1105.31	43.38	1797.45	86.11	787.27	32.70
1SPU93-084	0.0864	19.3307	1.5626	24.5157	0.1310	15.1452	0.6150	793.85	113.13	955.50	152.94	1346.91	373.19	793.85	113.13
1SPU93-133	0.0664	4.5007	1.3811	6.3752	0.1506	4.4779	0.7083	904.45	37.79	880.90	37.56	820.04	94.00	820.04	94.00
1SPU93-128	0.0717	17.7505	1.4374	21.5602	0.1453	12.2240	0.5676	874.32	99.95	904.63	129.80	977.27	361.83	977.27	361.83
1SPU93-350	0.0718	18.9172	1.9014	27.8489	0.1919	20.4515	0.7339	1131.80	212.37	1081.59	187.41	979.89	385.36	979.89	385.36
1SPU93-326	0.0740	8.0565	1.3822	13.3794	0.1354	10.7183	0.7984	818.46	82.39	881.36	78.98	1041.01	162.60	1041.01	162.60
1SPU93-150	0.0742	3.9877	1.4096	6.5720	0.1377	5.2402	0.7949	831.75	40.89	892.99	39.06	1045.76	80.42	1045.76	80.42
1SPU93-032	0.0743	19.9334	1.8117	29.0581	0.1766	21.2083	0.7276	1048.63	205.32	1049.68	192.38	1049.89	401.76	1049.89	401.76
1SPU93-199	0.0760	16.2204	1.7740	22.9511	0.1691	16.2496	0.7075	1006.92	151.51	1035.97	150.12	1095.89	324.68	1095.89	324.68
1SPU93-192	0.0770	6.0085	1.5090	8.2930	0.1420	5.7291	0.6892	855.70	45.91	934.02	50.69	1121.73	119.81	1121.73	119.81
1SPU93-183	0.0802	15.3632	2.1985	21.1191	0.1985	14.5024	0.6862	1167.47	154.90	1180.56	148.44	1202.68	302.73	1202.68	302.73
1SPU93-198	0.0814	29.7529	1.8167	30.3225	0.1616	5.8838	0.1929	965.75	52.77	1051.48	201.17	1232.23	583.78	1232.23	583.78
1SPU93-292	0.0832	10.4696	1.8380	15.3412	0.1600	11.2514	0.7309	956.97	100.07	1059.13	101.22	1274.45	204.19	1274.45	204.19
1SPU93-277	0.0846	6.6615	1.8873	8.0496	0.1616	4.5861	0.5614	965.87	41.14	1076.65	53.48	1306.64	129.33	1306.64	129.33
1SPU93-062	0.0849	26.4917	2.6257	40.5430	0.2240	30.6908	0.7570	1303.22	362.51	1307.87	307.17	1313.50	513.82	1313.50	513.82
1SPU93-171	0.0918	21.3901	3.1350	30.8344	0.2474	22.2252	0.7203	1424.92	284.32	1441.33	241.84	1463.69	406.40	1463.69	406.40
1SPU93-092	0.0926	11.7370	2.4944	15.5723	0.1951	10.2162	0.6572	1149.12	107.54	1270.42	113.34	1480.06	222.51	1480.06	222.51
1SPU93-258	0.0946	12.0993	1.8904	15.8380	0.1448	10.0769	0.6454	871.66	82.16	1077.72	105.56	1520.36	228.16	1520.36	228.16
1SPU93-344	0.0982	18.2598	3.1697	23.2921	0.2340	14.4796	0.6208	1355.22	177.02	1449.81	181.70	1589.63	341.24	1589.63	341.24
1SPU93-108	0.1024	15.1126	3.0892	20.0334	0.2185	13.1369	0.6564	1273.94	151.89	1430.01	154.86	1668.67	279.52	1668.67	279.52
1SPU93-228	0.1059	5.2606	2.3479	6.6676	0.1606	3.9413	0.6149	960.13	35.16	1226.91	47.51	1730.48	96.55	1730.48	96.55
1SPU93-214	0.1096	5.3779	3.4769	7.8710	0.2298	5.6730	0.7302	1333.31	68.33	1522.00	62.15	1793.51	97.94	1793.51	97.94
1SPU93-191	0.1201	4.6364	3.9916	9.8554	0.2407	8.7054	0.8824	1390.57	108.90	1632.50	80.19	1958.23	82.78	1958.23	82.78
100816-01, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.887460, LONGITUDE: -69.959610 ACCEPTED															
100816-01-039	0.0675	45.7799	0.0771	46.8868	0.0083	10.2083	0.2160	53.14	5.40	75.41	34.09	853.73	951.14	53.14	5.40
100816-01-232	0.0643	83.4078	0.0738	84.6646	0.0083	14.5339	0.1717	53.34	7.72	72.32	59.16	752.96	1760.78	53.34	7.72
100816-01-066	0.0648	30.9888	0.0804	32.7449	0.0090	10.6502	0.3231	57.73	6.12	78.48	24.74	766.75	652.74	57.73	6.12
100816-01-344	0.0312	138.9076	0.0405	139.3848	0.0094	11.1997	0.0827	60.26	6.72	40.28	55.10	0.00	3348.30	60.26	6.72
100816-01-259	0.0598	41.5586	0.0898	42.8616	0.0109	10.5742	0.2447	69.71	7.33	87.29	35.87	596.06	900.28	69.71	7.33
100816-01-377	0.0492	26.9572	0.0753	27.5378	0.0111	5.5846	0.2043	71.07	3.95	73.71	19.58	159.34	630.69	71.07	3.95
100816-01-188	0.0501	14.0656	0.0818	14.8485	0.0118	4.8016	0.3204	75.70	3.61	79.79	11.39	201.24	326.56	75.70	3.61
100816-01-255	0.0470	21.5795	0.0773	21.9893	0.0119	4.4351	0.1924	76.38	3.37	75.64	16.03	48.99	515.36	76.38	3.37
100816-01-142	0.0498	24.7737	0.0825	25.8497	0.0120	7.3800	0.2855	76.87	5.64	80.49	20.01	187.71	576.58	76.87	5.64
100816-01-280	0.0575	54.0976	0.0960	54.9813	0.0121	9.8117	0.1786	77.43	7.55	93.07	48.94	512.06	1188.78	77.43	7.55
100816-01-326	0.0456	32.1038	0.0770	33.9074	0.0122	11.5722	0.3223	78.43	9.02	75.30	24.61	0.00	773.85	78.43	9.02
100816-01-370	0.0502	13.1492	0.0855	17.8450	0.0124	12.4305	0.6764	79.13	9.78	83.32	14.28	204.67	305.09	79.13	9.78
100816-01-306	0.0556	42.9279	0.0957	43.9888	0.0125	9.9645	0.2185	79.84	7.91	92.79	39.03	437.59	955.39	79.84	7.91
100816-01-218	0.0591	13.9611	0.1024	18.9310	0.0125	12.8672	0.6754	80.40	10.28	99.00	17.86	570.90	303.73	80.40	10.28
100816-01-074	0.0427	57.2149	0.0740	57.6265	0.0126	6.9369	0.1193	80.41	5.54	72.47	40.33	0.00	1379.14	80.41	5.54
100816-01-374	0.0548	63.2142	0.0951	64.3749	0.0126	12.1511	0.1890	80.56	9.73	92.25	56.83	405.84	1414.75	80.56	9.73
100816-01-048	0.0508	13.3953	0.0891	15.3143	0.0127	7.2743	0.4848	81.46	5.89	86.68	12.72	231.62	309.27	81.46	5.89
100816-01-037	0.0545	21.5984	0.0989	23.1994	0.0131	8.7884	0.3653	84.19	7.35	95.77	21.21	393.41	484.44	84.19	7.35
100816-01-376	0.0523	18.1826	0.0961	20.5513	0.0133	9.5552	0.4661	85.35	8.10	93.21	18.30	298.58	414.71	85.35	8.10
100816-01-367	0.0626	23.6317	0.1159	24.7717	0.0134	8.3077	0.3017	85.98	7.10	111.31	26.12	693.26	503.73	85.98	7.10
100816-01-288	0.0502	10.2462	0.0938	13.7522	0.0135	9.2345	0.6670	86.66	7.95	91.02	11.97	203.85	237.77	86.66	7.95
100816-01-086	0.0474	13.3659	0.0937	15.5312	0.0143	7.8695	0.5093	91.67	7.16	90.94	13.51	70.70	317.90	91.67	7.16
100816-01-233	0.0521	9.4827	0.1036	10.1924	0.0144	3.7362	0.3666	92.23	3.42	100.10	9.72	288.50	216.68	92.23	3.42
100816-01-069	0.0625	58.6725	0.1272	59.7468	0.0147	11.3457	0.1888	94.38	10.63	121.60	68.58	692.59	1250.80	94.38	10.63
100816-01-275	0.0608	7.7698	0.1242	9.2788	0.0148	5.0594	0.5466	94.59	4.75	118.85	10.41	633.60	167.26	94.59	4.75

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
100816-01, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.887460, LONGITUDE: -69.959610 ACCEPTED															
100816-01-052	0.0744	21.3650	0.2287	22.4599	0.0223	6.7676	0.3085	142.08	9.51	209.16	42.48	1052.52	430.45	142.08	9.51
100816-01-285	0.0594	29.4786	0.1850	30.5099	0.0226	7.9375	0.2578	143.78	11.29	172.38	48.41	582.48	640.05	143.78	11.29
100816-01-126	0.0532	14.9295	0.1655	15.5072	0.0226	4.4365	0.2708	143.80	6.31	155.47	22.36	335.92	338.31	143.80	6.31
100816-01-252	0.0680	15.5483	0.2165	16.9229	0.0230	6.6821	0.3948	146.90	9.70	199.02	30.59	869.58	322.24	146.90	9.70
100816-01-388	0.0492	11.2717	0.1586	13.5008	0.0234	7.4009	0.5504	149.01	10.90	149.50	18.77	156.63	263.85	149.01	10.90
100816-01-054	0.0363	44.4156	0.1180	45.2603	0.0235	8.5776	0.1923	149.96	12.71	113.22	48.53	0.00	1070.61	149.96	12.71
100816-01-318	0.0590	14.7109	0.1951	15.5162	0.0240	6.2614	0.3271	152.71	9.45	180.96	25.72	565.92	320.31	152.71	9.45
100816-01-245	0.0792	20.0860	0.2639	22.3875	0.0241	9.9095	0.4416	153.76	15.06	237.79	47.50	1176.27	397.32	153.76	15.06
100816-01-021	0.0495	11.6903	0.1665	12.3664	0.0244	4.1216	0.3262	155.24	6.32	156.33	17.92	171.17	272.91	155.24	6.32
100816-01-293	0.0723	25.4835	0.2638	27.8166	0.0264	11.3969	0.4010	168.28	18.93	237.72	59.02	993.00	518.11	168.28	18.93
100816-01-170	0.0546	16.3779	0.2058	18.5982	0.0273	8.8598	0.4738	173.74	15.19	190.01	32.24	395.08	367.24	173.74	15.19
100816-01-065	0.0950	32.0118	0.4085	34.4944	0.0312	12.9078	0.3725	197.87	25.15	347.81	101.93	1528.31	603.03	197.87	25.15
100816-01-001	0.0541	16.2767	0.2429	20.0453	0.0325	11.7727	0.5837	206.44	23.92	220.80	39.80	374.38	366.31	206.44	23.92
100816-01-236	0.0644	15.5764	0.3498	17.3276	0.0394	7.3509	0.4383	248.89	17.95	304.58	45.63	753.36	328.80	248.89	17.95
100816-01-047	0.1023	33.1750	0.5655	35.0352	0.0400	10.9596	0.3216	253.14	27.21	455.08	129.19	1667.16	613.71	253.14	27.21
100816-01-061	0.0537	9.3600	0.2969	10.2088	0.0401	4.2562	0.3996	253.49	10.58	263.97	23.73	357.05	211.30	253.49	10.58
100816-01-167	0.0532	10.5990	0.2951	11.6229	0.0402	4.9984	0.4109	254.15	12.46	262.58	26.90	336.30	240.16	254.15	12.46
100816-01-330	0.0517	9.8787	0.3018	10.3170	0.0423	3.8742	0.2985	267.17	10.14	267.79	24.29	271.47	226.42	267.17	10.14
100816-01-390	0.0486	13.5363	0.2870	16.9525	0.0428	10.1837	0.6020	270.17	26.94	256.22	38.41	129.70	318.43	270.17	26.94
100816-01-193	0.0585	8.9994	0.3460	11.1079	0.0428	6.5608	0.5862	270.38	17.37	301.74	29.00	549.27	196.50	270.38	17.37
100816-01-064	0.0572	15.5312	0.3455	16.1842	0.0438	4.7133	0.2814	276.22	12.74	301.32	42.22	499.59	342.03	276.22	12.74
100816-01-032	0.0636	11.3690	0.3898	12.0841	0.0444	4.2989	0.3393	280.01	11.78	334.24	34.43	729.81	240.90	280.01	11.78
100816-01-308	0.0938	19.7125	0.5777	24.3675	0.0446	14.5694	0.5879	281.45	40.12	462.99	90.84	1503.86	372.54	281.45	40.12
100816-01-354	0.0545	13.1003	0.3483	13.5864	0.0463	5.5796	0.2909	291.81	15.92	303.41	35.65	392.61	293.87	291.81	15.92
100816-01-243	0.0528	8.1757	0.3724	10.5522	0.0511	6.6660	0.6322	321.10	20.88	321.46	29.08	320.63	185.73	321.10	20.88
100816-01-164	0.0529	7.5431	0.3845	8.0271	0.0527	3.1250	0.3448	330.94	10.08	330.33	22.64	323.93	171.26	330.94	10.08
100816-01-116	0.0759	7.9650	0.6330	11.1670	0.0605	7.9791	0.7010	378.46	29.33	497.93	43.98	1091.97	159.53	378.46	29.33
100816-01-262	0.0693	10.3964	0.6122	14.5460	0.0639	10.2386	0.6994	399.56	39.67	484.94	56.14	908.75	214.17	399.56	39.67
100816-01-042	0.0618	6.6595	0.5586	8.5043	0.0656	5.4422	0.6222	409.35	21.58	450.61	30.96	665.80	142.60	409.35	21.58
100816-01-295	0.0590	6.6946	0.5704	7.7123	0.0700	5.0099	0.5145	436.29	21.13	458.28	28.45	567.42	145.73	436.29	21.13
100816-01-201	0.0624	12.3804	0.6056	13.5796	0.0703	5.6296	0.4109	438.17	23.85	480.79	52.05	686.77	264.18	438.17	23.85
100816-01-151	0.0589	12.3213	0.5976	17.0841	0.0735	11.8815	0.6927	457.44	52.47	475.70	64.98	563.01	268.41	457.44	52.47
100816-01-279	0.0543	15.9628	0.5539	21.1867	0.0738	13.9261	0.6575	459.14	61.72	447.52	76.83	385.14	358.56	459.14	61.72
100816-01-336	0.0589	13.9590	0.6070	16.8990	0.0746	10.6888	0.5674	464.04	47.86	481.68	64.90	565.06	303.98	464.04	47.86
100816-01-073	0.0606	11.2448	0.6746	12.0472	0.0807	4.4212	0.3590	500.13	21.28	523.54	49.32	626.10	242.37	500.13	21.28
100816-01-362	0.0611	8.9326	0.6839	10.5079	0.0812	6.6681	0.5358	503.12	32.27	529.11	43.36	642.13	192.02	503.12	32.27
100816-01-178	0.0753	5.8117	0.8492	6.4211	0.0818	2.9005	0.4260	506.59	14.13	624.22	29.95	1075.34	116.69	506.59	14.13
100816-01-309	0.0580	10.9775	0.6560	11.1607	0.0819	3.3364	0.2039	507.66	16.29	512.18	44.92	530.08	240.48	507.66	16.29
100816-01-286	0.0591	11.2371	0.6835	12.1299	0.0838	4.6904	0.3767	518.48	23.37	528.90	50.05	571.26	244.45	518.48	23.37
100816-01-210	0.0598	7.0089	0.6943	10.4676	0.0841	7.8991	0.7428	520.42	39.49	535.36	43.58	596.63	151.82	520.42	39.49
100816-01-379	0.0596	12.8724	0.6943	14.7499	0.0844	7.1703	0.4882	522.59	35.99	535.39	61.45	589.71	279.15	522.59	35.99
100816-01-044	0.0612	10.9305	0.7165	14.2293	0.0848	8.7309	0.6408	524.99	44.02	548.60	60.38	646.66	234.79	524.99	44.02
100816-01-062	0.0843	10.0361	0.9894	10.9542	0.0851	4.5581	0.4010	526.47	23.04	698.44	55.37	1299.33	195.04	526.47	23.04
100816-01-284	0.0663	33.8256	0.7985	34.7344	0.0872	7.9653	0.2273	538.85	41.18	595.95	157.84	816.97	706.83	538.85	41.18
100816-01-339	0.0582	10.3533	0.7038	12.3646	0.0877	8.3199	0.5585	541.72	43.23	541.03	51.90	536.79	226.55	541.72	43.23
100816-01-332	0.0632	9.7588	0.7665	12.4711	0.0878	8.1518	0.6234	542.72	42.43	577.76	55.00	716.57	207.23	542.72	42.43
100816-01-029	0.0597	5.6352	0.7359	6.8966	0.0893	4.1855	0.5773	551.32	22.12	560.01	29.69	593.94	122.12	551.32	22.12
100816-01-283	0.0777	18.4781	0.9593	20.1185	0.0895	7.9491	0.3955	552.36	42.08	682.96	100.35	1138.44	367.54	552.36	42.08
100816-01-070	0.0727	8.6529	0.9002	10.7048	0.0898	6.3700	0.5888	554.25	33.83	651.83	51.54	1005.30	175.61	554.25	33.83
100816-01-131	0.0600	11.1401	0.7506	14.0164	0.0907	8.5832	0.6069	559.63	46.01	568.55	61.09	603.06	241.04	559.63	46.01

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
100816-01, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.887460, LONGITUDE: -69.959610 ACCEPTED															
100816-01-253	0.0593	12.6493	0.7501	17.3434	0.0916	11.8661	0.6841	564.82	64.17	568.27	75.62	578.86	274.82	564.82	64.17
100816-01-197	0.0605	9.5000	0.7650	12.5748	0.0917	8.2649	0.6552	565.29	44.73	576.91	55.40	620.20	204.96	565.29	44.73
100816-01-076	0.0641	15.6070	0.8185	15.9047	0.0925	3.1993	0.1927	570.56	17.47	607.18	72.81	745.48	329.87	570.56	17.47
100816-01-331	0.0609	10.3346	0.7782	11.7284	0.0926	6.0754	0.4748	570.90	33.19	584.47	52.16	635.98	222.39	570.90	33.19
100816-01-077	0.0614	8.8329	0.7853	10.7908	0.0927	6.2671	0.5745	571.20	34.26	588.48	48.23	654.83	189.48	571.20	34.26
100816-01-231	0.0683	17.8214	0.8787	20.9787	0.0932	11.0679	0.5276	574.66	60.85	640.31	99.95	876.27	368.97	574.66	60.85
100816-01-310	0.0749	14.2653	0.9709	16.2443	0.0939	7.9768	0.4785	578.78	44.16	688.93	81.43	1065.39	286.85	578.78	44.16
100816-01-394	0.0598	5.0263	0.7750	6.5740	0.0940	4.1540	0.6447	579.02	23.00	582.63	29.15	595.94	108.89	579.02	23.00
100816-01-208	0.0658	12.0364	0.8620	16.1123	0.0948	10.8188	0.6648	584.11	60.42	631.23	75.88	801.01	252.15	584.11	60.42
100816-01-220	0.0598	6.3657	0.7949	8.3583	0.0962	5.4336	0.6480	592.06	30.74	593.93	37.60	597.98	137.86	592.06	30.74
100816-01-365	0.0642	14.2864	0.8557	18.7801	0.0966	12.7448	0.6497	594.23	72.35	627.77	88.15	749.87	301.74	594.23	72.35
100816-01-058	0.0705	26.6073	0.9484	27.4081	0.0975	6.4950	0.2400	599.57	37.19	677.26	136.28	944.00	545.08	599.57	37.19
100816-01-204	0.0597	10.2724	0.8040	14.4677	0.0975	10.2152	0.7042	599.73	58.50	599.06	65.56	593.65	222.62	599.73	58.50
100816-01-239	0.0609	7.7626	0.8229	10.7860	0.0978	7.2455	0.6947	601.39	41.60	609.66	49.48	637.29	167.00	601.39	41.60
100816-01-025	0.0606	8.8968	0.8186	12.5230	0.0979	8.9097	0.7038	602.33	51.24	607.29	57.30	624.20	191.82	602.33	51.24
100816-01-026	0.0607	7.2548	0.8204	9.5377	0.0980	6.3282	0.6493	602.57	36.40	608.28	43.67	628.01	156.32	602.57	36.40
100816-01-180	0.0597	8.7339	0.8163	12.1538	0.0991	8.4768	0.6954	609.36	49.29	605.98	55.52	591.04	189.36	609.36	49.29
100816-01-297	0.0599	5.2076	0.8292	6.0453	0.1002	4.4569	0.5436	615.59	26.17	613.14	27.83	601.51	112.71	615.59	26.17
100816-01-133	0.0593	10.4953	0.8246	12.7546	0.1008	7.3377	0.5683	618.97	43.31	610.61	58.59	578.33	228.04	618.97	43.31
100816-01-340	0.0638	10.8975	0.9080	12.4022	0.1031	7.6542	0.4932	632.44	46.11	655.99	60.00	736.51	230.66	632.44	46.11
100816-01-085	0.0653	9.2816	0.9437	12.7248	0.1048	8.6678	0.6841	642.33	52.99	674.79	62.81	783.88	194.97	642.33	52.99
100816-01-294	0.0619	11.7582	0.9087	15.0224	0.1063	9.6410	0.6227	651.13	59.71	656.36	72.74	671.73	251.52	651.13	59.71
100816-01-391	0.0660	10.2700	0.9677	14.1600	0.1064	9.7255	0.6885	651.65	60.28	687.27	70.82	804.96	215.01	651.65	60.28
100816-01-143	0.0615	13.3626	0.9189	14.1845	0.1083	4.7577	0.3355	662.88	29.97	661.79	69.08	656.49	286.57	662.88	29.97
100816-01-282	0.0663	7.4152	1.0095	8.2127	0.1103	3.5121	0.4299	674.50	22.49	708.61	41.92	815.47	154.99	674.50	22.49
100816-01-168	0.0619	11.4514	0.9581	16.4192	0.1122	11.8612	0.7167	685.40	77.13	682.32	81.75	670.08	245.03	685.40	77.13
100816-01-011	0.0651	14.8540	1.0311	20.1100	0.1148	13.6064	0.6741	700.58	90.33	719.46	104.02	776.87	312.38	700.58	90.33
100816-01-109	0.0664	7.2985	1.1249	9.3730	0.1229	6.1110	0.6279	747.15	43.11	765.34	50.43	817.85	152.49	747.15	43.11
100816-01-249	0.0658	5.0830	1.1689	6.7076	0.1286	4.4270	0.6525	779.67	32.51	786.15	36.72	801.43	106.48	779.67	32.51
100816-01-135	0.0658	5.7104	1.1806	7.6571	0.1301	5.0926	0.6662	788.17	37.78	791.61	42.12	799.94	119.65	788.17	37.78
100816-01-290	0.0691	11.0322	1.3294	13.7749	0.1394	8.5771	0.5993	841.03	67.63	858.60	79.99	901.60	227.52	901.60	227.52
100816-01-216	0.0701	5.1546	1.5450	6.7846	0.1597	4.6427	0.6511	954.98	41.21	948.49	41.84	930.55	105.81	930.55	105.81
100816-01-320	0.0702	14.3645	1.5662	17.5424	0.1617	10.7824	0.5754	966.41	96.77	956.91	109.13	933.27	294.75	933.27	294.75
100816-01-108	0.0702	9.6383	1.3987	10.5751	0.1444	4.6579	0.4124	869.42	37.88	888.39	62.69	934.98	197.72	934.98	197.72
100816-01-152	0.0703	11.9646	1.3450	16.9184	0.1386	12.0081	0.7070	836.63	94.22	865.41	98.84	938.15	245.32	938.15	245.32
100816-01-081	0.0714	6.6539	1.6291	8.2189	0.1654	4.8448	0.5870	986.84	44.33	981.50	51.76	968.75	135.81	968.75	135.81
100816-01-091	0.0715	6.4815	1.7057	8.9243	0.1731	6.2126	0.6875	1029.02	59.09	1010.69	57.19	970.33	132.25	970.33	132.25
100816-01-098	0.0715	7.0375	1.6819	9.3485	0.1705	6.2761	0.6584	1014.81	58.93	1001.71	59.60	972.28	143.56	972.28	143.56
100816-01-274	0.0716	10.3943	1.6323	14.4063	0.1650	9.9685	0.6924	984.75	91.04	982.74	90.95	975.39	211.94	975.39	211.94
100816-01-242	0.0718	12.9462	1.5400	17.9058	0.1554	12.3670	0.6908	931.35	107.26	946.51	110.67	978.87	263.77	978.87	263.77
100816-01-118	0.0719	5.7683	1.6482	7.0209	0.1661	4.2926	0.5715	990.46	39.41	988.87	44.40	984.30	117.43	984.30	117.43
100816-01-325	0.0720	11.9314	1.6352	12.1901	0.1646	4.5938	0.2441	982.46	41.86	983.85	76.95	985.25	242.86	985.25	242.86
100816-01-248	0.0722	11.4402	1.6192	15.4323	0.1624	10.3789	0.6712	970.08	93.48	977.66	97.17	991.70	232.64	991.70	232.64
100816-01-024	0.0724	4.7045	1.6398	6.0789	0.1642	3.9426	0.6335	980.14	35.85	985.64	38.36	996.36	95.60	996.36	95.60
100816-01-185	0.0725	4.9025	1.6746	5.5649	0.1673	2.7114	0.4734	997.25	25.05	998.95	35.39	1000.34	99.57	1000.34	99.57
100816-01-202	0.0725	4.9336	1.7933	6.8486	0.1791	4.8087	0.6936	1062.06	47.09	1043.02	44.67	1000.69	100.19	1000.69	100.19
100816-01-095	0.0725	9.7342	1.4570	12.5325	0.1456	7.9894	0.6299	876.37	65.47	912.75	75.60	1000.96	197.68	1000.96	197.68
100816-01-380	0.0726	11.5283	1.6511	16.3708	0.1649	11.6040	0.7100	983.81	105.89	989.98	103.89	1003.13	234.04	1003.13	234.04
100816-01-018	0.0727	5.6632	1.6498	6.9907	0.1644	4.1859	0.5864	981.31	38.10	989.47	44.22	1005.90	114.92	1005.90	114.92
100816-01-067	0.0729	5.6734	1.6575	7.1871	0.1649	4.5796	0.6143	983.86	41.79	992.40	45.55	1010.50	115.05	1010.50	115.05

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
100816-01, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.887460, LONGITUDE: -69.959610 ACCEPTED															
100816-01-090	0.0733	8.5398	1.7455	10.7225	0.1727	6.5579	0.6048	1027.06	62.26	1025.49	69.33	1021.33	172.90	1021.33	172.90
100816-01-186	0.0734	6.1702	1.7249	8.4434	0.1701	5.7999	0.6826	1012.91	54.37	1017.85	54.32	1026.14	124.84	1026.14	124.84
100816-01-191	0.0735	5.6612	1.5358	8.0895	0.1514	5.8343	0.7144	909.00	49.46	944.81	49.79	1026.75	114.53	1026.75	114.53
100816-01-138	0.0736	7.3163	1.7031	9.9762	0.1678	6.7756	0.6798	999.93	62.76	1009.71	63.91	1029.63	147.91	1029.63	147.91
100816-01-346	0.0736	7.8218	1.7626	11.2948	0.1735	7.6827	0.7227	1031.50	73.23	1031.81	73.30	1031.39	158.09	1031.39	158.09
100816-01-099	0.0737	12.6365	1.7395	17.7931	0.1711	12.5871	0.7040	1018.38	118.59	1023.28	115.21	1032.90	255.35	1032.90	255.35
100816-01-030	0.0740	6.9798	1.7950	9.3799	0.1757	6.4011	0.6682	1043.47	61.67	1043.64	61.24	1042.60	140.84	1042.60	140.84
100816-01-351	0.0741	13.7727	1.9845	19.0876	0.1941	13.8856	0.6932	1143.42	145.51	1110.26	129.57	1044.94	277.80	1044.94	277.80
100816-01-128	0.0743	5.8614	1.7070	7.0268	0.1665	4.1377	0.5527	992.96	38.08	1011.16	45.02	1049.60	118.14	1049.60	118.14
100816-01-053	0.0747	5.6828	1.7714	7.1844	0.1720	4.1402	0.6129	1022.92	39.16	1035.05	46.66	1059.78	114.37	1059.78	114.37
100816-01-159	0.0748	6.1464	1.7521	7.4707	0.1698	4.5185	0.5695	1010.83	42.27	1027.93	48.33	1062.74	123.64	1062.74	123.64
100816-01-303	0.0749	11.2665	1.9219	15.1500	0.1858	10.1327	0.6686	1098.82	102.38	1088.71	101.52	1066.30	226.52	1066.30	226.52
100816-01-341	0.0750	7.7354	1.7762	8.7001	0.1716	6.2757	0.5059	1021.19	59.27	1036.79	56.58	1068.63	155.47	1068.63	155.47
100816-01-147	0.0750	8.5954	1.8372	12.6256	0.1774	9.2150	0.7325	1052.92	89.52	1058.85	83.20	1069.58	172.73	1069.58	172.73
100816-01-089	0.0752	7.9209	1.9184	10.6686	0.1849	7.1019	0.6699	1093.72	71.45	1087.50	71.33	1074.27	159.06	1074.27	159.06
100816-01-158	0.0753	8.1572	1.6819	10.4006	0.1618	6.6344	0.6206	966.63	59.56	1001.70	66.32	1077.52	163.73	1077.52	163.73
100816-01-321	0.0757	13.5703	1.8024	15.2769	0.1726	8.0058	0.4633	1026.67	75.99	1046.32	100.09	1085.83	272.04	1085.83	272.04
100816-01-112	0.0757	6.6082	1.7423	7.6447	0.1668	3.9968	0.5032	994.65	36.84	1024.33	49.36	1087.32	132.44	1087.32	132.44
100816-01-148	0.0758	14.9982	1.7809	21.4104	0.1703	15.2596	0.7136	1013.94	143.19	1038.51	140.11	1089.06	300.52	1089.06	300.52
100816-01-195	0.0758	8.3058	1.8531	11.0254	0.1771	7.2804	0.6576	1051.06	70.61	1064.54	72.84	1089.78	166.41	1089.78	166.41
100816-01-263	0.0760	13.3193	1.8590	17.8739	0.1772	11.9748	0.6669	1051.77	116.22	1066.62	118.54	1094.19	266.68	1094.19	266.68
100816-01-342	0.0761	10.5661	1.7855	13.1859	0.1702	9.2604	0.6059	1013.07	86.82	1040.17	86.03	1096.43	211.48	1096.43	211.48
100816-01-196	0.0762	11.8476	1.6290	15.5913	0.1548	10.1565	0.6501	927.97	87.79	981.48	98.40	1100.67	236.98	1100.67	236.98
100816-01-273	0.0768	6.4443	1.7279	7.6411	0.1630	4.0903	0.5373	973.30	36.95	1018.99	49.18	1115.68	128.61	1115.68	128.61
100816-01-093	0.0768	6.1069	1.8790	7.0659	0.1773	3.6872	0.5034	1052.05	35.79	1073.72	46.86	1117.18	121.85	1117.18	121.85
100816-01-215	0.0769	4.9646	1.8263	6.3015	0.1721	4.1420	0.6172	1023.60	39.20	1054.95	41.37	1117.61	99.05	1117.61	99.05
100816-01-043	0.0769	12.4142	1.6549	16.7262	0.1559	11.2827	0.6702	933.96	98.11	991.44	106.25	1119.77	247.61	1119.77	247.61
100816-01-017	0.0770	10.7140	1.9715	14.6167	0.1854	9.9791	0.6802	1096.54	100.63	1105.81	98.78	1122.40	213.62	1122.40	213.62
100816-01-088	0.0771	6.9247	1.8247	8.5929	0.1717	5.0243	0.5921	1021.38	47.46	1054.37	56.42	1122.54	138.06	1122.54	138.06
100816-01-383	0.0771	4.1787	1.9365	5.9505	0.1822	4.1831	0.7120	1079.05	41.56	1093.78	39.87	1122.67	83.31	1122.67	83.31
100816-01-329	0.0771	10.3861	1.9411	10.0430	0.1823	2.8021	0.0149	1079.77	27.86	1095.38	67.40	1124.96	207.00	1124.96	207.00
100816-01-173	0.0773	13.9994	1.8511	19.8374	0.1734	14.0848	0.7085	1030.87	134.20	1063.81	131.51	1129.99	278.81	1129.99	278.81
100816-01-060	0.0774	10.8444	1.9578	13.9518	0.1833	8.8631	0.6292	1084.97	88.51	1101.12	94.04	1132.28	215.90	1132.28	215.90
100816-01-187	0.0775	8.9286	2.2029	11.9074	0.2058	7.9048	0.6616	1206.44	86.98	1181.96	83.34	1135.09	177.69	1135.09	177.69
100816-01-004	0.0782	5.5535	2.1272	8.2209	0.1970	6.2011	0.7375	1159.40	65.80	1157.67	56.84	1152.46	110.24	1152.46	110.24
100816-01-115	0.0783	5.7055	2.0721	7.3115	0.1918	4.8282	0.6263	1130.89	50.08	1139.63	50.11	1155.32	113.21	1155.32	113.21
100816-01-257	0.0784	9.9092	2.0688	13.4995	0.1911	9.2662	0.6791	1127.19	95.83	1138.54	92.66	1157.29	196.56	1157.29	196.56
100816-01-302	0.0786	9.8622	1.7429	12.5029	0.1607	7.6905	0.6147	960.70	68.64	1024.54	80.84	1161.27	195.51	1161.27	195.51
100816-01-121	0.0786	8.5123	2.0444	11.2147	0.1885	7.4009	0.6511	1113.14	75.67	1130.42	76.61	1162.67	168.71	1162.67	168.71
100816-01-316	0.0791	10.7649	2.4073	11.2473	0.2206	5.0478	0.3179	1285.18	58.82	1244.77	80.86	1173.61	213.02	1173.61	213.02
100816-01-378	0.0792	6.2603	2.0698	8.7191	0.1895	6.0317	0.6961	1118.87	61.96	1138.88	59.76	1176.68	123.83	1176.68	123.83
100816-01-107	0.0793	9.6060	2.1374	12.6196	0.1955	8.3510	0.6487	1151.01	88.03	1160.98	87.51	1178.71	189.94	1178.71	189.94
100816-01-084	0.0793	11.7618	1.9225	16.3128	0.1757	11.3122	0.6929	1043.31	108.98	1088.94	109.38	1180.59	232.51	1180.59	232.51
100816-01-149	0.0794	7.7466	1.9123	9.6916	0.1745	5.7714	0.6009	1036.59	55.26	1085.38	64.70	1183.12	153.08	1183.12	153.08
100816-01-171	0.0795	7.5642	1.7926	10.6886	0.1635	7.6071	0.7065	975.99	68.90	1042.77	69.78	1183.52	149.47	1183.52	149.47
100816-01-304	0.0797	10.8646	2.1776	12.1774	0.1981	6.1096	0.4541	1164.90	65.11	1173.91	84.93	1188.38	214.53	1188.38	214.53
100816-01-176	0.0802	13.4524	2.1354	19.4676	0.1930	14.1059	0.7228	1137.56	147.13	1160.35	135.42	1201.09	265.14	1201.09	265.14
100816-01-212	0.0802	3.9298	2.1574	5.3226	0.1949	3.8518	0.6761	1147.80	40.50	1167.45	36.94	1201.34	77.45	1201.34	77.45
100816-01-125	0.0802	5.3470	2.1205	7.5297	0.1917	5.4960	0.7045	1130.41	56.99	1155.51	52.00	1201.79	105.37	1201.79	105.37
100816-01-007	0.0802	5.1895	2.2081	6.7604	0.1994	4.5260	0.6415	1172.28	48.51	1183.60	47.28	1202.42	102.26	1202.42	102.26

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
100816-01, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.887460, LONGITUDE: -69.959610 ACCEPTED															
100816-01-031	0.0804	8.7646	2.3236	12.2566	0.2095	8.6670	0.6991	1225.93	96.77	1219.52	87.22	1206.86	172.60	1206.86	172.60
100816-01-120	0.0804	5.4880	2.0526	7.3215	0.1850	4.9950	0.6622	1094.07	50.26	1133.17	50.03	1207.81	108.06	1207.81	108.06
100816-01-087	0.0806	5.9377	2.1761	7.2028	0.1957	3.9977	0.5662	1152.19	42.18	1173.43	50.15	1212.03	116.84	1212.03	116.84
100816-01-174	0.0807	11.8426	2.1555	17.9007	0.1936	13.4547	0.7499	1140.90	140.71	1166.82	124.78	1213.23	233.00	1213.23	233.00
100816-01-289	0.0808	4.0303	2.1967	4.9281	0.1970	3.0299	0.5767	1159.29	32.15	1179.99	34.40	1215.62	79.27	1215.62	79.27
100816-01-040	0.0808	6.3769	2.1874	8.3023	0.1962	5.4688	0.6406	1154.90	57.83	1177.04	57.92	1216.79	125.40	1216.79	125.40
100816-01-182	0.0809	11.8575	2.0501	18.2729	0.1837	13.9184	0.7609	1087.00	139.25	1132.34	125.34	1218.12	233.13	1218.12	233.13
100816-01-381	0.0810	2.7821	2.0747	5.3440	0.1856	4.5132	0.8538	1097.67	45.55	1140.50	36.63	1222.39	54.67	1222.39	54.67
100816-01-092	0.0818	4.6299	2.1869	6.1510	0.1939	4.1666	0.6586	1142.56	43.63	1176.89	42.88	1239.76	90.75	1239.76	90.75
100816-01-244	0.0818	9.6137	2.4608	13.6603	0.2177	9.7274	0.7104	1269.87	112.13	1260.60	98.94	1241.89	188.37	1241.89	188.37
100816-01-155	0.0821	5.4433	2.2310	7.2565	0.1970	5.0409	0.6621	1159.22	53.48	1190.85	50.92	1247.09	106.57	1247.09	106.57
100816-01-068	0.0821	12.2278	2.0969	16.6886	0.1852	11.4235	0.6806	1095.45	115.10	1147.80	115.23	1247.29	239.40	1247.29	239.40
100816-01-097	0.0821	13.8275	1.9930	18.2886	0.1760	12.0331	0.6545	1045.04	116.10	1113.13	124.27	1247.82	270.70	1247.82	270.70
100816-01-400	0.0822	7.5507	2.3882	11.3049	0.2106	8.3719	0.7442	1231.99	93.89	1239.06	81.08	1250.46	147.77	1250.46	147.77
100816-01-046	0.0824	7.3583	2.3979	9.0201	0.2109	4.5217	0.5843	1233.65	50.77	1241.97	64.72	1255.35	143.90	1255.35	143.90
100816-01-034	0.0825	14.2604	2.1058	22.0494	0.1849	16.9803	0.7627	1093.66	170.85	1150.69	152.95	1258.52	278.75	1258.52	278.75
100816-01-319	0.0830	12.9862	2.1743	16.8342	0.1898	11.3846	0.6375	1120.08	117.07	1172.85	117.61	1269.80	253.44	1269.80	253.44
100816-01-291	0.0834	13.2578	2.4544	19.0010	0.2131	13.8129	0.7164	1245.45	156.47	1258.71	137.92	1279.00	258.40	1279.00	258.40
100816-01-206	0.0839	8.2579	2.5422	13.0650	0.2194	10.2380	0.7750	1278.73	118.76	1284.20	95.49	1290.78	160.68	1290.78	160.68
100816-01-059	0.0842	7.6890	2.0924	9.6809	0.1802	6.0087	0.6077	1067.95	59.14	1146.31	66.61	1296.84	149.48	1296.84	149.48
100816-01-002	0.0845	7.6043	2.6868	10.6338	0.2303	7.5474	0.6991	1335.88	91.07	1324.82	78.84	1304.99	147.67	1304.99	147.67
100816-01-264	0.0850	10.0688	2.5802	15.0035	0.2198	11.1825	0.7414	1280.86	129.92	1295.02	110.22	1315.75	195.23	1315.75	195.23
100816-01-203	0.0851	7.7134	2.3318	10.8087	0.1985	7.6087	0.7005	1167.44	81.25	1222.04	76.96	1317.20	149.53	1317.20	149.53
100816-01-238	0.0851	14.8311	2.7502	21.3287	0.2341	15.2108	0.7187	1355.87	186.04	1342.14	160.13	1317.43	287.50	1317.43	287.50
100816-01-139	0.0858	9.0460	2.5813	15.0495	0.2179	12.0237	0.7992	1271.00	138.72	1295.34	110.58	1334.60	174.93	1334.60	174.93
100816-01-041	0.0860	6.3345	2.4228	7.1586	0.2043	3.5727	0.4669	1198.18	39.06	1249.39	51.50	1337.62	122.45	1337.62	122.45
100816-01-301	0.0861	10.1348	2.7010	12.0963	0.2273	6.6098	0.5459	1320.46	78.92	1328.73	89.87	1339.89	195.85	1339.89	195.85
100816-01-271	0.0861	5.3202	2.6720	8.5406	0.2248	6.6715	0.7823	1307.13	78.94	1320.74	63.18	1340.15	102.80	1340.15	102.80
100816-01-315	0.0861	14.7181	2.5194	19.0357	0.2120	12.6728	0.6349	1239.61	142.94	1277.63	139.23	1340.30	284.40	1340.30	284.40
100816-01-184	0.0861	5.2941	2.4407	7.9547	0.2053	5.9723	0.7464	1203.63	65.57	1254.68	57.36	1341.13	102.29	1341.13	102.29
100816-01-324	0.0879	10.7620	2.4177	11.2453	0.1993	5.0496	0.3182	1171.77	54.10	1247.86	80.94	1380.07	206.81	1380.07	206.81
100816-01-192	0.0886	4.4190	2.8917	5.5303	0.2365	3.4209	0.6015	1368.31	42.18	1379.74	41.75	1395.13	84.74	1395.13	84.74
100816-01-146	0.0895	10.8277	2.8303	16.5774	0.2293	12.5284	0.7572	1330.89	150.68	1363.61	125.01	1413.83	207.12	1413.83	207.12
100816-01-154	0.0901	10.5197	2.8182	15.0163	0.2268	10.8262	0.7136	1317.55	129.03	1360.40	113.00	1426.79	200.87	1426.79	200.87
100816-01-211	0.0902	6.6894	2.6479	9.2314	0.2126	6.5130	0.6893	1242.91	73.63	1314.07	68.14	1429.50	127.69	1429.50	127.69
100816-01-335	0.0907	12.2488	2.6536	14.6148	0.2120	9.3321	0.5523	1239.67	105.25	1315.64	108.19	1440.38	233.46	1440.38	233.46
100816-01-150	0.0912	5.3298	2.6830	8.3425	0.2132	6.5043	0.7694	1246.05	73.70	1323.79	61.79	1450.46	101.45	1450.46	101.45
100816-01-392	0.0919	10.2591	2.6584	12.7303	0.2097	7.5074	0.5921	1227.01	83.89	1316.98	94.20	1465.92	194.86	1465.92	194.86
100816-01-013	0.0926	5.9079	2.8190	8.0271	0.2207	5.5187	0.6771	1285.49	64.32	1360.60	60.23	1478.97	112.02	1478.97	112.02
100816-01-217	0.0928	8.2448	2.9379	14.8557	0.2294	12.4422	0.8319	1331.25	149.68	1391.74	113.00	1483.04	156.24	1483.04	156.24
100816-01-337	0.0932	8.2887	3.2035	8.9737	0.2492	5.9459	0.4421	1434.21	76.46	1458.02	69.55	1491.65	156.90	1491.65	156.90
100816-01-145	0.0937	14.9136	2.9561	20.1036	0.2288	13.4585	0.6706	1327.97	161.55	1396.42	153.69	1501.17	281.94	1501.17	281.94
100816-01-307	0.0939	11.8303	2.9616	14.6995	0.2286	9.1212	0.5941	1326.92	109.40	1397.82	112.03	1505.67	223.52	1505.67	223.52
100816-01-312	0.0939	11.9427	3.1778	20.5801	0.2452	16.8571	0.8144	1413.68	214.07	1451.79	160.27	1506.12	225.63	1506.12	225.63
100816-01-300	0.0941	8.7207	3.1336	10.5099	0.2413	5.8728	0.5581	1393.46	73.60	1440.99	81.07	1509.63	164.68	1509.63	164.68
100816-01-258	0.0944	5.3487	3.3432	6.1086	0.2566	3.2442	0.4852	1472.19	42.70	1491.21	47.78	1515.55	100.93	1515.55	100.93
100816-01-183	0.0944	11.8405	2.8162	18.5151	0.2161	14.2490	0.7688	1261.23	163.26	1359.87	139.61	1516.34	223.40	1516.34	223.40
100816-01-333	0.0948	9.2290	2.8829	11.8982	0.2203	7.9089	0.6320	1283.71	92.06	1377.46	89.93	1524.58	173.94	1524.58	173.94
100816-01-079	0.0949	6.9287	3.4284	9.6589	0.2619	6.7928	0.6968	1499.68	90.90	1510.93	76.07	1525.98	130.56	1525.98	130.56
100816-01-141	0.0951	6.0392	3.1584	7.4070	0.2406	4.2878	0.5790	1389.70	53.60	1447.05	57.18	1531.01	113.72	1531.01	113.72

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
100816-01, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.887460, LONGITUDE: -69.959610 ACCEPTED															
100816-01-028	0.0955	7.4851	3.0505	9.8198	0.2314	6.4894	0.6474	1342.08	78.63	1420.37	75.23	1538.41	140.82	1538.41	140.82
100816-01-179	0.0959	10.6016	3.3579	13.4599	0.2536	8.3506	0.6161	1457.03	108.91	1494.62	105.69	1546.35	199.24	1546.35	199.24
100816-01-338	0.0960	13.5439	2.9786	18.6502	0.2249	13.7084	0.6890	1307.77	162.29	1402.18	142.71	1547.58	254.49	1547.58	254.49
100816-01-140	0.0962	3.4345	3.0098	5.1892	0.2269	3.8890	0.7496	1317.97	46.36	1410.10	39.57	1550.89	64.51	1550.89	64.51
100816-01-356	0.0962	8.7039	3.4421	9.8453	0.2594	7.3948	0.5210	1486.66	98.19	1514.07	77.61	1551.85	163.46	1551.85	163.46
100816-01-190	0.0964	3.8185	3.4633	4.9167	0.2602	3.2001	0.6303	1490.77	42.59	1518.89	38.76	1556.05	71.67	1556.05	71.67
100816-01-234	0.0967	4.3575	3.1968	7.2501	0.2395	5.7942	0.7992	1383.91	72.17	1456.39	56.13	1561.00	81.74	1561.00	81.74
100816-01-006	0.0967	8.0413	3.2646	10.0827	0.2446	6.2218	0.6034	1410.50	78.83	1472.66	78.53	1561.61	150.82	1561.61	150.82
100816-01-049	0.0970	7.4065	3.0757	11.0926	0.2298	8.1247	0.7445	1333.40	97.87	1426.66	85.20	1567.69	138.81	1567.69	138.81
100816-01-080	0.0971	8.3903	3.0441	13.3908	0.2273	10.4457	0.7794	1320.09	124.71	1418.76	102.70	1569.40	157.21	1569.40	157.21
100816-01-237	0.0977	13.8342	3.5424	19.0564	0.2626	12.9684	0.6878	1503.06	173.91	1536.73	152.02	1580.60	258.84	1580.60	258.84
100816-01-038	0.0980	9.1707	3.1769	11.5252	0.2351	7.0974	0.6058	1360.97	87.08	1451.56	89.24	1585.69	171.47	1585.69	171.47
100816-01-369	0.0984	4.7651	3.4642	5.3996	0.2552	4.5041	0.5497	1465.06	59.03	1519.10	42.57	1594.67	88.99	1594.67	88.99
100816-01-153	0.0985	8.3850	3.3630	12.5238	0.2475	9.3623	0.7428	1425.55	119.75	1495.83	98.32	1595.36	156.58	1595.36	156.58
100816-01-350	0.0986	9.1948	3.6083	13.0713	0.2653	10.2212	0.7140	1516.78	138.17	1551.36	104.29	1597.88	171.65	1597.88	171.65
100816-01-166	0.0988	3.9744	3.0015	4.9717	0.2202	3.3396	0.6045	1283.13	38.86	1408.01	37.88	1600.65	74.17	1600.65	74.17
100816-01-361	0.0994	12.9286	3.6445	16.9277	0.2658	11.5427	0.6465	1519.50	156.28	1559.30	135.67	1612.99	240.89	1612.99	240.89
100816-01-200	0.0995	7.5274	3.1722	10.3773	0.2309	7.1824	0.6884	1339.19	86.86	1450.41	80.28	1615.02	140.22	1615.02	140.22
100816-01-094	0.0996	7.0029	3.4930	10.2014	0.2543	7.5199	0.7272	1460.63	98.29	1525.62	80.70	1616.19	130.42	1616.19	130.42
100816-01-010	0.0996	9.8219	3.2961	14.0950	0.2398	10.1773	0.7172	1385.57	126.90	1480.12	110.24	1616.67	182.92	1616.67	182.92
100816-01-214	0.0998	2.4747	3.4043	3.1540	0.2470	2.4327	0.6348	1423.02	31.06	1505.40	24.76	1620.73	46.06	1620.73	46.06
100816-01-224	0.1015	7.2696	3.3480	9.6966	0.2389	6.4165	0.6618	1381.14	79.77	1492.32	75.95	1651.36	134.75	1651.36	134.75
100816-01-132	0.1016	5.4978	3.7550	8.5814	0.2678	6.6879	0.7679	1529.56	91.07	1583.17	68.92	1654.19	101.87	1654.19	101.87
100816-01-071	0.1017	5.3372	4.0565	6.6042	0.2891	3.9982	0.5892	1636.92	57.80	1645.60	53.85	1655.95	98.87	1655.95	98.87
100816-01-130	0.1026	5.8697	3.5748	7.7114	0.2526	5.1310	0.6488	1451.95	66.71	1543.95	61.26	1671.15	108.53	1671.15	108.53
100816-01-103	0.1026	10.8248	3.6469	13.6253	0.2577	8.3494	0.6073	1477.96	110.29	1559.84	108.99	1671.72	200.13	1671.72	200.13
100816-01-137	0.1026	3.3059	4.1491	4.8443	0.2931	3.5286	0.7310	1656.87	51.56	1664.04	39.66	1671.87	61.12	1671.87	61.12
100816-01-277	0.1028	10.4095	3.3785	11.6551	0.2380	5.2304	0.4498	1376.08	64.81	1499.42	91.56	1675.81	192.36	1675.81	192.36
100816-01-110	0.1029	7.4979	4.4617	9.2758	0.3143	5.5699	0.5889	1761.90	85.87	1723.88	77.09	1677.14	138.53	1677.14	138.53
100816-01-314	0.1031	10.9380	3.9592	11.5940	0.2784	5.4446	0.3519	1583.05	76.43	1625.89	94.26	1679.96	202.02	1679.96	202.02
100816-01-386	0.1036	12.0011	3.3687	17.4379	0.2358	12.6336	0.7255	1364.94	155.44	1497.16	137.36	1689.15	221.40	1689.15	221.40
100816-01-246	0.1042	14.1797	3.6675	20.6563	0.2549	15.0354	0.7272	1463.75	196.94	1564.32	166.27	1700.07	261.23	1700.07	261.23
100816-01-036	0.1044	7.4123	3.7761	10.4656	0.2622	7.7524	0.7068	1500.84	103.81	1587.67	84.21	1703.82	136.49	1703.82	136.49
100816-01-019	0.1062	3.3741	3.8086	4.9442	0.2599	3.7127	0.7312	1489.44	49.38	1594.56	39.78	1734.93	61.89	1734.93	61.89
100816-01-254	0.1068	5.5020	4.0085	6.9814	0.2717	4.5041	0.6162	1549.51	62.04	1635.93	56.79	1746.15	100.79	1746.15	100.79
100816-01-129	0.1069	5.1713	3.8145	6.6837	0.2585	4.4754	0.6345	1482.39	59.27	1595.81	53.82	1747.92	94.71	1747.92	94.71
100816-01-352	0.1079	6.4232	4.4489	7.9322	0.2990	6.3104	0.6142	1686.40	93.64	1721.50	65.85	1763.63	117.41	1763.63	117.41
100816-01-371	0.1083	5.2280	4.4769	6.9053	0.2997	4.9785	0.6565	1689.97	74.01	1726.70	57.37	1770.99	95.48	1770.99	95.48
100816-01-305	0.1094	10.8273	4.7393	11.7595	0.3139	5.3042	0.3943	1759.69	81.69	1774.22	98.91	1789.36	197.29	1789.36	197.29
100816-01-328	0.1095	12.1367	4.3136	13.5143	0.2854	7.0852	0.4467	1618.32	101.41	1695.96	111.85	1791.86	221.08	1791.86	221.08
100816-01-124	0.1099	5.4426	4.9069	7.6215	0.3236	5.5285	0.7005	1807.27	87.14	1803.45	64.37	1798.00	99.07	1798.00	99.07
100816-01-225	0.1113	8.6474	4.9838	12.3703	0.3244	8.8455	0.7151	1811.17	139.69	1816.58	104.99	1820.16	156.96	1820.16	156.96
100816-01-005	0.1125	6.4709	4.7906	9.4597	0.3085	7.0233	0.7296	1733.35	106.75	1783.25	79.63	1840.37	117.18	1840.37	117.18
100816-01-063	0.1155	10.7820	4.9208	15.7088	0.3088	11.4899	0.7273	1734.68	174.79	1805.83	133.33	1888.21	194.06	1888.21	194.06
100816-01-227	0.1178	9.9691	5.7572	13.9667	0.3540	9.7818	0.7004	1953.87	164.91	1940.00	121.40	1922.61	178.72	1922.61	178.72
100816-01-251	0.1225	7.0749	6.1148	10.0930	0.3616	7.1994	0.7132	1989.93	123.28	1992.36	88.30	1992.24	125.82	1992.24	125.82
100816-01-384	0.1284	4.4626	6.5211	6.3363	0.3682	4.4480	0.7100	2021.10	77.17	2048.75	55.84	2076.20	78.58	2076.20	78.58
100816-01-398	0.1287	5.2916	6.7174	7.5233	0.3785	5.2821	0.7109	2069.06	93.49	2074.91	66.59	2079.96	93.14	2079.96	93.14
100816-01-385	0.1321	5.5134	6.8421	7.8769	0.3756	5.5855	0.7142	2055.53	98.31	2091.19	69.89	2125.99	96.54	2125.99	96.54
100816-01-219	0.1327	11.8418	6.8038	16.9984	0.3714	12.2806	0.7174	2035.91	214.47	2086.22	151.60	2133.75	207.16	2133.75	207.16

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
100816-01, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.887460, LONGITUDE: -69.959610 ACCEPTED															
100816-01-281	0.1380	3.2347	7.0511	5.0831	0.3702	3.9047	0.7714	2030.30	68.01	2117.90	45.23	2201.72	56.15	2201.72	56.15
100816-01-278	0.1754	6.0885	12.5458	8.8720	0.5180	6.4432	0.7274	2690.55	141.75	2646.17	83.62	2610.10	101.37	2610.10	101.37
100816-01-082	0.1807	10.5900	13.2181	15.1075	0.5302	10.7835	0.7132	2742.47	240.99	2695.35	143.56	2659.54	175.49	2659.54	175.49
100816-01-229	0.1825	13.4473	11.1289	20.3859	0.4417	15.3217	0.7516	2358.15	302.82	2533.98	192.19	2675.51	222.50	2675.51	222.50
100816-01, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.887460, LONGITUDE: -69.959610 REJECTED															
100816-01-213	0.0935	122.5823	0.0909	124.7692	0.0070	23.3000	0.1864	45.23	10.50	88.32	105.92	1497.63	2318.53	45.23	10.50
100816-01-375	0.0675	103.0613	0.0768	104.3721	0.0083	16.4755	0.1580	52.97	8.69	75.12	75.71	852.39	2141.69	52.97	8.69
100816-01-269	0.1685	39.4944	0.1927	41.9116	0.0083	13.9898	0.3347	53.15	7.41	178.91	68.85	2543.19	661.92	53.15	7.41
100816-01-045	0.1495	26.8355	0.1850	28.4959	0.0090	9.2250	0.3366	57.58	5.29	172.39	45.21	2340.03	459.28	57.58	5.29
100816-01-395	0.1003	66.7289	0.1454	68.4324	0.0105	15.1508	0.2217	67.41	10.16	137.84	88.43	1629.33	1240.70	67.41	10.16
100816-01-393	0.2401	26.6113	0.3750	30.9017	0.0113	15.6942	0.5083	72.58	11.33	323.35	85.78	3120.64	423.42	72.58	11.33
100816-01-008	0.1943	18.7913	0.3040	21.4883	0.0113	10.5046	0.4851	72.69	7.59	269.54	50.91	2778.52	307.99	72.69	7.59
100816-01-100	0.1107	30.1036	0.1734	31.6953	0.0114	9.9802	0.3129	72.80	7.22	162.40	47.60	1811.26	546.96	72.80	7.22
100816-01-050	0.0977	25.1122	0.1558	26.2665	0.0116	7.5584	0.2932	74.13	5.57	147.02	35.97	1579.88	469.89	74.13	5.57
100816-01-226	0.0498	17.1932	0.0842	23.9526	0.0122	16.6768	0.6962	78.40	13.00	82.06	18.88	186.34	400.25	78.40	13.00
100816-01-023	0.0501	31.5115	0.0882	42.7635	0.0128	28.9217	0.6760	81.76	23.50	85.87	35.23	200.01	731.77	81.76	23.50
100816-01-382	0.1957	23.6116	0.3529	25.7765	0.0131	10.3185	0.4012	83.76	8.59	306.90	68.38	2790.26	386.59	83.76	8.59
100816-01-105	0.1475	19.6887	0.2810	20.8927	0.0138	7.1848	0.3347	88.45	6.31	251.46	46.57	2316.60	337.77	88.45	6.31
100816-01-373	0.0765	17.2818	0.1554	18.6170	0.0147	7.1371	0.3720	94.29	6.68	146.63	25.42	1106.91	345.36	94.29	6.68
100816-01-106	0.2630	23.5093	0.5529	25.6990	0.0152	10.5125	0.4040	97.50	10.17	446.87	93.16	3264.73	369.95	97.50	10.17
100816-01-123	0.2245	18.7640	0.4860	21.0404	0.0157	9.5955	0.4524	100.39	9.56	402.19	69.98	3012.92	301.27	100.39	9.56
100816-01-228	0.0912	25.3859	0.2023	26.4023	0.0161	7.2551	0.2748	102.71	7.39	187.03	45.13	1450.81	483.17	102.71	7.39
100816-01-241	0.2233	6.8662	0.5476	8.2637	0.0178	4.5906	0.5564	113.47	5.16	443.42	29.70	3004.83	110.31	113.47	5.16
100816-01-317	0.0732	34.9013	0.1859	40.6312	0.0184	21.1580	0.5121	117.52	24.64	173.16	64.77	1020.38	706.73	117.52	24.64
100816-01-015	0.1696	69.2343	0.4656	73.2735	0.0199	24.0073	0.3274	126.97	30.18	388.14	240.77	2553.88	1159.12	126.97	30.18
100816-01-163	0.2927	13.8956	0.8158	17.1694	0.0202	10.1549	0.5874	128.88	12.96	605.68	78.48	3432.10	215.88	128.88	12.96
100816-01-181	0.1050	48.6054	0.2945	51.1829	0.0203	16.0507	0.3133	129.70	20.61	262.09	118.77	1714.01	893.90	129.70	20.61
100816-01-194	0.0911	11.3289	0.3058	13.2806	0.0243	6.9616	0.5219	154.93	10.66	270.90	31.59	1447.81	215.71	154.93	10.66
100816-01-276	0.2934	57.3744	1.0311	63.8623	0.0255	28.0437	0.4392	162.02	44.87	719.46	341.50	3435.72	891.14	162.02	44.87
100816-01-096	0.1380	15.6907	0.4978	17.3571	0.0262	7.5228	0.4276	166.42	12.36	410.21	58.64	2202.21	272.38	166.42	12.36
100816-01-270	0.2586	15.8858	1.0195	17.0711	0.0285	6.2399	0.3661	181.46	11.17	713.69	87.73	3238.42	250.44	181.46	11.17
100816-01-323	0.0957	23.3416	0.3847	24.0754	0.0291	7.0469	0.2489	185.15	12.86	330.51	68.02	1541.51	438.94	185.15	12.86
100816-01-360	0.2879	19.0378	1.3715	23.9236	0.0345	14.9578	0.6059	218.89	32.19	876.80	141.39	3406.26	296.24	218.89	32.19
100816-01-347	0.2886	14.8286	1.3812	17.5506	0.0347	8.9871	0.5354	219.85	19.43	880.96	103.73	3410.09	230.68	219.85	19.43
100816-01-072	0.0643	15.5229	0.3380	21.9239	0.0381	15.5097	0.7062	240.91	36.68	295.64	56.29	753.09	327.69	240.91	36.68
100816-01-117	0.2120	18.5622	1.1456	19.8279	0.0392	7.1412	0.3517	247.69	17.35	775.19	107.90	2920.99	300.48	247.69	17.35
100816-01-055	0.6207	17.7134	3.3544	20.4690	0.0392	10.1507	0.5012	247.74	24.67	1493.81	161.45	4557.14	256.96	247.74	24.67
100816-01-172	0.0643	56.1200	0.4071	66.9740	0.0458	36.5637	0.5458	288.96	103.33	346.76	199.26	752.62	1184.78	288.96	103.33
100816-01-355	0.1162	11.6305	0.8448	11.6515	0.0527	5.8311	0.2538	331.19	18.82	621.77	54.23	1898.08	209.09	331.19	18.82
100816-01-161	0.1233	18.4857	1.0952	20.1285	0.0644	8.0534	0.3957	402.11	31.39	751.03	107.23	2004.49	328.27	402.11	31.39
100816-01-114	0.5587	12.1001	5.3045	14.6158	0.0688	8.2711	0.5609	429.06	34.33	1869.59	125.50	4404.16	176.78	429.06	34.33
100816-01-136	0.0783	16.3111	0.7702	23.2108	0.0713	16.5106	0.7114	444.09	70.86	579.86	102.89	1153.76	323.71	444.09	70.86
100816-01-156	0.0925	11.0597	0.9105	12.3758	0.0714	5.7644	0.4491	444.29	24.75	657.32	59.96	1477.08	209.75	444.29	24.75
100816-01-353	0.0847	21.1947	0.8466	26.6575	0.0724	16.7202	0.6069	450.81	72.80	622.75	124.71	1309.25	411.33	450.81	72.80
100816-01-198	0.0581	18.7274	0.5852	27.7727	0.0730	20.5192	0.7384	454.29	90.01	467.77	104.47	531.66	410.15	454.29	90.01
100816-01-364	0.0703	30.7705	0.7474	39.6712	0.0771	25.3144	0.6312	478.91	116.85	566.69	173.97	936.04	631.12	478.91	116.85
100816-01-266	0.1321	9.2893	1.4289	10.3562	0.0783	4.4607	0.4422	486.01	20.88	901.08	61.94	2126.71	162.64	486.01	20.88
100816-01-175	0.0718	29.8478	0.7782	33.9349	0.0786	16.1755	0.4758	487.56	75.96	584.43	151.91	979.14	608.09	487.56	75.96
100816-01-313	0.1410	11.0255	1.7197	12.0839	0.0883	5.2640	0.4101	545.72	27.54	1015.92	77.74	2240.08	190.67	545.72	27.54

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
100816-01, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.887460, LONGITUDE: -69.959610 REJECTED															
100816-01-101	0.1177	11.9773	1.5261	14.2154	0.0940	7.7371	0.5386	579.32	42.87	940.95	87.42	1921.05	214.76	579.32	42.87
100816-01-268	0.1169	10.1949	1.5269	13.0463	0.0946	8.0750	0.6240	582.79	45.00	941.26	80.21	1908.92	183.05	582.79	45.00
100816-01-345	0.0741	9.6109	1.0003	12.6321	0.0979	7.7351	0.6500	601.83	44.45	703.95	64.23	1044.10	193.88	601.83	44.45
100816-01-223	0.0972	11.5875	1.3347	13.5050	0.0995	6.9498	0.5136	611.30	40.53	860.93	78.55	1570.63	217.08	611.30	40.53
100816-01-261	0.0714	12.7212	0.9855	17.5169	0.1000	12.0971	0.6875	614.50	70.91	696.43	88.51	967.77	259.68	614.50	70.91
100816-01-020	0.0607	18.4467	0.8402	24.4669	0.1004	16.0957	0.6569	616.69	94.67	619.26	113.91	626.93	397.55	616.69	94.67
100816-01-104	0.0762	11.3784	1.0603	13.1557	0.1009	6.8092	0.5022	619.50	40.22	733.99	68.85	1100.51	227.60	619.50	40.22
100816-01-027	0.0744	9.4556	1.0402	10.5409	0.1013	4.8388	0.4423	622.30	28.70	724.02	54.62	1051.95	190.52	622.30	28.70
100816-01-348	0.1442	19.1920	2.0330	22.7031	0.1022	11.8208	0.5344	627.28	70.66	1126.62	155.73	2278.27	330.47	627.28	70.66
100816-01-267	0.1091	7.0984	1.5917	9.4522	0.1057	6.1559	0.6604	647.49	37.92	966.98	59.01	1784.47	129.42	647.49	37.92
100816-01-311	0.0582	10.6781	0.8615	12.8240	0.1072	7.3268	0.5540	656.30	45.72	630.92	60.33	538.78	233.58	656.30	45.72
100816-01-113	0.0665	7.2902	0.9861	8.4447	0.1075	4.4008	0.5050	658.03	27.53	696.71	42.60	822.57	152.20	658.03	27.53
100816-01-265	0.0862	5.1425	1.3255	9.0561	0.1113	7.3827	0.8232	680.50	47.68	856.90	52.46	1343.09	99.33	680.50	47.68
100816-01-162	0.0853	19.9003	1.3105	29.5497	0.1113	21.8765	0.7392	680.55	141.31	850.33	171.80	1321.98	385.52	680.55	141.31
100816-01-221	0.1061	9.4555	1.6918	12.8415	0.1155	8.6996	0.6766	704.45	58.06	1005.44	82.13	1733.59	173.47	704.45	58.06
100816-01-230	0.0743	3.1107	1.2016	5.1844	0.1172	4.1469	0.8000	714.16	28.03	801.34	28.74	1049.11	62.71	714.16	28.03
100816-01-205	0.0742	10.7541	1.2086	13.9229	0.1179	8.9728	0.6352	718.56	61.01	804.53	77.51	1047.91	216.82	718.56	61.01
100816-01-051	0.0601	6.1828	1.0015	7.2012	0.1208	3.3836	0.5146	734.96	23.50	704.59	36.60	607.88	133.67	734.96	23.50
100816-01-078	0.1234	4.3383	2.0699	8.1408	0.1217	6.9504	0.8462	740.07	48.60	1138.89	55.79	2005.26	77.03	740.07	48.60
100816-01-358	0.0810	20.6054	1.3991	24.1567	0.1252	13.8734	0.5243	760.53	99.53	888.56	144.00	1221.59	404.92	760.53	99.53
100816-01-368	0.0795	8.6997	1.3755	12.0344	0.1255	9.1094	0.6938	762.21	65.49	878.50	70.87	1183.55	171.90	762.21	65.49
100816-01-012	0.0708	34.5862	1.2315	44.6366	0.1260	28.2433	0.6322	765.11	203.83	815.00	255.37	951.94	707.68	765.11	203.83
100816-01-207	0.0762	25.6946	1.3629	37.4054	0.1296	27.2263	0.7267	785.30	201.36	873.14	222.57	1100.34	513.98	785.30	201.36
100816-01-389	0.0722	22.4335	1.6654	29.7014	0.1673	19.4542	0.6554	996.99	179.75	995.45	190.65	991.42	456.21	991.42	456.21
100816-01-298	0.0743	15.9699	1.6241	17.4303	0.1584	7.6953	0.4026	947.76	67.83	979.59	109.97	1049.21	321.91	1049.21	321.91
100816-01-322	0.0748	17.2515	1.5901	25.3500	0.1540	18.9703	0.7329	923.18	163.20	966.34	159.32	1064.10	346.97	1064.10	346.97
100816-01-296	0.0756	17.8260	1.6384	22.7342	0.1569	14.4747	0.6208	939.51	126.56	985.11	144.31	1085.72	357.36	1085.72	357.36
100816-01-343	0.0761	15.9375	1.8077	19.3382	0.1722	11.9787	0.5686	1024.15	113.44	1048.23	127.08	1097.65	318.93	1097.65	318.93
100816-01-014	0.0766	11.2405	1.5237	12.4506	0.1441	5.4216	0.4301	868.07	44.03	939.96	76.47	1110.71	224.50	1110.71	224.50
100816-01-122	0.0773	25.8885	1.7693	34.0232	0.1658	22.1095	0.6489	989.08	202.80	1034.25	224.29	1129.92	515.59	1129.92	515.59
100816-01-299	0.0779	19.0942	1.6908	27.0997	0.1573	19.4999	0.7097	941.86	170.92	1005.06	174.60	1143.19	379.53	1143.19	379.53
100816-01-247	0.0785	15.8260	2.0689	24.6818	0.1908	18.9519	0.7674	1125.60	195.80	1138.57	170.54	1160.40	313.78	1160.40	313.78
100816-01-250	0.0793	19.1629	1.8586	26.9891	0.1698	19.0056	0.7042	1011.04	177.89	1066.50	180.04	1178.77	378.92	1178.77	378.92
100816-01-134	0.0806	7.2165	1.6777	9.0380	0.1508	5.4331	0.6020	905.46	45.90	1000.10	57.56	1212.52	142.00	1212.52	142.00
100816-01-363	0.0806	15.5365	2.1451	21.8893	0.1929	15.8618	0.7047	1136.93	165.37	1163.47	152.73	1212.59	305.71	1212.59	305.71
100816-01-397	0.0816	19.0270	1.7479	28.1451	0.1554	20.7226	0.7369	930.96	179.68	1026.38	183.76	1234.96	373.18	1234.96	373.18
100816-01-111	0.0817	21.5716	2.1122	29.5803	0.1875	20.2697	0.6842	1107.56	206.34	1152.78	206.65	1237.90	422.91	1237.90	422.91
100816-01-144	0.0817	16.5712	2.4594	23.8272	0.2182	17.1209	0.7186	1272.15	197.72	1260.18	173.67	1238.37	324.86	1238.37	324.86
100816-01-235	0.0822	17.2090	2.4377	23.9150	0.2148	16.4983	0.6944	1254.44	188.12	1253.80	173.87	1249.78	336.81	1249.78	336.81
100816-01-083	0.0825	17.7678	1.8801	18.5334	0.1652	5.2905	0.2845	985.41	48.34	1074.11	123.45	1258.06	347.33	1258.06	347.33
100816-01-327	0.0826	12.7673	1.8974	14.6062	0.1665	8.0746	0.4898	992.97	74.31	1080.18	97.42	1259.04	249.55	1259.04	249.55
100816-01-157	0.0841	18.7333	2.2411	25.7460	0.1930	17.7285	0.6860	1137.61	184.94	1194.00	182.71	1295.92	364.25	1295.92	364.25
100816-01-292	0.0846	12.2508	2.0173	17.4597	0.1727	12.6605	0.7126	1027.02	120.21	1121.36	119.07	1306.58	237.84	1306.58	237.84
100816-01-199	0.0865	9.5990	2.1081	11.9292	0.1765	7.1133	0.5937	1047.62	68.78	1151.44	82.34	1350.09	185.23	1350.09	185.23
100816-01-222	0.0875	15.9341	2.5792	25.4196	0.2136	19.8103	0.7791	1247.73	224.82	1294.77	188.12	1370.86	306.59	1370.86	306.59
100816-01-165	0.0876	8.7260	2.1991	10.5569	0.1819	6.1267	0.5631	1077.45	60.79	1180.75	73.82	1373.50	167.84	1373.50	167.84
100816-01-102	0.0895	11.7661	1.8249	14.8681	0.1478	9.1574	0.6114	888.35	76.00	1054.45	97.83	1415.71	225.01	1415.71	225.01
100816-01-169	0.0907	8.3635	2.4446	10.8362	0.1954	7.0502	0.6360	1150.43	74.29	1255.84	78.24	1439.49	159.42	1439.49	159.42
100816-01-189	0.0911	10.2704	1.8092	12.3551	0.1439	6.8983	0.5559	866.76	55.95	1048.77	80.96	1447.98	195.55	1447.98	195.55
100816-01-359	0.0935	9.9999	1.9158	11.8410	0.1486	8.5863	0.5603	893.09	71.61	1086.59	79.16	1497.41	189.14	1497.41	189.14

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
100816-01, EARLY EOCENE, MUÑANI FORMATION, LATITUDE: -15.887460, LONGITUDE: -69.959610 REJECTED															
100816-01-022	0.0944	5.5872	2.2639	7.3583	0.1738	4.8633	0.6508	1033.06	46.42	1201.11	51.87	1516.01	105.42	1516.01	105.42
100816-01-260	0.0951	15.7684	3.1326	21.4312	0.2385	14.5595	0.6772	1379.14	180.82	1440.72	166.43	1530.06	296.97	1530.06	296.97
100816-01-003	0.0954	17.4297	3.6362	22.3633	0.2761	14.0724	0.6265	1571.50	196.32	1557.50	179.96	1536.67	327.98	1536.67	327.98
100816-01-349	0.0973	15.4959	3.5584	21.7850	0.2651	15.0696	0.7030	1515.91	203.64	1540.30	174.37	1573.03	290.21	1573.03	290.21
100816-01-127	0.0983	23.4406	3.4287	30.2503	0.2527	19.1759	0.6321	1452.37	249.49	1511.00	242.30	1593.07	437.87	1593.07	437.87
100816-01-272	0.0991	23.9814	3.8579	32.9725	0.2820	22.6264	0.6863	1601.37	321.10	1604.91	272.22	1606.92	447.17	1606.92	447.17
100816-01-035	0.1008	8.8792	3.0597	10.5768	0.2199	6.2083	0.5450	1281.58	72.16	1422.66	81.11	1639.43	164.88	1639.43	164.88
100816-01-334	0.1021	9.1754	3.0095	9.4155	0.2136	5.2908	0.3258	1247.74	60.02	1410.04	71.88	1663.33	169.82	1663.33	169.82
100816-01-240	0.1043	25.7261	3.9321	35.4088	0.2729	24.3286	0.6871	1555.72	336.58	1620.31	294.64	1702.50	473.81	1702.50	473.81
100816-01-372	0.1049	16.1798	4.3612	22.0179	0.3015	15.0811	0.6783	1698.79	225.31	1705.02	183.85	1712.18	297.63	1712.18	297.63
100816-01-396	0.1051	4.5693	2.5816	7.4025	0.1781	5.7637	0.7868	1056.65	56.17	1295.43	54.23	1715.71	84.02	1715.71	84.02
100816-01-160	0.1060	17.9933	4.4483	24.8982	0.3041	17.2507	0.6912	1711.40	259.43	1721.39	209.33	1731.93	330.18	1731.93	330.18
100816-01-033	0.1193	7.6180	3.1127	9.7900	0.1891	6.2864	0.6282	1116.67	64.46	1435.83	75.37	1945.56	136.21	1945.56	136.21
100816-01-287	0.1205	21.0269	5.3728	30.1289	0.3230	21.6046	0.7162	1804.21	340.31	1880.53	263.69	1963.58	375.19	1963.58	375.19
100816-01-119	0.1373	14.1783	4.6560	19.2398	0.2458	13.0978	0.6760	1416.83	166.63	1759.37	162.18	2193.48	246.36	2193.48	246.36
100816-01-366	0.1407	9.2431	3.1311	9.6887	0.1614	4.7196	0.3358	964.47	42.28	1440.37	74.70	2235.45	159.92	2235.45	159.92
100816-01-177	0.1478	4.9531	4.6216	5.9892	0.2265	3.5065	0.5627	1316.09	41.74	1753.18	50.04	2321.04	84.94	2321.04	84.94
100816-01-387	0.1517	27.3568	4.3649	32.3475	0.2086	17.2488	0.5336	1221.51	191.99	1705.72	273.67	2365.10	466.96	2365.10	466.96
100816-01-256	0.1541	18.5917	3.8766	22.5623	0.1822	12.8540	0.5666	1079.17	127.74	1608.82	184.11	2391.42	316.46	2391.42	316.46
100816-01-057	0.1597	10.1947	4.9436	16.2471	0.2244	12.6081	0.7786	1305.31	149.01	1809.73	138.06	2452.21	172.44	2452.21	172.44
100816-01-209	0.1609	5.6311	5.3579	10.6457	0.2411	9.1618	0.8487	1392.52	114.75	1878.15	91.34	2465.59	95.12	2465.59	95.12
100816-01-399	0.1697	12.3907	4.7759	14.6772	0.2040	7.8226	0.5360	1196.63	85.44	1780.66	123.84	2555.07	207.42	2555.07	207.42
100816-01-357	0.1795	14.5047	7.2166	18.2324	0.2914	12.4717	0.6104	1648.61	181.47	2138.56	164.01	2648.56	240.62	2648.56	240.62
100816-01-075	0.1859	9.5609	5.4989	11.1716	0.2145	5.8522	0.5173	1252.52	66.62	1900.43	96.27	2706.15	157.75	2706.15	157.75
100816-01-009	0.7034	95.7882	48.3554	113.8251	0.4981	61.5018	0.5402	2605.79	1337.12	3959.03	65535.00	4737.62	1380.19	4737.62	1380.19
100816-01-056	0.7129	10.1974	12.9961	13.6205	0.1321	8.9698	0.6629	800.11	67.50	2679.37	129.11	4757.00	146.83	4757.00	146.83
100816-01-016	0.8713	106.4907	586.2598	147.7584	4.8756	102.4355	0.6932	11415.36	8098.01	6473.54	65535.00	5043.08	1519.96	5043.08	1519.96
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 ACCEPTED															
2SPU249-396	0.0892	74.7086	0.0631	76.3639	0.0051	15.8126	0.2071	32.96	5.20	62.17	46.08	1409.44	1429.91	32.96	5.20
2SPU249-075	0.0513	7.1869	0.0753	7.9365	0.0106	3.9623	0.4299	68.15	2.69	73.71	5.64	256.29	165.18	68.15	2.69
2SPU249-324	0.0540	12.6353	0.0854	14.1468	0.0115	6.4471	0.4498	73.50	4.71	83.19	11.30	368.99	284.63	73.50	4.71
2SPU249-035	0.0483	3.0911	0.0766	3.9174	0.0115	2.5688	0.6156	73.71	1.88	74.97	2.83	113.18	72.94	73.71	1.88
2SPU249-078	0.0497	13.7633	0.0829	14.4497	0.0121	4.8711	0.3061	77.41	3.75	80.84	11.23	181.54	320.69	77.41	3.75
2SPU249-025	0.0479	10.1314	0.0819	11.0886	0.0124	4.5771	0.4065	79.39	3.61	79.96	8.53	94.58	239.89	79.39	3.61
2SPU249-066	0.0553	8.9312	0.0953	10.6687	0.0125	5.9227	0.5470	79.99	4.71	92.39	9.42	423.90	199.25	79.99	4.71
2SPU249-115	0.0462	9.8805	0.0846	12.7721	0.0133	8.1086	0.6337	85.05	6.85	82.46	10.12	6.06	237.89	85.05	6.85
2SPU249-092	0.0495	5.2568	0.0920	5.7090	0.0135	2.6720	0.3966	86.21	2.29	89.36	4.88	172.55	122.69	86.21	2.29
2SPU249-397	0.0533	15.7388	0.0991	18.4604	0.0135	9.6455	0.5226	86.22	8.26	95.94	16.90	342.68	356.22	86.22	8.26
2SPU249-023	0.0498	3.0849	0.0961	3.8125	0.0140	2.3278	0.5881	89.52	2.07	93.18	3.39	185.42	71.83	89.52	2.07
2SPU249-134	0.0496	6.5152	0.0967	8.0142	0.0141	4.6812	0.5823	90.34	4.20	93.72	7.17	178.21	151.90	90.34	4.20
2SPU249-065	0.0501	9.0111	0.0983	10.8240	0.0142	6.4273	0.5553	90.96	5.81	95.18	9.83	200.32	209.25	90.96	5.81
2SPU249-022	0.0490	4.6308	0.0988	5.5131	0.0146	3.0576	0.5428	93.58	2.84	95.71	5.04	146.59	108.60	93.58	2.84
2SPU249-107	0.0480	6.8076	0.0991	9.1039	0.0150	6.3547	0.6648	95.79	6.04	95.98	8.34	98.82	161.06	95.79	6.04
2SPU249-085	0.0714	36.3551	0.1505	37.5757	0.0153	9.6180	0.2528	97.71	9.33	142.39	49.96	969.77	741.89	97.71	9.33
2SPU249-299	0.0631	38.4467	0.1338	38.8625	0.0154	5.6882	0.1459	98.34	5.55	127.53	46.61	710.85	817.18	98.34	5.55
2SPU249-310	0.0576	19.4499	0.1280	21.8672	0.0161	9.9881	0.4570	103.01	10.21	122.32	25.21	514.21	427.25	103.01	10.21
2SPU249-335	0.1191	93.9912	0.2676	94.4928	0.0163	9.8234	0.1029	104.14	10.15	240.80	205.32	1942.40	1681.18	104.14	10.15
2SPU249-076	0.0527	10.7491	0.1199	11.8012	0.0165	5.2998	0.4142	105.48	5.54	114.94	12.83	313.80	244.49	105.48	5.54
2SPU249-095	0.0550	15.0333	0.1266	15.8776	0.0167	5.4411	0.3224	106.69	5.76	121.03	18.12	411.05	336.14	106.69	5.76

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 ACCEPTED															
2SPU249-079	0.0475	6.5525	0.1095	7.1477	0.0167	3.5381	0.4087	106.83	3.75	105.53	7.16	74.41	155.74	106.83	3.75
2SPU249-002	0.0545	6.9983	0.1265	7.9038	0.0168	3.6459	0.4648	107.59	3.89	120.96	9.01	390.29	157.05	107.59	3.89
2SPU249-106	0.0539	19.6155	0.1257	20.0887	0.0169	4.7573	0.2167	108.10	5.10	120.26	22.79	366.10	442.10	108.10	5.10
2SPU249-007	0.0491	17.6655	0.1155	18.5968	0.0171	5.7940	0.3125	109.03	6.26	110.98	19.55	150.57	413.98	109.03	6.26
2SPU249-393	0.0459	24.0226	0.1097	24.5644	0.0173	5.1335	0.2089	110.64	5.63	105.70	24.66	0.00	579.05	110.64	5.63
2SPU249-105	0.0483	12.1009	0.1193	13.7406	0.0179	6.7982	0.4742	114.34	7.70	114.47	14.88	115.01	285.44	114.34	7.70
2SPU249-076	0.0537	40.3469	0.1335	42.4195	0.0180	13.2175	0.3088	114.97	15.06	127.20	50.76	360.39	910.29	114.97	15.06
2SPU249-140	0.0532	9.7841	0.1360	11.0952	0.0185	5.2449	0.4716	118.27	6.15	129.50	13.49	338.70	221.60	118.27	6.15
2SPU249-091	0.0494	4.4730	0.1330	5.7116	0.0195	3.8464	0.6238	124.63	4.75	126.75	6.81	164.95	104.54	124.63	4.75
2SPU249-286	0.0544	15.1811	0.1551	15.9590	0.0207	5.0298	0.3085	131.89	6.57	146.38	21.76	385.99	340.95	131.89	6.57
2SPU249-033	0.0572	11.7246	0.1644	15.4821	0.0208	10.1423	0.6531	132.89	13.34	154.51	22.19	498.29	258.26	132.89	13.34
2SPU249-357	0.0518	13.7654	0.1497	14.5310	0.0209	4.7299	0.3204	133.57	6.25	141.65	19.21	277.13	315.18	133.57	6.25
2SPU249-043	0.0482	7.3888	0.1393	9.3460	0.0210	5.7429	0.6124	133.72	7.60	132.41	11.60	106.83	174.56	133.72	7.60
2SPU249-116	0.0499	8.2275	0.1510	9.8505	0.0219	5.4394	0.5499	139.74	7.52	142.81	13.12	192.18	191.33	139.74	7.52
2SPU249-084	0.0513	12.9043	0.1579	14.0765	0.0223	5.8876	0.3999	142.19	8.28	148.88	19.50	254.97	296.66	142.19	8.28
2SPU249-011	0.0483	7.4837	0.1505	8.6983	0.0226	4.4144	0.5097	143.83	6.28	142.33	11.55	115.03	176.53	143.83	6.28
2SPU249-097	0.0518	6.3028	0.1640	7.6842	0.0229	4.7779	0.5740	146.22	6.91	154.23	11.00	277.33	144.31	146.22	6.91
2SPU249-057	0.0542	15.1030	0.1729	19.8183	0.0231	12.8465	0.6475	147.29	18.71	161.95	29.68	380.21	339.55	147.29	18.71
2SPU249-267	0.0604	22.9742	0.1927	23.6898	0.0231	6.1096	0.2443	147.31	8.90	178.96	38.89	618.53	495.81	147.31	8.90
2SPU249-268	0.0308	73.4533	0.0984	73.9551	0.0231	8.8266	0.1163	147.46	12.87	95.32	67.38	0.00	1770.55	147.46	12.87
2SPU249-369	0.0521	31.5991	0.1667	32.5042	0.0232	7.6747	0.2344	147.65	11.20	156.57	47.20	291.65	721.62	147.65	11.20
2SPU249-052	0.0509	13.0873	0.1627	13.6593	0.0232	3.9679	0.2864	147.65	5.79	153.09	19.41	236.07	301.91	147.65	5.79
2SPU249-006	0.0477	6.5985	0.1532	7.1893	0.0232	2.8185	0.3970	148.15	4.13	144.72	9.70	86.42	156.48	148.15	4.13
2SPU249-093	0.0563	7.1115	0.1821	7.8116	0.0234	3.5536	0.4156	149.39	5.25	169.89	12.22	463.93	157.54	149.39	5.25
2SPU249-089	0.0493	5.6325	0.1598	6.1966	0.0235	3.2287	0.4273	149.71	4.78	150.55	8.67	161.91	131.72	149.71	4.78
2SPU249-399	0.0509	21.4030	0.1652	22.2837	0.0235	6.1996	0.2784	149.83	9.18	155.26	32.09	236.84	493.68	149.83	9.18
2SPU249-098	0.0523	9.9793	0.1699	12.3767	0.0235	7.5565	0.5918	149.86	11.19	159.32	18.25	300.55	227.53	149.86	11.19
2SPU249-008	0.0588	6.4872	0.1918	7.7891	0.0236	4.2878	0.5535	150.67	6.39	178.17	12.73	558.50	141.43	150.67	6.39
2SPU249-045	0.0595	33.9199	0.1958	36.2274	0.0239	12.6920	0.3512	151.96	19.06	181.61	60.31	585.50	736.11	151.96	19.06
2SPU249-342	0.0514	14.4401	0.1696	15.8210	0.0239	6.5302	0.4086	152.41	9.84	159.11	23.30	257.81	331.80	152.41	9.84
2SPU249-338	0.0460	14.0203	0.1558	15.2590	0.0245	6.1830	0.3948	156.16	9.54	147.04	20.89	0.04	337.95	156.16	9.54
2SPU249-130	0.0491	7.2179	0.1702	9.7088	0.0251	6.4929	0.6688	159.87	10.25	159.58	14.34	153.05	169.07	159.87	10.25
2SPU249-003	0.0581	5.7200	0.2122	7.4569	0.0265	4.7630	0.6416	168.52	7.92	195.41	13.26	531.69	125.27	168.52	7.92
2SPU249-013	0.0520	6.9901	0.1931	8.5035	0.0269	5.0635	0.5700	171.21	8.56	179.31	13.98	285.57	159.81	171.21	8.56
2SPU249-123	0.0782	65.5887	0.3297	66.6661	0.0306	12.0197	0.1791	194.02	22.97	289.35	169.40	1151.91	1302.03	194.02	22.97
2SPU249-069	0.0522	5.2044	0.2543	6.6417	0.0353	4.2486	0.6215	223.56	9.34	230.03	13.67	294.80	118.78	223.56	9.34
2SPU249-020	0.0549	11.0326	0.2739	15.5166	0.0361	10.9292	0.7032	228.74	24.56	245.78	33.88	409.48	246.75	228.74	24.56
2SPU249-092	0.0517	18.8077	0.2631	20.6513	0.0368	8.5999	0.4130	233.25	19.70	237.13	43.70	273.80	430.90	233.25	19.70
2SPU249-384	0.0525	13.3673	0.2672	16.9847	0.0369	10.4901	0.6169	233.38	24.04	240.42	36.38	307.66	304.38	233.38	24.04
2SPU249-117	0.0535	9.7085	0.2795	11.5356	0.0378	6.3398	0.5402	239.44	14.90	250.27	25.59	351.14	219.40	239.44	14.90
2SPU249-395	0.0518	12.4921	0.2735	15.0196	0.0382	8.3365	0.5552	241.79	19.78	245.46	32.76	278.64	285.95	241.79	19.78
2SPU249-014	0.0557	1.8607	0.2987	2.2822	0.0388	1.4648	0.5821	245.65	3.53	265.35	5.33	440.78	41.39	245.65	3.53
2SPU249-018	0.0527	7.2965	0.2837	9.6384	0.0390	6.3292	0.6534	246.86	15.33	253.60	21.63	314.11	165.95	246.86	15.33
2SPU249-088	0.0530	6.3595	0.2897	8.1814	0.0396	5.4993	0.6305	250.58	13.52	258.32	18.66	327.37	144.33	250.58	13.52
2SPU249-339	0.0503	20.9575	0.2762	22.0482	0.0398	6.9905	0.3107	251.71	17.26	247.66	48.49	207.27	486.03	251.71	17.26
2SPU249-227	0.0578	14.3063	0.3179	15.1436	0.0399	5.0617	0.3280	251.91	12.51	280.29	37.11	522.27	313.83	251.91	12.51
2SPU249-114	0.0526	4.4927	0.2896	5.4939	0.0399	3.2549	0.5758	252.07	8.05	258.24	12.53	312.64	102.21	252.07	8.05
2SPU249-050	0.0511	9.2538	0.2820	9.8385	0.0400	3.5167	0.3400	252.92	8.72	252.26	21.98	244.23	213.16	252.92	8.72
2SPU249-030	0.0544	6.7051	0.3007	8.4208	0.0401	5.1566	0.6050	253.29	12.81	266.92	19.77	386.10	150.59	253.29	12.81
2SPU249-047	0.0469	16.1544	0.2602	20.7210	0.0402	12.9468	0.6263	254.08	32.26	234.79	43.46	43.93	386.17	254.08	32.26

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 ACCEPTED															
2SPU249-021	0.0524	4.9680	0.2922	6.8012	0.0404	4.6878	0.6830	255.59	11.75	260.31	15.62	300.74	113.27	255.59	11.75
2SPU249-034	0.0524	5.1812	0.2926	6.9839	0.0405	4.7683	0.6706	255.75	11.96	260.58	16.05	302.06	118.10	255.75	11.96
2SPU249-110	0.0533	3.9415	0.2996	4.6070	0.0407	2.8470	0.5259	257.47	7.19	266.11	10.79	340.92	89.24	257.47	7.19
2SPU249-039	0.0546	5.1235	0.3103	6.1625	0.0412	3.2075	0.5569	260.02	8.17	274.40	14.82	397.08	114.84	260.02	8.17
2SPU249-090	0.0555	2.9010	0.3165	3.5770	0.0413	2.5611	0.5970	261.09	6.55	279.19	8.73	431.92	64.63	261.09	6.55
2SPU249-159	0.0523	9.0202	0.2987	12.2073	0.0414	8.3414	0.6739	261.20	21.35	265.40	28.52	300.58	205.66	261.20	21.35
2SPU249-085	0.0544	10.0155	0.3112	14.0496	0.0414	10.0415	0.7014	261.69	25.75	275.09	33.87	388.88	224.82	261.69	25.75
2SPU249-061	0.0550	11.6920	0.3174	13.1013	0.0418	6.1403	0.4515	263.90	15.88	279.88	32.06	413.82	261.30	263.90	15.88
2SPU249-131	0.0578	12.5860	0.3341	17.7245	0.0419	12.5460	0.7041	264.68	32.54	292.67	45.10	520.54	276.17	264.68	32.54
2SPU249-232	0.0531	7.8855	0.3076	9.3870	0.0419	5.2001	0.5426	264.89	13.50	272.31	22.42	334.45	178.74	264.89	13.50
2SPU249-093	0.0519	10.7871	0.3026	11.6418	0.0423	4.5147	0.3763	266.99	11.81	268.42	27.47	278.97	246.91	266.99	11.81
2SPU249-016	0.0545	6.2563	0.3186	7.9811	0.0424	4.9956	0.6209	267.52	13.09	280.86	19.59	391.14	140.38	267.52	13.09
2SPU249-164	0.0571	10.1921	0.3350	10.9464	0.0425	3.9264	0.3648	268.36	10.32	293.40	27.90	495.80	224.60	268.36	10.32
2SPU249-355	0.0508	8.2115	0.2999	10.0898	0.0428	5.9230	0.5811	270.22	15.67	266.29	23.64	229.64	189.65	270.22	15.67
2SPU249-356	0.0514	7.9409	0.3048	8.9628	0.0430	4.2403	0.4638	271.16	11.26	270.12	21.26	259.02	182.42	271.16	11.26
2SPU249-040	0.0505	8.5248	0.2998	9.3203	0.0430	3.7977	0.4043	271.63	10.10	266.24	21.83	216.96	197.35	271.63	10.10
2SPU249-195	0.0528	8.5905	0.3143	9.5879	0.0431	3.9396	0.4455	272.29	10.50	277.51	23.29	319.63	195.19	272.29	10.50
2SPU249-330	0.0529	7.1978	0.3153	8.0405	0.0432	3.7409	0.4461	272.69	9.99	278.25	19.57	323.02	163.45	272.69	9.99
2SPU249-398	0.0503	10.8668	0.3001	13.1026	0.0432	7.3179	0.5587	272.83	19.55	266.49	30.72	209.07	251.93	272.83	19.55
2SPU249-136	0.0496	8.8637	0.2970	9.6493	0.0434	4.0351	0.3958	273.79	10.82	264.07	22.44	176.68	206.72	273.79	10.82
2SPU249-026	0.0564	12.7387	0.3384	16.5340	0.0435	10.5706	0.6375	274.33	28.39	295.92	42.47	467.77	282.02	274.33	28.39
2SPU249-098	0.0512	25.3454	0.3113	25.8271	0.0441	5.2143	0.1925	277.95	14.19	275.19	62.33	249.92	583.21	277.95	14.19
2SPU249-111	0.0517	4.8992	0.3146	6.4926	0.0441	4.3876	0.6565	278.18	11.95	277.74	15.78	272.07	112.28	278.18	11.95
2SPU249-042	0.0521	6.8164	0.3183	9.1091	0.0443	6.0614	0.6634	279.40	16.57	280.60	22.34	288.53	155.75	279.40	16.57
2SPU249-068	0.0550	8.5137	0.3427	9.2723	0.0451	3.8101	0.3964	284.52	10.60	299.21	24.03	413.63	190.28	284.52	10.60
2SPU249-056	0.0532	4.1383	0.3343	5.2707	0.0456	3.3196	0.6194	287.32	9.33	292.85	13.41	335.33	93.79	287.32	9.33
2SPU249-133	0.0554	7.0710	0.3491	8.0521	0.0457	4.0606	0.4790	288.05	11.44	304.03	21.16	426.58	157.67	288.05	11.44
2SPU249-349	0.0568	9.7645	0.3584	10.9695	0.0457	4.9955	0.4557	288.22	14.08	311.01	29.39	483.50	215.63	288.22	14.08
2SPU249-370	0.0507	5.6352	0.3199	7.3122	0.0458	4.7174	0.6373	288.38	13.30	281.86	18.00	225.94	130.24	288.38	13.30
2SPU249-204	0.0519	10.3304	0.3324	14.6144	0.0464	10.2578	0.7074	292.61	29.34	291.37	37.03	279.28	236.44	292.61	29.34
2SPU249-028	0.0590	9.6542	0.3805	13.1416	0.0467	8.9518	0.6785	294.17	25.74	327.38	36.79	568.68	210.11	294.17	25.74
2SPU249-026	0.0540	9.5684	0.3512	11.5051	0.0472	6.3710	0.5553	297.09	18.50	305.62	30.37	369.37	215.53	297.09	18.50
2SPU249-127	0.0542	9.8917	0.3588	12.8316	0.0479	8.1731	0.6370	301.86	24.10	311.32	34.42	380.78	222.36	301.86	24.10
2SPU249-041	0.0568	2.3031	0.4100	2.9952	0.0523	1.9735	0.6396	328.41	6.32	348.86	8.84	485.40	50.84	328.41	6.32
2SPU249-303	0.0459	14.0871	0.3322	14.9693	0.0525	5.0966	0.3382	329.59	16.38	291.28	37.92	0.00	339.56	329.59	16.38
2SPU249-129	0.0592	2.4395	0.4866	3.3823	0.0596	2.3418	0.6927	372.89	8.48	402.58	11.24	574.70	53.04	372.89	8.48
2SPU249-121	0.0727	31.9839	0.6139	33.8648	0.0612	11.2173	0.3286	382.70	41.68	486.00	131.52	1006.42	648.99	382.70	41.68
2SPU249-140	0.0499	6.7276	0.4365	7.3778	0.0634	3.2625	0.4116	396.05	12.53	367.80	22.77	191.38	156.47	396.05	12.53
2SPU249-331	0.0589	11.8736	0.5185	14.7025	0.0638	8.7370	0.5898	398.54	33.77	424.13	51.02	563.61	258.63	398.54	33.77
2SPU249-094	0.0558	3.1881	0.5048	4.0036	0.0655	3.0612	0.6216	409.14	12.14	414.94	13.64	445.48	70.86	409.14	12.14
2SPU249-004	0.0551	8.3836	0.4989	11.3082	0.0656	7.8279	0.6714	409.47	31.06	410.93	38.23	417.33	187.25	409.47	31.06
2SPU249-017	0.0699	7.3989	0.6442	9.6084	0.0668	6.2761	0.6382	417.08	25.35	504.93	38.24	923.98	152.03	417.08	25.35
2SPU249-080	0.0636	12.2586	0.6050	17.8235	0.0689	13.0553	0.7259	429.58	54.26	480.38	68.32	729.11	259.78	429.58	54.26
2SPU249-081	0.0583	3.2600	0.5756	3.8375	0.0716	2.6713	0.5479	445.84	11.51	461.62	14.24	539.21	71.31	445.84	11.51
2SPU249-044	0.0572	2.5553	0.5702	3.3303	0.0722	2.3330	0.6438	449.43	10.13	458.16	12.28	500.21	56.27	449.43	10.13
2SPU249-045	0.0560	6.3709	0.5601	8.9375	0.0725	6.3382	0.7014	451.16	27.62	451.60	32.59	451.89	141.44	451.16	27.62
2SPU249-127	0.0553	9.6288	0.5534	13.0076	0.0725	8.9297	0.6725	451.37	38.93	447.21	47.09	423.96	214.81	451.37	38.93
2SPU249-373	0.0592	10.7964	0.5946	11.5187	0.0728	4.0495	0.3486	453.01	17.71	473.83	43.64	573.95	234.76	453.01	17.71
2SPU249-138	0.0652	7.4208	0.6596	10.1196	0.0733	6.8900	0.6799	456.04	30.34	514.39	40.86	780.81	155.96	456.04	30.34
2SPU249-096	0.0559	6.0814	0.5667	6.7699	0.0735	3.3746	0.4429	457.40	14.90	455.91	24.87	446.51	135.13	457.40	14.90

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 ACCEPTED															
2SPU249-219	0.0608	10.6830	0.6186	13.8677	0.0738	8.8497	0.6376	458.75	39.19	488.96	53.86	631.07	230.07	458.75	39.19
2SPU249-062	0.0575	4.3970	0.5876	5.8316	0.0740	3.9622	0.6573	460.24	17.60	469.31	21.92	512.11	96.62	460.24	17.60
2SPU249-057	0.0594	13.4006	0.6090	18.5946	0.0742	12.9978	0.6933	461.70	57.91	482.94	71.58	583.28	290.92	461.70	57.91
2SPU249-386	0.0619	7.6817	0.6376	10.0655	0.0747	6.5063	0.6462	464.24	29.14	500.84	39.81	669.80	164.38	464.24	29.14
2SPU249-209	0.0548	6.5107	0.5659	8.0007	0.0748	4.5695	0.5813	464.82	20.49	455.36	29.37	405.78	145.71	464.82	20.49
2SPU249-016	0.0598	9.8560	0.6188	12.5430	0.0750	7.8739	0.6186	466.05	35.40	489.11	48.72	596.85	213.48	466.05	35.40
2SPU249-235	0.0629	12.9169	0.6527	13.7736	0.0752	4.8340	0.3472	467.14	21.78	510.14	55.29	705.74	274.78	467.14	21.78
2SPU249-074	0.0565	4.0736	0.5874	5.3495	0.0753	4.0480	0.6560	468.27	18.28	469.20	20.10	471.97	90.12	468.27	18.28
2SPU249-108	0.0573	3.4052	0.5963	4.2013	0.0755	3.1462	0.6035	469.05	14.23	474.91	15.94	501.45	74.97	469.05	14.23
2SPU249-015	0.0567	4.9589	0.5935	6.8368	0.0758	4.7488	0.6884	471.17	21.58	473.10	25.86	480.21	109.57	471.17	21.58
2SPU249-212	0.0560	8.5861	0.5857	9.4229	0.0758	3.8488	0.4120	471.23	17.49	468.13	35.35	450.87	190.64	471.23	17.49
2SPU249-177	0.0593	6.5658	0.6220	7.9813	0.0760	4.5286	0.5686	471.95	20.61	491.07	31.09	579.33	142.64	471.95	20.61
2SPU249-103	0.0595	15.5224	0.6266	16.0053	0.0763	4.0594	0.2440	474.11	18.56	493.96	62.68	585.25	336.87	474.11	18.56
2SPU249-304	0.0658	18.4209	0.6933	21.1058	0.0764	10.2777	0.4881	474.56	47.02	534.77	87.96	798.62	386.05	474.56	47.02
2SPU249-099	0.0566	6.7927	0.5987	7.8913	0.0767	4.3210	0.5103	476.39	19.84	476.42	30.02	474.71	150.20	476.39	19.84
2SPU249-279	0.0569	13.0958	0.6049	18.1285	0.0770	12.6372	0.6915	478.36	58.26	480.36	69.49	487.73	288.99	478.36	58.26
2SPU249-379	0.0575	6.9940	0.6111	8.1685	0.0771	4.2491	0.5166	478.59	19.60	484.28	31.47	509.27	153.77	478.59	19.60
2SPU249-128	0.0561	7.7734	0.5974	11.0946	0.0771	7.9158	0.7135	478.97	36.54	475.61	42.16	457.36	172.40	478.97	36.54
2SPU249-019	0.0560	10.8746	0.6081	11.8029	0.0787	4.7816	0.3891	488.37	22.49	482.39	45.35	452.25	241.40	488.37	22.49
2SPU249-096	0.0571	3.4081	0.6208	4.5393	0.0788	3.5350	0.6695	488.95	16.65	490.32	17.65	494.92	75.11	488.95	16.65
2SPU249-149	0.0580	9.0966	0.6308	12.5460	0.0788	8.7549	0.6887	489.08	41.24	496.58	49.31	529.39	199.30	489.08	41.24
2SPU249-046	0.0620	14.3650	0.6787	20.4581	0.0793	14.5967	0.7120	492.22	69.18	526.01	84.18	673.58	307.20	492.22	69.18
2SPU249-145	0.0767	8.6334	0.8434	11.7044	0.0797	8.0281	0.6753	494.16	38.19	621.01	54.43	1113.62	172.36	494.16	38.19
2SPU249-071	0.0573	3.4935	0.6375	3.9464	0.0806	2.6298	0.4955	499.54	12.64	500.73	15.60	504.45	76.87	499.54	12.64
2SPU249-363	0.0587	11.2361	0.6600	12.4608	0.0814	5.5101	0.4324	504.65	26.75	514.63	50.35	557.15	245.01	504.65	26.75
2SPU249-012	0.0601	4.4034	0.6764	6.1855	0.0815	4.3744	0.7023	505.21	21.26	524.62	25.35	607.80	95.20	505.21	21.26
2SPU249-207	0.0581	7.2278	0.6542	9.4432	0.0816	6.0158	0.6436	505.85	29.27	511.08	37.94	532.48	158.27	505.85	29.27
2SPU249-171	0.0576	7.3180	0.6495	8.3701	0.0817	4.0347	0.4854	506.25	19.64	508.18	33.48	514.86	160.74	506.25	19.64
2SPU249-001	0.0629	6.0042	0.7124	7.7405	0.0820	5.2488	0.6328	508.11	25.65	546.15	32.71	706.46	127.71	508.11	25.65
2SPU249-147	0.0602	6.8327	0.6853	7.6475	0.0825	3.7138	0.4505	510.77	18.24	530.00	31.59	611.78	147.63	510.77	18.24
2SPU249-088	0.0645	20.9986	0.7352	24.6397	0.0827	12.9784	0.5232	511.93	63.87	559.61	106.39	756.83	443.02	511.93	63.87
2SPU249-029	0.0609	2.2785	0.6959	3.1458	0.0827	2.3111	0.6909	512.47	11.39	536.31	13.11	636.96	49.02	512.47	11.39
2SPU249-344	0.0629	6.9447	0.7178	7.8347	0.0828	3.6230	0.4629	512.54	17.85	549.38	33.25	703.23	147.79	512.54	17.85
2SPU249-069	0.0623	12.3930	0.7119	13.7881	0.0828	6.4712	0.4393	512.69	31.89	545.90	58.29	685.30	264.51	512.69	31.89
2SPU249-003	0.0620	14.5277	0.7100	20.3358	0.0830	14.3588	0.6998	513.93	70.93	544.73	85.94	674.06	310.65	513.93	70.93
2SPU249-186	0.0581	7.6440	0.6671	11.3648	0.0832	8.3023	0.7401	515.27	41.11	518.94	46.21	533.15	167.37	515.27	41.11
2SPU249-116	0.0574	14.2311	0.6594	15.9514	0.0833	7.3008	0.4518	515.58	36.18	514.22	64.45	506.32	313.04	515.58	36.18
2SPU249-134	0.0583	4.5830	0.6702	5.4351	0.0833	3.2054	0.5399	515.61	15.88	520.82	22.15	541.83	100.20	515.61	15.88
2SPU249-034	0.0600	6.2203	0.6906	8.4878	0.0834	5.6491	0.6806	516.62	28.05	533.18	35.22	602.95	134.59	516.62	28.05
2SPU249-265	0.0603	10.2644	0.6959	12.2654	0.0836	7.0014	0.5479	517.83	34.84	536.34	51.15	613.73	221.70	517.83	34.84
2SPU249-282	0.0579	9.8322	0.6708	11.9343	0.0839	6.9041	0.5669	519.38	34.45	521.18	48.69	526.95	215.51	519.38	34.45
2SPU249-142	0.0593	8.4689	0.6867	9.0951	0.0839	3.5315	0.3654	519.63	17.63	530.80	37.61	577.23	184.05	519.63	17.63
2SPU249-065	0.0588	6.7852	0.6814	9.3019	0.0840	6.4430	0.6841	519.95	32.19	527.62	38.29	559.16	147.91	519.95	32.19
2SPU249-228	0.0576	5.7421	0.6681	7.2790	0.0841	4.5797	0.6147	520.31	22.89	519.58	29.61	514.24	126.14	520.31	22.89
2SPU249-271	0.0584	4.5859	0.6787	5.9007	0.0842	3.9677	0.6307	521.24	19.87	526.00	24.23	544.58	100.22	521.24	19.87
2SPU249-181	0.0601	12.2230	0.7011	13.2220	0.0846	4.9342	0.3814	523.24	24.80	539.46	55.39	606.63	264.31	523.24	24.80
2SPU249-317	0.0606	5.3547	0.7083	7.2510	0.0847	4.8698	0.6743	524.19	24.52	543.75	30.54	624.48	115.45	524.19	24.52
2SPU249-311	0.0653	10.8034	0.7667	13.9289	0.0850	8.7854	0.6312	526.01	44.38	577.85	61.45	785.26	226.89	526.01	44.38
2SPU249-208	0.0590	5.1602	0.6929	6.5321	0.0851	3.9113	0.6133	526.31	19.77	534.55	27.15	567.80	112.32	526.31	19.77
2SPU249-273	0.0567	10.7910	0.6677	12.2144	0.0853	5.8908	0.4687	527.69	29.85	519.32	49.70	480.50	238.43	527.69	29.85

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 ACCEPTED															
2SPU249-018	0.0547	9.8317	0.6443	10.6267	0.0853	4.2516	0.3800	527.91	21.55	504.96	42.30	400.47	220.25	527.91	21.55
2SPU249-048	0.0613	3.9296	0.7230	4.7575	0.0854	2.8414	0.5646	528.47	14.42	552.43	20.27	650.59	84.35	528.47	14.42
2SPU249-190	0.0660	18.2956	0.7822	19.2836	0.0858	5.9609	0.3161	530.75	30.37	586.76	86.15	807.94	382.86	530.75	30.37
2SPU249-258	0.0690	12.5820	0.8187	19.3972	0.0860	14.8725	0.7611	531.87	75.93	607.34	88.89	897.99	259.63	531.87	75.93
2SPU249-269	0.0588	7.5093	0.6981	9.7889	0.0861	6.5857	0.6422	532.20	33.64	537.66	40.88	558.79	163.70	532.20	33.64
2SPU249-287	0.0743	7.1310	0.8829	9.8176	0.0861	6.8270	0.6874	532.41	34.89	642.53	46.78	1049.59	143.73	532.41	34.89
2SPU249-042	0.0677	23.5845	0.8077	24.9863	0.0865	8.2140	0.3302	534.77	42.15	601.14	113.83	858.42	489.64	534.77	42.15
2SPU249-090	0.0590	7.5457	0.7049	10.4435	0.0866	7.3035	0.6914	535.15	37.51	541.72	43.87	567.67	164.25	535.15	37.51
2SPU249-086	0.0569	6.3636	0.6811	7.1026	0.0867	3.4955	0.4465	536.23	17.99	527.46	29.23	487.86	140.42	536.23	17.99
2SPU249-254	0.0579	5.3203	0.6976	6.4490	0.0873	4.0661	0.5685	539.78	21.05	537.34	26.91	524.88	116.66	539.78	21.05
2SPU249-274	0.0588	9.1717	0.7091	12.6478	0.0874	8.8545	0.6887	539.88	45.86	544.19	53.33	560.18	199.89	539.88	45.86
2SPU249-079	0.0643	3.9402	0.7759	4.9278	0.0874	3.4525	0.6077	540.34	17.89	583.16	21.86	751.90	83.19	540.34	17.89
2SPU249-008	0.0643	14.2567	0.7753	16.8531	0.0874	9.1901	0.5334	540.43	47.64	582.82	74.87	749.93	301.11	540.43	47.64
2SPU249-377	0.0589	6.3301	0.7113	7.7872	0.0875	4.5628	0.5824	540.95	23.68	545.51	32.88	562.57	137.91	540.95	23.68
2SPU249-118	0.0589	4.3375	0.7132	5.5529	0.0877	3.5026	0.6244	542.19	18.21	546.64	23.48	563.30	94.49	542.19	18.21
2SPU249-262	0.0583	11.2322	0.7071	15.4755	0.0879	10.7588	0.6879	543.19	56.05	543.02	65.18	540.20	245.64	543.19	56.05
2SPU249-358	0.0581	10.8235	0.7051	12.3078	0.0880	5.9195	0.4761	543.65	30.86	541.85	51.72	532.24	237.02	543.65	30.86
2SPU249-392	0.0621	11.5861	0.7539	12.4524	0.0880	4.5664	0.3665	543.77	23.81	570.47	54.40	676.45	247.65	543.77	23.81
2SPU249-059	0.0584	5.9558	0.7110	6.9372	0.0882	3.9258	0.5152	544.81	20.51	545.33	29.28	545.77	130.12	544.81	20.51
2SPU249-259	0.0590	9.6417	0.7226	12.0406	0.0888	7.4339	0.5993	548.43	39.08	552.18	51.33	565.54	209.95	548.43	39.08
2SPU249-241	0.0597	6.9510	0.7317	9.2482	0.0888	6.2036	0.6597	548.47	32.62	557.53	39.70	592.60	150.67	548.47	32.62
2SPU249-005	0.0587	4.5629	0.7191	5.8528	0.0888	4.1376	0.6309	548.62	21.76	550.12	24.86	554.56	99.54	548.62	21.76
2SPU249-036	0.0545	15.1074	0.6690	16.8887	0.0889	7.4537	0.4471	549.05	39.23	520.10	68.84	393.10	338.87	549.05	39.23
2SPU249-277	0.0565	9.1485	0.6954	12.4510	0.0892	8.5958	0.6784	550.80	45.38	536.05	51.90	471.62	202.40	550.80	45.38
2SPU249-257	0.0592	6.1554	0.7334	7.5522	0.0898	4.7324	0.5812	554.37	25.14	558.52	32.45	573.35	133.86	554.37	25.14
2SPU249-231	0.0585	12.4562	0.7267	16.7523	0.0899	11.2512	0.6687	555.21	59.86	554.60	71.71	549.99	271.95	555.21	59.86
2SPU249-245	0.0642	9.5749	0.7984	10.9991	0.0901	5.4949	0.4922	556.03	29.27	595.90	49.62	748.68	202.27	556.03	29.27
2SPU249-126	0.0584	4.9122	0.7265	6.9420	0.0902	4.9048	0.7066	556.53	26.15	554.52	29.67	544.28	107.35	556.53	26.15
2SPU249-321	0.0598	8.8815	0.7438	11.5149	0.0902	7.4023	0.6365	556.63	39.48	564.61	49.91	594.77	192.44	556.63	39.48
2SPU249-056	0.0577	6.8195	0.7216	7.6522	0.0907	3.8484	0.4561	559.45	20.62	551.60	32.58	517.54	149.72	559.45	20.62
2SPU249-215	0.0586	6.5743	0.7348	7.8090	0.0908	4.2297	0.5397	560.25	22.70	559.37	33.60	553.69	143.44	560.25	22.70
2SPU249-103	0.0698	4.5261	0.8756	6.9055	0.0909	5.4311	0.7559	561.07	29.18	638.63	32.75	921.84	93.03	561.07	29.18
2SPU249-225	0.0601	5.6259	0.7558	7.5304	0.0911	5.1008	0.6648	561.93	27.45	571.58	32.93	608.09	121.63	561.93	27.45
2SPU249-113	0.0595	8.3664	0.7495	11.6830	0.0912	8.1910	0.6980	562.67	44.13	567.94	50.86	587.20	181.51	562.67	44.13
2SPU249-063	0.0601	11.7002	0.7565	17.9760	0.0913	13.6845	0.7592	562.98	73.78	572.00	78.77	606.25	253.03	562.98	73.78
2SPU249-238	0.0579	4.8815	0.7305	6.2958	0.0914	4.0386	0.6316	564.03	21.81	556.84	26.99	525.45	107.02	564.03	21.81
2SPU249-151	0.0568	8.9601	0.7179	11.9338	0.0916	7.9625	0.6605	565.01	43.07	549.40	50.68	483.21	197.88	565.01	43.07
2SPU249-351	0.0592	8.4689	0.7495	11.7675	0.0917	8.1942	0.6943	565.63	44.37	567.92	51.23	575.04	184.11	565.63	44.37
2SPU249-247	0.0616	5.4025	0.7808	7.1584	0.0918	4.7905	0.6562	565.97	25.96	585.92	31.88	661.95	115.75	565.97	25.96
2SPU249-185	0.0716	6.2685	0.9076	7.9935	0.0919	4.7751	0.6210	566.70	25.91	655.80	38.64	973.79	127.84	566.70	25.91
2SPU249-133	0.0600	5.4443	0.7629	6.8650	0.0921	4.1813	0.6092	567.77	22.72	575.68	30.17	605.00	117.76	567.77	22.72
2SPU249-364	0.0598	8.2383	0.7600	9.8395	0.0922	5.4611	0.5469	568.33	29.71	574.02	43.17	594.59	178.51	568.33	29.71
2SPU249-106	0.0601	10.2190	0.7644	11.5385	0.0922	5.4741	0.4645	568.48	29.79	576.54	50.80	606.58	220.98	568.48	29.79
2SPU249-362	0.0573	5.3322	0.7306	6.7072	0.0924	4.2301	0.6071	569.44	23.05	556.90	28.76	503.92	117.34	569.44	23.05
2SPU249-192	0.0597	4.8392	0.7612	6.6589	0.0924	4.3962	0.6875	569.47	23.96	574.72	29.23	593.55	104.88	569.47	23.96
2SPU249-314	0.0624	8.3261	0.7979	10.2567	0.0926	5.9737	0.5840	570.92	32.64	595.63	46.25	688.83	177.61	570.92	32.64
2SPU249-198	0.0610	7.0140	0.7799	9.0524	0.0927	5.4898	0.6327	571.29	30.01	585.44	40.30	638.70	150.86	571.29	30.01
2SPU249-009	0.0585	5.0332	0.7512	5.7364	0.0931	3.3552	0.4892	573.60	18.41	568.91	24.99	548.43	109.92	573.60	18.41
2SPU249-037	0.0622	6.2313	0.7987	8.6848	0.0931	5.9294	0.6967	573.76	32.55	596.09	39.18	680.28	133.11	573.76	32.55
2SPU249-297	0.0611	6.7809	0.7878	8.4530	0.0934	5.0685	0.5971	575.89	27.92	589.91	37.84	642.12	145.77	575.89	27.92

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 ACCEPTED															
2SPU249-015	0.0567	9.3840	0.7317	10.1303	0.0935	4.0467	0.3774	575.96	22.30	557.53	43.49	481.17	207.31	575.96	22.30
2SPU249-179	0.0588	13.9364	0.7588	15.1806	0.0935	6.0119	0.3965	576.06	33.13	573.32	66.60	560.50	303.72	576.06	33.13
2SPU249-014	0.0593	8.3672	0.7660	10.9421	0.0936	7.1785	0.6445	576.61	39.60	577.47	48.23	579.12	181.78	576.61	39.60
2SPU249-031	0.0864	9.5926	1.1199	15.1524	0.0940	11.7566	0.7741	578.92	65.10	762.94	81.45	1346.30	185.20	578.92	65.10
2SPU249-023	0.0665	13.5450	0.8641	14.2451	0.0942	4.3855	0.3097	580.38	24.34	632.33	67.14	821.10	282.86	580.38	24.34
2SPU249-292	0.0606	8.8098	0.7981	11.4658	0.0955	7.3811	0.6400	587.95	41.48	595.77	51.72	623.56	189.97	587.95	41.48
2SPU249-013	0.0603	6.0985	0.7953	9.0356	0.0956	6.7221	0.7379	588.69	37.82	594.20	40.67	613.08	131.73	588.69	37.82
2SPU249-132	0.0605	5.0541	0.7993	6.7929	0.0957	4.7171	0.6686	589.42	26.57	596.42	30.65	621.26	109.03	589.42	26.57
2SPU249-347	0.0621	10.5875	0.8217	15.0108	0.0959	10.6396	0.7089	590.28	60.02	609.00	68.86	677.25	226.28	590.28	60.02
2SPU249-105	0.0719	24.9417	0.9557	25.6022	0.0964	5.8856	0.2257	593.07	33.35	681.05	127.70	982.14	507.92	593.07	33.35
2SPU249-217	0.0679	9.8264	0.9031	12.9162	0.0964	8.3906	0.6490	593.48	47.57	653.40	62.32	864.25	203.82	593.48	47.57
2SPU249-168	0.0614	8.0580	0.8176	9.1448	0.0966	4.2622	0.4729	594.24	24.20	606.72	41.79	651.67	172.95	594.24	24.20
2SPU249-295	0.0609	4.7119	0.8127	6.3860	0.0968	4.3354	0.6750	595.35	24.65	603.97	29.08	634.35	101.42	595.35	24.65
2SPU249-354	0.0567	6.1617	0.7570	8.5542	0.0968	5.9666	0.6937	595.36	33.93	572.27	37.44	479.51	136.17	595.36	33.93
2SPU249-276	0.0683	18.5658	0.9127	19.9188	0.0968	7.3909	0.3624	595.68	42.05	658.52	96.81	878.09	384.28	595.68	42.05
2SPU249-043	0.0601	7.4108	0.8057	8.9280	0.0972	4.9164	0.5577	597.97	28.08	600.03	40.47	606.08	160.27	597.97	28.08
2SPU249-059	0.0640	10.0292	0.8590	13.9640	0.0972	9.7352	0.6958	598.08	55.61	629.56	65.61	742.56	212.08	598.08	55.61
2SPU249-372	0.0598	18.0475	0.8044	19.6912	0.0975	7.9005	0.4000	599.60	45.24	599.31	89.36	596.21	390.95	599.60	45.24
2SPU249-002	0.0590	5.9077	0.8010	7.1514	0.0983	4.4640	0.5665	604.68	25.77	597.39	32.31	568.07	128.58	604.68	25.77
2SPU249-104	0.0639	7.5873	0.8683	12.1803	0.0985	9.7280	0.7825	605.47	56.22	634.62	57.54	738.06	160.56	605.47	56.22
2SPU249-385	0.0600	8.0876	0.8169	9.5850	0.0986	5.1469	0.5367	606.36	29.79	606.30	43.78	604.09	174.96	606.36	29.79
2SPU249-160	0.0611	9.7639	0.8322	11.8954	0.0987	6.8744	0.5712	606.59	39.80	614.85	54.92	643.50	209.84	606.59	39.80
2SPU249-038	0.0634	6.1579	0.8664	8.7956	0.0990	6.3443	0.7141	608.26	36.83	633.63	41.48	723.25	130.62	608.26	36.83
2SPU249-083	0.0607	5.3010	0.8286	7.2599	0.0990	5.2576	0.6844	608.45	30.53	612.82	33.41	627.29	114.24	608.45	30.53
2SPU249-084	0.0640	9.0078	0.8775	10.4660	0.0994	5.5136	0.5095	610.92	32.14	639.65	49.71	740.74	190.53	610.92	32.14
2SPU249-049	0.0612	8.0982	0.8394	11.3485	0.0995	7.9014	0.7006	611.19	46.07	618.79	52.63	644.93	174.00	611.19	46.07
2SPU249-371	0.0634	5.8510	0.8757	8.0282	0.1001	5.5213	0.6847	615.16	32.39	638.66	38.08	720.74	124.16	615.16	32.39
2SPU249-387	0.0632	6.9086	0.8852	8.8334	0.1014	5.5071	0.6232	622.84	32.70	643.81	42.14	716.17	146.71	622.84	32.70
2SPU249-390	0.0620	10.3092	0.8711	14.0582	0.1019	9.5593	0.6799	625.45	56.98	636.19	66.55	672.57	220.50	625.45	56.98
2SPU249-100	0.0632	13.6145	0.8930	18.8758	0.1024	13.1224	0.6927	628.58	78.59	647.97	90.65	714.34	289.21	628.58	78.59
2SPU249-010	0.0611	5.0789	0.8632	6.5093	0.1024	4.3602	0.6269	628.61	26.11	631.86	30.63	641.76	109.19	628.61	26.11
2SPU249-037	0.0620	6.4166	0.8796	9.2079	0.1027	6.6648	0.7172	630.43	40.03	640.76	43.78	675.36	137.18	630.43	40.03
2SPU249-150	0.0616	11.0151	0.8741	16.1879	0.1028	11.9158	0.7328	630.75	71.60	637.79	76.81	660.92	236.05	630.75	71.60
2SPU249-055	0.0624	4.0827	0.8866	5.3386	0.1029	3.4925	0.6444	631.51	21.01	644.51	25.48	688.53	87.09	631.51	21.01
2SPU249-122	0.0606	3.2498	0.8627	4.1422	0.1031	2.6160	0.6202	632.70	15.77	631.59	19.48	625.66	70.05	632.70	15.77
2SPU249-353	0.0603	5.7394	0.8609	7.8359	0.1034	5.3716	0.6808	634.14	32.44	630.59	36.82	615.85	123.92	634.14	32.44
2SPU249-083	0.0647	7.3662	0.9240	9.4616	0.1035	6.1043	0.6278	634.78	36.90	664.46	46.17	764.76	155.21	634.78	36.90
2SPU249-086	0.0645	3.4634	0.9231	5.6010	0.1036	4.8091	0.7890	635.75	29.11	664.01	27.31	759.48	73.04	635.75	29.11
2SPU249-381	0.0621	10.7649	0.8957	15.4927	0.1045	11.1529	0.7192	640.91	68.04	649.42	74.46	677.13	230.07	640.91	68.04
2SPU249-264	0.0625	5.9220	0.9057	7.3806	0.1051	4.6720	0.5979	643.96	28.63	654.75	35.63	690.02	126.30	643.96	28.63
2SPU249-278	0.0597	8.9279	0.8753	11.5998	0.1062	7.5765	0.6386	650.76	46.90	638.45	55.03	592.98	193.50	650.76	46.90
2SPU249-167	0.0607	4.7069	0.9000	6.4371	0.1074	4.3305	0.6822	657.49	27.07	651.73	30.97	629.87	101.39	657.49	27.07
2SPU249-102	0.0640	9.5454	0.9535	11.5041	0.1079	6.5975	0.5584	660.59	41.42	679.94	57.08	742.78	201.84	660.59	41.42
2SPU249-125	0.0610	11.2573	0.9092	15.6952	0.1080	11.0846	0.6969	661.06	69.65	656.63	76.03	639.58	242.09	661.06	69.65
2SPU249-122	0.0618	6.6474	0.9212	8.9961	0.1081	6.2225	0.6740	661.54	39.12	662.99	43.83	666.12	142.33	661.54	39.12
2SPU249-049	0.0645	5.7138	0.9652	8.3893	0.1084	6.2141	0.7323	663.32	39.17	685.98	41.86	759.19	120.50	663.32	39.17
2SPU249-329	0.0643	7.3535	1.0175	10.3041	0.1147	7.3594	0.7006	699.89	48.81	712.65	52.81	751.02	155.28	699.89	48.81
2SPU249-223	0.0642	12.4556	1.0269	15.2930	0.1159	8.9126	0.5802	706.91	59.67	717.36	78.83	748.14	263.15	706.91	59.67
2SPU249-054	0.0647	3.0455	1.0614	3.9871	0.1188	2.6582	0.6457	723.92	18.20	734.50	20.85	765.13	64.17	723.92	18.20
2SPU249-112	0.0626	5.9140	1.0338	7.6983	0.1196	5.0600	0.6404	728.13	34.84	720.81	39.75	696.27	126.00	728.13	34.84

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 ACCEPTED															
2SPU249-012	0.0669	12.4086	1.1086	16.5409	0.1200	11.1629	0.6614	730.63	77.11	757.49	88.53	835.94	258.52	730.63	77.11
2SPU249-051	0.0674	6.1113	1.1334	8.4884	0.1219	5.9288	0.6940	741.53	41.53	769.38	45.82	849.31	127.06	741.53	41.53
2SPU249-064	0.0658	9.2980	1.1214	10.8803	0.1236	6.1057	0.5209	751.10	43.29	763.64	58.46	798.78	194.85	751.10	43.29
2SPU249-332	0.0702	4.2356	1.1991	11.9242	0.1237	11.1982	0.9348	751.85	79.47	800.17	66.11	935.22	86.89	751.85	79.47
2SPU249-173	0.0642	4.2088	1.1295	5.7150	0.1275	3.8370	0.6765	773.56	27.97	767.54	30.79	748.12	88.92	773.56	27.97
2SPU249-319	0.0672	4.9192	1.2350	6.5684	0.1332	4.3308	0.6627	806.17	32.82	816.63	36.87	843.23	102.37	843.23	102.37
2SPU249-061	0.0676	7.3085	1.2481	8.5388	0.1337	4.5299	0.5173	809.08	34.44	822.53	48.17	857.34	151.76	857.34	151.76
2SPU249-074	0.0677	13.1810	1.2604	18.3882	0.1349	12.9440	0.6973	815.62	99.18	828.08	104.48	859.97	273.59	859.97	273.59
2SPU249-348	0.0684	5.7017	1.2789	7.2473	0.1355	4.4707	0.6173	818.92	34.38	836.38	41.32	881.06	117.96	881.06	117.96
2SPU249-135	0.0692	5.7145	1.4731	7.7707	0.1543	5.4283	0.6780	925.22	46.79	919.39	47.03	903.63	117.82	903.63	117.82
2SPU249-309	0.0697	11.6150	1.4581	16.1451	0.1517	11.1920	0.6946	910.26	95.02	913.22	97.54	918.40	238.87	918.40	238.87
2SPU249-121	0.0697	3.0821	1.4486	3.7491	0.1505	2.1916	0.5696	903.88	18.48	909.28	22.52	920.57	63.36	920.57	63.36
2SPU249-252	0.0700	6.4501	1.3376	9.9865	0.1384	7.6911	0.7635	835.54	60.27	862.17	58.09	929.27	132.43	929.27	132.43
2SPU249-183	0.0701	12.6490	1.5118	18.0030	0.1562	12.7687	0.7116	935.46	111.19	935.16	110.46	932.58	259.57	932.58	259.57
2SPU249-111	0.0701	6.7813	1.5630	10.6417	0.1615	8.2810	0.7707	964.87	74.21	955.64	65.99	932.71	139.16	932.71	139.16
2SPU249-174	0.0703	10.4519	1.6297	14.7690	0.1680	10.4238	0.7065	1000.90	96.64	981.74	93.20	937.26	214.34	937.26	214.34
2SPU249-175	0.0705	13.8144	1.4465	19.4047	0.1486	13.6243	0.7023	893.18	113.65	908.41	117.01	943.74	283.01	943.74	283.01
2SPU249-139	0.0708	7.6401	1.5751	10.7906	0.1612	7.6290	0.7062	963.67	68.29	960.43	67.11	951.07	156.35	951.07	156.35
2SPU249-391	0.0709	3.4428	1.6217	4.6742	0.1657	3.1658	0.6764	988.55	29.01	978.67	29.37	954.71	70.42	954.71	70.42
2SPU249-131	0.0709	11.0344	1.4399	15.9052	0.1471	11.4548	0.7202	884.94	94.72	905.68	95.59	954.72	225.69	954.72	225.69
2SPU249-301	0.0713	6.6864	1.4718	8.5916	0.1496	5.4268	0.6280	898.74	45.53	918.87	51.99	965.53	136.54	965.53	136.54
2SPU249-011	0.0715	4.8702	1.6971	6.2837	0.1720	4.3983	0.6352	1022.93	41.60	1007.44	40.17	972.25	99.35	972.25	99.35
2SPU249-240	0.0717	6.2707	1.5930	6.7718	0.1611	2.7942	0.3790	962.79	24.99	967.49	42.27	976.20	127.84	976.20	127.84
2SPU249-165	0.0720	5.6798	1.7128	7.1483	0.1723	4.2789	0.6072	1024.56	40.53	1013.33	45.86	987.28	115.58	987.28	115.58
2SPU249-298	0.0721	5.8204	1.6120	6.9428	0.1621	3.8135	0.5452	968.23	34.28	974.90	43.53	987.99	118.42	987.99	118.42
2SPU249-308	0.0721	7.8054	1.7904	10.3758	0.1800	6.8000	0.6589	1066.79	66.86	1041.97	67.70	988.30	158.80	988.30	158.80
2SPU249-024	0.0722	5.5380	1.5906	7.5418	0.1596	5.1583	0.6788	954.65	45.77	966.53	47.05	991.61	112.62	991.61	112.62
2SPU249-400	0.0722	7.8685	1.6866	11.1697	0.1692	7.9252	0.7097	1007.88	73.95	1003.46	71.32	992.01	160.00	992.01	160.00
2SPU249-114	0.0723	6.9620	1.6330	10.0503	0.1636	7.3385	0.7213	976.91	66.53	983.03	63.37	994.99	141.51	994.99	141.51
2SPU249-250	0.0724	12.3237	1.5205	18.3963	0.1522	13.6959	0.7425	913.02	116.61	938.69	113.15	997.44	250.39	997.44	250.39
2SPU249-255	0.0724	9.5973	1.5983	12.3958	0.1599	8.0496	0.6331	956.38	71.55	969.56	77.57	997.56	195.00	997.56	195.00
2SPU249-005	0.0725	4.5767	1.4301	7.2274	0.1430	5.5757	0.7740	861.67	44.97	901.58	43.21	998.66	92.97	998.66	92.97
2SPU249-112	0.0726	4.1377	1.7009	5.1047	0.1697	3.0992	0.5860	1010.62	28.99	1008.86	32.65	1003.27	84.00	1003.27	84.00
2SPU249-024	0.0727	12.0778	1.6274	17.2330	0.1623	12.2834	0.7133	969.56	110.58	980.86	108.80	1004.60	245.14	1004.60	245.14
2SPU249-214	0.0727	8.9233	1.7045	10.6710	0.1699	5.8631	0.5484	1011.44	54.89	1010.21	68.39	1005.60	181.09	1005.60	181.09
2SPU249-184	0.0728	6.9627	1.5117	9.3245	0.1504	6.0552	0.6653	903.25	51.04	935.11	57.04	1009.08	141.23	1009.08	141.23
2SPU249-099	0.0729	7.3069	1.6596	10.2634	0.1650	7.4467	0.7026	984.59	68.00	993.21	65.12	1010.63	148.17	1010.63	148.17
2SPU249-095	0.0730	6.1408	1.7416	8.8451	0.1729	6.5624	0.7200	1028.26	62.37	1024.07	57.11	1013.44	124.48	1013.44	124.48
2SPU249-080	0.0730	7.9572	1.7481	10.7737	0.1736	7.3999	0.6743	1031.75	70.55	1026.45	69.70	1013.53	161.29	1013.53	161.29
2SPU249-146	0.0731	5.5914	1.7416	7.1341	0.1727	4.6503	0.6218	1027.20	44.16	1024.04	46.05	1015.50	113.30	1015.50	113.30
2SPU249-033	0.0732	5.6261	1.8255	7.4919	0.1808	4.7998	0.6607	1071.31	47.38	1054.66	49.19	1018.73	113.95	1018.73	113.95
2SPU249-108	0.0733	9.4651	1.7123	10.7706	0.1693	5.2607	0.4773	1008.20	49.10	1013.15	69.15	1022.18	191.61	1022.18	191.61
2SPU249-305	0.0733	5.0318	1.7168	6.5044	0.1697	4.0611	0.6337	1010.45	37.98	1014.81	41.76	1022.27	101.86	1022.27	101.86
2SPU249-060	0.0733	3.3574	1.6939	4.8843	0.1674	3.6889	0.7268	997.53	34.09	1006.25	31.19	1023.59	67.95	1023.59	67.95
2SPU249-132	0.0734	2.8809	1.6587	3.7910	0.1639	2.4633	0.6500	978.15	22.36	992.89	24.02	1023.73	58.31	1023.73	58.31
2SPU249-070	0.0734	12.3760	1.6137	13.8416	0.1594	6.5849	0.4487	953.39	58.36	975.55	86.99	1024.13	250.47	1024.13	250.47
2SPU249-244	0.0734	6.0712	1.7011	8.1357	0.1678	5.4976	0.6658	1000.22	50.94	1008.96	52.07	1026.01	122.84	1026.01	122.84
2SPU249-119	0.0736	9.1202	1.7937	13.0069	0.1766	9.2871	0.7130	1048.60	89.88	1043.18	84.99	1030.05	184.37	1030.05	184.37
2SPU249-143	0.0736	4.4478	1.8518	5.8342	0.1823	3.9658	0.6479	1079.28	39.41	1064.07	38.49	1031.25	89.90	1031.25	89.90
2SPU249-117	0.0737	6.5143	1.6382	8.8572	0.1611	6.0218	0.6776	962.90	53.86	985.01	55.90	1032.80	131.64	1032.80	131.64

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 ACCEPTED															
2SPU249-007	0.0737	3.3215	1.6820	4.4339	0.1653	3.5088	0.6729	986.25	32.09	1001.74	28.24	1034.15	67.10	1034.15	67.10
2SPU249-253	0.0738	7.1849	1.6560	9.0058	0.1627	5.5235	0.6030	971.58	49.82	991.87	57.07	1035.05	145.14	1035.05	145.14
2SPU249-004	0.0740	6.0217	1.6603	8.0383	0.1626	5.3059	0.6624	971.38	47.85	993.50	50.98	1040.64	121.54	1040.64	121.54
2SPU249-109	0.0740	6.3933	1.9189	8.3567	0.1879	5.4970	0.6441	1110.17	56.06	1087.69	55.84	1041.24	129.03	1041.24	129.03
2SPU249-180	0.0740	3.7952	1.7646	5.4826	0.1727	3.8187	0.7221	1026.91	36.25	1032.55	35.55	1042.69	76.58	1042.69	76.58
2SPU249-226	0.0742	8.9891	1.7715	12.3011	0.1730	8.4544	0.6827	1028.75	80.39	1035.07	80.00	1046.52	181.27	1046.52	181.27
2SPU249-203	0.0742	10.1466	1.6425	12.5022	0.1603	7.1910	0.5843	958.59	64.05	986.66	79.06	1047.74	204.58	1047.74	204.58
2SPU249-104	0.0744	6.0696	1.8099	7.7983	0.1762	5.0229	0.6281	1046.15	48.51	1049.04	51.05	1053.36	122.27	1053.36	122.27
2SPU249-152	0.0746	4.8087	1.8374	6.0214	0.1786	3.7951	0.6025	1059.20	37.07	1058.95	39.61	1056.64	96.82	1056.64	96.82
2SPU249-039	0.0746	5.4859	1.7407	6.3332	0.1691	3.2897	0.5001	1007.25	30.68	1023.71	40.86	1057.19	110.45	1057.19	110.45
2SPU249-027	0.0748	7.9792	1.8098	11.5888	0.1752	8.3910	0.7252	1040.95	80.66	1048.99	75.93	1064.15	160.48	1064.15	160.48
2SPU249-325	0.0749	5.2895	1.9662	7.1533	0.1903	5.0251	0.6738	1123.07	51.79	1104.00	48.18	1064.67	106.37	1064.67	106.37
2SPU249-188	0.0749	9.2716	1.5864	12.5511	0.1535	8.3526	0.6741	920.33	71.64	964.89	78.32	1065.98	186.42	1065.98	186.42
2SPU249-234	0.0750	4.2112	1.8462	5.9031	0.1784	4.2684	0.7011	1058.40	41.66	1062.07	38.90	1067.68	84.65	1067.68	84.65
2SPU249-200	0.0750	6.6763	1.8726	9.0925	0.1808	6.0383	0.6790	1071.45	59.61	1071.44	60.25	1069.54	134.16	1069.54	134.16
2SPU249-216	0.0750	6.9980	1.4958	9.1474	0.1444	5.9020	0.6440	869.67	48.02	928.68	55.72	1069.62	140.63	1069.62	140.63
2SPU249-135	0.0751	5.3971	1.9817	7.6700	0.1913	5.4622	0.7105	1128.44	56.55	1109.32	51.81	1070.13	108.45	1070.13	108.45
2SPU249-296	0.0754	7.3184	1.8544	9.9669	0.1783	6.7820	0.6789	1057.67	66.16	1065.01	65.84	1078.12	146.88	1078.12	146.88
2SPU249-270	0.0754	4.7480	1.5954	6.8333	0.1533	5.1094	0.7197	919.52	43.79	968.40	42.68	1079.08	95.28	1079.08	95.28
2SPU249-063	0.0756	6.7543	1.7356	7.7059	0.1663	4.0646	0.4834	991.72	37.36	1021.84	49.68	1085.31	135.41	1085.31	135.41
2SPU249-230	0.0758	10.4452	1.6650	14.1500	0.1592	9.6035	0.6746	952.39	85.03	995.30	90.00	1089.17	209.29	1089.17	209.29
2SPU249-266	0.0759	6.4719	1.8690	8.8659	0.1784	6.3763	0.6844	1058.33	62.24	1070.16	58.71	1092.41	129.61	1092.41	129.61
2SPU249-067	0.0763	12.5046	1.7081	16.2665	0.1623	10.6576	0.6398	969.66	95.95	1011.59	104.55	1101.89	250.08	1101.89	250.08
2SPU249-315	0.0764	6.7351	1.9544	9.2455	0.1854	6.3188	0.6851	1096.63	63.72	1099.95	62.18	1104.58	134.64	1104.58	134.64
2SPU249-067	0.0764	4.9712	1.8135	6.9839	0.1720	5.0087	0.7025	1023.05	47.38	1050.34	45.74	1105.92	99.36	1105.92	99.36
2SPU249-333	0.0768	5.5329	1.7019	7.9346	0.1606	5.7877	0.7169	960.24	51.64	1009.24	50.79	1115.28	110.43	1115.28	110.43
2SPU249-341	0.0769	5.2414	1.9181	7.2495	0.1808	5.0928	0.6909	1071.22	50.26	1087.40	48.42	1118.03	104.57	1118.03	104.57
2SPU249-326	0.0770	4.1950	1.8873	4.9359	0.1777	2.9710	0.5316	1054.29	28.90	1076.65	32.77	1120.27	83.67	1120.27	83.67
2SPU249-248	0.0775	5.1559	2.0201	6.0141	0.1889	3.2371	0.5153	1115.35	33.15	1122.29	40.87	1133.83	102.63	1133.83	102.63
2SPU249-233	0.0775	5.0053	1.7814	6.1770	0.1666	3.7695	0.5865	993.14	34.70	1038.68	40.19	1133.90	99.63	1133.90	99.63
2SPU249-394	0.0779	7.4502	2.0510	10.2386	0.1909	7.0202	0.6859	1126.23	72.54	1132.64	70.00	1143.16	148.09	1143.16	148.09
2SPU249-374	0.0780	5.0043	1.8952	7.3188	0.1761	5.3637	0.7297	1045.79	51.78	1079.40	48.68	1146.06	99.43	1146.06	99.43
2SPU249-073	0.0782	12.3257	2.1972	17.4054	0.2037	12.4326	0.7061	1195.29	135.66	1180.16	122.04	1150.95	244.72	1150.95	244.72
2SPU249-022	0.0783	3.4911	2.1387	5.2130	0.1979	3.8423	0.7427	1164.04	40.92	1161.40	36.08	1154.86	69.27	1154.86	69.27
2SPU249-038	0.0785	7.8469	1.9765	9.1459	0.1826	4.5427	0.5140	1081.01	45.21	1107.54	61.74	1158.42	155.62	1158.42	155.62
2SPU249-213	0.0786	6.4218	2.0187	8.9122	0.1862	6.1589	0.6934	1100.72	62.32	1121.82	60.59	1161.05	127.31	1161.05	127.31
2SPU249-110	0.0786	5.8492	1.8126	7.5045	0.1671	4.8394	0.6267	996.36	44.68	1050.03	49.15	1161.77	115.95	1161.77	115.95
2SPU249-158	0.0787	6.0969	2.3139	8.0454	0.2131	5.4296	0.6528	1245.27	61.48	1216.55	57.10	1164.20	120.81	1164.20	120.81
2SPU249-155	0.0788	5.3551	2.2075	6.6506	0.2030	4.1806	0.5940	1191.45	45.48	1183.43	46.51	1167.04	106.07	1167.04	106.07
2SPU249-196	0.0788	5.6154	1.7361	7.0346	0.1596	3.9167	0.6042	954.70	34.76	1022.01	45.35	1167.27	111.22	1167.27	111.22
2SPU249-107	0.0790	13.0019	2.2773	18.3459	0.2089	12.9914	0.7055	1222.80	144.73	1205.27	130.15	1172.33	257.33	1172.33	257.33
2SPU249-327	0.0791	8.4034	1.9825	11.3215	0.1816	7.7214	0.6702	1075.46	76.49	1109.57	76.56	1175.12	166.25	1175.12	166.25
2SPU249-078	0.0792	6.1986	2.1444	8.3106	0.1962	5.8142	0.6669	1154.85	61.48	1163.26	57.61	1177.33	122.59	1177.33	122.59
2SPU249-113	0.0793	4.6726	2.1293	6.4250	0.1947	4.5566	0.6867	1146.56	47.86	1158.37	44.42	1178.85	92.39	1178.85	92.39
2SPU249-072	0.0794	8.1592	2.0119	11.1441	0.1836	7.8208	0.6814	1086.88	78.23	1119.52	75.73	1181.84	161.26	1181.84	161.26
2SPU249-137	0.0795	7.9638	2.2632	10.9006	0.2063	7.4523	0.6828	1208.91	82.15	1200.89	76.91	1184.62	157.34	1184.62	157.34
2SPU249-378	0.0796	5.3307	2.2371	7.2330	0.2037	4.9139	0.6759	1195.38	53.62	1192.75	50.80	1186.18	105.29	1186.18	105.29
2SPU249-288	0.0797	4.7789	2.0254	5.8993	0.1842	3.6107	0.5869	1089.89	36.21	1124.07	40.12	1188.79	94.36	1188.79	94.36
2SPU249-124	0.0798	14.7514	2.2099	21.0136	0.2006	15.0739	0.7122	1178.81	162.43	1184.19	147.93	1192.34	291.11	1192.34	291.11
2SPU249-316	0.0799	4.5207	2.1455	5.9008	0.1945	3.7673	0.6427	1145.59	39.54	1163.61	40.89	1195.39	89.17	1195.39	89.17

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 ACCEPTED															
2SPU249-242	0.0801	5.7916	2.1641	7.3696	0.1958	4.6948	0.6187	1152.94	49.57	1169.58	51.22	1198.61	114.19	1198.61	114.19
2SPU249-229	0.0801	10.9974	1.8910	14.2914	0.1711	9.1795	0.6386	1018.14	86.46	1077.94	95.20	1199.04	216.82	1199.04	216.82
2SPU249-060	0.0802	4.8973	2.0912	5.9770	0.1890	3.8079	0.5765	1115.99	39.02	1145.93	41.08	1201.45	96.52	1201.45	96.52
2SPU249-162	0.0805	4.2637	2.2693	5.3753	0.2043	3.4358	0.6097	1198.51	37.58	1202.79	37.90	1208.70	83.94	1208.70	83.94
2SPU249-120	0.0808	6.5292	2.2786	8.1628	0.2043	4.9242	0.6002	1198.53	53.86	1205.67	57.66	1216.72	128.40	1216.72	128.40
2SPU249-237	0.0809	6.2725	2.0701	7.5168	0.1854	4.2025	0.5511	1096.42	42.37	1138.96	51.51	1219.05	123.31	1219.05	123.31
2SPU249-128	0.0809	5.5568	2.2812	7.2277	0.2043	4.9615	0.6411	1198.45	54.26	1206.49	51.07	1219.23	109.23	1219.23	109.23
2SPU249-202	0.0811	5.1529	2.1394	6.0866	0.1912	2.9758	0.5342	1127.98	30.79	1161.63	42.14	1223.10	101.24	1223.10	101.24
2SPU249-009	0.0811	4.2178	2.2501	6.3209	0.2010	4.6865	0.7448	1180.93	50.57	1196.81	44.46	1223.60	82.86	1223.60	82.86
2SPU249-275	0.0815	8.5423	2.0761	10.6372	0.1847	6.5372	0.5962	1092.36	65.69	1140.96	73.02	1232.66	167.60	1232.66	167.60
2SPU249-256	0.0815	11.7471	2.2962	16.5888	0.2042	11.8508	0.7061	1198.00	129.58	1211.13	117.87	1232.71	230.47	1232.71	230.47
2SPU249-382	0.0816	2.6087	2.3332	3.5298	0.2073	2.4294	0.6738	1214.19	26.89	1222.46	25.09	1235.30	51.16	1235.30	51.16
2SPU249-172	0.0817	8.7262	2.3960	11.8455	0.2126	7.9965	0.6763	1242.78	90.39	1241.42	85.06	1237.26	171.09	1237.26	171.09
2SPU249-300	0.0817	3.4169	2.3434	4.6482	0.2078	3.2054	0.6781	1217.05	35.55	1225.54	33.09	1238.61	66.98	1238.61	66.98
2SPU249-058	0.0823	7.2754	2.3472	10.2239	0.2068	7.2085	0.7026	1211.50	79.62	1226.71	72.92	1251.92	142.35	1251.92	142.35
2SPU249-027	0.0828	7.0282	2.3401	9.4919	0.2048	6.4294	0.6721	1201.11	70.46	1224.56	67.62	1264.18	137.27	1264.18	137.27
2SPU249-210	0.0829	9.2877	2.1126	10.8631	0.1847	5.6115	0.5187	1092.48	56.39	1152.91	75.00	1266.53	181.34	1266.53	181.34
2SPU249-119	0.0831	11.3640	2.3105	16.8037	0.2016	12.4340	0.7367	1183.89	134.50	1215.51	119.63	1270.44	221.76	1270.44	221.76
2SPU249-376	0.0835	13.5874	2.4970	18.3683	0.2168	12.3704	0.6729	1265.01	142.11	1271.17	133.95	1279.81	264.79	1279.81	264.79
2SPU249-020	0.0840	6.5071	2.3166	8.3278	0.1999	5.1755	0.6241	1174.99	55.59	1217.40	59.13	1291.80	126.60	1291.80	126.60
2SPU249-019	0.0847	4.7389	2.5530	6.7738	0.2183	4.8813	0.7146	1272.72	56.38	1287.28	49.46	1309.69	91.96	1309.69	91.96
2SPU249-153	0.0850	4.7120	2.5130	6.2117	0.2143	4.2014	0.6521	1251.66	47.80	1275.80	45.15	1314.99	91.37	1314.99	91.37
2SPU249-263	0.0850	6.1047	2.6268	8.3129	0.2238	5.8533	0.6792	1301.92	69.01	1308.17	61.21	1316.52	118.35	1316.52	118.35
2SPU249-064	0.0854	1.6567	2.6101	1.9943	0.2216	1.5023	0.5823	1290.34	17.57	1303.50	14.64	1323.63	32.09	1323.63	32.09
2SPU249-048	0.0854	6.8708	2.3933	9.0250	0.2030	5.7851	0.6484	1191.67	62.94	1240.59	64.72	1325.02	133.05	1325.02	133.05
2SPU249-054	0.0857	4.4210	2.6930	5.6008	0.2277	3.6094	0.6147	1322.64	43.16	1326.54	41.49	1331.28	85.53	1331.28	85.53
2SPU249-199	0.0860	13.8934	2.7213	18.9389	0.2293	12.7688	0.6796	1330.69	153.55	1334.28	141.54	1338.24	268.54	1338.24	268.54
2SPU249-124	0.0861	4.8689	2.6165	6.7161	0.2203	4.6255	0.6888	1283.33	53.83	1305.28	49.38	1339.77	94.09	1339.77	94.09
2SPU249-062	0.0873	4.3865	2.6207	5.4010	0.2175	3.5621	0.5878	1268.39	41.02	1306.47	39.71	1367.99	84.44	1367.99	84.44
2SPU249-068	0.0881	5.2398	2.7196	5.8953	0.2236	3.5566	0.4757	1301.01	41.90	1333.83	43.79	1385.36	100.62	1385.36	100.62
2SPU249-144	0.0909	4.4595	3.0635	5.2533	0.2442	3.0304	0.5306	1408.25	38.34	1423.62	40.24	1445.01	84.94	1445.01	84.94
2SPU249-118	0.0927	4.8616	3.0457	5.8397	0.2381	3.4418	0.5551	1377.02	42.68	1419.14	44.67	1481.31	92.15	1481.31	92.15
2SPU249-246	0.0930	4.8132	3.4236	6.7957	0.2666	4.8895	0.7061	1523.68	66.35	1509.82	53.45	1488.60	91.15	1488.60	91.15
2SPU249-141	0.0930	6.7092	3.3374	9.2325	0.2599	6.4574	0.6871	1489.52	85.89	1489.84	72.25	1488.64	127.05	1488.64	127.05
2SPU249-109	0.0943	2.7312	3.3925	3.9130	0.2607	3.4199	0.7304	1493.30	45.59	1502.67	30.70	1514.28	51.54	1514.28	51.54
2SPU249-010	0.0957	2.3307	3.3943	3.4205	0.2570	2.4348	0.7322	1474.70	32.09	1503.07	26.83	1541.37	43.83	1541.37	43.83
2SPU249-044	0.0964	8.7203	3.4315	12.5509	0.2581	8.9837	0.7192	1479.93	118.81	1511.63	98.99	1554.82	163.70	1554.82	163.70
2SPU249-050	0.0964	4.7595	3.3864	6.7809	0.2546	4.8756	0.7123	1462.33	63.79	1501.26	53.20	1555.02	89.35	1555.02	89.35
2SPU249-031	0.0968	6.6742	3.3323	9.6212	0.2496	6.8253	0.7204	1436.32	87.88	1488.65	75.28	1562.50	125.17	1562.50	125.17
2SPU249-040	0.0977	8.3499	3.2688	11.7856	0.2425	8.2802	0.7057	1399.45	104.17	1473.65	91.89	1580.69	156.22	1580.69	156.22
2SPU249-097	0.0982	3.2847	3.5675	4.0611	0.2633	2.8711	0.5981	1506.90	38.58	1542.34	32.22	1589.70	61.38	1589.70	61.38
2SPU249-201	0.0990	6.5774	3.9196	10.0097	0.2870	7.4358	0.7539	1626.54	106.90	1617.73	81.15	1604.54	122.68	1604.54	122.68
2SPU249-101	0.1019	3.3651	3.8003	5.1837	0.2702	4.2241	0.7624	1541.77	57.93	1592.82	41.69	1659.50	62.31	1659.50	62.31
2SPU249-197	0.1023	3.9727	3.4210	5.5043	0.2423	3.4501	0.6956	1398.45	43.37	1509.24	43.27	1666.63	73.50	1666.63	73.50
2SPU249-046	0.1026	4.9274	3.5127	6.8975	0.2481	4.7456	0.6999	1428.47	60.81	1530.08	54.57	1672.04	91.10	1672.04	91.10
2SPU249-077	0.1035	4.2230	3.7827	4.8459	0.2650	3.1641	0.5107	1515.31	42.73	1589.09	38.94	1686.94	77.93	1686.94	77.93
2SPU249-320	0.1049	9.4318	4.1697	12.8389	0.2881	8.7729	0.6785	1631.80	126.49	1668.08	105.53	1712.26	173.50	1712.26	173.50
2SPU249-243	0.1057	5.9500	4.3347	8.5004	0.2971	6.1746	0.7143	1677.14	91.19	1699.99	70.24	1726.51	109.26	1726.51	109.26
2SPU249-178	0.1058	5.9897	4.7507	7.6325	0.3254	4.7217	0.6198	1816.26	74.74	1776.23	64.11	1727.83	109.97	1727.83	109.97
2SPU249-346	0.1060	10.8921	4.1631	14.9002	0.2847	10.1661	0.6824	1614.92	145.25	1666.79	122.58	1731.02	199.89	1731.02	199.89

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 ACCEPTED															
2SPU249-340	0.1066	4.1658	4.5286	6.0477	0.3078	4.4805	0.7251	1729.68	67.97	1736.24	50.34	1742.40	76.34	1742.40	76.34
2SPU249-170	0.1068	4.4587	3.7119	8.4889	0.2519	7.2081	0.8510	1448.22	93.50	1573.94	68.00	1745.17	81.69	1745.17	81.69
2SPU249-130	0.1090	5.7180	4.7864	7.7391	0.3181	5.3711	0.6742	1780.63	83.57	1782.52	65.09	1783.17	104.27	1783.17	104.27
2SPU249-139	0.1092	10.0893	3.7498	11.6025	0.2489	5.8789	0.4940	1432.57	75.52	1582.06	93.27	1785.92	183.92	1785.92	183.92
2SPU249-102	0.1097	7.7423	4.9636	10.9033	0.3278	7.7586	0.7042	1827.62	123.48	1813.14	92.40	1795.00	140.98	1795.00	140.98
2SPU249-156	0.1110	6.0585	4.7298	7.7648	0.3087	5.0509	0.6260	1734.39	76.81	1772.54	65.17	1816.16	110.01	1816.16	110.01
2SPU249-236	0.1144	8.8511	4.9460	12.4128	0.3131	8.7314	0.7011	1756.13	134.24	1810.15	105.22	1871.18	159.62	1871.18	159.62
2SPU249-089	0.1146	5.3594	4.6630	7.4099	0.2950	5.3338	0.6912	1666.41	78.33	1760.63	62.03	1872.84	96.63	1872.84	96.63
2SPU249-239	0.1146	4.3236	4.8010	5.4469	0.3036	3.3878	0.6084	1709.27	50.87	1785.07	45.80	1873.13	77.96	1873.13	77.96
2SPU249-194	0.1150	5.7632	5.2854	7.8822	0.3330	5.1287	0.6830	1852.77	82.59	1866.50	67.40	1880.14	103.83	1880.14	103.83
2SPU249-053	0.1156	14.4240	5.2600	20.1157	0.3298	14.0638	0.6970	1837.36	224.93	1862.40	173.29	1889.00	259.59	1889.00	259.59
2SPU249-125	0.1159	6.5631	5.6661	9.3930	0.3542	6.7193	0.7154	1954.83	113.32	1926.22	81.24	1893.94	118.05	1893.94	118.05
2SPU249-307	0.1171	6.9425	5.5493	9.7557	0.3433	6.8177	0.7026	1902.45	112.33	1908.26	84.12	1912.84	124.60	1912.84	124.60
2SPU249-187	0.1176	5.4690	5.4331	7.7333	0.3349	5.3003	0.7074	1861.95	85.72	1890.08	66.41	1919.47	98.08	1919.47	98.08
2SPU249-182	0.1184	5.9664	4.8495	9.0607	0.2969	6.7399	0.7526	1675.95	99.48	1793.53	76.42	1931.51	106.85	1931.51	106.85
2SPU249-368	0.1192	13.4061	4.7741	19.4884	0.2901	14.1757	0.7258	1642.19	205.58	1780.36	165.05	1944.76	239.72	1944.76	239.72
2SPU249-058	0.1194	10.4463	4.6098	13.0824	0.2798	8.0489	0.6021	1590.22	113.44	1751.04	109.58	1947.33	186.74	1947.33	186.74
2SPU249-283	0.1206	5.2509	5.5086	7.2870	0.3309	5.2382	0.6938	1842.55	83.95	1901.93	62.70	1965.61	93.67	1965.61	93.67
2SPU249-205	0.1231	7.5131	5.9625	10.4987	0.3510	7.2826	0.6985	1939.26	121.98	1970.38	91.54	2001.55	133.46	2001.55	133.46
2SPU249-094	0.1237	3.8680	6.1028	4.8940	0.3575	3.3956	0.6174	1970.13	57.64	1990.64	42.72	2010.53	68.64	2010.53	68.64
2SPU249-345	0.1244	4.1754	6.1540	5.9082	0.3584	4.1768	0.7075	1974.66	71.04	1997.94	51.65	2020.42	74.01	2020.42	74.01
2SPU249-323	0.1251	4.1227	5.2270	4.9704	0.3028	2.9651	0.5598	1705.02	44.42	1857.03	42.39	2030.06	72.99	2030.06	72.99
2SPU249-052	0.1260	4.5832	5.7680	5.7871	0.3317	3.6998	0.6112	1846.43	59.40	1941.61	50.12	2043.31	81.02	2043.31	81.02
2SPU249-350	0.1270	7.0626	6.3483	10.2122	0.3622	7.4028	0.7223	1992.43	126.90	2025.15	89.82	2056.98	124.65	2056.98	124.65
2SPU249-123	0.1280	2.6031	6.5558	3.6306	0.3711	2.5792	0.6972	2034.54	45.00	2053.42	32.00	2070.83	45.87	2070.83	45.87
2SPU249-367	0.1286	5.0504	6.8838	7.1657	0.3879	5.1689	0.7095	2113.06	93.13	2096.58	63.61	2078.80	88.91	2078.80	88.91
2SPU249-137	0.1287	4.2950	6.5389	5.8784	0.3681	4.2246	0.6837	2020.63	73.28	2051.15	51.82	2080.45	75.60	2080.45	75.60
2SPU249-126	0.1288	3.9305	6.4126	5.2553	0.3607	3.9275	0.6685	1985.62	67.12	2033.99	46.19	2081.91	69.17	2081.91	69.17
2SPU249-041	0.1288	5.1035	5.6524	7.3215	0.3180	5.1906	0.7171	1779.81	80.73	1924.12	63.25	2081.97	89.81	2081.97	89.81
2SPU249-072	0.1290	9.2857	6.3969	12.2989	0.3593	8.3652	0.6562	1978.77	142.56	2031.85	108.41	2084.75	163.36	2084.75	163.36
2SPU249-176	0.1296	5.3995	5.6392	7.8116	0.3152	5.6376	0.7226	1766.48	87.11	1922.11	67.47	2092.80	94.90	2092.80	94.90
2SPU249-343	0.1308	10.2329	5.9665	13.6107	0.3304	9.0218	0.6594	1840.43	144.47	1970.98	118.90	2109.26	179.51	2109.26	179.51
2SPU249-051	0.1316	2.7699	6.3925	3.8172	0.3519	2.8466	0.6903	1943.73	47.77	2031.23	33.53	2119.93	48.53	2119.93	48.53
2SPU249-025	0.1352	4.3427	7.3243	5.9082	0.3926	3.9780	0.6781	2134.82	72.30	2151.78	52.83	2166.59	75.69	2166.59	75.69
2SPU249-289	0.1362	4.7308	7.3636	6.4797	0.3918	4.5474	0.6836	2131.22	82.53	2156.56	57.99	2179.08	82.34	2179.08	82.34
2SPU249-334	0.1806	3.2425	10.4624	4.3704	0.4199	3.2477	0.6740	2259.83	61.91	2476.59	40.53	2657.98	53.74	2657.98	53.74
2SPU249-082	0.1831	5.7745	12.1952	7.9722	0.4827	5.6757	0.6898	2538.83	119.12	2619.54	74.95	2681.16	95.50	2681.16	95.50
2SPU249-006	0.1845	13.0025	11.8194	18.0093	0.4642	12.6077	0.6920	2458.15	257.81	2590.20	170.17	2693.85	214.78	2693.85	214.78
2SPU249-361	0.1895	6.3710	13.3857	9.1086	0.5119	6.6119	0.7148	2664.78	144.34	2707.25	86.26	2737.56	104.81	2737.56	104.81
2SPU249-294	0.1911	12.5010	11.7854	16.6197	0.4469	10.9804	0.6590	2381.61	218.72	2587.50	156.79	2751.32	205.40	2751.32	205.40
2SPU249-291	0.1982	3.3062	15.0871	4.7217	0.5515	3.4631	0.7142	2831.49	79.36	2820.75	44.99	2811.49	54.03	2811.49	54.03
2SPU249-087	0.2444	4.5704	19.4724	6.9498	0.5774	5.4477	0.7539	2938.09	128.56	3065.52	67.22	3148.81	72.57	3148.81	72.57
2SPU249-280	0.2542	13.2060	20.9437	19.8062	0.5969	14.8255	0.7453	3017.28	357.60	3135.99	194.28	3211.33	208.60	3211.33	208.60
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 REJECTED															
2SPU249-053	0.0799	5.6187	0.2505	7.4040	0.0227	4.8677	0.6513	144.80	6.97	226.95	15.06	1194.43	110.85	144.80	6.97
2SPU249-148	0.0827	17.6015	0.2941	18.7590	0.0258	6.6395	0.3459	164.00	10.75	261.75	43.31	1262.11	343.88	164.00	10.75
2SPU249-281	0.0957	12.4443	0.4551	15.7221	0.0345	9.7074	0.6112	218.44	20.85	380.88	49.97	1541.55	234.02	218.44	20.85
2SPU249-082	0.0792	13.2018	0.4383	14.3051	0.0401	5.7782	0.3856	253.64	14.37	369.08	44.29	1176.04	261.15	253.64	14.37
2SPU249-047	0.0713	8.3763	0.3961	9.5253	0.0403	4.6314	0.4762	254.41	11.55	338.81	27.45	966.04	171.03	254.41	11.55

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 REJECTED															
2SPU249-032	0.0518	17.7755	0.2889	25.3783	0.0404	18.1309	0.7137	255.45	45.41	257.66	57.82	275.59	407.12	255.45	45.41
2SPU249-035	0.0584	19.4085	0.3457	26.4372	0.0429	17.9108	0.6790	270.67	47.48	301.46	69.06	545.45	424.06	270.67	47.48
2SPU249-169	0.3284	19.4967	2.2124	22.5977	0.0488	11.4020	0.5056	307.22	34.21	1184.98	159.32	3609.82	299.09	307.22	34.21
2SPU249-328	0.0644	25.3928	0.5613	37.3580	0.0631	27.4388	0.7335	394.59	105.03	452.39	137.20	755.88	535.80	394.59	105.03
2SPU249-306	0.0561	17.3283	0.6108	24.0263	0.0788	16.6282	0.6927	489.12	78.33	484.06	92.76	457.97	384.28	489.12	78.33
2SPU249-211	0.1210	7.4671	1.4959	9.7873	0.0896	6.3069	0.6465	552.93	33.42	928.70	59.63	1971.34	133.12	552.93	33.42
2SPU249-337	0.0650	17.9986	0.8866	24.2317	0.0988	16.2845	0.6695	607.44	94.41	644.53	116.13	774.72	378.64	607.44	94.41
2SPU249-028	0.0585	11.4089	0.8117	13.9260	0.1006	7.9716	0.5734	617.65	46.95	603.40	63.43	548.48	249.15	617.65	46.95
2SPU249-115	0.0665	14.6374	0.9408	15.3860	0.1026	4.8842	0.3083	629.57	29.30	673.28	75.87	820.62	305.69	629.57	29.30
2SPU249-087	0.0737	14.6522	1.0483	18.0476	0.1031	10.7135	0.5839	632.73	64.57	728.02	94.05	1032.19	296.11	632.73	64.57
2SPU249-290	0.0589	7.3365	0.8385	9.7844	0.1032	6.5222	0.6617	633.08	39.33	618.30	45.34	562.41	159.84	633.08	39.33
2SPU249-101	0.0695	21.5332	0.9932	25.9413	0.1036	14.5096	0.5577	635.24	87.78	700.35	131.99	913.57	443.17	635.24	87.78
2SPU249-120	0.0586	12.0672	0.8424	14.6712	0.1042	8.4619	0.5688	638.79	51.46	620.45	68.21	552.24	263.36	638.79	51.46
2SPU249-285	0.0689	7.6358	0.9927	9.2983	0.1044	5.4062	0.5707	640.27	32.95	700.11	47.07	895.23	157.63	640.27	32.95
2SPU249-249	0.0594	9.8223	0.8750	13.7380	0.1067	9.6514	0.6992	653.66	60.00	638.25	65.18	581.97	213.29	653.66	60.00
2SPU249-021	0.0701	8.9263	1.0378	10.7400	0.1072	5.9536	0.5561	656.57	37.17	722.81	55.59	932.56	183.18	656.57	37.17
2SPU249-261	0.0592	6.2781	0.8856	7.6522	0.1083	4.6439	0.5728	663.08	29.26	643.99	36.51	575.48	136.48	663.08	29.26
2SPU249-161	0.0812	10.1200	1.2255	14.7429	0.1094	10.7717	0.7272	668.98	68.45	812.30	82.62	1226.54	198.73	668.98	68.45
2SPU249-251	0.0568	8.3558	0.8620	10.9467	0.1100	7.1441	0.6461	672.99	45.66	631.19	51.50	482.02	184.57	672.99	45.66
2SPU249-055	0.0697	10.6852	1.0847	11.6976	0.1128	5.0418	0.4076	688.97	32.94	745.91	61.88	919.14	219.72	688.97	32.94
2SPU249-091	0.0720	16.9678	1.1200	19.5128	0.1128	9.6981	0.4938	689.03	63.38	763.00	105.05	984.57	345.41	689.03	63.38
2SPU249-380	0.0864	5.7010	1.3486	7.5681	0.1131	5.0022	0.6577	690.58	32.76	866.94	44.15	1347.58	110.05	690.58	32.76
2SPU249-138	0.0641	17.5914	1.0126	18.5772	0.1145	6.1150	0.3215	698.98	40.51	710.21	95.19	744.02	371.90	698.98	40.51
2SPU249-070	0.1134	4.3694	1.8081	5.1798	0.1155	3.3592	0.5466	704.83	22.43	1048.39	33.88	1854.73	78.95	704.83	22.43
2SPU249-352	0.0753	9.3306	1.2031	12.4052	0.1158	8.1989	0.6590	706.12	54.84	802.02	68.89	1076.71	187.30	706.12	54.84
2SPU249-222	0.0697	6.2575	1.1183	8.5037	0.1163	5.8186	0.6772	708.99	39.07	762.14	45.61	919.37	128.67	708.99	39.07
2SPU249-100	0.0632	15.7828	1.2279	17.4522	0.1408	7.6014	0.4269	849.17	60.48	813.37	97.97	714.86	335.24	714.86	335.24
2SPU249-066	0.0872	9.4809	1.4241	12.1841	0.1183	7.9948	0.6287	720.71	54.52	899.10	72.81	1365.97	182.55	720.71	54.52
2SPU249-375	0.0830	32.5007	1.3955	33.8290	0.1219	9.3997	0.2775	741.45	65.84	887.03	202.76	1268.19	634.42	741.45	65.84
2SPU249-312	0.0603	6.4777	1.0493	8.4210	0.1261	5.3701	0.6390	765.44	38.76	728.55	43.81	614.54	139.89	765.44	38.76
2SPU249-071	0.0822	7.5693	1.4402	8.4930	0.1269	4.4468	0.4582	770.22	32.28	905.79	50.94	1251.15	148.11	770.22	32.28
2SPU249-206	0.0628	13.4195	1.1102	14.3841	0.1281	5.1065	0.3601	777.06	37.38	758.29	76.99	701.33	285.67	777.06	37.38
2SPU249-336	0.0655	14.6797	1.4277	15.2267	0.1579	4.2802	0.2661	944.83	37.62	900.59	91.17	791.54	307.99	791.54	307.99
2SPU249-366	0.0659	22.2610	1.2054	31.1536	0.1326	21.8145	0.6996	802.79	164.69	803.06	174.59	801.88	466.28	801.88	466.28
2SPU249-388	0.0694	5.5890	1.6852	7.0748	0.1758	4.3409	0.6131	1044.18	41.85	1002.94	45.11	912.00	115.05	912.00	115.05
2SPU249-189	0.0707	6.4145	1.7213	8.4217	0.1765	5.2894	0.6483	1047.94	51.16	1016.50	54.14	947.48	131.34	947.48	131.34
2SPU249-359	0.0710	4.2025	1.7453	5.3077	0.1780	3.3494	0.6111	1056.30	32.63	1025.44	34.28	958.25	85.91	958.25	85.91
2SPU249-081	0.0720	18.2801	1.5650	18.9479	0.1576	5.1829	0.2633	943.30	45.48	956.45	117.91	985.15	372.09	985.15	372.09
2SPU249-163	0.0726	17.3710	1.7160	24.7501	0.1713	17.6609	0.7123	1019.07	166.51	1014.53	160.09	1002.93	352.66	1002.93	352.66
2SPU249-272	0.0741	15.0316	1.6995	21.3309	0.1661	15.1991	0.7095	990.63	139.59	1008.35	137.19	1045.09	303.19	1045.09	303.19
2SPU249-322	0.0752	17.5858	1.7828	24.9452	0.1719	17.7225	0.7092	1022.48	167.61	1039.20	163.67	1072.59	353.24	1072.59	353.24
2SPU249-036	0.0754	6.4939	1.4844	9.3336	0.1427	6.7641	0.7183	860.10	54.47	924.02	56.68	1077.98	130.34	1077.98	130.34
2SPU249-365	0.0758	8.5063	1.5147	11.5251	0.1447	7.8325	0.6747	871.35	63.84	936.33	70.60	1090.68	170.40	1090.68	170.40
2SPU249-293	0.0759	19.8743	1.8693	28.4719	0.1785	20.4033	0.7161	1058.77	199.28	1070.27	190.55	1091.84	398.06	1091.84	398.06
2SPU249-302	0.0760	5.5273	1.5115	7.5124	0.1442	5.1215	0.6773	868.25	41.60	935.05	45.94	1094.04	110.67	1094.04	110.67
2SPU249-360	0.0791	16.9281	1.4585	20.2942	0.1336	11.2532	0.5516	808.18	85.48	913.39	122.84	1175.22	334.90	1175.22	334.90
2SPU249-129	0.0804	10.1166	1.6653	11.4376	0.1501	5.6329	0.4672	901.34	47.38	995.41	72.69	1207.21	199.22	1207.21	199.22
2SPU249-284	0.0852	7.9718	1.7508	9.5902	0.1489	5.4309	0.5560	894.69	45.37	1027.45	62.05	1320.21	154.47	1320.21	154.47
2SPU249-075	0.0887	13.8533	1.7206	19.4697	0.1406	13.7955	0.7027	847.87	109.61	1016.26	125.67	1397.81	265.57	1397.81	265.57
2SPU249-157	0.0944	5.5005	2.2401	7.5189	0.1719	5.3106	0.6822	1022.72	50.22	1193.68	52.83	1516.38	103.78	1516.38	103.78

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2SPU249, EARLY OLIGOCENE, PUNO GROUP, LATITUDE: -15.891920, LONGITUDE: -69.957370 REJECTED															
2SPU249-389	0.0959	13.2210	2.5349	18.3185	0.1914	12.6806	0.6922	1129.14	131.36	1282.10	134.16	1546.78	248.45	1546.78	248.45
2SPU249-077	0.0994	8.1619	2.1187	10.6929	0.1544	7.1332	0.6464	925.70	61.51	1154.90	73.89	1613.35	152.07	1613.35	152.07
2SPU249-136	0.0998	13.1986	2.9970	20.0470	0.2176	15.0935	0.7527	1269.09	173.92	1406.86	153.79	1620.46	245.68	1620.46	245.68
2SPU249-191	0.1022	7.5994	3.2293	9.0224	0.2289	4.6964	0.5394	1328.55	56.39	1464.21	70.06	1665.17	140.62	1665.17	140.62
2SPU249-221	0.1082	6.8961	2.2641	10.4749	0.1516	7.9288	0.7527	909.72	67.27	1201.17	73.91	1769.95	125.96	1769.95	125.96
2SPU249-313	0.1087	4.7289	3.2084	6.7089	0.2138	4.7468	0.7093	1248.98	53.90	1459.20	51.98	1778.39	86.28	1778.39	86.28
2SPU249-193	0.1101	10.2072	2.0490	14.2296	0.1348	9.8335	0.6968	815.28	75.31	1131.95	97.39	1801.49	185.72	1801.49	185.72
2SPU249-260	0.1105	20.8080	3.2306	21.9035	0.2118	7.0153	0.3124	1238.58	79.06	1464.53	171.44	1807.66	378.22	1807.66	378.22
2SPU249-073	0.1124	6.5268	2.8376	10.2401	0.1830	8.1974	0.7711	1083.51	81.76	1365.54	77.03	1837.79	118.23	1837.79	118.23
2SPU249-017	0.1128	13.4669	2.9508	15.6711	0.1895	8.0390	0.5114	1118.83	82.57	1395.06	119.39	1845.05	243.61	1845.05	243.61
2SPU249-220	0.1202	18.3427	5.8492	25.8483	0.3526	18.2313	0.7046	1947.07	306.61	1953.74	227.89	1959.10	327.46	1959.10	327.46
2SPU249-318	0.1235	9.7334	3.4550	15.1702	0.2026	11.6278	0.7670	1189.41	126.31	1517.02	120.02	2008.08	172.77	2008.08	172.77
2SPU249-001	0.1246	6.9128	3.2474	7.3497	0.1888	2.4556	0.3397	1115.10	25.15	1468.57	57.12	2023.11	122.49	2023.11	122.49
2SPU249-029	0.1290	9.1763	4.2763	14.1072	0.2401	10.7044	0.7595	1387.43	133.64	1688.80	116.60	2085.02	161.43	2085.02	161.43
2SPU249-224	0.1323	11.2881	4.3968	13.0786	0.2407	6.6776	0.5051	1390.43	83.52	1711.74	108.60	2129.33	197.57	2129.33	197.57
2SPU249-032	0.1357	5.8538	5.5445	8.3522	0.2960	5.8356	0.7134	1671.64	85.93	1907.52	71.97	2173.35	101.95	2173.35	101.95
2SPU249-218	0.1437	8.7237	3.4127	11.1941	0.1721	7.0240	0.6266	1023.78	66.49	1507.32	88.13	2271.85	150.31	2271.85	150.31
2SPU249-166	0.1438	6.6267	6.4558	9.6828	0.3254	7.0225	0.7291	1815.82	111.14	2039.89	85.33	2273.25	114.16	2273.25	114.16
2SPU249-030	0.1663	8.1921	5.1822	12.2888	0.2258	9.0811	0.7454	1312.58	107.86	1849.70	104.97	2520.74	137.61	2520.74	137.61
2SPU249-154	0.1796	4.0561	8.4278	5.5590	0.3401	4.0465	0.6852	1887.15	66.20	2278.18	50.50	2648.85	67.28	2648.85	67.28
2SPU249-383	0.1991	8.1087	5.6570	9.9767	0.2059	5.8336	0.5826	1206.97	64.21	1924.84	86.29	2818.66	132.43	2818.66	132.43
3SPU112, MIDDLE OLIGOCENE, PUNO GROUP, LATITUDE: -15.896460, LONGITUDE: -69.960270 ACCEPTED															
3SPU112-049	0.0430	19.5126	0.0260	20.2148	0.0044	5.4950	0.2615	28.16	1.54	26.04	5.20	0.00	470.34	28.16	1.54
3SPU112_f-157	0.0480	9.0278	0.0292	10.0738	0.0044	4.4917	0.4437	28.31	1.27	29.20	2.90	100.67	213.52	28.31	1.27
3SPU112-090	0.0551	14.0062	0.0335	14.9103	0.0044	5.1330	0.3429	28.32	1.45	33.41	4.90	414.28	313.00	28.32	1.45
3SPU112-121	0.0545	13.6246	0.0332	14.6309	0.0044	5.8017	0.3658	28.39	1.64	33.17	4.77	392.06	305.67	28.39	1.64
3SPU112-130	0.0628	11.5756	0.0384	12.3234	0.0044	4.9834	0.3477	28.48	1.42	38.25	4.63	702.85	246.36	28.48	1.42
3SPU112-036	0.0347	49.5362	0.0213	50.3106	0.0044	8.8357	0.1748	28.59	2.52	21.39	10.65	0.00	1194.04	28.59	2.52
3SPU112-053	0.0506	12.9327	0.0311	13.6836	0.0045	4.6359	0.3269	28.66	1.33	31.12	4.19	223.77	299.02	28.66	1.33
3SPU112-116	0.0446	14.3933	0.0275	15.0242	0.0045	4.8770	0.2890	28.71	1.40	27.51	4.08	0.00	346.94	28.71	1.40
3SPU112-007	0.0498	20.2445	0.0307	20.9868	0.0045	5.9348	0.2643	28.72	1.70	30.66	6.34	183.89	471.50	28.72	1.70
3SPU112_f-241	0.0557	17.8277	0.0344	21.1191	0.0045	11.3244	0.5361	28.76	3.25	34.32	7.13	441.10	396.52	28.76	3.25
3SPU112_f-229	0.0569	11.1621	0.0352	11.8323	0.0045	3.9377	0.3318	28.84	1.13	35.12	4.08	487.54	246.33	28.84	1.13
3SPU112-025	0.0446	36.1413	0.0276	36.8315	0.0045	7.2158	0.1927	28.85	2.08	27.65	10.05	0.00	871.17	28.85	2.08
3SPU112_f-141	0.0496	10.3183	0.0307	12.3088	0.0045	6.6790	0.5452	28.89	1.92	30.72	3.73	174.59	240.73	28.89	1.92
3SPU112-016	0.0604	19.9017	0.0375	20.4548	0.0045	5.1069	0.2317	28.95	1.47	37.38	7.51	617.58	429.57	28.95	1.47
3SPU112-120	0.0438	17.3900	0.0272	18.1463	0.0045	5.6658	0.2868	28.98	1.64	27.29	4.89	0.00	419.18	28.98	1.64
3SPU112_f-237	0.0467	13.9346	0.0290	14.8107	0.0045	4.9306	0.3389	29.00	1.43	29.06	4.24	31.83	333.86	29.00	1.43
3SPU112-126	0.0635	23.8909	0.0395	24.7898	0.0045	7.1216	0.2676	29.04	2.06	39.38	9.58	724.77	506.65	29.04	2.06
3SPU112_f-218	0.0508	12.7996	0.0317	13.6255	0.0045	4.8078	0.3430	29.08	1.39	31.69	4.25	232.41	295.47	29.08	1.39
3SPU112-010	0.0566	19.7986	0.0354	21.0209	0.0045	7.3050	0.3362	29.17	2.13	35.34	7.30	475.49	437.73	29.17	2.13
3SPU112_f-039	0.0457	14.2793	0.0286	15.1213	0.0045	5.2158	0.3294	29.18	1.52	28.65	4.27	0.00	344.20	29.18	1.52
3SPU112_f-126	0.0537	10.3136	0.0337	12.2503	0.0045	6.7322	0.5397	29.18	1.96	33.61	4.05	360.22	232.70	29.18	1.96
3SPU112_f-075	0.0544	12.7984	0.0341	14.0205	0.0045	5.6694	0.4083	29.19	1.65	34.05	4.69	389.24	287.27	29.19	1.65
3SPU112_f-239	0.0563	15.2806	0.0352	15.7854	0.0045	3.8479	0.2510	29.20	1.12	35.17	5.46	462.55	338.60	29.20	1.12
3SPU112-111	0.0509	14.8916	0.0319	15.4323	0.0045	4.4470	0.2635	29.21	1.30	31.87	4.84	234.81	343.61	29.21	1.30
3SPU112_f-013	0.0496	13.7077	0.0311	14.3301	0.0045	4.2353	0.2915	29.22	1.23	31.08	4.39	175.09	319.78	29.22	1.23
3SPU112-017	0.0601	31.5124	0.0377	33.0046	0.0045	10.0014	0.2973	29.25	2.92	37.58	12.18	606.18	681.49	29.25	2.92
3SPU112_f-183	0.0466	14.4211	0.0293	14.9865	0.0046	4.0806	0.2721	29.29	1.19	29.31	4.33	29.56	345.67	29.29	1.19

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3SPU112, MIDDLE OLIGOCENE, PUNO GROUP, LATITUDE: -15.896460, LONGITUDE: -69.960270 ACCEPTED															
3SPU112_f-018	0.0529	12.4781	0.0333	12.9413	0.0046	3.7259	0.2661	29.31	1.09	33.22	4.23	323.33	283.33	29.31	1.09
3SPU112_f-235	0.0531	14.8301	0.0334	15.4717	0.0046	4.3087	0.2851	29.32	1.26	33.33	5.07	331.44	336.33	29.32	1.26
3SPU112_f-164	0.0529	11.3910	0.0333	11.9014	0.0046	3.4552	0.2897	29.35	1.01	33.26	3.89	323.66	258.63	29.35	1.01
3SPU112-023	0.0451	52.8680	0.0284	53.1214	0.0046	5.4078	0.0976	29.36	1.58	28.44	14.90	0.00	1274.36	29.36	1.58
3SPU112-106	0.0507	13.3868	0.0320	15.4243	0.0046	7.8792	0.4969	29.41	2.31	31.96	4.85	225.51	309.42	29.41	2.31
3SPU112_f-044	0.0491	16.7900	0.0310	17.1748	0.0046	3.7191	0.2106	29.41	1.09	31.01	5.25	154.09	393.20	29.41	1.09
3SPU112_f-077	0.0545	11.3076	0.0345	11.8945	0.0046	3.6034	0.3103	29.48	1.06	34.43	4.03	392.17	253.68	29.48	1.06
3SPU112_f-059	0.0483	12.6404	0.0307	13.1935	0.0046	3.7010	0.2866	29.61	1.09	30.70	3.99	115.02	298.17	29.61	1.09
3SPU112_f-209	0.0451	14.2918	0.0287	15.4170	0.0046	5.8105	0.3750	29.62	1.72	28.71	4.36	0.00	344.50	29.62	1.72
3SPU112_f-207	0.0430	16.6828	0.0274	17.4460	0.0046	5.1364	0.2926	29.64	1.52	27.40	4.72	0.00	402.13	29.64	1.52
3SPU112_f-170	0.0455	12.6099	0.0290	13.3479	0.0046	4.3967	0.3279	29.65	1.30	29.00	3.82	0.00	303.96	29.65	1.30
3SPU112_f-156	0.0454	17.3817	0.0289	17.8318	0.0046	4.0054	0.2233	29.65	1.19	28.89	5.08	0.00	418.98	29.65	1.19
3SPU112-102	0.0563	12.4127	0.0359	12.8789	0.0046	3.7687	0.2678	29.68	1.12	35.78	4.53	464.97	274.93	29.68	1.12
3SPU112_f-135	0.0448	11.9599	0.0286	12.4870	0.0046	3.5383	0.2875	29.68	1.05	28.58	3.52	0.00	288.29	29.68	1.05
3SPU112_f-073	0.0559	15.5719	0.0357	16.3367	0.0046	4.8127	0.3025	29.75	1.43	35.58	5.71	446.99	345.99	29.75	1.43
3SPU112_f-097	0.0496	11.2369	0.0317	11.7913	0.0046	3.5778	0.3030	29.80	1.06	31.71	3.68	176.78	262.06	29.80	1.06
3SPU112-108	0.0655	35.5002	0.0419	35.7157	0.0046	4.3272	0.1102	29.80	1.29	41.70	14.59	791.81	744.79	29.80	1.29
3SPU112_f-124	0.0519	12.4463	0.0333	13.4820	0.0046	5.3364	0.3845	29.90	1.59	33.24	4.41	279.50	284.86	29.90	1.59
3SPU112_f-006	0.0532	18.0372	0.0342	19.0152	0.0047	5.8908	0.3166	29.93	1.76	34.14	6.38	338.60	408.53	29.93	1.76
3SPU112_f-217	0.0490	10.5582	0.0315	11.1014	0.0047	3.6134	0.3094	29.94	1.08	31.47	3.44	147.94	247.54	29.94	1.08
3SPU112_f-087	0.0487	11.8097	0.0313	13.2014	0.0047	5.8845	0.4469	29.98	1.76	31.31	4.07	132.10	277.69	29.98	1.76
3SPU112_f-151	0.0519	11.4775	0.0334	12.4050	0.0047	4.7789	0.3795	29.99	1.43	33.35	4.07	280.66	262.63	29.99	1.43
3SPU112_f-072	0.0489	14.2640	0.0315	17.7778	0.0047	10.5520	0.5969	30.01	3.16	31.50	5.51	144.11	334.66	30.01	3.16
3SPU112_f-270	0.0488	12.9204	0.0315	14.2016	0.0047	5.9300	0.4151	30.05	1.78	31.48	4.40	139.06	303.42	30.05	1.78
3SPU112-114	0.0450	13.2769	0.0291	13.9670	0.0047	4.7094	0.3115	30.08	1.41	29.09	4.01	0.00	320.03	30.08	1.41
3SPU112_f-242	0.0454	12.8933	0.0293	13.8206	0.0047	4.9500	0.3601	30.10	1.49	29.37	4.00	0.00	310.79	30.10	1.49
3SPU112_f-146	0.0534	12.8037	0.0345	13.5958	0.0047	4.6201	0.3364	30.14	1.39	34.48	4.61	346.21	289.60	30.14	1.39
3SPU112_f-111	0.0510	11.5934	0.0330	12.5523	0.0047	4.9796	0.3836	30.14	1.50	32.98	4.07	242.40	267.14	30.14	1.50
3SPU112_f-152	0.0493	14.9959	0.0319	17.1406	0.0047	8.3433	0.4844	30.15	2.51	31.85	5.38	160.41	350.77	30.15	2.51
3SPU112_f-116	0.0525	13.9687	0.0340	14.6573	0.0047	4.7600	0.3036	30.15	1.43	33.92	4.89	307.02	318.11	30.15	1.43
3SPU112_f-002	0.0435	22.6004	0.0282	23.4866	0.0047	6.2696	0.2722	30.18	1.89	28.19	6.53	0.00	544.77	30.18	1.89
3SPU112_f-222	0.0519	12.9878	0.0336	13.4500	0.0047	3.5618	0.2599	30.21	1.07	33.60	4.45	281.81	297.13	30.21	1.07
3SPU112_f-180	0.0555	13.1900	0.0360	15.4023	0.0047	7.9547	0.5164	30.22	2.40	35.88	5.43	431.16	293.88	30.22	2.40
3SPU112-094	0.0459	11.4233	0.0298	12.0947	0.0047	4.1127	0.3287	30.23	1.24	29.82	3.55	0.00	275.35	30.23	1.24
3SPU112_f-206	0.0442	14.9064	0.0287	15.7518	0.0047	5.1237	0.3232	30.26	1.55	28.73	4.46	0.00	359.31	30.26	1.55
3SPU112_f-266	0.0467	8.6375	0.0303	10.0028	0.0047	5.0858	0.5044	30.29	1.54	30.34	2.99	31.89	206.94	30.29	1.54
3SPU112_f-204	0.0534	13.3120	0.0347	14.5314	0.0047	5.8837	0.4010	30.29	1.78	34.62	4.95	344.46	301.19	30.29	1.78
3SPU112_f-062	0.0568	12.9326	0.0369	13.9657	0.0047	5.2340	0.3775	30.29	1.58	36.81	5.05	482.97	285.62	30.29	1.58
3SPU112_f-184	0.0492	13.4346	0.0321	14.1091	0.0047	4.3205	0.3055	30.41	1.31	32.09	4.46	157.92	314.40	30.41	1.31
3SPU112_f-153	0.0553	13.1205	0.0362	14.0118	0.0047	4.9870	0.3510	30.52	1.52	36.13	4.97	424.13	292.70	30.52	1.52
3SPU112_f-023	0.0510	17.3731	0.0335	18.6792	0.0048	6.9403	0.3674	30.62	2.12	33.50	6.16	242.68	400.29	30.62	2.12
3SPU112_f-093	0.0504	10.7879	0.0331	12.5336	0.0048	6.3811	0.5091	30.66	1.95	33.10	4.08	211.47	249.99	30.66	1.95
3SPU112_f-109	0.0480	17.7613	0.0317	20.0520	0.0048	9.4924	0.4642	30.74	2.91	31.65	6.25	98.83	420.22	30.74	2.91
3SPU112_f-168	0.0483	10.8749	0.0320	11.7629	0.0048	4.4892	0.3812	30.81	1.38	31.94	3.70	116.35	256.46	30.81	1.38
3SPU112_f-244	0.0634	25.2798	0.0420	26.1033	0.0048	6.5121	0.2492	30.87	2.01	41.76	10.68	721.15	536.42	30.87	2.01
3SPU112_f-110	0.0477	13.8579	0.0317	17.8748	0.0048	11.3627	0.6316	30.91	3.50	31.65	5.57	86.02	328.66	30.91	3.50
3SPU112_f-138	0.0471	12.9557	0.0315	13.7337	0.0048	4.5165	0.3318	31.16	1.40	31.48	4.26	53.90	309.12	31.16	1.40
3SPU112_f-212	0.0477	10.2529	0.0320	11.2211	0.0049	4.6428	0.4064	31.25	1.45	31.96	3.53	83.76	243.27	31.25	1.45
3SPU112_f-199	0.0551	13.5150	0.0370	15.3356	0.0049	7.2406	0.4726	31.31	2.26	36.91	5.56	416.97	301.88	31.31	2.26
3SPU112-124	0.0629	16.2440	0.0424	17.3452	0.0049	6.6293	0.3519	31.44	2.08	42.20	7.17	704.51	345.62	31.44	2.08

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3SPU112, MIDDLE OLIGOCENE, PUNO GROUP, LATITUDE: -15.896460, LONGITUDE: -69.960270 ACCEPTED															
3SPU112_f-163	0.0511	13.8856	0.0351	14.5975	0.0050	4.5095	0.3085	31.95	1.44	35.00	5.02	247.11	319.68	31.95	1.44
3SPU112_f-182	0.0440	30.1181	0.0302	30.7051	0.0050	5.9771	0.1946	32.03	1.91	30.22	9.14	0.00	725.98	32.03	1.91
3SPU112-028	0.0490	29.2764	0.0338	30.4223	0.0050	8.3733	0.2719	32.19	2.69	33.79	10.11	147.48	686.45	32.19	2.69
3SPU112_f-130	0.0490	13.3239	0.0345	14.2653	0.0051	5.2171	0.3574	32.79	1.71	34.46	4.83	150.15	312.26	32.79	1.71
3SPU112_f-030	0.0501	10.7580	0.0356	13.0496	0.0051	7.5132	0.5661	33.10	2.48	35.52	4.56	199.62	249.84	33.10	2.48
3SPU112-054	0.0283	89.7127	0.0203	90.1847	0.0052	9.2959	0.1022	33.40	3.10	20.38	18.20	0.00	2162.48	33.40	3.10
3SPU112_f-022	0.0549	16.8470	0.0398	17.8594	0.0052	6.0179	0.3319	33.73	2.02	39.61	6.94	409.78	376.78	33.73	2.02
3SPU112_f-147	0.0485	14.2610	0.0351	16.2309	0.0053	7.7780	0.4775	33.78	2.62	35.07	5.59	122.13	335.96	33.78	2.62
3SPU112_f-078	0.0509	10.4465	0.0373	11.2367	0.0053	4.0624	0.3684	34.16	1.38	37.20	4.10	235.66	241.01	34.16	1.38
3SPU112_f-004	0.0524	11.8232	0.0394	13.3241	0.0054	6.0173	0.4612	35.02	2.10	39.26	5.13	304.66	269.37	35.02	2.10
3SPU112_f-137	0.0489	37.1194	0.0369	37.7646	0.0055	6.9248	0.1841	35.10	2.42	36.77	13.64	144.59	870.81	35.10	2.42
3SPU112_f-014	0.0485	13.5366	0.0368	14.6210	0.0055	5.7130	0.3781	35.33	2.01	36.67	5.27	122.71	318.86	35.33	2.01
3SPU112_f-140	0.0482	15.1921	0.0369	15.9511	0.0055	4.8173	0.3048	35.63	1.71	36.80	5.76	111.07	358.62	35.63	1.71
3SPU112_f-034	0.0612	10.9965	0.0478	12.2841	0.0057	5.6945	0.4461	36.35	2.06	47.40	5.69	647.10	236.19	36.35	2.06
3SPU112-086	0.0388	31.9731	0.0304	32.4305	0.0057	5.4338	0.1674	36.41	1.97	30.37	9.70	0.00	770.70	36.41	1.97
3SPU112_f-091	0.0503	10.6830	0.0404	12.0702	0.0058	5.6187	0.4655	37.43	2.10	40.24	4.76	208.70	247.69	37.43	2.10
3SPU112_f-259	0.0529	47.0781	0.0435	47.8434	0.0060	8.5460	0.1781	38.26	3.26	43.22	20.25	325.82	1068.50	38.26	3.26
3SPU112-080	0.0541	11.0941	0.0448	12.3566	0.0060	5.4561	0.4403	38.54	2.10	44.47	5.38	374.94	249.65	38.54	2.10
3SPU112-027	0.0564	17.2620	0.0473	20.5356	0.0061	11.1997	0.5417	39.06	4.36	46.92	9.42	467.84	382.15	39.06	4.36
3SPU112_f-129	0.0542	23.2490	0.0476	26.9813	0.0064	13.7512	0.5075	40.89	5.61	47.21	12.45	379.00	522.80	40.89	5.61
3SPU112_f-083	0.0535	13.7517	0.0493	14.9106	0.0067	5.7152	0.3866	42.92	2.44	48.91	7.12	350.70	310.80	42.92	2.44
3SPU112_f-216	0.0493	7.2594	0.0461	9.2966	0.0068	5.9178	0.6248	43.49	2.56	45.72	4.16	162.55	169.74	43.49	2.56
3SPU112-035	0.0511	17.8552	0.0481	22.5511	0.0068	13.8017	0.6108	43.83	6.03	47.71	10.51	245.26	411.21	43.83	6.03
3SPU112_f-211	0.0487	24.8892	0.0468	28.1936	0.0070	13.2730	0.4698	44.76	5.92	46.45	12.80	133.05	585.14	44.76	5.92
3SPU112_f-189	0.0494	20.1915	0.0477	23.4947	0.0070	12.0164	0.5113	44.89	5.38	47.28	10.86	168.43	471.62	44.89	5.38
3SPU112_f-265	0.0579	12.4426	0.0561	14.5391	0.0070	7.5486	0.5173	45.11	3.39	55.46	7.85	527.04	272.72	45.11	3.39
3SPU112-039	0.0552	16.4272	0.0549	17.7102	0.0072	6.6742	0.3737	46.27	3.08	54.24	9.35	420.17	366.72	46.27	3.08
3SPU112_f-201	0.0502	7.9487	0.0508	10.0198	0.0073	6.1545	0.6088	47.11	2.89	50.34	4.92	205.47	184.40	47.11	2.89
3SPU112_f-139	0.0489	9.5865	0.0512	10.9783	0.0076	5.3157	0.4873	48.67	2.58	50.66	5.43	143.59	224.94	48.67	2.58
3SPU112-096	0.0472	9.8839	0.0494	11.4806	0.0076	5.9361	0.5088	48.75	2.88	49.01	5.49	59.10	235.60	48.75	2.88
3SPU112_f-037	0.0524	19.2866	0.0554	22.5933	0.0077	11.8714	0.5209	49.14	5.81	54.70	12.03	303.26	439.52	49.14	5.81
3SPU112_f-203	0.0524	14.3545	0.0560	18.3275	0.0077	11.4241	0.6217	49.69	5.65	55.31	9.87	304.38	327.06	49.69	5.65
3SPU112_f-114	0.0502	33.3450	0.0575	33.9748	0.0083	6.6362	0.1917	53.26	3.52	56.72	18.75	203.30	773.88	53.26	3.52
3SPU112_f-213	0.0482	12.5573	0.0583	14.8155	0.0088	7.9105	0.5307	56.25	4.43	57.50	8.28	107.90	296.60	56.25	4.43
3SPU112_f-188	0.0554	9.1031	0.0699	11.2958	0.0091	6.6946	0.5921	58.70	3.91	68.62	7.49	428.10	202.93	58.70	3.91
3SPU112_f-020	0.0573	12.1004	0.0723	14.8150	0.0092	8.6106	0.5770	58.73	5.03	70.92	10.15	501.66	266.38	58.73	5.03
3SPU112_f-245	0.0443	25.6804	0.0560	26.5248	0.0092	6.6465	0.2503	58.74	3.89	55.30	14.28	0.00	619.01	58.74	3.89
3SPU112_f-012	0.0466	8.5935	0.0592	9.9468	0.0092	4.8511	0.5038	59.04	2.85	58.40	5.65	29.74	205.97	59.04	2.85
3SPU112_f-063	0.0497	10.4391	0.0684	12.1346	0.0100	6.1549	0.5098	63.99	3.92	67.19	7.89	180.07	243.30	63.99	3.92
3SPU112_f-257	0.0482	20.0226	0.0666	24.1778	0.0100	13.5667	0.5605	64.30	8.68	65.49	15.33	106.79	473.03	64.30	8.68
3SPU112_f-249	0.0428	46.8637	0.0594	48.1278	0.0101	10.9620	0.2277	64.50	7.04	58.55	27.39	0.00	1129.63	64.50	7.04
3SPU112_f-056	0.0505	7.3639	0.0732	10.1638	0.0105	6.9631	0.6893	67.27	4.66	71.71	7.04	220.01	170.38	67.27	4.66
3SPU112_f-155	0.0494	12.5190	0.0719	13.5129	0.0105	5.1057	0.3764	67.60	3.43	70.46	9.20	166.26	292.53	67.60	3.43
3SPU112-001	0.0591	28.0172	0.0930	30.9935	0.0114	13.4255	0.4276	73.06	9.75	90.29	26.78	571.86	609.42	73.06	9.75
3SPU112-040	0.0532	18.9713	0.0847	22.8499	0.0115	12.8321	0.5574	73.91	9.43	82.55	18.12	338.13	429.73	73.91	9.43
3SPU112_f-065	0.0541	12.6433	0.0900	13.6115	0.0120	4.8344	0.3707	77.17	3.71	87.47	11.41	376.40	284.44	77.17	3.71
3SPU112_f-260	0.0529	9.8759	0.0884	11.8014	0.0121	6.4909	0.5474	77.66	5.01	86.02	9.73	322.68	224.27	77.66	5.01
3SPU112-076	0.0493	20.4917	0.0844	25.3404	0.0124	14.8966	0.5883	79.48	11.77	82.32	20.04	163.48	479.06	79.48	11.77
3SPU112-042	0.0540	10.9608	0.0944	13.0951	0.0127	7.3349	0.5473	81.19	5.92	91.60	11.47	369.98	246.87	81.19	5.92
3SPU112_f-162	0.0521	13.0110	0.0916	13.4126	0.0127	3.2666	0.2429	81.62	2.65	88.97	11.43	288.82	297.28	81.62	2.65

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3SPU112, MIDDLE OLIGOCENE, PUNO GROUP, LATITUDE: -15.896460, LONGITUDE: -69.960270 ACCEPTED															
3SPU112_f-052	0.0529	12.2443	0.0939	14.6088	0.0129	7.9234	0.5455	82.42	6.49	91.12	12.73	322.96	278.04	82.42	6.49
3SPU112_f-251	0.0508	9.9830	0.0905	12.8053	0.0129	8.0254	0.6263	82.65	6.59	88.01	10.80	233.71	230.40	82.65	6.59
3SPU112-128	0.0789	20.0876	0.1442	24.5727	0.0133	14.3967	0.5760	84.86	12.14	136.75	31.45	1168.54	397.80	84.86	12.14
3SPU112-065	0.0501	12.4551	0.0923	15.3837	0.0133	9.0546	0.5869	85.44	7.68	89.60	13.19	200.04	289.23	85.44	7.68
3SPU112_f-144	0.0384	35.8581	0.0708	36.4301	0.0134	6.3970	0.1765	85.56	5.44	69.44	24.46	0.00	864.34	85.56	5.44
3SPU112_f-055	0.0752	22.2766	0.1393	26.1479	0.0134	13.6702	0.5236	85.90	11.67	132.39	32.47	1074.20	447.35	85.90	11.67
3SPU112_f-076	0.0499	8.3478	0.0945	10.9470	0.0137	7.0370	0.6469	87.83	6.14	91.73	9.60	192.08	194.13	87.83	6.14
3SPU112-113	0.0527	17.4742	0.1002	21.7761	0.0138	13.1237	0.5968	88.15	11.49	96.96	20.14	317.01	397.23	88.15	11.49
3SPU112_f-227	0.0502	4.5000	0.0967	6.0082	0.0140	3.9929	0.6626	89.34	3.54	93.74	5.38	205.57	104.39	89.34	3.54
3SPU112_f-252	0.0550	12.4989	0.1073	15.0093	0.0141	8.3156	0.5537	90.52	7.47	103.53	14.77	412.62	279.39	90.52	7.47
3SPU112-034	0.0507	17.7633	0.1000	21.3943	0.0143	11.9552	0.5573	91.51	10.86	96.82	19.76	227.34	410.44	91.51	10.86
3SPU112_f-123	0.0514	20.6179	0.1026	25.1993	0.0144	14.5331	0.5749	92.44	13.34	99.13	23.80	260.82	473.49	92.44	13.34
3SPU112-013	0.0495	19.8734	0.1030	24.7181	0.0151	14.8270	0.5946	96.43	14.19	99.51	23.44	172.32	463.85	96.43	14.19
3SPU112_f-198	0.0499	9.6805	0.1055	11.8408	0.0153	6.8112	0.5759	97.97	6.62	101.82	11.47	191.14	225.16	97.97	6.62
3SPU112_f-226	0.0511	5.7797	0.1101	8.1229	0.0156	5.7158	0.7027	99.87	5.66	106.05	8.18	245.78	133.10	99.87	5.66
3SPU112_f-011	0.0524	8.0632	0.1142	9.8137	0.0158	5.4583	0.5702	100.93	5.47	109.82	10.22	304.71	183.70	100.93	5.47
3SPU112-125	0.0544	7.2716	0.1200	11.3479	0.0160	9.1027	0.7685	102.23	9.23	115.10	12.35	388.43	163.24	102.23	9.23
3SPU112-127	0.0522	10.2552	0.1160	13.5144	0.0161	9.1887	0.6519	102.99	9.39	111.44	14.26	294.19	234.09	102.99	9.39
3SPU112-046	0.0493	6.8823	0.1107	7.7398	0.0163	3.8522	0.4591	103.96	3.97	106.60	7.83	163.72	160.89	103.96	3.97
3SPU112-109	0.0659	8.0748	0.1484	11.3687	0.0163	8.2112	0.7042	104.38	8.50	140.53	14.92	802.58	169.12	104.38	8.50
3SPU112_f-231	0.0546	10.6980	0.1270	12.6602	0.0169	6.7663	0.5347	107.77	7.23	121.44	14.49	396.59	239.82	107.77	7.23
3SPU112_f-119	0.0500	5.4434	0.1189	7.1694	0.0172	4.9714	0.6521	110.11	5.43	114.04	7.73	194.58	126.53	110.11	5.43
3SPU112_f-007	0.0560	9.4664	0.1336	16.9565	0.0173	14.0133	0.8297	110.49	15.35	127.31	20.29	451.65	210.16	110.49	15.35
3SPU112-069	0.0526	15.9226	0.1261	19.6332	0.0174	11.5061	0.5850	110.93	12.65	120.57	22.32	313.20	362.21	110.93	12.65
3SPU112_f-143	0.0554	10.9645	0.1349	13.7842	0.0177	8.3278	0.6060	112.80	9.31	128.50	16.64	427.37	244.46	112.80	9.31
3SPU112_f-040	0.0513	6.1304	0.1253	7.4740	0.0177	4.4480	0.5725	113.15	4.99	119.84	8.45	252.41	141.00	113.15	4.99
3SPU112-074	0.0540	17.4593	0.1326	21.4139	0.0178	12.3859	0.5790	113.80	13.97	126.47	25.47	369.68	393.26	113.80	13.97
3SPU112_f-232	0.0523	7.0835	0.1322	8.6766	0.0183	5.0056	0.5775	116.96	5.80	126.10	10.29	300.28	161.51	116.96	5.80
3SPU112-068	0.0663	17.7983	0.1724	21.5392	0.0188	12.1497	0.5632	120.34	14.49	161.46	32.16	815.33	372.02	120.34	14.49
3SPU112_f-050	0.0519	5.8019	0.1375	7.8656	0.0192	5.2431	0.6753	122.47	6.36	130.79	9.65	282.42	132.72	122.47	6.36
3SPU112_f-090	0.0531	8.3473	0.1430	10.2279	0.0195	5.9110	0.5779	124.55	7.29	135.75	13.00	334.03	189.22	124.55	7.29
3SPU112_f-243	0.0642	18.3186	0.1742	22.6460	0.0197	13.3041	0.5879	125.51	16.54	163.06	34.13	748.60	386.99	125.51	16.54
3SPU112_f-079	0.0582	5.7230	0.1598	6.8961	0.0199	3.7645	0.5581	126.99	4.73	150.54	9.65	537.38	125.22	126.99	4.73
3SPU112-050	0.0535	7.0436	0.1550	14.5011	0.0210	12.7348	0.8741	133.95	16.88	146.34	19.76	350.12	159.21	133.95	16.88
3SPU112_f-051	0.0576	9.7330	0.1743	13.4067	0.0219	9.1811	0.6877	139.67	12.69	163.12	20.21	516.43	213.72	139.67	12.69
3SPU112_f-208	0.0544	14.3359	0.1657	18.3978	0.0221	11.5453	0.6268	140.87	16.09	155.69	26.56	386.07	321.97	140.87	16.09
3SPU112-103	0.0610	6.3348	0.1909	7.8889	0.0227	4.9514	0.5968	144.61	7.08	177.39	12.84	637.85	136.27	144.61	7.08
3SPU112_f-262	0.0490	8.6489	0.1553	10.2968	0.0230	5.6225	0.5427	146.34	8.14	146.60	14.06	148.49	202.75	146.34	8.14
3SPU112_f-103	0.0558	12.8501	0.1813	17.8583	0.0235	12.4807	0.6944	149.98	18.50	169.17	27.83	444.44	285.64	149.98	18.50
3SPU112_f-064	0.0535	12.0074	0.1823	16.1067	0.0247	10.6394	0.6665	157.19	16.52	170.02	25.22	350.08	271.40	157.19	16.52
3SPU112_f-181	0.0516	16.1497	0.1777	20.6051	0.0249	12.7978	0.6211	158.85	20.08	166.08	31.58	268.60	370.35	158.85	20.08
3SPU112-063	0.0486	5.0401	0.1687	6.0515	0.0251	3.4161	0.5536	160.06	5.40	158.28	8.87	129.68	118.57	160.06	5.40
3SPU112_f-187	0.0533	8.2564	0.1882	10.5353	0.0256	6.5508	0.6212	162.97	10.54	175.05	16.94	339.70	186.97	162.97	10.54
3SPU112_f-015	0.0535	12.5653	0.2054	15.4970	0.0278	9.1856	0.5853	176.77	16.02	189.68	26.82	351.20	283.96	176.77	16.02
3SPU112_f-177	0.0519	7.5732	0.2012	9.3548	0.0281	5.5140	0.5871	178.54	9.71	186.14	15.91	281.87	173.25	178.54	9.71
3SPU112_f-112	0.0547	5.0928	0.2180	6.4968	0.0289	4.2326	0.6216	183.57	7.66	200.24	11.81	399.07	114.11	183.57	7.66
3SPU112_f-074	0.0501	7.5603	0.2070	9.2527	0.0300	5.2747	0.5765	190.31	9.89	191.05	16.12	197.74	175.64	190.31	9.89
3SPU112_f-118	0.0602	10.4184	0.2602	15.1071	0.0313	11.0737	0.7242	198.70	21.67	234.85	31.69	611.84	225.10	198.70	21.67
3SPU112_f-067	0.0534	5.8717	0.2308	8.6307	0.0313	6.1614	0.7332	198.84	12.06	210.87	16.44	345.13	132.84	198.84	12.06
3SPU112-047	0.0518	21.1854	0.2377	22.4112	0.0332	7.4661	0.3263	210.83	15.49	216.54	43.73	276.92	485.10	210.83	15.49

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3SPU112, MIDDLE OLIGOCENE, PUNO GROUP, LATITUDE: -15.896460, LONGITUDE: -69.960270 ACCEPTED															
3SPU112_f-172	0.0520	11.4017	0.2432	16.8229	0.0339	12.3768	0.7353	214.89	26.16	221.06	33.43	285.33	260.68	214.89	26.16
3SPU112_f-248	0.0535	4.6278	0.2505	6.4944	0.0339	4.5665	0.7016	214.95	9.65	227.02	13.21	352.16	104.56	214.95	9.65
3SPU112_f-094	0.0653	20.3567	0.3158	20.6993	0.0350	3.7551	0.1812	222.03	8.20	278.64	50.48	783.55	427.64	222.03	8.20
3SPU112-043	0.0545	6.3561	0.2643	7.0446	0.0351	3.4185	0.4342	222.53	7.48	238.09	14.95	392.57	142.59	222.53	7.48
3SPU112_f-253	0.0557	5.5512	0.2814	8.6053	0.0366	6.5824	0.7641	231.65	14.98	251.78	19.19	441.79	123.45	231.65	14.98
3SPU112-052	0.0576	10.2129	0.2988	13.4130	0.0376	8.7813	0.6483	237.85	20.51	265.44	31.34	514.53	224.33	237.85	20.51
3SPU112_f-174	0.0552	5.2964	0.2881	6.2535	0.0378	3.3510	0.5317	239.46	7.88	257.09	14.20	419.20	118.26	239.46	7.88
3SPU112_f-066	0.0530	8.2510	0.2835	10.9225	0.0387	7.0124	0.6554	244.91	16.85	253.46	24.50	330.93	187.14	244.91	16.85
3SPU112-030	0.0517	10.6491	0.2775	13.5770	0.0389	8.4927	0.6203	245.77	20.48	248.68	29.96	274.15	243.96	245.77	20.48
3SPU112-008	0.0573	5.5728	0.3152	6.1594	0.0399	3.3906	0.4400	252.21	8.39	278.23	14.99	501.61	122.68	252.21	8.39
3SPU112_f-171	0.0543	8.1837	0.3014	13.7922	0.0403	11.1098	0.8049	254.40	27.71	267.46	32.44	381.45	183.95	254.40	27.71
3SPU112_f-149	0.0513	7.3090	0.2854	10.2606	0.0403	7.2313	0.7018	254.81	18.07	254.94	23.14	254.02	168.06	254.81	18.07
3SPU112-070	0.0516	5.6190	0.2898	7.8511	0.0407	5.5044	0.6984	257.04	13.87	258.44	17.92	269.14	128.85	257.04	13.87
3SPU112_f-190	0.0563	10.0563	0.3258	13.0702	0.0419	8.3440	0.6388	264.64	21.63	286.34	32.62	465.74	222.71	264.64	21.63
3SPU112_f-268	0.0525	2.7753	0.3111	3.6463	0.0429	2.4513	0.6490	270.90	6.50	275.02	8.78	307.76	63.20	270.90	6.50
3SPU112-045	0.0516	11.3494	0.3077	12.1561	0.0432	4.6111	0.3588	272.83	12.32	272.42	29.05	266.83	260.35	272.83	12.32
3SPU112_f-084	0.0661	5.9745	0.4034	8.3617	0.0442	5.8024	0.6996	279.02	15.84	344.10	24.41	808.65	125.01	279.02	15.84
3SPU112_f-058	0.0607	5.6723	0.3759	8.0887	0.0449	5.7150	0.7129	282.97	15.82	324.03	22.44	628.38	122.21	282.97	15.82
3SPU112_f-264	0.0524	7.6317	0.3327	10.5643	0.0460	7.3318	0.6915	289.88	20.78	291.61	26.78	303.20	173.92	289.88	20.78
3SPU112-005	0.0552	12.3972	0.3660	15.5363	0.0481	9.6073	0.6029	302.83	28.42	316.71	42.30	418.54	276.83	302.83	28.42
3SPU112_f-048	0.0532	5.2041	0.3548	6.3953	0.0483	3.8183	0.5814	304.03	11.34	308.36	17.01	338.84	117.87	304.03	11.34
3SPU112_f-043	0.0538	5.3616	0.3591	6.5327	0.0483	3.9287	0.5721	304.19	11.67	311.53	17.53	364.41	120.88	304.19	11.67
3SPU112_f-031	0.0519	3.4832	0.3483	4.3143	0.0486	2.8933	0.5949	305.86	8.64	303.44	11.32	282.44	79.68	305.86	8.64
3SPU112_f-221	0.0542	4.3255	0.3904	5.7224	0.0522	3.8084	0.6548	328.01	12.18	334.67	16.32	379.65	97.26	328.01	12.18
3SPU112_f-185	0.0577	8.9125	0.4164	9.5226	0.0523	3.3670	0.3522	328.32	10.78	353.45	28.43	520.21	195.58	328.32	10.78
3SPU112_f-250	0.0597	5.6216	0.5975	7.5091	0.0725	4.9877	0.6630	451.25	21.74	475.62	28.52	593.13	121.84	451.25	21.74
3SPU112-085	0.0567	7.6013	0.5937	10.6577	0.0759	7.4750	0.7009	471.69	34.00	473.21	40.33	478.38	168.01	471.69	34.00
3SPU112-101	0.0579	11.9675	0.6085	17.1614	0.0761	12.3977	0.7168	472.84	56.52	482.61	66.01	526.86	262.32	472.84	56.52
3SPU112-092	0.0571	8.2534	0.6131	11.9393	0.0778	8.6392	0.7226	483.18	40.22	485.51	46.11	494.18	181.93	483.18	40.22
3SPU112-073	0.0615	6.8332	0.6651	7.7915	0.0784	3.7745	0.4805	486.65	17.69	517.73	31.61	655.41	146.57	486.65	17.69
3SPU112-088	0.0589	3.3107	0.6702	4.8070	0.0824	3.4954	0.7250	510.59	17.16	520.84	19.59	563.80	72.11	510.59	17.16
3SPU112-081	0.0593	3.6608	0.6784	5.0211	0.0829	3.4602	0.6844	513.39	17.08	525.82	20.61	578.07	79.54	513.39	17.08
3SPU112-078	0.0570	4.2969	0.6585	6.1742	0.0836	4.3978	0.7181	517.83	21.88	513.69	24.90	493.25	94.73	517.83	21.88
3SPU112_f-028	0.0595	4.5089	0.6897	6.0516	0.0839	4.2215	0.6677	519.55	21.07	532.64	25.09	586.77	97.83	519.55	21.07
3SPU112-122	0.0606	5.6957	0.7055	6.6314	0.0844	4.0938	0.5211	522.15	20.53	542.09	27.86	625.03	122.79	522.15	20.53
3SPU112-051	0.0450	63.9886	0.5319	64.4410	0.0856	7.7207	0.1183	529.43	39.24	433.10	231.11	0.00	1542.41	529.43	39.24
3SPU112_f-134	0.0583	4.3163	0.6904	6.0458	0.0859	4.1899	0.7003	530.99	21.36	533.05	25.08	539.73	94.40	530.99	21.36
3SPU112-079	0.0565	5.4495	0.6760	6.5848	0.0868	3.6534	0.5614	536.38	18.80	524.37	26.97	470.35	120.59	536.38	18.80
3SPU112-002	0.0611	4.2189	0.7502	5.3100	0.0889	3.8744	0.6175	549.09	20.39	568.35	23.11	644.51	90.66	549.09	20.39
3SPU112_f-127	0.0617	5.7364	0.7574	7.1716	0.0889	4.4886	0.6007	549.21	23.63	572.52	31.39	664.01	122.87	549.21	23.63
3SPU112_f-150	0.0624	6.6973	0.7709	8.8890	0.0896	5.9030	0.6576	552.90	31.28	580.30	39.31	687.03	142.91	552.90	31.28
3SPU112-095	0.0577	6.8760	0.7172	9.7936	0.0900	7.0541	0.7121	555.58	37.55	548.99	41.55	519.36	150.91	555.58	37.55
3SPU112_f-095	0.0598	5.4537	0.7485	7.6032	0.0907	5.3009	0.6968	559.56	28.41	567.35	33.06	596.47	118.13	559.56	28.41
3SPU112-072	0.0599	4.6856	0.7497	6.3597	0.0907	4.3270	0.6762	559.57	23.19	568.04	27.68	600.17	101.43	559.57	23.19
3SPU112-061	0.0701	4.7498	0.8779	8.4550	0.0908	7.0270	0.8273	560.17	37.70	639.83	40.15	930.47	97.50	560.17	37.70
3SPU112_f-247	0.0619	5.7127	0.7776	6.6875	0.0910	3.4900	0.5199	561.56	18.77	584.10	29.71	671.03	122.22	561.56	18.77
3SPU112_f-096	0.0636	5.2714	0.8085	7.9341	0.0921	5.9327	0.7474	568.05	32.26	601.61	36.03	727.95	111.73	568.05	32.26
3SPU112_f-085	0.0590	3.6428	0.7663	4.9727	0.0941	3.3580	0.6807	579.60	18.61	577.65	21.91	567.72	79.29	579.60	18.61
3SPU112-071	0.0616	4.7465	0.8001	9.0371	0.0942	7.7053	0.8510	580.19	42.75	596.89	40.81	658.98	101.75	580.19	42.75
3SPU112_f-098	0.0605	2.9539	0.7947	3.6448	0.0952	2.1432	0.5858	586.29	12.01	593.85	16.39	620.62	63.73	586.29	12.01

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3SPU112, MIDDLE OLIGOCENE, PUNO GROUP, LATITUDE: -15.896460, LONGITUDE: -69.960270 ACCEPTED															
3SPU112_f-195	0.0615	6.1447	0.8153	8.4888	0.0961	5.8483	0.6899	591.68	33.06	605.43	38.73	655.59	131.80	591.68	33.06
3SPU112_f-107	0.0603	4.3817	0.8065	4.7892	0.0969	2.6880	0.4258	595.98	15.30	600.48	21.71	615.26	94.61	595.98	15.30
3SPU112-033	0.0608	7.6545	0.8149	10.1139	0.0971	6.7002	0.6537	597.68	38.25	605.18	46.14	631.38	164.84	597.68	38.25
3SPU112_f-101	0.0602	2.2640	0.8162	2.7088	0.0983	2.0456	0.5772	604.32	11.80	605.93	12.36	609.70	48.93	604.32	11.80
3SPU112_f-019	0.0624	3.2516	0.8753	3.9053	0.1016	2.6048	0.5634	623.66	15.48	638.43	18.51	688.72	69.36	623.66	15.48
3SPU112-083	0.0616	8.0815	0.8873	9.1148	0.1043	4.2346	0.4625	639.69	25.79	644.94	43.54	661.24	173.18	639.69	25.79
3SPU112_f-258	0.0603	2.8989	0.8721	4.0861	0.1047	2.9471	0.7049	641.98	18.01	636.71	19.33	616.10	62.59	641.98	18.01
3SPU112_f-197	0.0636	5.4366	0.9208	7.2761	0.1049	4.8255	0.6646	642.87	29.53	662.78	35.43	729.53	115.20	642.87	29.53
3SPU112_f-010	0.0608	3.5746	0.9034	5.3537	0.1077	3.8494	0.7449	659.18	24.12	653.53	25.81	631.76	76.97	659.18	24.12
3SPU112_f-160	0.0610	3.7921	0.9114	5.4231	0.1083	3.8843	0.7149	662.97	24.47	657.81	26.26	638.21	81.57	662.97	24.47
3SPU112-119	0.0661	5.1849	1.0021	6.9392	0.1098	5.1473	0.6686	671.50	32.82	704.89	35.28	810.84	108.45	671.50	32.82
3SPU112_f-267	0.0628	3.7504	0.9679	5.2890	0.1116	3.7847	0.7052	681.98	24.49	687.39	26.42	702.93	79.82	681.98	24.49
3SPU112_f-167	0.0622	4.4325	0.9856	6.3318	0.1148	4.5270	0.7141	700.68	30.06	696.48	31.92	681.09	94.67	700.68	30.06
3SPU112-041	0.0681	4.9528	1.1342	7.2370	0.1207	5.5050	0.7298	734.77	38.23	769.75	39.07	870.73	102.63	734.77	38.23
3SPU112_f-104	0.0669	6.7285	1.1212	10.1534	0.1214	7.8299	0.7492	738.36	54.63	763.55	54.55	835.83	140.19	738.36	54.63
3SPU112_f-122	0.0647	2.6194	1.1533	3.5889	0.1291	2.7064	0.6869	782.85	19.95	778.80	19.52	765.04	55.19	782.85	19.95
3SPU112-012	0.0657	4.3524	1.1745	6.2052	0.1296	4.7423	0.7145	785.52	35.07	788.76	34.04	796.44	91.25	785.52	35.07
3SPU112_f-194	0.0673	6.5000	1.3129	11.2979	0.1413	9.2354	0.8179	851.89	73.70	851.39	65.21	848.50	135.16	848.50	135.16
3SPU112_f-261	0.0704	8.8625	1.4753	12.6841	0.1519	9.0959	0.7154	911.87	77.35	920.32	76.91	938.65	181.70	938.65	181.70
3SPU112_f-133	0.0714	2.9597	1.5394	3.9539	0.1562	2.8495	0.6654	935.79	24.82	946.25	24.34	968.64	60.41	968.64	60.41
3SPU112-009	0.0717	8.7457	1.6855	12.4364	0.1704	9.0989	0.7112	1014.23	85.40	1003.07	79.42	977.32	178.27	977.32	178.27
3SPU112_f-033	0.0717	9.0812	1.5261	13.1078	0.1541	9.5518	0.7212	923.98	82.23	940.93	80.57	978.62	185.07	978.62	185.07
3SPU112-077	0.0719	7.0650	1.7146	10.3236	0.1727	7.5064	0.7292	1026.88	71.26	1014.02	66.30	984.47	143.82	984.47	143.82
3SPU112_f-115	0.0720	8.0252	1.6904	11.6470	0.1701	8.6136	0.7249	1012.84	80.74	1004.93	74.44	985.61	163.34	985.61	163.34
3SPU112_f-008	0.0722	2.6978	1.7181	4.3296	0.1724	3.1514	0.7842	1025.34	29.87	1015.33	27.80	991.62	54.86	991.62	54.86
3SPU112_f-038	0.0727	4.3995	1.7262	5.7618	0.1720	4.0365	0.6479	1023.18	38.19	1018.35	37.06	1005.80	89.28	1005.80	89.28
3SPU112-015	0.0730	9.4773	1.7001	13.4603	0.1688	9.7529	0.7103	1005.36	90.79	1008.58	86.26	1014.10	192.09	1014.10	192.09
3SPU112-044	0.0734	9.0240	1.7440	13.0262	0.1722	9.5157	0.7212	1024.49	90.14	1024.95	84.26	1024.05	182.63	1024.05	182.63
3SPU112_f-145	0.0735	3.5594	1.8019	4.9380	0.1776	3.4853	0.6932	1053.78	33.88	1046.15	32.26	1028.29	71.99	1028.29	71.99
3SPU112-011	0.0736	10.5394	1.6253	14.5522	0.1601	10.2058	0.6896	957.09	90.78	980.05	91.73	1030.42	213.05	1030.42	213.05
3SPU112-099	0.0737	4.6865	1.6492	6.1595	0.1620	4.1353	0.6493	968.01	37.17	989.23	38.95	1034.35	94.68	1034.35	94.68
3SPU112_f-016	0.0739	3.0318	1.6650	3.4291	0.1633	2.1619	0.4883	975.11	19.56	995.27	21.76	1037.80	61.22	1037.80	61.22
3SPU112-004	0.0742	3.1012	1.7249	4.2465	0.1684	3.6097	0.6995	1003.28	33.54	1017.86	27.30	1047.89	62.52	1047.89	62.52
3SPU112_f-089	0.0746	4.0346	1.7809	5.8548	0.1730	4.2213	0.7247	1028.66	40.14	1038.51	38.09	1057.19	81.23	1057.19	81.23
3SPU112-026	0.0751	3.4707	1.8987	4.8926	0.1832	3.6869	0.7064	1084.17	36.79	1080.62	32.55	1071.74	69.72	1071.74	69.72
3SPU112-019	0.0756	14.8079	1.9530	20.6656	0.1872	14.5449	0.6976	1105.92	147.84	1099.49	139.65	1085.22	296.88	1085.22	296.88
3SPU112_f-071	0.0759	3.6130	1.8062	5.0676	0.1724	3.3741	0.7021	1025.36	31.99	1047.71	33.13	1092.52	72.36	1092.52	72.36
3SPU112_f-047	0.0762	3.7104	2.0002	4.5614	0.1901	2.7933	0.5824	1121.80	28.76	1115.59	30.89	1101.40	74.21	1101.40	74.21
3SPU112-115	0.0766	3.9311	1.8443	5.6956	0.1745	4.7129	0.7301	1037.05	45.15	1061.40	37.52	1109.80	78.53	1109.80	78.53
3SPU112_f-029	0.0768	4.2668	2.0213	6.0728	0.1907	4.4948	0.7121	1125.42	46.42	1122.70	41.28	1115.30	85.16	1115.30	85.16
3SPU112_f-161	0.0768	3.7678	2.1097	5.1222	0.1990	3.4782	0.6774	1170.08	37.22	1151.97	35.30	1116.24	75.19	1116.24	75.19
3SPU112-093	0.0780	3.9131	1.9079	5.4331	0.1772	3.7964	0.6937	1051.82	36.84	1083.86	36.21	1146.70	77.74	1146.70	77.74
3SPU112-037	0.0785	3.2645	1.9982	4.4663	0.1844	3.1679	0.6830	1090.99	31.80	1114.90	30.23	1159.99	64.73	1159.99	64.73
3SPU112_f-045	0.0786	7.0922	2.1058	9.5801	0.1940	6.4994	0.6723	1143.18	68.09	1150.70	66.05	1162.80	140.57	1162.80	140.57
3SPU112_f-169	0.0790	4.0356	2.2397	5.9271	0.2055	4.3467	0.7324	1204.99	47.77	1193.57	41.63	1171.23	79.89	1171.23	79.89
3SPU112_f-068	0.0796	10.5793	2.2396	15.3945	0.2039	11.0914	0.7265	1196.35	121.12	1193.53	108.47	1186.35	208.96	1186.35	208.96
3SPU112-129	0.0801	4.9584	2.1456	6.6842	0.1943	5.2013	0.6780	1144.40	54.54	1163.63	46.33	1198.33	97.77	1198.33	97.77
3SPU112-038	0.0803	4.7278	2.0670	7.0583	0.1864	5.3116	0.7426	1102.10	53.81	1137.93	48.34	1205.09	93.13	1205.09	93.13
3SPU112-100	0.0808	9.9502	2.3421	15.3579	0.2101	11.7752	0.7618	1229.33	131.81	1225.16	109.71	1215.63	195.70	1215.63	195.70
3SPU112_f-041	0.0815	3.3356	2.3521	4.6346	0.2091	3.4437	0.6959	1224.12	38.39	1228.19	33.03	1233.28	65.44	1233.28	65.44

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3SPU112, MIDDLE OLIGOCENE, PUNO GROUP, LATITUDE: -15.896460, LONGITUDE: -69.960270 ACCEPTED															
3SPU112-048	0.0817	5.0294	2.2230	6.8398	0.1972	4.8774	0.6786	1160.39	51.80	1188.31	47.94	1237.70	98.60	1237.70	98.60
3SPU112_f-191	0.0817	1.9812	2.1152	2.6099	0.1876	1.6750	0.6510	1108.51	17.06	1153.77	18.00	1238.30	38.84	1238.30	38.84
3SPU112_f-256	0.0818	2.7468	2.2796	3.8315	0.2018	2.7437	0.6974	1185.20	29.70	1206.00	27.05	1241.70	53.82	1241.70	53.82
3SPU112_f-027	0.0819	3.7224	2.0256	4.2168	0.1791	2.3354	0.4762	1062.30	22.87	1124.14	28.67	1243.59	72.92	1243.59	72.92
3SPU112-067	0.0825	6.1417	2.0499	8.7683	0.1800	6.2945	0.7137	1066.85	61.89	1132.27	59.91	1258.24	120.06	1258.24	120.06
3SPU112-082	0.0836	4.1906	2.0490	6.6077	0.1777	5.1248	0.7732	1054.18	49.84	1131.97	45.12	1282.49	81.64	1282.49	81.64
3SPU112_f-036	0.0840	3.1754	2.4409	4.1188	0.2104	3.0547	0.6443	1231.03	34.23	1254.75	29.68	1293.62	61.76	1293.62	61.76
3SPU112_f-099	0.0841	4.6198	2.4354	6.0804	0.2099	3.9576	0.6502	1228.10	44.25	1253.12	43.79	1294.33	89.85	1294.33	89.85
3SPU112_f-001	0.0852	4.8357	2.4850	6.7679	0.2113	4.5699	0.7001	1235.59	51.39	1267.66	49.04	1320.41	93.70	1320.41	93.70
3SPU112_f-053	0.0861	5.2168	2.5607	8.8008	0.2155	7.0373	0.8054	1257.93	80.43	1289.48	64.35	1340.37	100.80	1340.37	100.80
3SPU112_f-032	0.0872	2.6829	2.3507	4.6604	0.1953	4.0513	0.8192	1150.10	42.67	1227.76	33.21	1364.81	51.67	1364.81	51.67
3SPU112-123	0.0879	4.8259	2.5907	7.9360	0.2136	6.7019	0.7954	1248.20	76.06	1298.02	58.20	1379.82	92.74	1379.82	92.74
3SPU112_f-159	0.0890	2.9663	2.7562	5.6652	0.2244	4.8467	0.8520	1305.00	57.26	1343.77	42.23	1404.30	56.82	1404.30	56.82
3SPU112_f-080	0.0897	8.5489	2.6180	13.3928	0.2116	10.2825	0.7698	1237.14	115.76	1305.71	98.71	1418.20	163.43	1418.20	163.43
3SPU112_f-263	0.0897	3.6690	2.7401	6.5514	0.2214	5.4637	0.8285	1289.46	63.86	1339.39	48.77	1418.22	70.14	1418.22	70.14
3SPU112-118	0.0917	8.6510	2.9169	12.1430	0.2305	8.8225	0.7022	1337.37	106.56	1386.31	92.07	1460.64	164.43	1460.64	164.43
3SPU112_f-102	0.0928	4.0544	3.3190	5.8852	0.2592	4.4911	0.7258	1485.88	59.60	1485.52	45.95	1483.03	76.83	1483.03	76.83
3SPU112_f-046	0.0977	3.7503	3.7614	5.2448	0.2790	3.7691	0.6993	1586.44	53.01	1584.55	42.09	1580.05	70.17	1580.05	70.17
3SPU112-091	0.1060	8.2435	4.3172	12.2347	0.2951	9.0521	0.7389	1666.77	132.97	1696.65	101.20	1731.82	151.27	1731.82	151.27
3SPU112-117	0.1065	3.6901	3.8720	5.6393	0.2634	4.8384	0.7622	1507.30	65.03	1607.86	45.54	1740.43	67.64	1740.43	67.64
3SPU112_f-081	0.1065	14.3211	4.5631	20.8730	0.3103	15.1669	0.7275	1742.19	231.64	1742.56	175.57	1741.08	262.50	1741.08	262.50
3SPU112_f-136	0.1090	5.2056	4.6468	7.5309	0.3090	5.4083	0.7226	1735.61	82.30	1757.72	63.01	1782.30	94.94	1782.30	94.94
3SPU112_f-254	0.1093	8.8994	4.5629	13.0685	0.3025	9.5905	0.7323	1703.58	143.60	1742.52	109.26	1787.98	162.19	1787.98	162.19
3SPU112_f-113	0.1109	4.8353	4.9251	7.0767	0.3219	5.3237	0.7305	1798.94	83.57	1806.56	59.80	1813.49	87.83	1813.49	87.83
3SPU112_f-025	0.1139	5.1234	5.1203	6.5379	0.3258	4.2455	0.6218	1817.80	67.25	1839.48	55.59	1862.17	92.49	1862.17	92.49
3SPU112_f-120	0.1146	2.4499	5.3544	3.4623	0.3386	2.7002	0.7101	1879.75	44.03	1877.59	29.63	1873.36	44.17	1873.36	44.17
3SPU112-084	0.1174	3.4968	5.7627	5.2898	0.3558	3.9896	0.7504	1962.17	67.49	1940.82	45.80	1916.35	62.73	1916.35	62.73
3SPU112_f-131	0.1200	3.9160	4.6968	5.4953	0.2837	4.0137	0.7021	1609.89	57.18	1766.67	46.04	1955.61	69.94	1955.61	69.94
3SPU112-032	0.1275	10.3631	6.3060	15.0385	0.3583	10.9525	0.7247	1974.19	186.30	2019.29	132.55	2064.11	182.75	2064.11	182.75
3SPU112_f-106	0.1285	2.3897	6.9698	2.9951	0.3930	2.5977	0.6432	2136.78	47.25	2107.59	26.60	2077.39	42.08	2077.39	42.08
3SPU112-097	0.1319	3.7742	7.0240	5.5641	0.3858	4.2237	0.7352	2103.50	75.81	2114.47	49.50	2123.24	66.10	2123.24	66.10
3SPU112_f-061	0.1326	4.5424	6.6999	6.4954	0.3660	4.6006	0.7148	2010.52	79.46	2072.61	57.45	2133.05	79.47	2133.05	79.47
3SPU112-087	0.1339	3.1990	7.2670	4.8927	0.3931	3.7116	0.7566	2137.07	67.51	2144.77	43.70	2150.38	55.86	2150.38	55.86
3SPU112_f-269	0.1347	3.5177	7.4997	5.1949	0.4034	3.8766	0.7359	2184.90	71.84	2172.95	46.57	2159.82	61.36	2159.82	61.36
3SPU112_f-200	0.1769	5.8041	11.9558	8.8082	0.4898	6.6755	0.7522	2569.73	141.50	2600.95	82.72	2624.11	96.51	2624.11	96.51
3SPU112-021	0.1852	5.4721	12.7932	8.0829	0.5005	6.1464	0.7364	2615.88	132.18	2664.55	76.27	2700.36	90.33	2700.36	90.33
3SPU112, MIDDLE OLIGOCENE, PUNO GROUP, LATITUDE: -15.896460, LONGITUDE: -69.960270 REJECTED															
3SPU112-104	0.0644	9.2407	0.0401	10.3676	0.0045	5.0474	0.4546	29.01	1.46	39.91	4.06	754.03	195.04	29.01	1.46
3SPU112_f-021	0.0799	9.1608	0.0516	9.7237	0.0047	3.4219	0.3357	30.09	1.03	51.10	4.85	1194.83	180.72	30.09	1.03
3SPU112_f-121	0.0851	8.8114	0.0551	9.5610	0.0047	3.8830	0.3885	30.17	1.17	54.44	5.07	1317.33	170.81	30.17	1.17
3SPU112_f-049	0.0814	9.3772	0.0539	10.9319	0.0048	5.6866	0.5141	30.82	1.75	53.26	5.67	1231.23	184.02	30.82	1.75
3SPU112-098	0.0873	9.8424	0.0584	11.2164	0.0048	5.4826	0.4797	31.17	1.71	57.65	6.29	1367.20	189.48	31.17	1.71
3SPU112_f-158	0.0966	8.8644	0.0666	9.8202	0.0050	4.2488	0.4303	32.15	1.36	65.49	6.23	1558.78	166.32	32.15	1.36
3SPU112_f-230	0.0944	7.2512	0.0670	7.9728	0.0051	3.3067	0.4157	33.07	1.09	65.85	5.08	1516.30	136.81	33.07	1.09
3SPU112_f-042	0.0939	12.5310	0.0746	15.1262	0.0058	8.5605	0.5601	37.00	3.16	73.08	10.67	1506.71	236.73	37.00	3.16
3SPU112_f-246	0.1141	26.3786	0.0972	27.1759	0.0062	6.5417	0.2405	39.67	2.59	94.16	24.44	1865.21	476.05	39.67	2.59
3SPU112_f-215	0.0521	23.6071	0.0473	28.6195	0.0066	16.2195	0.5653	42.27	6.83	46.94	13.13	290.60	539.21	42.27	6.83
3SPU112-112	0.0662	10.7900	0.0657	12.9875	0.0072	7.4586	0.5568	46.19	3.43	64.65	8.13	813.95	225.58	46.19	3.43
3SPU112_f-176	0.0715	9.7672	0.0717	11.5957	0.0073	6.2696	0.5390	46.69	2.92	70.35	7.88	972.35	199.24	46.69	2.92

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3SPU112, MIDDLE OLIGOCENE, PUNO GROUP, LATITUDE: -15.896460, LONGITUDE: -69.960270 REJECTED															
3SPU112_f-225	0.0516	34.0987	0.0713	41.7987	0.0100	24.1764	0.5784	64.22	15.45	69.89	28.24	266.88	782.21	64.22	15.45
3SPU112_f-069	0.0556	32.6897	0.0830	40.6325	0.0108	24.0902	0.5939	69.39	16.63	80.97	31.63	435.19	727.84	69.39	16.63
3SPU112-066	0.1807	7.1267	0.3037	10.3907	0.0122	7.5917	0.7277	78.04	5.89	269.26	24.58	2659.08	118.11	78.04	5.89
3SPU112-006	0.0662	8.0101	0.1169	9.3654	0.0128	5.3068	0.5202	82.04	4.33	112.27	9.95	811.39	167.53	82.04	4.33
3SPU112_f-132	0.0805	11.1765	0.1460	12.6461	0.0131	6.0214	0.4680	84.17	5.04	138.42	16.37	1209.63	220.01	84.17	5.04
3SPU112-014	0.0867	20.5141	0.1664	21.4947	0.0139	6.7048	0.2989	89.04	5.93	156.28	31.14	1353.92	395.65	89.04	5.93
3SPU112_f-192	0.0516	23.0755	0.1105	28.4576	0.0155	16.6516	0.5852	99.31	16.41	106.45	28.77	267.62	529.27	99.31	16.41
3SPU112_f-219	0.0513	25.5981	0.1187	31.5696	0.0168	18.5114	0.5853	107.20	19.68	113.93	34.04	255.23	588.46	107.20	19.68
3SPU112_f-236	0.0543	26.6939	0.1340	33.6619	0.0179	20.4862	0.6092	114.34	23.22	127.71	40.42	382.63	599.88	114.34	23.22
3SPU112_f-024	0.0520	29.7572	0.1318	36.9370	0.0184	21.9074	0.5924	117.28	25.46	125.70	43.70	285.48	680.32	117.28	25.46
3SPU112_f-179	0.0759	15.7884	0.2021	18.0679	0.0193	8.7988	0.4862	123.15	10.73	186.93	30.86	1093.67	316.14	123.15	10.73
3SPU112-062	0.0534	21.6392	0.1475	27.0401	0.0200	16.2284	0.5996	127.72	20.52	139.72	35.31	346.89	489.39	127.72	20.52
3SPU112_f-035	0.3155	16.6881	0.9543	17.2807	0.0219	4.7520	0.2601	139.73	6.57	680.32	85.88	3548.07	257.00	139.73	6.57
3SPU112-060	0.0522	21.8076	0.1714	27.0684	0.0238	16.0492	0.5924	151.54	24.04	160.64	40.24	294.86	497.72	151.54	24.04
3SPU112-064	0.0538	21.8147	0.1795	27.3091	0.0242	16.4428	0.6016	154.11	25.04	167.62	42.22	360.97	492.12	154.11	25.04
3SPU112-107	0.1066	18.9119	0.3644	22.1284	0.0248	11.6355	0.5193	157.70	18.13	315.47	60.08	1741.92	346.61	157.70	18.13
3SPU112_f-210	0.0527	24.6863	0.1947	30.7355	0.0268	18.3309	0.5957	170.36	30.82	180.64	50.91	315.79	561.30	170.36	30.82
3SPU112_f-082	0.4938	5.2181	2.0881	7.8869	0.0306	5.8669	0.7499	194.54	11.24	1144.89	54.20	4222.71	76.98	194.54	11.24
3SPU112_f-117	0.0515	19.4824	0.2270	26.3231	0.0319	17.7845	0.6725	202.65	35.48	207.74	49.49	263.53	447.19	202.65	35.48
3SPU112_f-005	0.0543	35.6101	0.2447	46.9114	0.0327	30.5134	0.6510	207.21	62.22	222.30	93.92	382.71	800.23	207.21	62.22
3SPU112_f-017	0.0985	5.8430	0.5203	6.9817	0.0383	4.0878	0.5486	242.15	9.71	425.35	24.27	1595.52	109.11	242.15	9.71
3SPU112-029	0.0539	20.7408	0.3189	28.2190	0.0429	19.1790	0.6781	270.62	50.83	281.03	69.38	366.58	467.43	270.62	50.83
3SPU112-105	0.4689	11.0514	3.5272	13.0727	0.0545	7.2209	0.5345	342.08	24.06	1533.34	103.78	4146.27	163.84	342.08	24.06
3SPU112-020	0.1092	20.0215	0.9428	20.6168	0.0625	5.1554	0.2388	391.10	19.56	674.36	101.93	1786.75	364.94	391.10	19.56
3SPU112_f-026	0.6742	8.0945	7.1389	17.2863	0.0767	15.3240	0.8836	476.51	70.39	2128.91	155.15	4676.59	116.89	476.51	70.39
3SPU112-024	0.7947	8.5105	8.8701	11.6303	0.0809	8.0762	0.6817	501.39	38.96	2324.73	106.52	4912.28	121.93	501.39	38.96
3SPU112_f-108	0.0653	24.2309	0.7866	34.5439	0.0872	24.6907	0.7127	539.12	127.72	589.23	155.63	785.09	508.90	539.12	127.72
3SPU112_f-148	0.7928	6.3809	10.5464	18.0078	0.0964	16.8523	0.9351	593.21	95.51	2484.01	168.54	4908.86	91.43	593.21	95.51
3SPU112-055	0.0669	5.5647	0.9259	7.8548	0.1003	5.7026	0.7061	616.42	33.52	665.46	38.36	833.47	115.98	616.42	33.52
3SPU112_f-128	0.0586	4.8719	0.8453	6.8441	0.1046	4.9728	0.7027	641.13	30.35	622.07	31.84	551.12	106.35	641.13	30.35
3SPU112_f-214	0.0592	9.6141	0.8776	13.1720	0.1074	9.0755	0.6836	657.77	56.75	639.67	62.59	574.72	209.02	657.77	56.75
3SPU112_f-142	0.0685	5.9545	1.0367	7.0370	0.1097	3.6922	0.5330	670.97	23.53	722.28	36.39	883.06	123.15	670.97	23.53
3SPU112-059	0.0813	3.3555	1.2406	4.6615	0.1106	3.5011	0.6963	676.38	22.48	819.15	26.21	1227.79	65.88	676.38	22.48
3SPU112_f-186	0.8066	6.7133	12.4173	9.0981	0.1116	6.1478	0.6749	681.82	39.78	2636.49	85.70	4933.45	96.12	681.82	39.78
3SPU112_f-205	0.0880	8.8373	1.4061	11.3282	0.1158	7.1107	0.6256	706.26	47.57	891.51	67.32	1382.74	169.76	706.26	47.57
3SPU112-022	0.0701	4.0625	1.1267	4.8153	0.1164	3.0120	0.5431	709.98	20.25	766.20	25.91	932.14	83.37	709.98	20.25
3SPU112_f-105	0.7843	6.4341	12.8143	8.2821	0.1184	5.5392	0.6308	721.18	37.79	2666.09	78.16	4893.53	92.23	721.18	37.79
3SPU112-058	0.6708	6.3650	11.0228	8.4058	0.1191	5.6508	0.6534	725.27	38.76	2525.06	78.41	4669.33	91.94	725.27	38.76
3SPU112_f-057	0.0839	7.6483	1.3874	11.4899	0.1197	8.5399	0.7463	729.12	58.88	883.59	67.90	1291.17	148.81	729.12	58.88
3SPU112-110	0.0719	3.7938	1.2235	5.1552	0.1233	3.9450	0.6822	749.62	27.92	811.39	28.81	982.64	77.25	749.62	27.92
3SPU112-003	0.0720	20.9655	1.5876	30.0214	0.1598	21.5950	0.7158	955.59	191.85	965.35	189.19	986.10	426.69	986.10	426.69
3SPU112-057	0.0728	15.1230	1.6455	21.7013	0.1638	15.6215	0.7172	978.06	141.78	987.81	137.90	1007.75	306.80	1007.75	306.80
3SPU112-056	0.0743	4.6584	1.4096	6.2576	0.1375	4.3868	0.6685	830.28	34.18	892.99	37.19	1049.86	93.89	1049.86	93.89
3SPU112_f-054	0.0759	3.4516	1.5183	4.8940	0.1449	3.3649	0.7093	872.34	27.45	937.79	29.97	1092.76	69.12	1092.76	69.12
3SPU112_f-086	0.0788	17.4666	2.0454	23.7611	0.1879	16.1036	0.6780	1110.22	164.27	1130.76	163.44	1168.34	345.90	1168.34	345.90
3SPU112_f-224	0.0813	8.3869	1.5574	15.4543	0.1388	12.9842	0.8399	838.13	102.05	953.42	95.84	1228.52	164.65	1228.52	164.65
3SPU112_f-009	0.0845	18.8909	2.3752	24.8101	0.2036	16.0356	0.6483	1194.61	174.90	1235.18	179.12	1304.58	366.86	1304.58	366.86
3SPU112_f-092	0.0860	6.0145	1.9941	7.5413	0.1679	4.5501	0.6033	1000.55	42.17	1113.52	51.04	1339.25	116.24	1339.25	116.24
3SPU112_f-003	0.0884	6.6025	2.0732	8.6018	0.1699	5.3724	0.6412	1011.68	50.30	1139.98	58.99	1391.03	126.69	1391.03	126.69
3SPU112_f-238	0.0949	4.2078	2.4821	6.9222	0.1895	5.4163	0.7941	1118.52	55.62	1266.83	50.14	1526.87	79.28	1526.87	79.28

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3SPU112, MIDDLE OLIGOCENE, PUNO GROUP, LATITUDE: -15.896460, LONGITUDE: -69.960270 REJECTED															
3SPU112_f-088	0.0971	3.6934	2.6944	5.9560	0.2010	4.6530	0.7845	1180.87	50.21	1326.92	44.13	1569.24	69.21	1569.24	69.21
3SPU112-089	0.0972	3.9311	2.6371	9.2327	0.1966	8.3583	0.9048	1156.90	88.52	1311.04	68.07	1570.96	73.64	1570.96	73.64
3SPU112_f-233	0.1001	8.3483	2.5454	11.7311	0.1842	8.2385	0.7025	1089.88	82.61	1285.11	85.72	1626.84	155.27	1626.84	155.27
3SPU112-075	0.1110	15.7173	2.7850	25.7762	0.1817	20.4221	0.7926	1076.43	202.52	1351.53	194.94	1816.62	285.39	1816.62	285.39
3SPU112_f-178	0.1217	12.9010	4.1517	15.3001	0.2471	8.2401	0.5376	1423.66	105.27	1664.55	125.84	1981.91	229.72	1981.91	229.72
3SPU112_f-166	0.1367	3.4966	5.2199	4.9226	0.2767	3.4719	0.7039	1574.54	48.50	1855.87	41.97	2186.04	60.81	2186.04	60.81
3SPU112-018	0.1420	7.4670	5.8278	8.4149	0.2974	4.3375	0.4640	1678.56	64.10	1950.55	73.06	2251.70	128.99	2251.70	128.99
3SPU112_f-060	0.1716	6.6950	6.4929	8.4967	0.2742	5.1941	0.6158	1562.08	72.06	2044.93	74.90	2572.92	111.88	2572.92	111.88
3SPU112_f-240	0.7426	18.0821	21.2080	18.9934	0.2070	5.7437	0.3061	1212.62	63.49	3148.15	186.23	4815.50	259.85	4815.50	259.85
3SPU112_f-173	0.7513	10.0246	29.7721	14.0915	0.2872	9.9123	0.7028	1627.36	142.58	3479.32	139.30	4832.07	143.98	4832.07	143.98
3SPU112_f-196	0.7876	6.3010	22.7613	9.0417	0.2094	6.4768	0.7172	1225.80	72.30	3216.79	88.16	4899.53	90.31	4899.53	90.31
3SPU112_f-255	0.7923	5.8977	21.4423	8.2193	0.1961	5.7590	0.6965	1154.43	60.87	3158.81	79.90	4907.90	84.51	4907.90	84.51
3SPU112_f-202	0.7973	6.3972	19.1081	8.6733	0.1737	5.9133	0.6753	1032.41	56.41	3047.29	83.88	4916.93	91.64	4916.93	91.64
3SPU112_f-223	0.7981	5.3641	20.4939	7.1854	0.1861	4.8296	0.6654	1100.28	48.85	3114.96	69.67	4918.30	76.83	4918.30	76.83
3SPU112_f-220	0.7996	6.4826	30.5994	9.9544	0.2774	7.5851	0.7589	1578.07	106.18	3506.26	98.18	4920.97	92.85	4920.97	92.85
3SPU112_f-175	0.8054	6.2977	20.5866	8.8782	0.1852	6.2775	0.7049	1095.44	63.24	3119.33	86.18	4931.35	90.17	4931.35	90.17
3SPU112_f-193	0.8072	6.0730	45.5684	10.0884	0.4091	8.0507	0.7985	2210.84	150.70	3900.01	100.56	4934.53	86.95	4934.53	86.95
3SPU112_f-165	0.8077	8.9125	17.5148	12.3533	0.1571	8.5569	0.6924	940.81	74.91	2963.46	119.20	4935.40	127.60	4935.40	127.60
3SPU112_f-228	0.8117	10.5010	16.8354	14.5785	0.1503	10.1171	0.6937	902.71	85.23	2925.51	140.62	4942.48	150.31	4942.48	150.31
3SPU112_f-125	0.8217	9.2709	16.0086	12.9124	0.1412	9.0775	0.6961	851.20	72.39	2877.31	124.01	4959.82	132.63	4959.82	132.63
3SPU112_f-100	0.8254	6.0051	18.9350	8.6019	0.1662	6.3170	0.7162	991.13	58.04	3038.51	83.15	4966.28	85.90	4966.28	85.90
3SPU112_f-154	0.8287	6.2253	27.9885	9.2407	0.2447	6.8433	0.7390	1411.18	86.74	3418.69	90.83	4971.91	89.03	4971.91	89.03
3SPU112_f-234	0.8297	7.2541	16.9350	14.6833	0.1479	12.7643	0.8694	889.28	106.04	2931.16	141.69	4973.67	103.74	4973.67	103.74
3SPU112_f-070	0.8421	7.0599	20.0950	10.8167	0.1729	8.1189	0.7577	1028.01	77.15	3095.94	105.00	4994.67	100.90	4994.67	100.90
3SPU112-031	0.8584	9.2782	19.6798	12.3299	0.1661	8.1936	0.6586	990.76	75.25	3075.76	119.69	5021.81	132.51	5021.81	132.51
3SPU112-031	0.8584	9.2782	19.6798	12.3299	0.1661	8.1936	0.6586	990.76	75.25	3075.76	119.69	5021.81	132.51	5021.81	132.51
1NAC1.2, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975111, LONGITUDE: -69.680352 ACCEPTED															
1NAC1_2-130	0.0547	43.2815	0.0419	43.6835	0.0056	5.9588	0.1354	35.69	2.12	41.72	17.86	401.78	969.35	35.69	2.12
1NAC1_2-324	0.0276	154.8458	0.0234	155.3458	0.0062	12.4498	0.0802	39.56	4.91	23.53	36.15	0.00	3732.48	39.56	4.91
1NAC1_2-393	0.0478	27.0552	0.0443	27.5610	0.0067	5.2218	0.1907	43.13	2.24	44.00	11.87	88.96	641.30	43.13	2.24
1NAC1_2-366	0.0607	38.9792	0.0581	40.9204	0.0069	12.5076	0.3043	44.56	5.55	57.37	22.83	628.35	839.84	44.56	5.55
1NAC1_2-384	0.0690	18.7968	0.0665	19.9662	0.0070	6.7390	0.3372	44.82	3.01	65.37	12.64	899.54	387.78	44.82	3.01
1NAC1_2-341	0.0423	93.5376	0.0425	93.9053	0.0073	8.3346	0.0884	46.76	3.88	42.28	38.91	0.00	2254.68	46.76	3.88
1NAC1_2-333	0.0497	56.5006	0.0506	56.6816	0.0074	4.5800	0.0799	47.34	2.16	50.09	27.71	181.20	1316.57	47.34	2.16
1NAC1_2-244	0.0491	30.8473	0.0507	32.2582	0.0075	9.5795	0.2925	48.04	4.58	50.21	15.80	154.65	722.34	48.04	4.58
1NAC1_2-133	0.0570	14.5210	0.0591	17.6508	0.0075	10.0618	0.5685	48.26	4.84	58.32	10.00	491.71	320.22	48.26	4.84
1NAC1_2-379	0.0531	8.4536	0.0562	9.4633	0.0077	4.2634	0.4495	49.19	2.09	55.49	5.11	333.50	191.65	49.19	2.09
1NAC1_2-087	0.0737	35.9764	0.0780	37.3196	0.0077	10.1002	0.2659	49.22	4.95	76.22	27.41	1033.55	726.91	49.22	4.95
1NAC1_2-347	0.0579	15.5576	0.0615	18.6653	0.0077	10.3385	0.5525	49.42	5.09	60.58	10.98	524.71	341.13	49.42	5.09
1NAC1_2-115	0.0508	26.6882	0.0556	27.2410	0.0079	5.5178	0.2005	50.97	2.80	54.95	14.57	229.92	616.36	50.97	2.80
1NAC1_2-057	0.0695	38.4519	0.0772	39.2079	0.0081	7.9460	0.1956	51.72	4.09	75.50	28.53	912.48	791.50	51.72	4.09
1NAC1_2-219	-0.0293	340.8641	-0.0369	341.0116	0.0091	10.1006	0.0294	58.53	5.89	0.00	0.00	0.00	8216.36	58.53	5.89
1NAC1_2-363	0.0539	12.0636	0.0730	15.0015	0.0098	8.9275	0.5944	63.00	5.60	71.59	10.37	365.57	271.92	63.00	5.60
1NAC1_2-108	0.0546	15.4571	0.0743	16.1121	0.0099	4.5646	0.2822	63.26	2.87	72.77	11.32	395.69	346.55	63.26	2.87
1NAC1_2-076	0.0483	8.8189	0.0699	9.9355	0.0105	5.0701	0.4630	67.24	3.39	68.63	6.59	115.71	208.00	67.24	3.39
1NAC1_2-104	0.0686	22.2368	0.0998	22.8592	0.0105	5.3129	0.2318	67.60	3.57	96.56	21.06	886.08	459.69	67.60	3.57
1NAC1_2-254	0.0658	11.4633	0.0970	12.4810	0.0107	5.4406	0.3974	68.58	3.71	94.03	11.21	799.76	240.19	68.58	3.71
1NAC1_2-015	0.0532	9.2806	0.0800	12.3272	0.0109	8.0335	0.6582	69.82	5.58	78.17	9.27	339.31	210.18	69.82	5.58
1NAC1_2-248	0.0678	26.6033	0.1022	27.1824	0.0109	5.8204	0.2055	70.08	4.06	98.84	25.61	863.50	551.88	70.08	4.06

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1NAC1.2, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975111, LONGITUDE: -69.680352 ACCEPTED															
1NAC1_2-114	0.0544	15.9577	0.0825	18.3484	0.0110	9.0735	0.4936	70.40	6.35	80.45	14.19	387.95	358.27	70.40	6.35
1NAC1_2-013	0.0541	6.0654	0.0843	6.8131	0.0113	3.0297	0.4556	72.41	2.18	82.14	5.38	373.25	136.53	72.41	2.18
1NAC1_2-047	0.0520	21.0627	0.0831	22.3945	0.0116	7.7884	0.3398	74.24	5.75	81.09	17.46	287.06	481.40	74.24	5.75
1NAC1_2-240	0.0703	15.8064	0.1131	17.9814	0.0117	8.7568	0.4768	74.73	6.51	108.78	18.55	938.08	324.10	74.73	6.51
1NAC1_2-042	0.0526	10.2513	0.0857	14.6978	0.0118	10.5115	0.7166	75.73	7.91	83.46	11.78	309.89	233.34	75.73	7.91
1NAC1_2-369	0.0499	4.7106	0.0822	5.9295	0.0119	3.7827	0.6081	76.39	2.87	80.22	4.57	192.42	109.54	76.39	2.87
1NAC1_2-325	0.0503	9.8769	0.0829	13.5204	0.0119	9.2040	0.6829	76.49	7.00	80.87	10.51	209.95	228.94	76.49	7.00
1NAC1_2-077	0.0731	80.1112	0.1206	81.2844	0.0120	13.9325	0.1693	76.69	10.62	115.66	89.08	1015.86	1623.29	76.69	10.62
1NAC1_2-141	0.0631	13.6221	0.1053	14.3433	0.0121	4.6401	0.3133	77.55	3.58	101.67	13.88	710.07	289.57	77.55	3.58
1NAC1_2-103	0.0490	9.4700	0.0839	10.3595	0.0124	4.3937	0.4058	79.38	3.47	81.76	8.14	149.92	221.94	79.38	3.47
1NAC1_2-386	0.0507	13.3130	0.0869	16.2912	0.0124	9.3707	0.5764	79.62	7.42	84.63	13.23	225.04	307.74	79.62	7.42
1NAC1_2-019	0.0672	12.5610	0.1177	13.3290	0.0127	4.3118	0.3347	81.23	3.48	112.95	14.25	845.32	261.32	81.23	3.48
1NAC1_2-102	0.0500	13.6730	0.0881	15.2801	0.0128	6.9425	0.4465	81.70	5.64	85.70	12.56	196.75	317.71	81.70	5.64
1NAC1_2-112	0.0620	9.9266	0.1099	11.6548	0.0128	6.1326	0.5240	82.24	5.01	105.85	11.72	674.51	212.25	82.24	5.01
1NAC1_2-119	0.0522	7.6980	0.0951	8.8735	0.0132	4.4845	0.4974	84.55	3.77	92.22	7.82	293.19	175.75	84.55	3.77
1NAC1_2-093	0.0479	8.3057	0.0910	9.1042	0.0138	3.9720	0.4104	88.12	3.48	88.43	7.71	94.96	196.65	88.12	3.48
1NAC1_2-392	0.0610	28.1593	0.1174	28.6199	0.0139	5.0789	0.1787	89.24	4.50	112.73	30.55	639.77	605.57	89.24	4.50
1NAC1_2-072	0.0478	9.0772	0.0920	10.3043	0.0140	5.4889	0.4766	89.40	4.87	89.38	8.82	87.69	215.21	89.40	4.87
1NAC1_2-238	0.0618	6.1502	0.1240	7.9392	0.0146	5.3916	0.6340	93.16	4.99	118.72	8.90	667.11	131.66	93.16	4.99
1NAC1_2-026	0.0488	10.7161	0.0990	15.5440	0.0147	11.1220	0.7244	94.15	10.40	95.87	14.22	137.31	251.74	94.15	10.40
1NAC1_2-192	0.0547	19.1662	0.1115	19.9351	0.0148	6.4621	0.2788	94.46	6.06	107.30	20.30	401.71	429.26	94.46	6.06
1NAC1_2-196	0.0718	22.5470	0.1481	22.7889	0.0150	5.1673	0.1599	95.67	4.91	140.27	29.87	981.12	459.22	95.67	4.91
1NAC1_2-206	0.0493	4.5962	0.1025	6.5338	0.0151	4.5084	0.7111	96.44	4.32	99.12	6.17	163.58	107.45	96.44	4.32
1NAC1_2-052	0.0509	6.2249	0.1068	7.8135	0.0152	5.2427	0.6077	97.31	5.06	103.07	7.66	237.54	143.56	97.31	5.06
1NAC1_2-284	0.0504	4.5487	0.1071	6.4941	0.0154	4.5912	0.7138	98.60	4.49	103.28	6.38	211.71	105.40	98.60	4.49
1NAC1_2-217	0.0506	10.9842	0.1117	12.2495	0.0160	5.5545	0.4428	102.43	5.64	107.54	12.50	221.96	254.05	102.43	5.64
1NAC1_2-298	0.0482	13.6328	0.1071	15.2383	0.0161	6.7580	0.4468	103.10	6.91	103.30	14.97	106.70	322.08	103.10	6.91
1NAC1_2-360	0.0695	21.9200	0.1621	22.7785	0.0169	6.2097	0.2720	107.94	6.65	152.57	32.28	915.02	451.03	107.94	6.65
1NAC1_2-312	0.0576	6.7031	0.1475	8.0307	0.0185	4.3478	0.5508	118.47	5.10	139.70	10.48	515.87	147.20	118.47	5.10
1NAC1_2-317	0.0497	7.7979	0.1328	9.7849	0.0194	5.9593	0.6041	123.72	7.30	126.60	11.65	179.02	181.78	123.72	7.30
1NAC1_2-372	0.0501	12.8633	0.1563	13.8012	0.0226	4.9908	0.3623	144.06	7.11	147.45	18.94	199.01	298.77	144.06	7.11
1NAC1_2-071	0.0548	12.6985	0.1738	17.6837	0.0230	12.5622	0.6961	146.46	18.19	162.70	26.59	404.85	284.25	146.46	18.19
1NAC1_2-218	0.0558	13.8823	0.1775	14.9641	0.0231	5.7149	0.3734	147.17	8.32	165.94	22.91	442.49	308.69	147.17	8.32
1NAC1_2-199	0.0526	8.0154	0.1687	11.0791	0.0232	8.6158	0.6953	148.13	12.62	158.29	16.24	312.06	182.37	148.13	12.62
1NAC1_2-067	0.0440	21.0467	0.1446	22.1403	0.0238	7.1012	0.3106	151.74	10.65	137.13	28.41	0.00	507.32	151.74	10.65
1NAC1_2-127	0.0582	3.6796	0.1921	4.9058	0.0239	3.3851	0.6620	152.38	5.10	178.43	8.03	537.09	80.51	152.38	5.10
1NAC1_2-058	0.0554	13.7026	0.2006	14.7994	0.0263	5.9743	0.3786	167.11	9.86	185.67	25.12	427.82	305.48	167.11	9.86
1NAC1_2-261	0.0524	9.7732	0.1904	11.2322	0.0263	5.9128	0.4939	167.63	9.78	176.96	18.24	303.20	222.72	167.63	9.78
1NAC1_2-258	0.0505	10.5570	0.1892	12.5495	0.0272	7.1604	0.5415	172.88	12.21	175.91	20.27	216.48	244.42	172.88	12.21
1NAC1_2-275	0.0530	6.6771	0.2147	8.7069	0.0293	5.7814	0.6422	186.46	10.63	197.46	15.63	330.49	151.45	186.46	10.63
1NAC1_2-014	0.0709	12.6505	0.3154	14.0847	0.0322	6.0870	0.4397	204.46	12.25	278.40	34.31	955.39	258.71	204.46	12.25
1NAC1_2-106	0.0522	6.4795	0.2468	7.1561	0.0342	3.0634	0.4245	217.00	6.54	224.00	14.39	296.07	147.85	217.00	6.54
1NAC1_2-161	0.0593	5.8430	0.3030	7.5957	0.0370	4.7382	0.6391	234.32	10.90	268.75	17.94	578.98	126.94	234.32	10.90
1NAC1_2-045	0.0703	7.5657	0.3593	9.9712	0.0370	6.7058	0.6517	234.44	15.44	311.68	26.77	937.96	155.13	234.44	15.44
1NAC1_2-338	0.0553	8.8495	0.2871	11.3938	0.0376	7.2226	0.6299	238.00	16.88	256.26	25.81	424.25	197.41	238.00	16.88
1NAC1_2-383	0.0551	6.8145	0.2878	8.7400	0.0378	5.4805	0.6262	239.35	12.88	256.86	19.84	416.78	152.22	239.35	12.88
1NAC1_2-169	0.0512	4.6007	0.2803	6.8334	0.0396	5.0562	0.7394	250.56	12.43	250.86	15.19	251.94	105.82	250.56	12.43
1NAC1_2-089	0.0576	4.8209	0.3169	6.0454	0.0399	4.1072	0.6076	252.21	10.16	279.48	14.77	512.83	105.92	252.21	10.16
1NAC1_2-274	0.0633	4.7851	0.3502	6.2105	0.0401	4.2273	0.6388	253.48	10.51	304.89	16.36	719.04	101.57	253.48	10.51
1NAC1_2-389	0.0557	8.4989	0.3091	11.1248	0.0402	7.1535	0.6453	254.00	17.82	273.47	26.68	440.68	189.05	254.00	17.82

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1NAC1.2, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975111, LONGITUDE: -69.680352 ACCEPTED															
1NAC1_2-171	0.0544	3.5975	0.3096	5.0856	0.0412	4.3180	0.7187	260.36	11.02	273.85	12.21	389.22	80.75	260.36	11.02
1NAC1_2-154	0.0555	3.9418	0.3162	4.9766	0.0412	3.2940	0.6124	260.56	8.41	278.95	12.14	434.29	87.78	260.56	8.41
1NAC1_2-309	0.0568	8.6994	0.3246	12.6130	0.0414	9.0978	0.7241	261.67	23.33	285.40	31.39	483.02	192.13	261.67	23.33
1NAC1_2-205	0.0755	7.6955	0.4354	13.2267	0.0418	10.6997	0.8133	264.07	27.68	366.98	40.76	1081.77	154.36	264.07	27.68
1NAC1_2-390	0.0554	2.9808	0.3203	4.3518	0.0419	3.1139	0.7287	264.32	8.06	282.13	10.72	429.48	66.43	264.32	8.06
1NAC1_2-098	0.0562	4.9733	0.3265	6.4534	0.0421	4.4140	0.6389	265.68	11.49	286.91	16.13	461.73	110.22	265.68	11.49
1NAC1_2-003	0.0546	2.6992	0.3222	3.6618	0.0427	2.4075	0.6760	269.84	6.36	283.61	9.06	395.29	60.52	269.84	6.36
1NAC1_2-282	0.0519	3.8574	0.3124	5.9205	0.0436	4.5774	0.7588	275.27	12.34	276.07	14.31	282.10	88.24	275.27	12.34
1NAC1_2-311	0.0562	6.5563	0.3469	7.7817	0.0447	4.1125	0.5387	281.93	11.34	302.38	20.35	461.61	145.30	281.93	11.34
1NAC1_2-350	0.0534	8.5450	0.3588	11.9073	0.0486	8.3122	0.6964	306.09	24.85	311.30	31.93	347.55	193.23	306.09	24.85
1NAC1_2-178	0.0559	6.4857	0.3754	7.6609	0.0487	4.6017	0.5361	306.49	13.77	323.65	21.23	447.54	144.09	306.49	13.77
1NAC1_2-140	0.0622	7.0305	0.4252	12.1453	0.0496	9.9721	0.8154	311.79	30.35	359.78	36.81	680.21	150.18	311.79	30.35
1NAC1_2-091	0.0642	5.1050	0.4410	10.6879	0.0497	9.4892	0.8786	312.94	28.99	370.95	33.22	749.77	107.82	312.94	28.99
1NAC1_2-266	0.0668	7.4253	0.4933	10.1824	0.0535	7.0436	0.6843	336.25	23.08	407.15	34.17	831.65	154.80	336.25	23.08
1NAC1_2-025	0.0545	3.0480	0.4114	4.5240	0.0548	2.8449	0.7486	343.70	9.52	349.88	13.39	389.78	68.41	343.70	9.52
1NAC1_2-234	0.0572	4.9497	0.4962	6.4652	0.0629	4.3298	0.6438	393.21	16.52	409.14	21.77	499.80	109.00	393.21	16.52
1NAC1_2-124	0.0736	10.4728	0.7204	12.8453	0.0710	7.5002	0.5791	441.96	32.04	550.88	54.67	1029.21	211.74	441.96	32.04
1NAC1_2-088	0.0657	4.4035	0.6515	6.1356	0.0719	4.6710	0.6991	447.37	20.19	509.41	24.58	797.03	92.31	447.37	20.19
1NAC1_2-136	0.0591	8.3744	0.5864	11.2811	0.0719	7.6128	0.6700	447.73	32.93	468.53	42.36	569.78	182.22	447.73	32.93
1NAC1_2-220	0.0553	4.7036	0.5523	6.3188	0.0725	4.2822	0.6678	451.13	18.66	446.53	22.83	422.61	104.96	451.13	18.66
1NAC1_2-310	0.0664	7.2774	0.6654	9.1834	0.0726	5.5423	0.6100	452.09	24.20	517.93	37.27	818.51	152.03	452.09	24.20
1NAC1_2-083	0.0602	3.5028	0.6044	4.5293	0.0727	3.5866	0.6497	452.64	15.68	480.03	17.33	611.56	75.68	452.64	15.68
1NAC1_2-211	0.0699	6.2462	0.7022	9.0586	0.0728	6.4651	0.7243	453.01	28.28	540.13	37.96	926.80	128.29	453.01	28.28
1NAC1_2-197	0.0654	8.1963	0.6846	11.4532	0.0759	8.9291	0.7027	471.71	40.62	529.56	47.29	786.34	172.11	471.71	40.62
1NAC1_2-116	0.0630	4.3594	0.6626	8.0309	0.0762	6.7913	0.8399	473.18	30.98	516.17	32.51	709.35	92.68	473.18	30.98
1NAC1_2-179	0.0578	4.0879	0.6079	5.7181	0.0763	4.5317	0.7047	473.94	20.71	482.24	21.95	520.50	89.70	473.94	20.71
1NAC1_2-080	0.0631	3.9189	0.6673	4.7348	0.0766	3.4176	0.5791	476.05	15.68	519.09	19.24	711.91	83.28	476.05	15.68
1NAC1_2-208	0.0577	9.3476	0.6130	11.2274	0.0771	6.1186	0.5540	478.57	28.22	485.45	43.35	517.59	205.22	478.57	28.22
1NAC1_2-084	0.0560	5.2504	0.6008	7.1868	0.0777	5.3575	0.6855	482.34	24.90	477.71	27.39	454.03	116.52	482.34	24.90
1NAC1_2-374	0.0574	12.2360	0.6190	17.5880	0.0781	12.6374	0.7183	484.96	59.04	489.25	68.39	506.32	269.15	484.96	59.04
1NAC1_2-394	0.0612	5.7331	0.6738	6.5952	0.0797	3.2903	0.4943	494.32	15.66	523.04	26.96	647.74	123.13	494.32	15.66
1NAC1_2-290	0.0571	5.9752	0.6286	8.5385	0.0797	6.0627	0.7144	494.58	28.86	495.21	33.48	497.32	131.64	494.58	28.86
1NAC1_2-268	0.0588	6.4093	0.6475	9.4726	0.0798	7.0511	0.7364	495.06	33.60	506.91	37.82	560.35	139.69	495.06	33.60
1NAC1_2-355	0.0588	4.7219	0.6514	6.0810	0.0802	3.9026	0.6302	497.20	18.67	509.35	24.36	561.38	102.89	497.20	18.67
1NAC1_2-004	0.0577	3.3672	0.6415	4.6559	0.0806	3.1644	0.6907	499.52	15.21	503.23	18.48	516.92	73.93	499.52	15.21
1NAC1_2-346	0.0594	6.1723	0.6670	8.7441	0.0813	6.2364	0.7083	504.01	30.24	518.87	35.54	582.06	134.03	504.01	30.24
1NAC1_2-235	0.0685	7.1910	0.7850	8.2978	0.0831	4.5833	0.5016	514.86	22.68	588.35	37.07	882.87	148.73	514.86	22.68
1NAC1_2-245	0.0591	9.4360	0.6797	13.2514	0.0834	9.4495	0.7022	516.14	46.87	526.60	54.50	572.04	205.24	516.14	46.87
1NAC1_2-143	0.0681	4.8195	0.7857	6.3521	0.0836	4.2994	0.6519	517.29	21.37	588.70	28.39	872.73	99.84	517.29	21.37
1NAC1_2-173	0.0607	8.8676	0.7014	12.6530	0.0837	9.3374	0.7137	518.26	46.50	539.61	53.01	629.40	191.03	518.26	46.50
1NAC1_2-183	0.0660	6.5885	0.7664	8.6044	0.0842	5.9310	0.6447	521.24	29.70	577.71	37.93	805.27	137.93	521.24	29.70
1NAC1_2-216	0.0623	12.2183	0.7285	13.7380	0.0848	6.3954	0.4572	524.86	32.24	555.66	58.86	683.61	260.86	524.86	32.24
1NAC1_2-177	0.0603	6.3797	0.7071	7.7842	0.0850	4.9440	0.5760	525.85	24.97	543.00	32.75	614.21	137.78	525.85	24.97
1NAC1_2-371	0.0641	4.5845	0.7549	5.7599	0.0852	3.4726	0.6054	527.25	17.58	571.04	25.16	746.47	96.88	527.25	17.58
1NAC1_2-144	0.0649	6.6850	0.7645	8.2309	0.0854	4.9416	0.5836	528.28	25.06	576.63	36.23	770.14	140.74	528.28	25.06
1NAC1_2-006	0.0644	8.2086	0.7616	8.7774	0.0857	3.0554	0.3542	530.11	15.55	574.94	38.55	753.47	173.27	530.11	15.55
1NAC1_2-194	0.0607	5.8709	0.7204	6.4134	0.0860	4.7325	0.4787	531.95	24.16	550.90	27.27	628.97	126.48	531.95	24.16
1NAC1_2-069	0.0562	9.2136	0.6707	10.7861	0.0864	5.8864	0.5205	534.41	30.19	521.13	43.99	462.18	204.17	534.41	30.19
1NAC1_2-247	0.0601	6.0093	0.7166	8.4785	0.0865	6.2052	0.7059	534.57	31.83	548.66	35.95	607.40	129.93	534.57	31.83
1NAC1_2-222	0.0615	5.5281	0.7377	6.4225	0.0870	3.3500	0.5092	537.91	17.29	561.04	27.69	655.73	118.57	537.91	17.29

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1NAC1.2, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975111, LONGITUDE: -69.680352 ACCEPTED															
1NAC1_2-223	0.0587	11.4894	0.7059	16.2995	0.0871	11.5845	0.7093	538.55	59.86	542.28	68.59	557.72	250.51	538.55	59.86
1NAC1_2-059	0.0577	4.5125	0.6936	6.1821	0.0872	4.7209	0.6877	538.97	24.41	534.98	25.71	517.05	99.08	538.97	24.41
1NAC1_2-120	0.0588	2.8295	0.7086	3.9681	0.0874	2.8936	0.7016	539.90	14.99	543.94	16.71	558.84	61.68	539.90	14.99
1NAC1_2-152	0.0625	8.5368	0.7552	10.8065	0.0876	6.7198	0.6132	541.18	34.88	571.23	47.25	690.87	182.04	541.18	34.88
1NAC1_2-090	0.0563	6.5913	0.6835	9.1921	0.0879	6.5516	0.6972	543.31	34.14	528.90	37.91	465.55	145.98	543.31	34.14
1NAC1_2-263	0.0605	4.3577	0.7340	5.5627	0.0880	4.0334	0.6289	543.55	21.02	558.91	23.91	621.61	94.00	543.55	21.02
1NAC1_2-388	0.0623	7.0514	0.7580	9.8017	0.0881	6.7818	0.6946	544.02	35.38	572.85	42.94	686.11	150.48	544.02	35.38
1NAC1_2-376	0.0636	5.2034	0.7755	7.9148	0.0883	5.9711	0.7535	545.72	31.24	582.91	35.12	727.63	110.30	545.72	31.24
1NAC1_2-373	0.0643	7.1141	0.7962	10.2292	0.0897	7.3434	0.7186	553.61	38.96	594.68	46.07	751.67	150.21	553.61	38.96
1NAC1_2-361	0.0603	4.0129	0.7535	5.8089	0.0905	4.2222	0.7230	558.75	22.60	570.27	25.35	613.51	86.68	558.75	22.60
1NAC1_2-400	0.0580	5.4988	0.7276	7.8770	0.0908	5.6577	0.7160	560.34	30.36	555.12	33.70	531.20	120.44	560.34	30.36
1NAC1_2-397	0.0669	6.0815	0.8385	7.3328	0.0909	4.1212	0.5587	560.59	22.13	618.34	33.97	833.31	126.76	560.59	22.13
1NAC1_2-085	0.0594	3.8276	0.7462	5.1306	0.0910	3.9032	0.6718	561.54	20.99	566.04	22.27	582.67	83.11	561.54	20.99
1NAC1_2-344	0.0599	7.3401	0.7557	10.4323	0.0913	7.4490	0.7106	563.45	40.19	571.52	45.62	601.02	158.88	563.45	40.19
1NAC1_2-109	0.0619	3.7079	0.7879	4.7877	0.0922	3.0548	0.6326	568.56	16.62	589.97	21.43	671.30	79.32	568.56	16.62
1NAC1_2-340	0.0602	5.0811	0.7676	7.1176	0.0923	5.0379	0.7003	569.12	27.44	578.36	31.39	612.30	109.77	569.12	27.44
1NAC1_2-305	0.0612	6.6041	0.7804	8.6054	0.0925	5.4590	0.6412	570.29	29.79	585.73	38.32	644.61	141.91	570.29	29.79
1NAC1_2-232	0.0620	4.7552	0.7916	5.5906	0.0926	3.1767	0.5274	571.13	17.36	592.05	25.09	672.85	101.70	571.13	17.36
1NAC1_2-262	0.0606	11.5807	0.7799	16.2442	0.0933	11.5791	0.7013	575.12	63.71	585.42	72.39	625.26	249.65	575.12	63.71
1NAC1_2-079	0.0583	7.6086	0.7633	8.3856	0.0949	4.1463	0.4259	584.26	23.16	575.91	36.87	541.70	166.35	584.26	23.16
1NAC1_2-165	0.0618	4.3708	0.8119	6.3219	0.0952	4.5714	0.7225	586.19	25.61	603.52	28.77	667.56	93.56	586.19	25.61
1NAC1_2-239	0.0633	5.8514	0.8349	7.7612	0.0956	5.4644	0.6585	588.74	30.75	616.32	35.87	718.80	124.21	588.74	30.75
1NAC1_2-319	0.0609	2.7543	0.8097	4.3974	0.0964	3.5109	0.7798	593.10	19.89	602.26	19.98	635.05	59.28	593.10	19.89
1NAC1_2-094	0.0614	7.9855	0.8178	11.2345	0.0965	8.0632	0.7035	593.68	45.73	606.81	51.36	654.45	171.31	593.68	45.73
1NAC1_2-243	0.0621	4.9206	0.8277	6.6363	0.0967	4.7982	0.6729	595.03	27.27	612.35	30.53	676.75	105.17	595.03	27.27
1NAC1_2-370	0.0601	5.0848	0.8044	7.2460	0.0969	5.0483	0.7126	596.10	28.74	599.30	32.81	608.39	109.92	596.10	28.74
1NAC1_2-030	0.0622	2.4803	0.8450	3.8634	0.0985	2.7688	0.7684	605.73	16.01	621.92	17.97	680.19	52.98	605.73	16.01
1NAC1_2-035	0.0597	4.6645	0.8247	6.4566	0.1002	4.1393	0.6934	615.30	24.29	610.69	29.64	592.77	101.10	615.30	24.29
1NAC1_2-353	0.0613	6.5649	0.8509	7.5060	0.1005	3.6833	0.4848	617.32	21.68	625.13	35.05	650.67	140.92	617.32	21.68
1NAC1_2-159	0.0611	3.1829	0.8498	4.3794	0.1008	3.2666	0.6892	619.19	19.29	624.53	20.43	642.19	68.42	619.19	19.29
1NAC1_2-342	0.0606	3.9683	0.8524	5.5271	0.1019	3.9166	0.6962	625.78	23.36	625.94	25.83	623.88	85.57	625.78	23.36
1NAC1_2-297	0.0614	10.5887	0.8650	15.8412	0.1021	11.7535	0.7438	626.52	70.18	632.87	74.74	654.66	227.15	626.52	70.18
1NAC1_2-156	0.0628	3.7667	0.8885	5.1752	0.1025	3.7705	0.6870	629.11	22.60	645.55	24.73	701.74	80.18	629.11	22.60
1NAC1_2-359	0.0616	5.5568	0.8767	8.0631	0.1030	5.8893	0.7246	632.01	35.46	639.21	38.26	661.83	119.06	632.01	35.46
1NAC1_2-291	0.0629	5.7810	0.8942	9.0145	0.1031	6.8845	0.7673	632.30	41.46	648.63	43.24	705.06	122.99	632.30	41.46
1NAC1_2-074	0.0622	5.7984	0.8875	7.2385	0.1035	4.8517	0.6024	634.83	29.33	645.03	34.57	679.65	123.87	634.83	29.33
1NAC1_2-086	0.0626	7.9798	0.8965	11.2308	0.1038	8.1250	0.7039	636.83	49.27	649.85	53.96	693.83	170.08	636.83	49.27
1NAC1_2-054	0.0603	4.7473	0.8644	6.6032	0.1040	5.1234	0.6993	637.77	31.11	632.50	31.09	612.84	102.55	637.77	31.11
1NAC1_2-055	0.0604	5.9282	0.8774	7.4021	0.1054	4.9070	0.6019	645.78	30.15	639.57	35.14	616.77	127.98	645.78	30.15
1NAC1_2-337	0.0619	7.5519	0.9118	11.1019	0.1067	8.1781	0.7330	653.29	50.81	658.00	53.81	671.71	161.55	653.29	50.81
1NAC1_2-001	0.0653	7.4998	0.9664	11.2333	0.1072	8.3435	0.7445	656.61	52.09	686.58	56.11	782.62	157.57	656.61	52.09
1NAC1_2-357	0.0617	4.8300	0.9238	7.1740	0.1085	5.3559	0.7394	664.17	33.80	664.37	34.99	662.16	103.48	664.17	33.80
1NAC1_2-387	0.0630	5.5993	0.9539	7.7624	0.1097	5.3428	0.6926	670.92	34.04	680.11	38.50	707.76	119.07	670.92	34.04
1NAC1_2-181	0.0650	5.1714	0.9902	7.4482	0.1105	5.7692	0.7216	675.57	37.00	698.83	37.65	773.10	108.82	675.57	37.00
1NAC1_2-378	0.0644	4.3011	0.9869	7.1589	0.1110	5.7303	0.7994	678.31	36.89	697.15	36.12	755.44	90.76	678.31	36.89
1NAC1_2-215	0.0658	9.4609	1.0114	13.0666	0.1115	9.0929	0.6898	681.20	58.78	709.59	66.81	800.16	198.22	681.20	58.78
1NAC1_2-081	0.0638	5.0252	1.0042	8.4027	0.1140	7.0691	0.8024	696.09	46.64	705.93	42.77	735.98	106.38	696.09	46.64
1NAC1_2-343	0.0662	6.9828	1.0581	9.0454	0.1159	5.7964	0.6357	706.65	38.80	732.88	47.25	811.37	146.05	706.65	38.80
1NAC1_2-296	0.0662	6.5701	1.1314	9.5755	0.1240	6.9170	0.7275	753.37	49.18	768.42	51.66	811.49	137.41	753.37	49.18
1NAC1_2-186	0.0699	8.6686	1.2038	16.8046	0.1249	14.7576	0.8569	758.42	105.60	802.36	93.47	925.19	178.09	758.42	105.60

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1NAC1.2, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975111, LONGITUDE: -69.680352 ACCEPTED															
1NAC1_2-214	0.0655	4.4315	1.2216	6.1670	0.1353	4.4551	0.6959	817.76	34.22	810.51	34.45	790.33	92.99	790.33	92.99
1NAC1_2-398	0.0703	4.4632	1.2713	6.0396	0.1311	4.0934	0.6737	793.96	30.58	832.99	34.34	936.10	91.54	793.96	30.58
1NAC1_2-329	0.0648	6.1884	1.1727	8.1133	0.1311	5.1955	0.6467	794.41	38.83	787.91	44.49	767.41	130.34	794.41	38.83
1NAC1_2-002	0.0682	6.0031	1.4756	8.5374	0.1566	6.0435	0.7110	938.12	52.76	920.43	51.72	875.00	124.31	875.00	124.31
1NAC1_2-321	0.0694	8.4500	1.3332	13.3481	0.1393	10.3292	0.7741	840.60	81.41	860.29	77.60	909.51	174.06	909.51	174.06
1NAC1_2-209	0.0708	5.0382	1.6130	6.8321	0.1651	4.4782	0.6757	985.02	40.91	975.27	42.85	952.96	103.07	952.96	103.07
1NAC1_2-147	0.0713	4.4332	1.4594	5.8095	0.1484	4.0634	0.6483	891.85	33.85	913.75	35.02	965.22	90.53	965.22	90.53
1NAC1_2-285	0.0714	3.4540	1.3878	6.3559	0.1409	5.2974	0.8395	849.54	42.17	883.76	37.53	969.78	70.49	969.78	70.49
1NAC1_2-184	0.0717	6.0212	1.5274	8.5243	0.1544	6.8519	0.7136	925.81	59.09	941.47	52.35	977.11	122.74	977.11	122.74
1NAC1_2-041	0.0723	4.4178	1.5263	7.8563	0.1530	6.4621	0.8269	917.67	55.28	941.03	48.23	995.37	89.79	995.37	89.79
1NAC1_2-273	0.0724	5.2647	1.5944	7.1071	0.1598	4.9946	0.6725	955.62	44.36	968.02	44.38	995.81	106.99	995.81	106.99
1NAC1_2-110	0.0725	4.4241	1.6247	6.4476	0.1623	4.7234	0.7275	969.73	42.53	979.80	40.55	1000.57	89.85	1000.57	89.85
1NAC1_2-253	0.0725	10.5189	1.3649	14.2088	0.1365	9.7214	0.6724	824.75	75.26	873.98	83.46	1000.64	213.62	1000.64	213.62
1NAC1_2-227	0.0726	10.1856	1.6324	14.3530	0.1630	10.1388	0.7046	973.17	91.59	982.79	90.62	1004.14	206.75	1004.14	206.75
1NAC1_2-335	0.0728	4.1511	1.5956	5.7607	0.1588	4.0762	0.6935	950.11	36.01	968.49	35.97	1008.16	84.21	1008.16	84.21
1NAC1_2-034	0.0728	8.2881	1.6587	12.3752	0.1651	9.0364	0.7427	985.30	82.57	992.88	78.55	1008.87	168.11	1008.87	168.11
1NAC1_2-134	0.0729	6.0259	1.4230	8.1189	0.1415	5.5160	0.6702	852.90	44.07	898.62	48.45	1010.92	122.19	1010.92	122.19
1NAC1_2-149	0.0730	5.5542	1.6452	8.0132	0.1633	5.9814	0.7212	974.82	54.11	987.70	50.65	1014.67	112.56	1014.67	112.56
1NAC1_2-260	0.0734	3.3389	1.5954	4.1343	0.1575	3.2030	0.6118	943.14	28.10	968.40	25.81	1025.92	67.56	1025.92	67.56
1NAC1_2-073	0.0734	9.6377	1.8314	13.4438	0.1808	9.7055	0.6976	1071.09	95.78	1056.77	88.52	1026.13	194.99	1026.13	194.99
1NAC1_2-204	0.0736	4.6113	1.7991	6.1055	0.1771	4.7542	0.6652	1051.34	46.12	1045.13	39.87	1031.71	93.20	1031.71	93.20
1NAC1_2-395	0.0737	3.9929	1.5810	5.5154	0.1554	3.8309	0.6899	931.10	33.21	962.76	34.32	1033.26	80.68	1033.26	80.68
1NAC1_2-065	0.0738	6.3321	1.7894	8.9455	0.1757	6.5671	0.7069	1043.28	63.26	1041.59	58.33	1037.03	127.87	1037.03	127.87
1NAC1_2-280	0.0738	3.0090	1.7402	5.5497	0.1709	4.7461	0.8404	1016.90	44.65	1023.55	35.80	1037.25	60.76	1037.25	60.76
1NAC1_2-139	0.0739	7.8847	1.7668	11.5459	0.1733	8.4829	0.7305	1030.47	80.79	1033.33	75.00	1037.54	159.22	1037.54	159.22
1NAC1_2-316	0.0739	5.4974	1.6140	7.3521	0.1583	4.9403	0.6640	947.41	43.53	975.66	46.12	1038.12	111.00	1038.12	111.00
1NAC1_2-018	0.0740	5.3300	1.6685	7.3243	0.1634	4.8933	0.6861	975.61	44.30	996.60	46.53	1041.45	107.57	1041.45	107.57
1NAC1_2-326	0.0740	4.5825	1.7262	6.5497	0.1690	4.6220	0.7145	1006.69	43.08	1018.33	42.13	1041.47	92.48	1041.47	92.48
1NAC1_2-122	0.0741	4.5810	1.5299	9.2201	0.1497	8.0411	0.8678	899.06	67.48	942.45	56.67	1043.36	92.42	1043.36	92.42
1NAC1_2-226	0.0744	5.4963	1.8034	7.8517	0.1758	5.6545	0.7142	1044.21	54.51	1046.69	51.33	1051.63	110.75	1051.63	110.75
1NAC1_2-382	0.0744	4.4712	1.6317	7.4315	0.1588	5.9432	0.7988	950.14	52.51	982.53	46.82	1052.87	90.08	1052.87	90.08
1NAC1_2-365	0.0746	8.1151	1.6902	10.8211	0.1642	7.2514	0.6616	980.01	65.93	1004.85	69.14	1056.61	163.40	1056.61	163.40
1NAC1_2-150	0.0747	6.0205	1.7565	8.4534	0.1705	6.0387	0.7021	1014.63	56.69	1029.57	54.75	1059.73	121.16	1059.73	121.16
1NAC1_2-207	0.0748	3.5747	1.8377	5.4115	0.1782	3.9072	0.7513	1056.91	38.09	1059.02	35.60	1062.94	71.91	1062.94	71.91
1NAC1_2-304	0.0748	3.1821	1.7614	5.1582	0.1707	3.9803	0.7872	1015.89	37.41	1031.35	33.42	1062.95	64.01	1062.95	64.01
1NAC1_2-043	0.0757	5.8680	1.8909	8.5358	0.1810	6.1630	0.7262	1072.33	60.88	1077.89	56.75	1088.41	117.59	1088.41	117.59
1NAC1_2-368	0.0758	5.2533	1.5545	6.8457	0.1485	4.5394	0.6415	892.53	37.84	952.30	42.32	1090.28	105.24	1090.28	105.24
1NAC1_2-182	0.0762	4.7654	1.7996	6.2789	0.1712	4.6115	0.6559	1018.80	43.46	1045.31	41.00	1099.96	95.33	1099.96	95.33
1NAC1_2-061	0.0762	5.4389	2.1713	7.8486	0.2065	5.9344	0.7218	1210.12	65.48	1171.90	54.62	1101.02	108.79	1101.02	108.79
1NAC1_2-270	0.0766	5.3719	1.8777	6.6341	0.1777	4.1601	0.5881	1054.50	40.47	1073.26	43.98	1111.17	107.28	1111.17	107.28
1NAC1_2-082	0.0767	4.1190	2.0688	5.9397	0.1954	4.7889	0.7250	1150.51	50.46	1138.54	40.68	1114.45	82.22	1114.45	82.22
1NAC1_2-328	0.0769	11.3978	1.8549	16.4895	0.1749	11.8936	0.7226	1038.85	114.13	1065.19	109.20	1117.51	227.42	1117.51	227.42
1NAC1_2-307	0.0772	4.6930	2.0670	7.2318	0.1940	5.4438	0.7609	1143.25	57.03	1137.95	49.53	1126.45	93.51	1126.45	93.51
1NAC1_2-105	0.0772	11.7420	1.8168	16.3928	0.1705	11.4459	0.6978	1014.94	107.50	1051.54	107.76	1126.57	233.97	1126.57	233.97
1NAC1_2-053	0.0774	8.8307	1.9922	12.6196	0.1867	9.2982	0.7147	1103.38	94.30	1112.86	85.51	1130.62	175.85	1130.62	175.85
1NAC1_2-327	0.0774	5.7470	1.9008	8.8601	0.1780	6.7035	0.7611	1056.00	65.30	1081.36	59.02	1130.85	114.44	1130.85	114.44
1NAC1_2-367	0.0776	4.7399	1.9450	6.8613	0.1816	5.0941	0.7233	1075.74	50.47	1096.72	46.04	1135.83	94.32	1135.83	94.32
1NAC1_2-044	0.0779	5.6638	1.9318	9.6908	0.1798	8.0384	0.8116	1065.66	78.96	1092.15	64.92	1144.63	112.55	1144.63	112.55
1NAC1_2-269	0.0781	7.7494	1.7567	10.9250	0.1631	7.7697	0.7049	974.01	70.24	1029.64	70.80	1149.41	153.89	1149.41	153.89
1NAC1_2-349	0.0783	5.8797	2.0303	8.7845	0.1879	6.5673	0.7430	1109.84	66.96	1125.71	59.83	1153.89	116.69	1153.89	116.69

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1NAC1.2, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975111, LONGITUDE: -69.680352 ACCEPTED															
1NAC1_2-375	0.0783	11.4616	2.0577	17.0016	0.1903	12.5607	0.7386	1123.05	129.48	1134.86	116.68	1154.75	227.43	1154.75	227.43
1NAC1_2-155	0.0784	4.8145	2.0696	7.0028	0.1914	5.2424	0.7265	1128.99	54.29	1138.79	47.98	1155.87	95.52	1155.87	95.52
1NAC1_2-138	0.0790	8.2170	2.0553	12.1110	0.1886	8.9431	0.7346	1113.58	91.47	1134.06	82.91	1171.66	162.65	1171.66	162.65
1NAC1_2-315	0.0795	14.7709	2.3094	21.1641	0.2104	15.1762	0.7162	1230.86	170.09	1215.17	151.07	1185.77	291.77	1185.77	291.77
1NAC1_2-252	0.0797	5.1156	2.1904	7.1906	0.1994	5.3664	0.7040	1172.10	57.51	1177.98	50.17	1188.60	101.01	1188.60	101.01
1NAC1_2-259	0.0797	6.4417	2.1104	9.3588	0.1919	7.1640	0.7265	1131.71	74.36	1152.20	64.56	1190.70	127.15	1190.70	127.15
1NAC1_2-142	0.0798	5.4301	2.0335	7.9440	0.1847	5.9147	0.7301	1092.53	59.44	1126.78	54.12	1191.65	107.17	1191.65	107.17
1NAC1_2-351	0.0798	3.1690	1.8512	4.2937	0.1680	2.9527	0.6749	1001.05	27.38	1063.87	28.31	1192.44	62.54	1192.44	62.54
1NAC1_2-121	0.0799	11.1656	1.9564	16.0339	0.1773	11.5346	0.7177	1052.29	112.00	1100.65	108.14	1195.70	220.24	1195.70	220.24
1NAC1_2-279	0.0802	3.4718	1.9578	6.5054	0.1770	5.6977	0.8462	1050.73	55.25	1101.11	43.75	1201.54	68.42	1201.54	68.42
1NAC1_2-230	0.0802	4.9810	1.9725	6.9592	0.1784	5.0068	0.6987	1058.15	48.86	1106.15	46.92	1201.57	98.17	1201.57	98.17
1NAC1_2-302	0.0805	4.5250	2.0988	6.7839	0.1889	5.0214	0.7451	1115.61	51.44	1148.42	46.69	1209.64	89.07	1209.64	89.07
1NAC1_2-255	0.0813	3.3344	1.9062	4.4008	0.1701	3.6716	0.6724	1012.58	34.41	1083.27	29.32	1228.10	65.46	1228.10	65.46
1NAC1_2-162	0.0813	5.3796	2.0485	6.8461	0.1825	4.1018	0.6188	1080.84	40.82	1131.81	46.74	1229.41	105.59	1229.41	105.59
1NAC1_2-345	0.0816	3.0121	2.1472	4.3870	0.1907	3.2719	0.7273	1125.09	33.78	1164.16	30.40	1235.12	59.08	1235.12	59.08
1NAC1_2-264	0.0816	9.6956	2.2294	13.7503	0.1980	9.9690	0.7093	1164.68	106.23	1190.33	96.68	1236.90	190.11	1236.90	190.11
1NAC1_2-118	0.0817	4.1343	2.1494	5.3345	0.1906	3.4635	0.6322	1124.47	35.74	1164.87	36.98	1238.95	81.04	1238.95	81.04
1NAC1_2-356	0.0821	4.7714	2.2690	7.1134	0.2002	5.3276	0.7417	1176.54	57.30	1202.69	50.17	1247.33	93.42	1247.33	93.42
1NAC1_2-163	0.0822	5.9414	1.9742	9.3744	0.1741	7.1745	0.7735	1034.50	68.57	1106.76	63.26	1250.14	116.28	1250.14	116.28
1NAC1_2-362	0.0825	3.1120	2.4947	4.8310	0.2189	3.7203	0.7649	1276.03	43.07	1270.48	35.03	1258.40	60.83	1258.40	60.83
1NAC1_2-299	0.0828	2.9304	2.0585	5.6488	0.1803	4.7583	0.8550	1068.74	46.86	1135.13	38.62	1263.46	57.24	1263.46	57.24
1NAC1_2-303	0.0828	5.2412	2.3075	8.3848	0.2020	6.5194	0.7806	1185.84	70.62	1214.59	59.46	1264.76	102.36	1264.76	102.36
1NAC1_2-193	0.0829	11.9567	1.9508	17.5663	0.1706	13.3157	0.7330	1015.19	125.09	1098.71	118.45	1267.12	233.43	1267.12	233.43
1NAC1_2-078	0.0831	7.6237	2.5572	12.3178	0.2231	9.9182	0.7857	1298.18	116.63	1288.50	90.15	1271.18	148.75	1271.18	148.75
1NAC1_2-017	0.0840	9.8116	2.0851	14.1985	0.1798	10.1999	0.7228	1065.76	100.20	1143.90	97.74	1293.63	190.83	1293.63	190.83
1NAC1_2-246	0.0845	3.8790	2.5454	5.7192	0.2185	4.5159	0.7367	1273.80	52.20	1285.11	41.72	1303.88	75.34	1303.88	75.34
1NAC1_2-200	0.0853	9.5155	2.5060	14.0635	0.2129	10.6690	0.7367	1244.29	120.74	1273.77	102.41	1323.00	184.31	1323.00	184.31
1NAC1_2-189	0.0854	7.5314	2.7423	10.8648	0.2327	8.4771	0.7230	1348.45	103.15	1340.01	81.01	1325.49	145.83	1325.49	145.83
1NAC1_2-212	0.0859	2.9706	2.7032	4.7381	0.2281	3.5184	0.7799	1324.55	42.13	1329.32	35.13	1336.69	57.43	1336.69	57.43
1NAC1_2-191	0.0861	6.9697	2.5304	10.2319	0.2131	8.2347	0.7354	1245.06	93.24	1280.83	74.60	1340.35	134.67	1340.35	134.67
1NAC1_2-005	0.0867	4.9269	2.6069	7.0295	0.2177	4.9813	0.7133	1269.86	57.42	1302.58	51.63	1354.15	95.02	1354.15	95.02
1NAC1_2-031	0.0872	6.6129	2.8183	9.7612	0.2343	7.1023	0.7356	1357.14	86.92	1360.42	73.28	1364.76	127.35	1364.76	127.35
1NAC1_2-198	0.0893	6.4913	3.0019	8.8092	0.2436	7.1553	0.6875	1405.38	90.36	1408.10	67.19	1411.32	124.21	1411.32	124.21
1NAC1_2-010	0.0895	3.1620	2.6616	4.9697	0.2155	3.7584	0.7716	1257.86	42.95	1317.88	36.70	1414.63	60.48	1414.63	60.48
1NAC1_2-131	0.0896	6.2935	2.5603	11.3564	0.2071	9.4820	0.8324	1213.44	104.89	1289.37	83.11	1416.37	120.34	1416.37	120.34
1NAC1_2-020	0.0920	2.6048	3.1190	4.1789	0.2456	3.0638	0.7836	1415.71	38.94	1437.39	32.14	1468.19	49.46	1468.19	49.46
1NAC1_2-175	0.0924	4.2413	2.8216	6.5885	0.2214	5.4745	0.7678	1289.22	63.97	1361.30	49.43	1475.08	80.46	1475.08	80.46
1NAC1_2-237	0.0929	2.4219	3.0477	3.1446	0.2378	2.8081	0.6743	1375.26	34.78	1419.65	24.05	1486.71	45.87	1486.71	45.87
1NAC1_2-016	0.0935	8.4720	3.3919	12.6861	0.2628	9.3740	0.7443	1504.09	125.77	1502.51	99.80	1498.65	160.22	1498.65	160.22
1NAC1_2-352	0.0940	4.3577	3.1752	6.0261	0.2447	4.2011	0.6907	1411.25	53.25	1451.16	46.57	1507.61	82.31	1507.61	82.31
1NAC1_2-039	0.0944	3.7763	3.2381	5.5112	0.2486	3.6492	0.7317	1431.22	46.84	1466.33	42.78	1516.85	71.24	1516.85	71.24
1NAC1_2-032	0.0957	6.8560	3.4290	13.8059	0.2597	11.9369	0.8680	1488.21	158.66	1511.07	108.95	1542.47	128.91	1542.47	128.91
1NAC1_2-128	0.0958	9.8322	3.5524	14.1525	0.2686	10.2251	0.7193	1533.69	139.58	1538.97	112.60	1544.46	184.83	1544.46	184.83
1NAC1_2-331	0.0968	6.0768	3.2416	8.2385	0.2427	5.6061	0.6752	1400.53	70.58	1467.17	64.02	1562.96	113.96	1562.96	113.96
1NAC1_2-301	0.0968	3.2168	3.8248	5.4483	0.2864	4.3594	0.8071	1623.31	62.56	1597.97	43.88	1563.53	60.32	1563.53	60.32
1NAC1_2-399	0.0979	3.3204	3.3559	4.7723	0.2483	3.4567	0.7183	1429.93	44.33	1494.16	37.35	1584.26	62.09	1584.26	62.09
1NAC1_2-167	0.0979	10.3352	3.4493	15.2844	0.2553	11.2619	0.7367	1465.61	147.66	1515.72	120.88	1585.05	193.26	1585.05	193.26
1NAC1_2-313	0.0986	3.0991	3.7430	5.0165	0.2751	3.8606	0.7865	1566.61	53.69	1580.61	40.22	1597.86	57.86	1597.86	57.86
1NAC1_2-148	0.0991	3.5207	3.3295	5.0754	0.2435	3.9723	0.7228	1404.83	50.14	1488.00	39.65	1606.99	65.65	1606.99	65.65
1NAC1_2-292	0.0994	3.6552	3.9996	5.9446	0.2916	4.6403	0.7887	1649.69	67.54	1634.12	48.32	1613.39	68.10	1613.39	68.10

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1NAC1.2, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975111, LONGITUDE: -69.680352 ACCEPTED															
1NAC1_2-166	0.1008	4.1139	3.4077	6.0787	0.2450	4.4790	0.7362	1412.74	56.82	1506.16	47.75	1638.76	76.40	1638.76	76.40
1NAC1_2-064	0.1012	7.0439	4.2464	11.6411	0.3040	9.4391	0.7963	1711.35	141.90	1683.03	95.96	1647.01	130.64	1647.01	130.64
1NAC1_2-358	0.1025	4.5181	3.8754	6.5107	0.2738	4.7460	0.7201	1559.83	65.76	1608.58	52.60	1670.49	83.55	1670.49	83.55
1NAC1_2-027	0.1031	5.9652	4.0683	9.1180	0.2860	6.6687	0.7567	1621.69	95.62	1647.97	74.45	1680.61	110.16	1680.61	110.16
1NAC1_2-092	0.1043	4.2341	4.6237	6.3037	0.3212	4.8665	0.7415	1795.37	76.26	1753.56	52.67	1702.64	77.98	1702.64	77.98
1NAC1_2-306	0.1055	3.4608	4.2477	5.6377	0.2919	4.3781	0.7895	1651.05	63.77	1683.29	46.37	1722.42	63.58	1722.42	63.58
1NAC1_2-046	0.1056	2.9234	4.7026	4.6955	0.3230	4.0354	0.7860	1804.29	63.51	1767.70	39.34	1724.07	53.70	1724.07	53.70
1NAC1_2-137	0.1065	12.1244	4.1529	15.4124	0.2824	9.5584	0.6174	1603.60	135.72	1664.79	126.78	1741.15	222.23	1741.15	222.23
1NAC1_2-396	0.1069	2.6429	4.5436	3.7568	0.3077	2.7069	0.7108	1729.57	41.06	1739.00	31.27	1748.08	48.40	1748.08	48.40
1NAC1_2-158	0.1080	3.3475	4.4327	4.9831	0.2975	3.9048	0.7419	1679.05	57.72	1718.46	41.31	1765.36	61.18	1765.36	61.18
1NAC1_2-100	0.1082	5.2058	4.7597	7.3134	0.3186	5.2965	0.7027	1783.05	82.51	1777.82	61.44	1770.15	95.08	1770.15	95.08
1NAC1_2-099	0.1086	5.0739	4.8112	7.2794	0.3210	5.4602	0.7178	1794.40	85.53	1786.85	61.27	1776.53	92.60	1776.53	92.60
1NAC1_2-023	0.1090	8.0126	4.6361	11.1732	0.3082	7.7037	0.6970	1732.03	117.02	1755.78	93.59	1783.00	146.12	1783.00	146.12
1NAC1_2-168	0.1095	6.2817	4.5907	9.5878	0.3038	7.2458	0.7555	1710.17	108.85	1747.58	80.11	1791.28	114.44	1791.28	114.44
1NAC1_2-170	0.1105	4.1095	4.6230	6.1917	0.3032	5.2128	0.7532	1706.96	78.18	1753.43	51.73	1807.96	74.69	1807.96	74.69
1NAC1_2-066	0.1116	4.2594	4.9997	6.5147	0.3249	5.2438	0.7581	1813.41	82.89	1819.27	55.18	1825.07	77.27	1825.07	77.27
1NAC1_2-038	0.1140	3.3150	4.3377	6.0111	0.2757	4.7274	0.8356	1569.91	65.87	1700.57	49.64	1864.90	59.83	1864.90	59.83
1NAC1_2-028	0.1142	6.7032	5.4196	9.8979	0.3442	7.0677	0.7361	1906.61	116.67	1887.96	85.04	1866.53	120.95	1866.53	120.95
1NAC1_2-288	0.1148	2.7874	5.3154	5.4181	0.3356	4.6024	0.8575	1865.37	74.55	1871.34	46.34	1877.33	50.23	1877.33	50.23
1NAC1_2-129	0.1155	8.2798	4.8312	11.7160	0.3031	8.3451	0.7075	1706.65	125.14	1790.35	98.87	1887.62	149.03	1887.62	149.03
1NAC1_2-231	0.1156	3.2906	5.0543	5.0394	0.3170	4.0020	0.7582	1775.07	62.10	1828.47	42.74	1889.66	59.22	1889.66	59.22
1NAC1_2-107	0.1185	7.7783	5.8714	11.2875	0.3590	8.1892	0.7247	1977.39	139.47	1957.01	98.24	1933.92	139.26	1933.92	139.26
1NAC1_2-339	0.1191	7.8205	4.8864	11.6021	0.2972	8.6086	0.7387	1677.62	127.17	1799.91	98.10	1942.58	139.88	1942.58	139.88
1NAC1_2-256	0.1196	8.1254	5.0074	11.0122	0.3036	7.7768	0.6757	1709.10	116.77	1820.57	93.47	1950.40	145.20	1950.40	145.20
1NAC1_2-318	0.1197	5.8665	4.6281	9.6237	0.2803	7.6665	0.7927	1592.63	108.20	1754.35	80.52	1951.27	104.83	1951.27	104.83
1NAC1_2-111	0.1260	3.6592	6.3825	5.4061	0.3672	4.0184	0.7361	2016.13	69.57	2029.87	47.49	2042.23	64.69	2042.23	64.69
1NAC1_2-385	0.1274	5.3904	6.3584	8.4097	0.3614	6.4273	0.7676	1988.78	110.00	2026.55	73.92	2062.83	95.07	2062.83	95.07
1NAC1_2-101	0.1322	7.4893	6.7856	10.5991	0.3719	7.6104	0.7077	2038.18	133.00	2083.84	94.07	2127.75	131.11	2127.75	131.11
1NAC1_2-348	0.1478	8.5231	6.9324	13.5792	0.3396	10.5964	0.7785	1884.95	173.23	2102.81	121.07	2321.12	146.15	2321.12	146.15
1NAC1_2-241	0.1576	3.0723	7.8668	4.3724	0.3621	3.5880	0.7188	1991.94	61.48	2215.89	39.41	2429.77	52.09	2429.77	52.09
1NAC1_2-249	0.1699	7.1917	10.4906	8.7573	0.4477	5.2631	0.5714	2385.09	104.93	2479.09	81.35	2556.89	120.37	2556.89	120.37
1NAC1_2-095	0.1716	5.2335	11.6929	7.3450	0.4939	5.3971	0.7024	2587.67	115.04	2580.13	68.81	2572.87	87.46	2572.87	87.46
1NAC1_2-381	0.1762	7.6893	10.1177	12.9936	0.4158	10.4783	0.8061	2241.43	198.44	2445.59	120.63	2617.73	127.93	2617.73	127.93
1NAC1_2-293	0.1779	7.6905	10.1504	15.0767	0.4137	12.9505	0.8601	2231.93	244.43	2448.57	140.24	2633.06	127.77	2633.06	127.77
1NAC1_2-320	0.1828	5.9234	13.3736	8.6886	0.5303	6.3505	0.7316	2742.58	141.88	2706.40	82.26	2678.03	97.99	2678.03	97.99
1NAC1_2-135	0.1864	4.3516	12.1778	5.6943	0.4735	3.7829	0.6453	2498.85	78.37	2618.20	53.48	2710.31	71.77	2710.31	71.77
1NAC1.2, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975111, LONGITUDE: -69.680352 REJECTED															
1NAC1_2-188	0.0853	23.7367	0.0765	24.4585	0.0065	6.7325	0.2433	41.75	2.80	74.83	17.65	1322.76	459.79	41.75	2.80
1NAC1_2-391	0.0912	29.5150	0.0842	30.4438	0.0067	7.4386	0.2451	42.96	3.19	82.06	24.00	1450.24	561.80	42.96	3.19
1NAC1_2-132	0.1427	23.3479	0.1452	29.8227	0.0074	18.5694	0.6222	47.36	8.76	137.64	38.41	2259.71	403.00	47.36	8.76
1NAC1_2-278	0.0634	7.8667	0.0756	9.7154	0.0086	5.8907	0.5871	55.44	3.25	73.98	6.93	723.24	166.87	55.44	3.25
1NAC1_2-176	0.1878	20.2483	0.2412	21.8695	0.0093	8.5342	0.3780	59.73	5.07	219.40	43.18	2722.87	333.56	59.73	5.07
1NAC1_2-229	0.2462	23.0439	0.3427	27.0120	0.0101	14.1125	0.5218	64.75	9.09	299.20	70.11	3160.23	365.58	64.75	9.09
1NAC1_2-097	0.2769	25.9785	0.3900	27.4389	0.0102	8.9766	0.3219	65.46	5.85	334.34	78.32	3345.35	406.08	65.46	5.85
1NAC1_2-123	0.3061	12.5514	0.4411	14.1906	0.0104	6.6685	0.4666	66.95	4.44	371.04	44.13	3501.59	194.00	66.95	4.44
1NAC1_2-308	0.1237	14.7591	0.1881	15.5319	0.0110	4.7718	0.3115	70.70	3.36	175.04	24.98	2009.57	261.94	70.70	3.36
1NAC1_2-050	0.1003	11.3819	0.1569	12.1386	0.0113	4.7940	0.3504	72.67	3.46	147.98	16.72	1630.24	211.60	72.67	3.46
1NAC1_2-164	0.1400	9.0287	0.2280	10.6733	0.0118	5.6954	0.5333	75.60	4.28	208.52	20.12	2227.79	156.33	75.60	4.28
1NAC1_2-287	0.0846	18.0608	0.1402	19.4332	0.0120	7.1452	0.3691	76.96	5.47	133.20	24.26	1306.93	350.62	76.96	5.47

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1NAC1.2, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975111, LONGITUDE: -69.680352 REJECTED															
1NAC1_2-377	0.0655	17.0888	0.1089	23.5347	0.0121	16.1846	0.6876	77.24	12.43	105.00	23.48	789.10	358.67	77.24	12.43
1NAC1_2-236	0.1161	14.6129	0.1950	15.7336	0.0122	6.1540	0.3712	78.02	4.77	180.90	26.08	1897.77	262.72	78.02	4.77
1NAC1_2-225	0.3788	13.0267	0.6931	14.8109	0.0133	7.0854	0.4758	84.98	5.98	534.67	61.64	3826.94	196.86	84.98	5.98
1NAC1_2-040	0.0649	6.8802	0.1212	9.7070	0.0135	6.8150	0.7054	86.66	5.87	116.19	10.66	772.57	144.79	86.66	5.87
1NAC1_2-160	0.1006	5.4629	0.2009	6.9332	0.0145	4.1377	0.6161	92.61	3.80	185.85	11.78	1635.02	101.50	92.61	3.80
1NAC1_2-060	0.0473	16.8405	0.1029	24.0278	0.0158	17.2317	0.7133	100.96	17.26	99.47	22.77	62.85	401.14	100.96	17.26
1NAC1_2-354	0.1756	13.9107	0.4002	14.7047	0.0165	4.8006	0.3242	105.52	5.02	341.81	42.70	2612.12	231.57	105.52	5.02
1NAC1_2-185	0.1534	14.0932	0.3687	14.6729	0.0174	5.2169	0.2867	111.35	5.76	318.71	40.16	2384.15	240.07	111.35	5.76
1NAC1_2-294	0.0832	11.5378	0.2630	16.2136	0.0229	11.3716	0.7026	146.05	16.42	237.06	34.29	1273.88	225.04	146.05	16.42
1NAC1_2-277	0.0700	8.9506	0.2269	12.3063	0.0235	8.5749	0.6864	149.64	12.68	207.61	23.11	929.79	183.76	149.64	12.68
1NAC1_2-125	0.0631	24.9813	0.2396	30.5225	0.0275	17.5639	0.5746	174.99	30.32	218.11	59.98	711.59	530.91	174.99	30.32
1NAC1_2-037	0.0525	19.3802	0.2344	26.9774	0.0324	18.6921	0.6957	205.44	37.80	213.84	52.06	306.59	441.39	205.44	37.80
1NAC1_2-281	0.2186	9.7847	1.0449	11.4108	0.0347	5.9369	0.5145	219.59	12.82	726.36	59.27	2970.76	157.64	219.59	12.82
1NAC1_2-062	0.1004	7.8055	0.6362	9.8693	0.0459	6.2990	0.6125	289.44	17.83	499.95	38.98	1632.04	145.08	289.44	17.83
1NAC1_2-314	0.1500	12.3857	0.9599	15.4801	0.0464	9.3169	0.5999	292.29	26.62	683.27	77.13	2345.62	211.85	292.29	26.62
1NAC1_2-024	0.0855	4.3267	0.5990	6.7430	0.0507	5.0455	0.7672	319.12	15.71	476.59	25.65	1328.03	83.75	319.12	15.71
1NAC1_2-113	0.0878	11.4067	0.6297	16.0811	0.0520	11.3490	0.7049	326.71	36.15	495.92	63.17	1377.46	219.28	326.71	36.15
1NAC1_2-174	0.0949	18.5037	0.7851	34.3431	0.0600	29.0307	0.8424	375.41	105.88	588.40	154.55	1525.99	348.68	375.41	105.88
1NAC1_2-221	0.7254	20.6693	6.6103	26.1858	0.0661	16.0937	0.6140	412.51	64.31	2060.72	235.06	4781.88	297.36	412.51	64.31
1NAC1_2-267	0.0973	7.9406	0.9152	11.9897	0.0682	9.0425	0.7493	425.43	37.23	659.79	58.24	1572.50	148.72	425.43	37.23
1NAC1_2-224	0.1025	11.4712	1.0232	12.8375	0.0724	5.8091	0.4489	450.54	25.28	715.54	66.02	1669.96	212.13	450.54	25.28
1NAC1_2-187	0.1062	8.7817	1.1589	9.4198	0.0791	4.7067	0.3808	490.89	22.25	781.42	51.39	1734.57	161.09	490.89	22.25
1NAC1_2-283	0.0650	6.1214	0.8766	8.1972	0.0978	5.5229	0.6651	601.48	31.72	639.13	38.90	773.91	128.79	601.48	31.72
1NAC1_2-272	0.0678	6.1522	0.9484	7.1574	0.1014	3.9408	0.5124	622.67	23.39	677.29	35.39	862.92	127.64	622.67	23.39
1NAC1_2-063	0.0580	8.3283	0.8149	11.9879	0.1018	8.8062	0.7194	624.94	52.45	605.17	54.71	530.75	182.43	624.94	52.45
1NAC1_2-172	0.0664	3.8410	0.9366	6.5642	0.1023	5.8360	0.8144	627.58	34.90	671.12	32.25	818.69	80.24	627.58	34.90
1NAC1_2-251	0.0944	6.1734	1.3471	14.9290	0.1035	13.7123	0.9105	634.67	82.89	866.32	87.22	1516.61	116.47	634.67	82.89
1NAC1_2-051	0.0671	11.4918	0.9645	12.8146	0.1041	6.1103	0.4437	638.62	37.15	685.62	63.97	842.26	239.19	638.62	37.15
1NAC1_2-070	0.0592	5.1584	0.8782	7.0998	0.1076	5.4903	0.6919	658.89	34.39	640.02	33.72	572.79	112.19	658.89	34.39
1NAC1_2-271	0.0896	7.6039	1.3323	10.0367	0.1079	6.7133	0.6529	660.36	42.14	859.87	58.28	1416.10	145.41	660.36	42.14
1NAC1_2-201	0.0595	4.1983	0.8858	5.6163	0.1079	4.5283	0.6767	660.81	28.44	644.12	26.79	585.49	91.11	660.81	28.44
1NAC1_2-334	0.0707	3.6549	1.1225	7.5531	0.1150	6.6598	0.8752	701.67	44.28	764.17	40.58	949.30	74.81	701.67	44.28
1NAC1_2-322	0.0618	15.5535	0.9825	21.5200	0.1151	14.8703	0.6911	702.45	98.97	694.86	108.70	668.41	332.89	702.45	98.97
1NAC1_2-008	0.1155	28.3525	1.8787	29.7906	0.1178	9.1261	0.3069	718.17	62.02	1073.61	199.96	1887.29	510.36	718.17	62.02
1NAC1_2-068	0.0970	7.2383	1.6143	11.9844	0.1206	9.7176	0.7971	733.94	67.41	975.80	75.28	1568.07	135.65	733.94	67.41
1NAC1_2-190	0.1320	6.9336	2.3144	16.1174	0.1271	14.9463	0.9031	771.52	108.69	1216.71	114.76	2124.14	121.43	771.52	108.69
1NAC1_2-210	0.0729	7.6001	1.2893	16.9813	0.1283	15.1445	0.8943	777.96	111.00	840.99	97.41	1010.85	154.11	777.96	111.00
1NAC1_2-233	0.0890	3.9189	1.5808	8.5166	0.1288	7.6566	0.8879	780.90	56.31	962.68	53.02	1404.58	75.06	780.90	56.31
1NAC1_2-286	0.0730	8.9777	1.3122	12.9743	0.1303	9.3450	0.7219	789.80	69.47	851.11	74.90	1013.79	181.97	789.80	69.47
1NAC1_2-049	0.0632	11.6416	1.1455	16.9473	0.1315	12.4285	0.7268	796.14	93.09	775.12	92.13	714.26	247.30	796.14	93.09
1NAC1_2-126	0.0764	3.8308	1.3901	5.1241	0.1318	3.5373	0.6646	798.17	26.56	884.74	30.27	1106.06	76.56	798.17	26.56
1NAC1_2-213	0.0730	7.2989	1.9216	10.6512	0.1910	7.6765	0.7283	1126.83	79.37	1088.61	71.25	1012.60	147.97	1012.60	147.97
1NAC1_2-012	0.0753	2.3860	1.3865	3.4904	0.1335	2.4855	0.7301	807.73	18.87	883.22	20.59	1075.38	47.91	1075.38	47.91
1NAC1_2-146	0.0782	5.0996	1.4522	9.3735	0.1345	8.0170	0.8392	813.45	61.27	910.77	56.42	1152.97	101.22	1152.97	101.22
1NAC1_2-096	0.0788	5.0029	1.6198	8.2713	0.1489	6.7790	0.7967	894.94	56.65	977.93	51.97	1167.66	99.09	1167.66	99.09
1NAC1_2-151	0.0788	9.2239	1.5767	13.5778	0.1449	10.0264	0.7338	872.54	81.83	961.09	84.56	1167.91	182.68	1167.91	182.68
1NAC1_2-332	0.0796	5.5510	1.7156	7.2851	0.1562	4.7690	0.6477	935.71	41.54	1014.39	46.77	1186.24	109.64	1186.24	109.64
1NAC1_2-036	0.0825	6.8523	1.6530	9.2019	0.1452	5.9097	0.6679	874.01	48.30	990.71	58.28	1258.24	133.95	1258.24	133.95
1NAC1_2-203	0.0842	4.6540	1.8229	5.8212	0.1570	4.3378	0.6147	940.08	37.95	1053.72	38.19	1296.93	90.48	1296.93	90.48
1NAC1_2-300	0.0846	5.9241	1.8382	9.4059	0.1575	7.2831	0.7767	942.65	63.87	1059.22	61.93	1307.01	115.01	1307.01	115.01

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1NAC1.2, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975111, LONGITUDE: -69.680352 REJECTED															
1NAC1_2-075	0.0851	19.6241	2.6716	28.0435	0.2274	20.1517	0.7144	1321.05	240.82	1320.63	210.14	1318.79	380.34	1318.79	380.34
1NAC1_2-117	0.0886	15.0538	2.6548	23.7288	0.2171	18.3595	0.7730	1266.67	211.21	1315.97	176.78	1395.42	288.68	1395.42	288.68
1NAC1_2-180	0.0909	5.7678	1.8810	8.4923	0.1500	6.5880	0.7351	901.16	55.41	1074.40	56.36	1443.84	109.88	1443.84	109.88
1NAC1_2-323	0.0925	3.7368	2.5008	5.7734	0.1959	4.3923	0.7623	1153.11	46.38	1272.27	41.90	1477.92	70.86	1477.92	70.86
1NAC1_2-009	0.0928	9.5511	2.2003	10.1946	0.1718	3.5186	0.3497	1021.97	33.25	1181.14	71.29	1483.39	180.99	1483.39	180.99
1NAC1_2-380	0.0929	4.5693	2.3870	7.8668	0.1860	6.4104	0.8140	1099.67	64.81	1238.70	56.35	1486.79	86.55	1486.79	86.55
1NAC1_2-276	0.0930	24.3698	2.8002	30.8671	0.2182	19.0023	0.6137	1272.62	219.54	1355.60	235.06	1488.55	461.49	1488.55	461.49
1NAC1_2-295	0.0937	10.2488	2.2756	13.8246	0.1762	9.2414	0.6711	1045.92	89.23	1204.74	97.82	1501.08	193.76	1501.08	193.76
1NAC1_2-153	0.0940	7.1424	2.5019	9.0415	0.1928	5.6559	0.6133	1136.59	58.94	1272.57	65.68	1508.72	134.89	1508.72	134.89
1NAC1_2-022	0.0950	4.2552	2.4859	5.5021	0.1897	3.2978	0.6349	1119.92	33.90	1267.93	39.86	1527.30	80.17	1527.30	80.17
1NAC1_2-195	0.0952	14.3368	2.2805	19.1937	0.1736	13.3638	0.6656	1032.08	127.47	1206.27	136.29	1532.28	269.93	1532.28	269.93
1NAC1_2-029	0.0955	12.6468	2.0140	15.1868	0.1529	8.2227	0.5538	917.02	70.29	1120.26	103.40	1538.06	237.93	1538.06	237.93
1NAC1_2-289	0.0970	2.5276	1.7827	5.7070	0.1332	5.0771	0.8966	806.08	38.47	1039.15	37.14	1567.83	47.37	1567.83	47.37
1NAC1_2-265	0.0973	5.3499	2.0570	10.8580	0.1533	9.5048	0.8702	919.56	81.46	1134.63	74.32	1572.77	100.20	1572.77	100.20
1NAC1_2-257	0.1004	12.0517	2.3954	20.2568	0.1730	16.4415	0.8038	1028.73	156.36	1241.21	146.11	1631.46	224.02	1631.46	224.02
1NAC1_2-228	0.1057	3.3494	3.0218	6.4081	0.2074	5.5117	0.8526	1214.80	61.03	1413.14	48.93	1726.08	61.51	1726.08	61.51
1NAC1_2-056	0.1101	5.1981	3.1310	6.3974	0.2062	4.2824	0.5885	1208.56	47.19	1440.34	49.27	1800.69	94.59	1800.69	94.59
1NAC1_2-250	0.1106	5.6093	3.6970	7.7538	0.2425	5.6498	0.6914	1399.60	71.08	1570.71	62.05	1808.71	101.95	1808.71	101.95
1NAC1_2-336	0.1110	10.4602	3.7713	15.7923	0.2461	11.8592	0.7492	1418.45	151.02	1586.65	127.41	1815.94	189.95	1815.94	189.95
1NAC1_2-330	0.1163	7.5036	3.4901	9.8589	0.2173	6.4326	0.6486	1267.79	74.04	1524.99	77.96	1900.86	134.86	1900.86	134.86
1NAC1_2-048	0.1178	2.7253	4.2366	4.5489	0.2608	4.0060	0.8043	1493.80	53.42	1681.14	37.39	1922.89	48.86	1922.89	48.86
1NAC1_2-202	0.1334	9.7275	3.1605	10.6394	0.1718	5.0161	0.4097	1021.83	47.40	1447.55	82.24	2143.41	169.98	2143.41	169.98
1NAC1_2-242	0.1410	6.0865	5.1221	9.4869	0.2635	7.4933	0.7674	1507.65	100.74	1839.78	80.76	2239.26	105.27	2239.26	105.27
1NAC1_2-364	0.1624	3.2740	7.0234	4.8615	0.3133	3.7756	0.7401	1756.91	58.06	2114.40	43.24	2480.42	55.22	2480.42	55.22
1NAC1_2-157	0.1715	3.1407	4.9113	5.3002	0.2075	4.4554	0.8063	1215.71	49.37	1804.19	44.74	2572.21	52.49	2572.21	52.49
1NAC1_2-145	0.1738	4.8661	6.9358	7.1842	0.2891	5.5090	0.7363	1637.05	79.65	2103.25	63.84	2594.99	81.14	2594.99	81.14
1NAC1_2-021	0.1746	17.6628	10.2211	24.1785	0.4244	16.4722	0.6829	2280.21	316.61	2454.99	227.35	2601.94	294.32	2601.94	294.32
1NAC1_2-007	0.2200	16.2734	12.6066	26.3326	0.4150	20.6943	0.7862	2237.67	391.73	2650.71	252.82	2980.95	261.96	2980.95	261.96
1NAC1_2-011	0.6543	4.5125	28.5292	6.9148	0.3159	5.1843	0.7577	1769.65	80.23	3437.46	67.94	4633.52	65.27	4633.52	65.27
1NAC1_2-033	0.8035	13.1698	258.7954	27.6315	2.3350	24.2683	0.8791	7764.50	1106.06	5645.42	286.88	4927.99	188.59	4927.99	188.59
20160813-06, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975600, LONGITUDE: -69.677550 ACCEPTED															
2016081306-264	0.0427	51.8013	0.0411	52.1754	0.0070	6.2806	0.1195	44.85	2.81	40.89	20.91	0.00	1248.64	44.85	2.81
2016081306-161	0.0584	6.9180	0.0785	7.4608	0.0098	4.1958	0.4059	62.58	2.61	76.78	5.52	543.55	151.20	62.58	2.61
2016081306-082	0.0531	18.5479	0.0762	20.1148	0.0104	7.8885	0.3870	66.69	5.23	74.56	14.46	332.04	420.59	66.69	5.23
2016081306-347	0.0509	8.4161	0.0743	11.6947	0.0106	8.0197	0.6944	67.79	5.41	72.76	8.21	236.64	194.13	67.79	5.41
2016081306-258	0.0687	17.8420	0.1016	18.8010	0.0107	5.9747	0.3153	68.69	4.08	98.22	17.60	890.05	368.62	68.69	4.08
2016081306-095	0.0524	6.2160	0.0780	7.9057	0.0108	4.9416	0.6179	69.11	3.40	76.29	5.81	304.35	141.63	69.11	3.40
2016081306-177	0.0511	25.2573	0.0761	25.9072	0.0108	6.5205	0.2243	69.14	4.48	74.44	18.60	246.78	581.52	69.14	4.48
2016081306-231	0.0559	31.4109	0.0848	32.8810	0.0110	10.1288	0.2959	70.48	7.10	82.66	26.11	448.60	697.72	70.48	7.10
2016081306-266	0.0583	14.0628	0.0927	14.7481	0.0115	4.6922	0.3017	73.88	3.45	90.01	12.70	540.22	307.54	73.88	3.45
2016081306-045	0.0492	8.4903	0.0786	9.8242	0.0116	4.5914	0.5045	74.14	3.38	76.82	7.27	159.18	198.65	74.14	3.38
2016081306-101	0.0553	16.2941	0.0900	20.9973	0.0118	13.2644	0.6307	75.50	9.96	87.47	17.60	424.59	363.47	75.50	9.96
2016081306-048	0.0570	11.0084	0.0928	12.0366	0.0118	4.5109	0.4056	75.66	3.39	90.13	10.38	490.66	242.80	75.66	3.39
2016081306-284	0.0615	17.3307	0.1025	18.0887	0.0121	5.4103	0.2867	77.43	4.16	99.09	17.08	655.94	371.70	77.43	4.16
2016081306-233	0.0494	6.9463	0.0856	7.9728	0.0125	4.8361	0.5019	80.37	3.86	83.40	6.38	168.89	162.23	80.37	3.86
2016081306-004	0.0659	13.0345	0.1148	15.3896	0.0126	8.1582	0.5316	80.89	6.56	110.32	16.09	801.64	273.04	80.89	6.56
2016081306-285	0.0615	12.5981	0.1106	17.8897	0.0130	12.7966	0.7100	83.54	10.62	106.55	18.10	655.55	270.21	83.54	10.62
2016081306-243	0.0490	11.6516	0.0887	13.0266	0.0131	6.2175	0.4481	83.98	5.19	86.29	10.78	148.83	273.13	83.98	5.19
2016081306-168	0.0482	7.6789	0.0876	10.7726	0.0132	8.1781	0.7035	84.28	6.85	85.23	8.81	110.73	181.28	84.28	6.85

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-06, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975600, LONGITUDE: -69.677550 ACCEPTED															
2016081306-324	0.0559	16.0396	0.1025	17.1531	0.0133	6.0062	0.3545	85.05	5.07	99.13	16.20	450.09	356.19	85.05	5.07
2016081306-314	0.0505	10.6077	0.0929	11.3303	0.0133	3.7772	0.3519	85.32	3.20	90.16	9.78	217.75	245.53	85.32	3.20
2016081306-384	0.0487	4.3281	0.0902	5.4533	0.0134	3.6894	0.6118	85.85	3.15	87.65	4.58	134.48	101.72	85.85	3.15
2016081306-306	0.0467	11.5248	0.0876	12.5152	0.0136	4.4662	0.3914	87.08	3.86	85.26	10.24	32.54	276.09	87.08	3.86
2016081306-379	0.0489	5.3607	0.0928	6.5463	0.0137	4.0894	0.5760	87.93	3.57	90.08	5.64	145.00	125.75	87.93	3.57
2016081306-265	0.0470	12.1927	0.0895	14.1155	0.0138	7.2705	0.5040	88.27	6.37	87.01	11.77	50.62	291.09	88.27	6.37
2016081306-040	0.0499	10.6888	0.0962	15.3632	0.0140	10.9628	0.7183	89.34	9.73	93.25	13.69	192.63	248.56	89.34	9.73
2016081306-129	0.0530	5.5221	0.1040	12.0648	0.0142	8.9174	0.9043	90.92	8.05	100.44	11.54	330.07	125.26	90.92	8.05
2016081306-077	0.0512	6.9014	0.1020	9.2688	0.0144	6.4135	0.6680	92.40	5.88	98.64	8.71	249.86	158.81	92.40	5.88
2016081306-341	0.0534	11.8662	0.1096	15.8485	0.0149	10.4582	0.6629	95.24	9.89	105.61	15.90	343.75	268.52	95.24	9.89
2016081306-215	0.0551	7.3443	0.1157	9.2122	0.0152	5.7417	0.6040	97.44	5.55	111.19	9.70	414.62	164.11	97.44	5.55
2016081306-201	0.0605	9.5440	0.1385	11.7089	0.0166	6.8467	0.5793	106.09	7.20	131.72	14.47	621.28	205.88	106.09	7.20
2016081306-346	0.0835	25.0605	0.1928	25.9504	0.0167	6.6163	0.2597	106.88	7.01	179.02	42.62	1282.06	488.22	106.88	7.01
2016081306-393	0.0510	5.7820	0.1423	7.3984	0.0202	4.9633	0.6255	129.15	6.35	135.10	9.36	239.02	133.31	129.15	6.35
2016081306-049	0.0478	4.3268	0.1345	5.9857	0.0204	3.7095	0.6951	130.16	4.78	128.09	7.20	88.11	102.58	130.16	4.78
2016081306-271	0.0495	10.8548	0.1411	11.5080	0.0206	4.1063	0.3329	131.75	5.36	134.05	14.45	173.11	253.32	131.75	5.36
2016081306-159	0.0484	3.5770	0.1388	4.0413	0.0208	3.2013	0.5328	132.51	4.20	131.94	5.00	120.41	84.29	132.51	4.20
2016081306-267	0.0509	7.3754	0.1496	9.8291	0.0213	6.6700	0.6613	136.03	8.98	141.60	12.99	234.08	170.20	136.03	8.98
2016081306-293	0.0576	15.0518	0.1740	15.8190	0.0219	4.8715	0.3077	139.69	6.73	162.88	23.81	512.87	330.71	139.69	6.73
2016081306-382	0.0516	8.0389	0.1587	10.1349	0.0223	6.3795	0.6093	141.97	8.96	149.53	14.09	268.62	184.35	141.97	8.96
2016081306-179	0.0518	10.4712	0.1605	12.6864	0.0224	7.7821	0.5665	143.05	11.01	151.13	17.82	278.48	239.70	143.05	11.01
2016081306-122	0.0602	13.6247	0.1917	15.4449	0.0231	6.2857	0.4760	147.08	9.14	178.05	25.23	609.26	294.50	147.08	9.14
2016081306-374	0.0560	11.2320	0.1787	13.6262	0.0231	7.8818	0.5663	147.38	11.48	166.90	20.97	450.90	249.39	147.38	11.48
2016081306-252	0.0479	9.6574	0.1548	10.5779	0.0234	4.4627	0.4082	149.20	6.58	146.17	14.40	95.46	228.63	149.20	6.58
2016081306-009	0.0499	12.3856	0.1617	17.1883	0.0235	11.9017	0.6934	149.49	17.59	152.21	24.30	192.49	288.02	149.49	17.59
2016081306-354	0.0588	13.3057	0.1948	14.1580	0.0240	4.7539	0.3418	152.92	7.18	180.72	23.44	559.15	290.04	152.92	7.18
2016081306-240	0.0907	40.9263	0.3340	41.1868	0.0267	5.1105	0.1129	169.77	8.56	292.64	105.09	1440.67	780.01	169.77	8.56
2016081306-290	0.0499	4.5710	0.2041	6.8622	0.0296	5.1227	0.7458	188.30	9.51	188.61	11.81	190.46	106.33	188.30	9.51
2016081306-280	0.0835	32.2377	0.3468	33.3331	0.0301	8.5685	0.2543	191.27	16.15	302.33	87.37	1279.90	628.24	191.27	16.15
2016081306-079	0.0563	3.9362	0.2571	6.9278	0.0331	5.9459	0.8236	209.99	12.28	232.34	14.39	462.54	87.22	209.99	12.28
2016081306-336	0.0498	10.3440	0.2289	14.7253	0.0333	10.4935	0.7117	211.30	21.81	209.32	27.86	184.49	240.89	211.30	21.81
2016081306-063	0.0546	5.0699	0.2730	6.7653	0.0362	4.5302	0.6622	229.47	10.21	245.07	14.73	395.16	113.68	229.47	10.21
2016081306-021	0.0636	10.9139	0.3223	15.3058	0.0367	10.6810	0.7011	232.58	24.40	283.66	37.90	727.55	231.35	232.58	24.40
2016081306-138	0.0653	5.9461	0.3436	10.4379	0.0381	7.7818	0.8258	241.08	18.41	299.87	27.11	785.14	124.88	241.08	18.41
2016081306-249	0.0550	6.3838	0.2926	7.7374	0.0385	4.8827	0.5685	243.80	11.68	260.57	17.78	412.49	142.70	243.80	11.68
2016081306-035	0.0621	8.3474	0.3357	13.2254	0.0392	10.1825	0.7757	247.69	24.74	293.88	33.76	677.74	178.39	247.69	24.74
2016081306-014	0.0635	8.7001	0.3474	10.6527	0.0397	6.0158	0.5772	250.80	14.80	302.79	27.90	723.69	184.53	250.80	14.80
2016081306-224	0.0681	8.8438	0.3750	9.2764	0.0399	5.7468	0.3833	252.13	14.21	323.37	25.69	872.62	183.20	252.13	14.21
2016081306-116	0.0514	7.8132	0.2866	12.7399	0.0404	9.3732	0.7919	255.03	23.44	255.91	28.83	260.91	179.43	255.03	23.44
2016081306-066	0.0513	4.8786	0.2886	6.3943	0.0408	4.5047	0.6488	257.66	11.38	257.49	14.54	253.79	112.18	257.66	11.38
2016081306-203	0.0527	7.3164	0.2964	10.3155	0.0408	7.3311	0.7050	257.70	18.52	263.56	23.95	314.16	166.40	257.70	18.52
2016081306-220	0.0540	9.6700	0.3045	10.6689	0.0408	4.9241	0.4241	257.96	12.45	269.90	25.29	372.79	217.69	257.96	12.45
2016081306-054	0.0619	4.8717	0.3492	6.7372	0.0409	4.5454	0.6909	258.36	11.51	304.11	17.71	670.07	104.24	258.36	11.51
2016081306-015	0.0524	3.7660	0.3033	5.5296	0.0420	3.8465	0.7332	265.05	9.99	269.00	13.07	301.53	85.85	265.05	9.99
2016081306-016	0.0538	8.6568	0.3125	9.6544	0.0421	4.0828	0.4432	265.62	10.62	276.10	23.34	363.96	195.19	265.62	10.62
2016081306-027	0.0504	5.6660	0.3036	7.7058	0.0436	5.0549	0.6781	275.29	13.62	269.18	18.22	214.62	131.22	275.29	13.62
2016081306-011	0.0519	7.4195	0.3124	10.6360	0.0437	7.5310	0.7165	275.50	20.31	276.07	25.72	278.84	169.83	275.50	20.31
2016081306-206	0.0550	7.7298	0.3337	10.5731	0.0440	7.2139	0.6823	277.55	19.60	292.36	26.87	410.70	172.85	277.55	19.60
2016081306-383	0.0610	5.4778	0.3792	6.6643	0.0450	4.1246	0.5715	283.82	11.45	326.48	18.61	640.70	117.78	283.82	11.45
2016081306-019	0.0521	8.4138	0.3300	12.2300	0.0459	8.7854	0.7258	289.50	24.87	289.55	30.82	288.02	192.27	289.50	24.87

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-06, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975600, LONGITUDE: -69.677550 ACCEPTED															
2016081306-338	0.0566	10.8255	0.3653	13.8803	0.0467	8.7034	0.6259	294.50	25.05	316.13	37.72	476.33	239.31	294.50	25.05
2016081306-060	0.0700	6.3102	0.4624	7.9092	0.0479	4.8160	0.6029	301.39	14.18	385.90	25.40	928.34	129.58	301.39	14.18
2016081306-211	0.0536	4.5924	0.3722	5.9275	0.0503	4.0107	0.6337	316.45	12.39	321.32	16.33	354.58	103.72	316.45	12.39
2016081306-194	0.0714	7.9820	0.5968	11.2195	0.0606	7.9391	0.7028	379.01	29.22	475.18	42.60	969.42	162.90	379.01	29.22
2016081306-376	0.0672	6.0269	0.5706	11.1235	0.0615	9.4875	0.8406	385.00	35.46	458.39	41.05	842.86	125.43	385.00	35.46
2016081306-105	0.0562	6.5327	0.4803	9.5120	0.0619	6.9248	0.7269	386.90	26.00	398.31	31.35	462.09	144.77	386.90	26.00
2016081306-375	0.0675	4.8215	0.6327	7.0423	0.0679	5.3807	0.7297	423.42	22.05	497.80	27.72	853.83	100.17	423.42	22.05
2016081306-017	0.0632	6.1672	0.6079	9.1683	0.0698	6.6653	0.7401	434.66	28.02	482.25	35.21	713.57	131.02	434.66	28.02
2016081306-339	0.0637	4.9480	0.6168	6.3774	0.0702	4.0579	0.6309	437.08	17.15	487.82	24.71	731.40	104.82	437.08	17.15
2016081306-183	0.0571	8.0709	0.5555	11.3443	0.0705	8.5333	0.7044	439.39	36.25	448.59	41.16	494.65	177.89	439.39	36.25
2016081306-361	0.0558	7.7136	0.5499	10.9154	0.0714	7.7760	0.7076	444.60	33.41	444.90	39.34	443.74	171.49	444.60	33.41
2016081306-153	0.0608	3.8733	0.6045	5.7092	0.0721	4.2166	0.7347	448.65	18.27	480.09	21.84	631.88	83.40	448.65	18.27
2016081306-222	0.0580	4.8107	0.5905	5.8249	0.0738	4.3703	0.5870	458.96	19.36	471.16	21.96	529.13	105.41	458.96	19.36
2016081306-156	0.0571	3.3483	0.5862	4.3463	0.0744	3.7934	0.6693	462.47	16.93	468.46	16.31	496.57	73.78	462.47	16.93
2016081306-086	0.0579	8.1480	0.6000	9.8901	0.0751	5.6822	0.5669	466.84	25.59	477.24	37.68	524.97	178.65	466.84	25.59
2016081306-256	0.0567	12.3085	0.5909	17.5856	0.0755	12.5821	0.7142	469.29	56.95	471.43	66.42	480.17	271.97	469.29	56.95
2016081306-298	0.0574	4.6925	0.6033	6.0300	0.0762	3.3558	0.6326	473.34	15.32	479.35	23.04	506.21	103.22	473.34	15.32
2016081306-180	0.0601	4.1958	0.6341	5.2336	0.0765	4.3644	0.6312	475.42	20.00	498.67	20.62	605.56	90.75	475.42	20.00
2016081306-006	0.0653	4.0433	0.6919	5.0847	0.0768	3.0203	0.6065	477.05	13.89	533.94	21.12	782.88	84.95	477.05	13.89
2016081306-132	0.0557	5.2200	0.5903	9.3430	0.0768	6.9491	0.8343	477.10	31.96	471.06	35.23	439.51	116.14	477.10	31.96
2016081306-123	0.0610	4.2432	0.6482	10.7601	0.0770	9.1856	0.9215	478.12	42.33	507.37	42.99	638.79	91.26	478.12	42.33
2016081306-217	0.0548	11.1245	0.5846	15.7345	0.0773	11.2188	0.7072	480.10	51.91	467.42	59.01	403.62	249.07	480.10	51.91
2016081306-080	0.0592	4.3712	0.6397	5.8840	0.0783	4.1425	0.6703	486.06	19.39	502.13	23.31	573.61	95.05	486.06	19.39
2016081306-041	0.0605	9.4478	0.6582	13.9274	0.0788	10.1546	0.7347	489.18	47.84	513.54	56.19	621.89	203.78	489.18	47.84
2016081306-028	0.0593	5.5563	0.6468	6.9987	0.0790	4.0482	0.6088	490.09	19.10	506.52	27.92	579.86	120.69	490.09	19.10
2016081306-127	0.0582	5.3652	0.6386	11.9261	0.0795	8.8261	0.9089	493.20	41.91	501.46	47.23	536.62	117.40	493.20	41.91
2016081306-207	0.0618	7.6168	0.6861	10.7449	0.0805	7.5787	0.7053	499.22	36.41	530.46	44.42	665.71	163.10	499.22	36.41
2016081306-092	0.0600	4.3215	0.6675	5.9412	0.0805	4.1522	0.6864	499.28	19.95	519.17	24.15	604.82	93.48	499.28	19.95
2016081306-312	0.0600	4.5376	0.6691	6.8071	0.0808	4.9126	0.7458	500.71	23.67	520.17	27.71	604.44	98.16	500.71	23.67
2016081306-187	0.0589	5.5525	0.6647	6.8431	0.0818	5.8982	0.6291	506.96	28.76	517.47	27.75	562.68	120.96	506.96	28.76
2016081306-307	0.0696	7.0201	0.7939	8.6306	0.0827	4.6199	0.5837	512.08	22.74	593.40	38.80	915.98	144.43	512.08	22.74
2016081306-398	0.0567	8.8202	0.6482	12.9429	0.0828	9.4463	0.7318	512.73	46.56	507.34	51.73	481.61	194.84	512.73	46.56
2016081306-158	0.0638	3.2206	0.7317	4.4940	0.0832	4.0663	0.7212	515.18	20.13	557.58	19.28	733.40	68.20	515.18	20.13
2016081306-227	0.0601	4.9774	0.6984	6.4618	0.0842	6.4936	0.7048	521.24	32.51	537.82	26.99	606.95	107.63	521.24	32.51
2016081306-069	0.0641	2.6602	0.7476	4.0741	0.0845	3.5676	0.7654	523.14	17.93	566.83	17.70	744.15	56.24	523.14	17.93
2016081306-072	0.0603	4.9340	0.7077	8.2545	0.0850	6.7335	0.8018	526.12	34.02	543.38	34.75	614.23	106.56	526.12	34.02
2016081306-274	0.0577	8.0501	0.6779	11.6941	0.0851	8.4573	0.7253	526.34	42.75	525.51	48.01	520.17	176.65	526.34	42.75
2016081306-141	0.0649	4.2562	0.7661	6.0271	0.0856	3.8643	0.7115	529.39	19.64	577.51	26.55	769.98	89.61	529.39	19.64
2016081306-173	0.0619	3.7593	0.7311	5.7080	0.0856	5.0165	0.7616	529.48	25.50	557.20	24.48	670.93	80.43	529.48	25.50
2016081306-172	0.0595	4.8475	0.7033	6.9050	0.0857	5.5585	0.7175	530.04	28.28	540.75	28.96	584.96	105.21	530.04	28.28
2016081306-400	0.0565	3.8046	0.6687	5.3857	0.0857	3.7472	0.7079	530.12	19.07	519.89	21.92	473.81	84.14	530.12	19.07
2016081306-253	0.0593	5.5977	0.7017	7.3804	0.0858	4.9422	0.6520	530.36	25.16	539.79	30.91	578.16	121.63	530.36	25.16
2016081306-232	0.0609	6.8721	0.7213	8.7037	0.0859	6.0501	0.6185	530.95	30.84	551.44	37.05	635.24	147.90	530.95	30.84
2016081306-276	0.0574	4.7016	0.6821	6.9639	0.0861	5.0958	0.7377	532.46	26.04	528.06	28.68	507.35	103.40	532.46	26.04
2016081306-288	0.0607	4.6088	0.7346	6.4137	0.0877	4.7244	0.6966	541.84	24.55	559.23	27.59	628.86	99.29	541.84	24.55
2016081306-107	0.0604	3.5052	0.7312	5.0304	0.0877	3.6289	0.7173	542.08	18.87	557.26	21.58	616.85	75.67	542.08	18.87
2016081306-236	0.0811	11.0034	0.9825	12.0850	0.0878	5.7485	0.4176	542.49	29.91	694.90	60.89	1223.90	216.16	542.49	29.91
2016081306-198	0.0663	4.5352	0.8045	6.3955	0.0880	4.6043	0.7052	543.50	24.00	599.38	28.96	815.19	94.80	543.50	24.00
2016081306-119	0.0594	7.2595	0.7235	12.0297	0.0882	8.8664	0.7999	544.93	46.33	552.72	51.32	582.12	157.63	544.93	46.33
2016081306-074	0.0600	4.6786	0.7322	6.0788	0.0884	4.2326	0.6409	545.82	22.15	557.85	26.10	604.95	101.20	545.82	22.15

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-06, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975600, LONGITUDE: -69.677550 ACCEPTED															
2016081306-321	0.0668	8.2995	0.8165	11.4384	0.0885	7.8147	0.6882	546.88	40.97	606.09	52.25	832.02	173.02	546.88	40.97
2016081306-218	0.0593	9.3239	0.7258	13.0338	0.0887	9.2187	0.6988	547.67	48.40	554.06	55.71	578.47	202.58	547.67	48.40
2016081306-270	0.0599	8.0141	0.7355	10.5213	0.0890	6.9805	0.6481	549.57	36.77	559.77	45.30	599.77	173.50	549.57	36.77
2016081306-081	0.0627	6.4130	0.7733	9.3962	0.0894	6.9864	0.7310	551.78	36.95	581.68	41.63	697.78	136.60	551.78	36.95
2016081306-327	0.0579	13.0149	0.7147	18.6834	0.0895	13.3432	0.7175	552.40	70.64	547.53	79.23	525.02	285.36	552.40	70.64
2016081306-273	0.0614	4.2521	0.7591	6.1753	0.0896	4.7234	0.7262	553.22	25.04	573.47	27.06	652.84	91.24	553.22	25.04
2016081306-152	0.0608	7.5106	0.7518	10.7851	0.0897	7.7521	0.7177	553.49	41.12	569.26	47.03	631.36	161.74	553.49	41.12
2016081306-213	0.0709	6.7809	0.8771	9.6578	0.0897	7.0239	0.7122	553.63	37.26	639.44	45.85	953.74	138.71	553.63	37.26
2016081306-112	0.0601	3.1905	0.7505	6.5553	0.0904	5.0851	0.8797	557.97	27.18	568.50	28.54	607.94	68.98	557.97	27.18
2016081306-097	0.0719	5.7832	0.9014	7.0843	0.0908	4.1594	0.5777	560.42	22.33	652.47	34.11	982.58	117.76	560.42	22.33
2016081306-348	0.0577	4.3765	0.7240	5.8048	0.0908	3.5948	0.6581	560.53	19.30	553.03	24.76	519.67	96.05	560.53	19.30
2016081306-394	0.0602	9.3959	0.7564	13.2244	0.0911	9.2797	0.7037	561.96	49.94	571.93	57.89	610.02	203.07	561.96	49.94
2016081306-235	0.0608	4.4363	0.7646	5.6469	0.0912	4.5033	0.6388	562.47	24.26	576.69	24.85	631.39	95.54	562.47	24.26
2016081306-071	0.0585	3.0534	0.7365	4.7282	0.0912	3.8184	0.7647	562.59	20.57	560.34	20.36	548.97	66.68	562.59	20.57
2016081306-238	0.0692	5.9739	0.8726	7.4133	0.0913	5.2290	0.6012	563.45	28.21	636.97	35.09	905.67	123.13	563.45	28.21
2016081306-353	0.0624	3.6641	0.7937	5.5671	0.0921	4.0938	0.7531	567.86	22.25	593.26	25.02	689.10	78.16	567.86	22.25
2016081306-390	0.0605	8.3390	0.7700	11.6507	0.0922	8.3385	0.6986	568.40	45.37	579.74	51.51	622.30	179.85	568.40	45.37
2016081306-044	0.0633	5.8162	0.8067	10.7406	0.0923	8.8423	0.8409	569.25	48.18	600.59	48.73	719.16	123.45	569.25	48.18
2016081306-311	0.0709	8.3112	0.9069	10.5761	0.0926	6.4159	0.6185	571.18	35.07	655.40	51.11	955.17	169.98	571.18	35.07
2016081306-219	0.0738	9.6947	0.9442	10.8844	0.0927	5.1501	0.4550	571.77	28.18	675.08	53.72	1035.14	195.84	571.77	28.18
2016081306-133	0.0809	9.6638	1.0386	14.0957	0.0930	9.6719	0.7293	573.20	53.05	723.22	73.04	1219.65	189.96	573.20	53.05
2016081306-247	0.0592	4.5158	0.7607	6.1829	0.0932	4.7499	0.6878	574.42	26.10	574.42	27.13	572.73	98.21	574.42	26.10
2016081306-323	0.0635	6.0995	0.8163	8.1566	0.0932	5.3329	0.6640	574.48	29.31	605.97	37.24	723.35	129.38	574.48	29.31
2016081306-084	0.0624	5.4798	0.8062	7.0124	0.0936	4.5598	0.6245	576.92	25.16	600.32	31.79	687.23	116.92	576.92	25.16
2016081306-223	0.0592	4.5462	0.7686	5.4471	0.0941	5.8471	0.6780	579.86	32.43	578.97	24.04	573.58	98.86	579.86	32.43
2016081306-170	0.0607	5.9036	0.7911	8.0497	0.0945	6.0549	0.6833	582.32	33.71	591.77	36.12	626.98	127.23	582.32	33.71
2016081306-008	0.0628	2.9303	0.8192	4.0738	0.0946	2.7616	0.6949	582.49	15.38	607.60	18.63	700.30	62.39	582.49	15.38
2016081306-343	0.0605	5.8474	0.7933	7.5298	0.0950	4.6380	0.6302	585.32	25.95	593.04	33.83	620.21	126.16	585.32	25.95
2016081306-169	0.0643	9.5694	0.8468	11.5469	0.0954	7.1803	0.5627	587.38	40.31	622.86	53.81	752.81	202.02	587.38	40.31
2016081306-073	0.0649	6.7556	0.8581	9.3098	0.0958	6.5256	0.6882	589.62	36.77	629.10	43.68	771.51	142.19	589.62	36.77
2016081306-351	0.0660	4.8839	0.8731	6.3664	0.0958	3.9839	0.6417	590.00	22.46	637.27	30.14	806.18	102.23	590.00	22.46
2016081306-144	0.0600	3.3378	0.7948	5.3797	0.0960	3.8108	0.7883	590.75	21.51	593.90	24.19	604.25	72.21	590.75	21.51
2016081306-134	0.0608	4.3326	0.8158	8.0619	0.0972	5.7607	0.8549	597.79	32.89	605.72	36.79	633.48	93.27	597.79	32.89
2016081306-352	0.0615	12.9826	0.8287	18.2749	0.0976	12.8303	0.7038	600.07	73.52	612.87	84.28	657.88	278.35	600.07	73.52
2016081306-064	0.0611	4.4107	0.8232	6.3387	0.0976	4.8920	0.7201	600.60	28.05	609.81	29.07	642.18	94.81	600.60	28.05
2016081306-055	0.0605	10.9046	0.8183	15.7965	0.0980	11.4750	0.7235	602.48	66.00	607.11	72.31	622.67	235.17	602.48	66.00
2016081306-125	0.0616	10.1163	0.8334	15.9914	0.0981	10.8554	0.7812	603.03	62.49	615.50	73.94	659.00	216.86	603.03	62.49
2016081306-363	0.0641	5.4486	0.8739	6.9815	0.0987	4.4579	0.6254	606.85	25.82	637.68	33.07	745.94	115.15	606.85	25.82
2016081306-096	0.0613	4.1302	0.8365	5.7500	0.0988	4.0696	0.6958	607.15	23.58	617.24	26.60	651.51	88.65	607.15	23.58
2016081306-039	0.0619	3.4806	0.8436	5.1146	0.0988	3.5348	0.7340	607.51	20.49	621.10	23.77	669.39	74.48	607.51	20.49
2016081306-204	0.0622	2.8325	0.8547	3.9052	0.0996	2.8448	0.6895	612.07	16.61	627.23	18.28	680.54	60.50	612.07	16.61
2016081306-289	0.0646	4.6631	0.8991	6.4124	0.1009	4.4070	0.6864	619.53	26.03	651.24	30.83	760.92	98.31	619.53	26.03
2016081306-118	0.0625	4.5463	0.8744	8.9420	0.1013	6.7742	0.8682	621.94	40.16	637.98	42.38	692.41	96.92	621.94	40.16
2016081306-154	0.0630	4.5505	0.8837	5.0493	0.1017	3.3911	0.4756	624.12	20.17	642.96	24.06	708.39	96.76	624.12	20.17
2016081306-067	0.0604	6.3798	0.8505	9.1705	0.1020	6.8266	0.7188	626.40	40.75	624.93	42.82	617.53	137.71	626.40	40.75
2016081306-250	0.0651	6.9234	0.9226	8.7100	0.1027	5.4054	0.6069	629.92	32.44	663.72	42.46	778.67	145.56	629.92	32.44
2016081306-259	0.0603	9.1232	0.8725	13.3050	0.1049	9.7131	0.7279	643.25	59.47	636.91	63.03	612.82	197.08	643.25	59.47
2016081306-304	0.0611	5.5738	0.8945	7.9658	0.1060	5.4750	0.7150	649.76	33.84	648.78	38.21	643.36	119.79	649.76	33.84
2016081306-051	0.0654	4.0146	0.9833	6.6188	0.1089	5.1668	0.7952	666.46	32.71	695.28	33.33	787.95	84.28	666.46	32.71
2016081306-042	0.0648	5.6131	0.9762	7.8361	0.1092	5.3201	0.6980	668.27	33.77	691.64	39.32	766.84	118.23	668.27	33.77

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-06, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975600, LONGITUDE: -69.677550 ACCEPTED															
2016081306-385	0.0622	3.4214	0.9900	5.6095	0.1154	4.8051	0.7949	704.04	32.05	698.73	28.34	679.44	73.10	704.04	32.05
2016081306-260	0.0648	10.4321	1.1341	14.2902	0.1268	9.7944	0.6834	769.48	71.04	769.72	77.26	768.79	219.67	769.48	71.04
2016081306-088	0.0657	4.2937	1.1643	6.5843	0.1284	5.0773	0.7582	778.83	37.25	783.96	35.98	796.01	90.02	778.83	37.25
2016081306-166	0.0712	3.0419	1.2792	4.1251	0.1302	4.1908	0.7325	789.01	31.12	836.51	23.51	963.71	62.13	789.01	31.12
2016081306-263	0.0677	13.9721	1.2197	18.3599	0.1306	11.9338	0.6487	791.20	88.86	809.66	102.79	859.15	290.05	791.20	88.86
2016081306-387	0.0674	7.4774	1.2560	11.6262	0.1351	9.0877	0.7659	816.90	69.73	826.13	65.82	848.92	155.47	848.92	155.47
2016081306-320	0.0696	6.1025	1.3465	8.4746	0.1401	5.8045	0.6939	845.21	45.98	866.03	49.42	917.57	125.52	917.57	125.52
2016081306-162	0.0698	3.7059	1.4089	4.6527	0.1463	4.2087	0.6544	880.41	34.64	892.70	27.64	922.13	76.17	922.13	76.17
2016081306-010	0.0704	4.3189	1.4620	6.8891	0.1504	5.2392	0.7793	903.30	44.16	914.82	41.56	940.78	88.52	940.78	88.52
2016081306-178	0.0708	3.5765	1.5221	4.8010	0.1558	4.4184	0.7020	933.41	38.40	939.30	29.43	951.96	73.18	951.96	73.18
2016081306-165	0.0712	6.2661	1.4146	7.7966	0.1441	5.5966	0.6055	867.56	45.43	895.08	46.41	962.54	128.01	962.54	128.01
2016081306-377	0.0715	5.9055	1.4746	10.2982	0.1494	8.5898	0.8194	897.57	71.98	920.02	62.39	971.92	120.47	971.92	120.47
2016081306-294	0.0723	6.9957	1.6758	10.1099	0.1679	7.3019	0.7219	1000.32	67.66	999.40	64.38	995.59	142.18	995.59	142.18
2016081306-329	0.0726	6.6503	1.5852	9.5995	0.1581	6.8030	0.7213	946.47	59.89	964.40	59.84	1003.33	135.00	1003.33	135.00
2016081306-184	0.0728	4.0114	1.4893	5.1728	0.1483	5.4275	0.7146	891.58	45.19	926.02	31.43	1007.65	81.38	1007.65	81.38
2016081306-142	0.0728	4.0894	1.6431	6.5403	0.1635	4.7722	0.7822	976.00	43.22	986.89	41.31	1009.57	82.94	1009.57	82.94
2016081306-031	0.0730	4.5134	1.4289	5.9867	0.1418	3.7421	0.6578	855.00	29.96	901.10	35.78	1014.48	91.47	1014.48	91.47
2016081306-150	0.0732	7.7465	1.6059	10.8841	0.1590	7.6579	0.7025	951.03	67.71	972.52	68.21	1019.99	156.87	1019.99	156.87
2016081306-013	0.0733	2.9093	1.7081	5.3581	0.1688	4.2604	0.8410	1005.72	39.67	1011.56	34.33	1022.41	58.89	1022.41	58.89
2016081306-371	0.0736	4.1939	1.6818	6.0558	0.1655	4.5803	0.7222	987.51	41.94	1001.67	38.58	1030.38	84.78	1030.38	84.78
2016081306-245	0.0738	3.5164	1.6336	4.4554	0.1605	3.4944	0.6325	959.49	31.15	983.25	28.07	1035.10	71.03	1035.10	71.03
2016081306-302	0.0742	6.7929	1.7108	10.0475	0.1672	7.2386	0.7370	996.44	66.83	1012.60	64.47	1045.83	137.00	1045.83	137.00
2016081306-208	0.0742	3.0750	1.6707	4.6328	0.1633	3.4651	0.7480	974.98	31.35	997.46	29.44	1046.36	62.01	1046.36	62.01
2016081306-282	0.0743	3.4470	1.6610	4.9491	0.1620	3.7692	0.7188	967.63	33.87	993.74	31.38	1050.16	69.47	1050.16	69.47
2016081306-349	0.0744	7.6674	1.7660	10.6696	0.1720	7.3097	0.6955	1023.18	69.16	1033.07	69.28	1051.70	154.50	1051.70	154.50
2016081306-085	0.0746	12.0783	1.7243	17.3241	0.1674	12.4540	0.7169	997.89	115.15	1017.64	111.79	1058.02	243.14	1058.02	243.14
2016081306-257	0.0747	13.8368	1.9063	20.1179	0.1849	14.6228	0.7259	1093.58	147.11	1083.29	134.77	1061.09	278.42	1061.09	278.42
2016081306-291	0.0748	7.5378	1.6103	10.6885	0.1561	7.5811	0.7090	934.90	65.98	974.22	67.05	1062.22	151.64	1062.22	151.64
2016081306-322	0.0748	13.6511	1.8560	19.3679	0.1797	13.7068	0.7094	1065.48	134.63	1065.58	128.48	1063.71	274.57	1063.71	274.57
2016081306-191	0.0749	7.2637	1.6519	9.0369	0.1599	6.9062	0.6137	956.25	61.38	990.29	57.22	1064.99	146.07	1064.99	146.07
2016081306-344	0.0749	6.0767	1.5777	8.4118	0.1526	5.6756	0.6917	915.28	48.43	961.46	52.32	1066.32	122.18	1066.32	122.18
2016081306-234	0.0751	9.6574	1.7738	13.6243	0.1711	10.0214	0.7060	1018.07	94.38	1035.92	88.69	1072.17	194.00	1072.17	194.00
2016081306-300	0.0755	3.2604	1.6982	4.9832	0.1630	3.4338	0.7595	973.54	31.03	1007.86	31.86	1081.45	65.40	1081.45	65.40
2016081306-100	0.0759	5.7816	1.8486	8.3735	0.1765	6.1030	0.7234	1047.62	59.01	1062.92	55.23	1091.76	115.80	1091.76	115.80
2016081306-137	0.0761	4.1636	1.5728	7.7178	0.1498	5.4029	0.8564	900.06	45.39	959.54	47.94	1096.67	83.33	1096.67	83.33
2016081306-126	0.0764	4.2775	1.7960	11.4511	0.1704	8.7910	0.9443	1014.10	82.50	1044.01	74.82	1104.66	85.51	1104.66	85.51
2016081306-029	0.0765	5.3523	1.8147	8.1791	0.1719	6.0438	0.7564	1022.75	57.16	1050.79	53.59	1108.09	106.94	1108.09	106.94
2016081306-164	0.0766	10.6230	1.8374	15.0482	0.1739	11.1086	0.7089	1033.35	106.07	1058.93	99.26	1110.94	212.16	1110.94	212.16
2016081306-005	0.0766	4.2662	1.7518	6.3105	0.1657	4.6085	0.7369	988.18	42.22	1027.82	40.81	1111.09	85.20	1111.09	85.20
2016081306-246	0.0768	4.3239	1.8529	5.6670	0.1749	4.2597	0.6538	1039.18	40.88	1064.47	37.39	1115.13	86.30	1115.13	86.30
2016081306-146	0.0769	14.8328	1.6777	22.0032	0.1581	16.1509	0.7386	946.26	142.16	1000.13	140.88	1118.69	295.90	1118.69	295.90
2016081306-337	0.0769	3.7030	2.0352	4.9199	0.1917	3.2820	0.6585	1130.63	34.04	1127.36	33.51	1118.84	73.87	1118.84	73.87
2016081306-388	0.0776	8.5132	2.2243	13.5889	0.2076	10.7476	0.7795	1216.22	119.14	1188.72	95.47	1137.03	169.37	1137.03	169.37
2016081306-163	0.0778	7.3488	1.9742	9.7812	0.1839	7.1739	0.6636	1088.23	71.84	1106.73	66.02	1142.16	146.09	1142.16	146.09
2016081306-195	0.0779	3.7915	1.9670	6.6739	0.1830	5.5706	0.8230	1083.28	55.55	1104.30	44.96	1144.38	75.35	1144.38	75.35
2016081306-381	0.0784	8.5496	2.1120	11.5200	0.1953	7.8879	0.6704	1149.90	83.08	1152.74	79.55	1155.90	169.62	1155.90	169.62
2016081306-188	0.0785	5.3502	2.0246	7.3124	0.1869	6.6058	0.7089	1104.46	67.05	1123.80	49.74	1160.04	106.08	1160.04	106.08
2016081306-131	0.0785	6.2489	1.8110	10.1252	0.1671	7.1916	0.7910	995.93	66.37	1049.43	66.33	1160.27	123.90	1160.27	123.90
2016081306-241	0.0786	5.5149	1.9887	7.2768	0.1833	5.2214	0.6554	1084.85	52.14	1111.68	49.20	1162.99	109.30	1162.99	109.30
2016081306-389	0.0790	5.8499	2.0857	8.6830	0.1913	6.6709	0.7395	1128.37	69.06	1144.13	59.66	1172.16	115.79	1172.16	115.79

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-06, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975600, LONGITUDE: -69.677550 ACCEPTED															
2016081306-090	0.0791	8.8253	2.0638	13.5900	0.1890	10.3644	0.7605	1116.13	106.23	1136.87	93.21	1174.22	174.62	1174.22	174.62
2016081306-239	0.0797	3.7080	1.9889	4.6442	0.1809	3.9865	0.6404	1071.72	39.36	1111.74	31.39	1189.32	73.21	1189.32	73.21
2016081306-315	0.0800	6.1402	2.0437	8.0648	0.1851	5.0748	0.6486	1094.70	51.09	1130.19	55.04	1197.05	121.09	1197.05	121.09
2016081306-050	0.0801	5.7537	2.1941	9.0380	0.1986	6.8982	0.7712	1167.95	73.69	1179.17	63.12	1198.30	113.45	1198.30	113.45
2016081306-345	0.0803	7.0469	2.1829	9.4449	0.1969	6.1586	0.6660	1158.78	65.32	1175.62	65.86	1204.46	138.82	1204.46	138.82
2016081306-136	0.0806	3.9924	2.1204	7.7200	0.1905	5.5337	0.8694	1124.31	57.09	1155.46	53.32	1212.56	78.56	1212.56	78.56
2016081306-226	0.0809	5.3475	2.3448	6.3982	0.2100	6.1259	0.6361	1228.78	68.54	1225.97	45.57	1219.37	105.12	1219.37	105.12
2016081306-360	0.0811	3.6379	1.9307	5.7569	0.1724	4.5527	0.7752	1025.21	43.15	1091.77	38.53	1224.64	71.46	1224.64	71.46
2016081306-205	0.0814	3.1606	2.0865	4.5677	0.1858	3.2976	0.7219	1098.43	33.30	1144.38	31.36	1231.00	62.03	1231.00	62.03
2016081306-106	0.0817	3.4066	2.0343	4.9890	0.1803	3.6655	0.7306	1068.83	36.10	1127.05	33.97	1238.37	66.78	1238.37	66.78
2016081306-396	0.0819	9.1777	1.9620	13.1580	0.1737	9.4028	0.7166	1032.27	89.70	1102.55	88.72	1242.50	179.81	1242.50	179.81
2016081306-078	0.0823	4.9746	2.3209	7.6734	0.2044	6.0816	0.7620	1198.94	66.54	1218.70	54.50	1251.68	97.34	1251.68	97.34
2016081306-151	0.0825	8.0139	2.0357	12.6556	0.1789	9.8044	0.7740	1060.77	95.90	1127.51	86.38	1257.19	156.68	1257.19	156.68
2016081306-244	0.0826	9.0550	2.3025	13.7177	0.2021	10.5313	0.7514	1186.78	114.17	1213.06	97.41	1258.61	177.00	1258.61	177.00
2016081306-115	0.0834	8.6012	2.4862	14.7719	0.2160	11.4380	0.8140	1260.59	130.98	1268.03	107.37	1278.07	167.66	1278.07	167.66
2016081306-143	0.0838	3.6535	2.0678	5.7648	0.1788	4.0751	0.7767	1060.52	39.85	1138.21	39.47	1287.97	71.12	1287.97	71.12
2016081306-292	0.0848	2.9187	2.2582	4.3644	0.1929	3.2520	0.7435	1137.08	33.90	1199.35	30.72	1311.66	56.63	1311.66	56.63
2016081306-056	0.0851	2.3988	2.5418	4.6982	0.2165	4.1681	0.8602	1263.44	47.82	1284.07	34.25	1317.15	46.50	1317.15	46.50
2016081306-193	0.0856	9.1589	2.4068	13.3282	0.2037	10.6089	0.7295	1195.30	115.76	1244.62	95.89	1329.53	177.24	1329.53	177.24
2016081306-287	0.0864	11.4326	2.5390	15.8044	0.2131	11.0227	0.6905	1245.08	124.82	1283.28	115.63	1346.18	220.73	1346.18	220.73
2016081306-024	0.0867	6.3487	2.4185	8.4430	0.2022	5.4689	0.6593	1186.89	59.29	1248.10	60.72	1353.84	122.45	1353.84	122.45
2016081306-052	0.0871	8.0010	2.3330	12.4168	0.1942	9.4428	0.7647	1144.09	99.00	1222.38	88.47	1361.77	154.14	1361.77	154.14
2016081306-068	0.0882	10.8362	2.4704	14.4301	0.2030	9.6960	0.6605	1191.18	105.46	1263.41	104.67	1386.72	208.05	1386.72	208.05
2016081306-065	0.0883	2.5590	2.5979	5.2439	0.2132	4.9149	0.8751	1246.07	55.69	1300.04	38.47	1388.47	49.12	1388.47	49.12
2016081306-135	0.0889	8.9244	2.6071	12.5401	0.2125	8.0357	0.7055	1241.99	90.78	1302.63	92.28	1402.16	170.98	1402.16	170.98
2016081306-313	0.0895	6.1028	2.4217	9.7355	0.1961	7.4781	0.7792	1154.53	79.05	1249.07	70.07	1414.05	116.73	1414.05	116.73
2016081306-214	0.0895	4.2298	2.4203	7.0453	0.1960	5.8125	0.8001	1153.93	61.41	1248.63	50.66	1414.09	80.91	1414.09	80.91
2016081306-350	0.0922	11.7113	2.9186	17.2873	0.2292	12.6842	0.7356	1330.39	152.50	1386.75	131.47	1472.33	222.25	1472.33	222.25
2016081306-316	0.0950	6.6030	3.2646	10.3301	0.2491	7.8439	0.7691	1433.73	100.84	1472.66	80.46	1527.34	124.40	1527.34	124.40
2016081306-034	0.0953	12.3781	3.4660	18.0412	0.2637	13.0660	0.7275	1508.68	175.80	1519.52	143.11	1533.33	233.02	1533.33	233.02
2016081306-109	0.0961	3.1212	3.0779	6.8212	0.2320	6.0777	0.8892	1345.09	73.79	1427.22	52.32	1549.37	58.63	1549.37	58.63
2016081306-254	0.0963	10.2013	3.1330	14.1772	0.2358	9.8732	0.6944	1364.97	121.47	1440.84	109.55	1553.23	191.54	1553.23	191.54
2016081306-053	0.0966	3.3997	3.1275	5.7240	0.2346	4.4956	0.8047	1358.74	55.08	1439.48	44.07	1559.37	63.78	1559.37	63.78
2016081306-083	0.0967	6.8069	3.4224	10.4030	0.2565	7.9709	0.7563	1471.97	104.91	1509.56	81.92	1560.52	127.69	1560.52	127.69
2016081306-128	0.0968	4.4780	2.9393	12.0447	0.2200	9.4592	0.9413	1281.73	109.96	1392.09	91.50	1563.19	83.97	1563.19	83.97
2016081306-020	0.0978	5.1843	3.5948	7.4791	0.2663	5.2906	0.7209	1521.79	71.72	1548.39	59.48	1583.36	96.96	1583.36	96.96
2016081306-380	0.0978	6.7137	3.7022	11.7356	0.2741	9.7600	0.8203	1561.59	135.38	1571.84	94.09	1583.54	125.56	1583.54	125.56
2016081306-237	0.0986	9.3771	3.1819	11.9172	0.2338	7.8844	0.6186	1354.16	96.31	1452.78	92.32	1598.68	175.04	1598.68	175.04
2016081306-174	0.0990	8.0356	3.4514	11.5765	0.2528	8.7270	0.7206	1452.80	113.53	1516.18	91.39	1604.78	149.88	1604.78	149.88
2016081306-002	0.0991	5.5968	3.1758	10.0948	0.2322	8.3784	0.8322	1345.78	101.77	1451.30	78.11	1607.36	104.36	1607.36	104.36
2016081306-094	0.1001	9.6219	3.3833	13.7560	0.2448	9.8593	0.7147	1411.80	125.02	1500.54	108.22	1625.74	178.98	1625.74	178.98
2016081306-103	0.1031	2.1833	3.8824	3.9623	0.2728	3.3898	0.8348	1554.86	46.83	1610.03	32.00	1680.46	40.32	1680.46	40.32
2016081306-392	0.1037	3.8320	4.0939	5.4536	0.2861	4.2879	0.7151	1622.05	61.49	1653.09	44.53	1691.17	70.68	1691.17	70.68
2016081306-286	0.1040	4.1655	3.6242	6.5214	0.2525	5.2538	0.7702	1451.21	68.27	1554.87	51.94	1697.14	76.77	1697.14	76.77
2016081306-277	0.1041	9.9005	3.9574	14.7185	0.2754	10.8715	0.7400	1568.37	151.38	1625.51	119.86	1698.79	182.43	1698.79	182.43
2016081306-182	0.1046	5.2058	3.8869	7.6258	0.2694	6.3495	0.7370	1537.98	86.88	1610.97	61.66	1706.58	95.83	1706.58	95.83
2016081306-332	0.1051	3.3481	3.8555	4.8107	0.2658	3.1787	0.7206	1519.42	43.03	1604.42	38.81	1715.87	61.56	1715.87	61.56
2016081306-036	0.1051	3.2725	4.1266	5.6108	0.2846	4.3843	0.8129	1614.43	62.62	1659.59	45.89	1715.91	60.17	1715.91	60.17
2016081306-196	0.1052	2.8960	3.6298	4.0314	0.2501	2.9548	0.6966	1438.91	38.11	1556.08	32.10	1717.54	53.24	1717.54	53.24
2016081306-212	0.1058	6.7497	4.0078	9.1787	0.2745	6.3820	0.6779	1563.81	88.62	1635.78	74.72	1727.84	123.92	1727.84	123.92

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-06, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975600, LONGITUDE: -69.677550 ACCEPTED															
2016081306-057	0.1063	2.7733	4.1654	6.0596	0.2840	5.4846	0.8893	1611.70	78.22	1667.24	49.66	1736.35	50.86	1736.35	50.86
2016081306-023	0.1071	3.9347	4.5894	6.2392	0.3104	4.7303	0.7763	1742.79	72.24	1747.35	52.06	1751.39	72.03	1751.39	72.03
2016081306-192	0.1073	4.3077	4.1005	5.5060	0.2769	5.5273	0.6951	1575.60	77.27	1654.40	44.98	1754.58	78.83	1754.58	78.83
2016081306-037	0.1074	3.3487	4.3443	5.6690	0.2931	4.4017	0.8075	1656.80	64.31	1701.80	46.82	1756.37	61.26	1756.37	61.26
2016081306-121	0.1083	5.7523	3.8425	9.0545	0.2570	5.9577	0.7822	1474.55	78.53	1601.70	73.08	1770.91	105.05	1770.91	105.05
2016081306-093	0.1089	2.8059	4.6370	4.5472	0.3085	3.6635	0.7871	1733.28	55.68	1755.95	38.00	1780.61	51.18	1780.61	51.18
2016081306-018	0.1091	11.7083	4.1606	17.8752	0.2765	13.4477	0.7556	1573.51	187.81	1666.30	147.36	1783.77	213.49	1783.77	213.49
2016081306-190	0.1092	3.3219	4.1992	4.1632	0.2788	5.0088	0.7525	1585.17	70.39	1673.85	34.15	1785.62	60.56	1785.62	60.56
2016081306-368	0.1102	4.4290	4.7355	6.4026	0.3112	5.0409	0.7248	1746.67	77.13	1773.54	53.73	1803.10	80.57	1803.10	80.57
2016081306-335	0.1110	13.0095	4.6776	14.4420	0.3053	6.2930	0.4342	1717.40	94.88	1763.23	121.39	1815.97	236.24	1815.97	236.24
2016081306-283	0.1123	3.1033	4.9444	4.4063	0.3189	3.3734	0.7119	1784.57	52.59	1809.87	37.23	1837.62	56.22	1837.62	56.22
2016081306-269	0.1127	14.1417	4.6334	20.1581	0.2980	14.4436	0.7126	1681.56	213.86	1755.30	169.92	1842.84	255.88	1842.84	255.88
2016081306-025	0.1135	3.3740	4.4477	5.3642	0.2839	3.9582	0.7785	1610.94	56.42	1721.27	44.50	1856.83	60.95	1856.83	60.95
2016081306-340	0.1142	4.1565	5.2279	5.9778	0.3317	4.1789	0.7190	1846.74	67.11	1857.18	50.99	1866.85	75.00	1866.85	75.00
2016081306-139	0.1147	3.5135	4.7750	7.4240	0.3017	5.4529	0.8955	1699.84	81.48	1780.51	62.41	1874.86	63.34	1874.86	63.34
2016081306-076	0.1162	5.1213	4.3922	9.6321	0.2740	8.3308	0.8471	1560.87	115.50	1710.87	79.83	1897.83	92.07	1897.83	92.07
2016081306-098	0.1173	4.8736	5.4066	7.6319	0.3337	5.9204	0.7696	1856.39	95.50	1885.90	65.49	1916.14	87.43	1916.14	87.43
2016081306-221	0.1199	4.0707	5.5403	5.7952	0.3349	4.5765	0.7156	1862.23	74.02	1906.87	49.89	1954.23	72.71	1954.23	72.71
2016081306-310	0.1205	3.0675	5.2473	4.8937	0.3154	3.5953	0.7805	1767.41	55.58	1860.34	41.76	1964.12	54.73	1964.12	54.73
2016081306-356	0.1210	11.8738	5.0030	18.1479	0.2996	13.7194	0.7563	1689.22	203.94	1819.84	154.76	1970.67	211.70	1970.67	211.70
2016081306-358	0.1214	6.1732	5.6424	9.0228	0.3368	6.5699	0.7293	1871.26	106.71	1922.60	77.98	1976.27	109.99	1976.27	109.99
2016081306-378	0.1225	3.3820	6.2750	4.5052	0.3711	3.3859	0.6662	2034.77	59.08	2014.97	39.48	1992.72	60.14	1992.72	60.14
2016081306-319	0.1242	4.5979	5.7599	7.3948	0.3361	5.6530	0.7834	1868.03	91.68	1940.41	64.06	2016.77	81.53	2016.77	81.53
2016081306-268	0.1291	11.3658	6.7373	15.9254	0.3783	11.2566	0.7005	2068.22	199.22	2077.52	141.72	2085.38	199.94	2085.38	199.94
2016081306-113	0.1380	5.0431	6.4216	9.0794	0.3370	7.0759	0.8333	1872.15	114.98	2035.23	79.93	2202.55	87.54	2202.55	87.54
2016081306-038	0.1436	2.7392	7.0763	4.9822	0.3572	3.9711	0.8362	1969.01	67.38	2121.07	44.35	2270.67	47.20	2270.67	47.20
2016081306-248	0.1760	6.9403	10.2098	9.9718	0.4204	7.4830	0.7187	2262.16	142.79	2453.96	92.47	2615.67	115.49	2615.67	115.49
2016081306-261	0.1879	5.5995	10.8634	8.1462	0.4190	5.9629	0.7263	2256.01	113.52	2511.50	75.88	2723.75	92.24	2723.75	92.24
2016081306-279	0.1911	5.2246	13.5862	7.4876	0.5152	5.5101	0.7166	2678.62	120.79	2721.30	70.93	2751.80	85.84	2751.80	85.84
2016081306-331	0.2062	6.2427	13.1940	10.9140	0.4635	8.8496	0.8203	2454.90	180.72	2693.63	103.37	2876.23	101.44	2876.23	101.44
2016081306-296	0.2220	4.7998	16.6047	7.2788	0.5421	5.1829	0.7529	2792.07	117.46	2912.29	69.82	2995.05	77.18	2995.05	77.18
2016081306-317	0.2336	7.5272	17.7926	10.6664	0.5520	7.4517	0.7086	2833.28	170.88	2978.59	102.89	3076.60	120.25	3076.60	120.25
2016081306-272	0.2703	2.7267	24.4340	4.1805	0.6552	3.5068	0.7619	3248.45	89.49	3285.87	40.80	3307.53	42.76	3307.53	42.76
2016081306-399	0.7919	6.6892	130.6755	9.5316	1.1960	6.7540	0.7124	5070.91	237.23	4955.42	96.33	4907.28	95.85	4907.28	95.85
20160813-06, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975600, LONGITUDE: -69.677550 REJECTED															
2016081306-130	0.0463	20.2259	0.0453	26.5453	0.0071	16.8467	0.6478	45.53	7.64	45.01	11.69	14.84	486.16	45.53	7.64
2016081306-370	0.1097	38.0201	0.1104	38.7324	0.0073	7.5492	0.1909	46.83	3.52	106.30	39.11	1793.74	692.42	46.83	3.52
2016081306-295	0.0978	17.6198	0.0986	18.7972	0.0073	6.3085	0.3486	46.92	2.95	95.45	17.13	1581.87	329.61	46.92	2.95
2016081306-199	0.0724	12.8515	0.0829	14.3296	0.0083	6.4063	0.4424	53.29	3.40	80.85	11.14	996.22	261.16	53.29	3.40
2016081306-091	0.1590	38.4584	0.2160	45.8384	0.0098	24.9545	0.5441	63.13	15.68	198.61	82.87	2445.16	650.98	63.13	15.68
2016081306-181	0.0900	8.8439	0.1313	10.1685	0.0106	5.8693	0.4996	67.83	3.96	125.29	11.99	1425.44	168.90	67.83	3.96
2016081306-175	0.0927	14.3753	0.1745	14.7908	0.0137	4.6239	0.2449	87.41	4.01	163.35	22.32	1481.25	272.49	87.41	4.01
2016081306-171	0.0879	9.8001	0.1659	11.0536	0.0137	5.7320	0.4656	87.62	4.99	155.84	15.97	1379.61	188.34	87.62	4.99
2016081306-167	0.1325	15.7457	0.2682	17.2009	0.0147	7.5987	0.4043	93.88	7.08	241.27	36.96	2131.90	275.51	93.88	7.08
2016081306-145	0.1542	5.8982	0.3377	7.4684	0.0159	4.2084	0.6156	101.54	4.24	295.43	19.15	2392.57	100.39	101.54	4.24
2016081306-022	0.2315	18.2620	0.5326	20.3046	0.0167	8.8152	0.4371	106.57	9.32	433.52	71.76	3062.77	292.05	106.57	9.32
2016081306-251	0.0680	8.4258	0.1628	11.6428	0.0173	8.1149	0.6902	110.79	8.91	153.12	16.55	869.90	174.62	110.79	8.91
2016081306-176	0.4075	11.3721	1.0806	16.3103	0.0192	12.0816	0.7172	122.73	14.69	743.94	86.22	3937.12	170.68	122.73	14.69
2016081306-157	0.0499	24.9326	0.1660	35.3341	0.0241	25.1709	0.7086	153.41	38.16	155.91	51.11	192.66	579.77	153.41	38.16

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-06, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975600, LONGITUDE: -69.677550 REJECTED															
2016081306-124	0.4839	17.6708	1.6213	22.2483	0.0243	12.1318	0.6111	154.60	18.53	978.50	140.62	4192.78	261.23	154.60	18.53
2016081306-318	0.0821	10.3393	0.2818	11.5650	0.0249	5.0261	0.4482	158.33	7.86	252.07	25.82	1248.14	202.41	158.33	7.86
2016081306-026	0.1826	21.1932	0.6996	22.6480	0.0278	7.8774	0.3527	176.56	13.72	538.54	94.93	2676.58	350.64	176.56	13.72
2016081306-395	0.1203	16.0144	0.6572	17.4064	0.0396	6.7847	0.3919	250.33	16.66	512.92	70.20	1960.49	285.85	250.33	16.66
2016081306-202	0.0905	8.1454	0.5018	8.9120	0.0402	3.7338	0.4060	253.84	9.29	412.91	30.24	1436.97	155.32	253.84	9.29
2016081306-305	0.0752	10.9394	0.4332	12.8586	0.0417	6.4663	0.5261	263.45	16.69	365.45	39.48	1075.10	219.65	263.45	16.69
2016081306-186	0.0534	15.1839	0.3136	21.7000	0.0426	16.0975	0.7149	268.73	42.37	276.95	52.65	345.44	343.49	268.73	42.37
2016081306-328	0.0669	11.3291	0.4932	19.1117	0.0534	15.3383	0.8054	335.46	50.14	407.09	64.18	834.49	236.09	335.46	50.14
2016081306-147	0.2483	20.0376	1.8609	22.9325	0.0543	11.0052	0.4864	340.93	36.55	1067.29	152.60	3174.09	317.56	340.93	36.55
2016081306-001	0.1337	18.1101	1.2427	23.4895	0.0673	14.9465	0.6369	420.00	60.78	820.09	132.91	2147.46	316.32	420.00	60.78
2016081306-229	0.0818	4.1629	0.7738	6.7918	0.0686	7.3474	0.8295	427.44	30.39	581.93	30.09	1240.63	81.58	427.44	30.39
2016081306-299	0.1324	22.2339	1.2900	23.7287	0.0706	8.1009	0.3494	439.89	34.45	841.32	136.54	2129.62	389.14	439.89	34.45
2016081306-046	0.0562	21.7800	0.5616	31.3485	0.0725	22.4725	0.7192	450.97	97.89	452.55	114.96	458.87	482.93	450.97	97.89
2016081306-369	0.0903	4.0247	0.9378	5.3979	0.0753	4.1198	0.6725	467.78	18.59	671.75	26.53	1431.13	76.80	467.78	18.59
2016081306-372	0.0639	13.9602	0.6664	21.9812	0.0756	17.0346	0.7724	469.66	77.16	518.55	89.49	737.66	295.43	469.66	77.16
2016081306-111	0.0646	14.5712	0.7452	21.4730	0.0835	15.5512	0.7346	517.20	77.29	565.45	93.36	761.80	307.17	517.20	77.29
2016081306-303	0.0906	9.0940	1.0989	10.9929	0.0879	5.9777	0.5621	542.93	31.13	752.83	58.51	1438.57	173.37	542.93	31.13
2016081306-114	0.1077	10.1244	1.3917	12.0381	0.0936	5.9563	0.5431	576.85	32.87	885.40	71.24	1760.53	185.13	576.85	32.87
2016081306-209	0.0919	12.1255	1.1877	20.9444	0.0936	17.0774	0.8154	577.07	94.27	794.88	115.96	1466.30	230.30	577.07	94.27
2016081306-089	0.0858	4.7995	1.1212	7.4175	0.0947	5.7312	0.7625	583.21	31.96	763.56	39.83	1333.06	92.83	583.21	31.96
2016081306-225	0.0650	5.8010	0.8897	8.0065	0.0992	7.4590	0.7208	609.44	43.38	646.18	38.29	775.00	122.03	609.44	43.38
2016081306-148	0.0660	6.4060	0.9046	9.3261	0.0993	6.5316	0.7273	610.53	38.05	654.18	45.01	806.25	134.09	610.53	38.05
2016081306-200	0.0655	3.7883	0.9013	5.3787	0.0998	3.9300	0.7102	613.08	22.98	652.43	25.90	789.35	79.51	613.08	22.98
2016081306-325	0.1194	7.1250	1.6537	8.7931	0.1003	4.9909	0.5863	616.28	29.33	990.96	55.69	1947.67	127.37	616.28	29.33
2016081306-087	0.1015	5.2445	1.4222	16.8840	0.1015	16.0757	0.9505	623.40	95.53	898.29	100.99	1651.09	97.22	623.40	95.53
2016081306-281	0.0716	6.3178	1.0167	8.5966	0.1029	5.9650	0.6783	631.19	35.87	712.24	44.03	975.20	128.82	631.19	35.87
2016081306-110	0.0762	7.5036	1.0909	10.9027	0.1036	7.4586	0.7267	635.71	45.15	748.95	57.82	1101.34	150.07	635.71	45.15
2016081306-058	0.0783	2.9247	1.1248	7.1552	0.1041	6.6104	0.9127	638.59	40.19	765.27	38.48	1153.80	58.04	638.59	40.19
2016081306-362	0.0674	14.8741	0.9974	16.1904	0.1072	6.4585	0.3950	656.33	40.30	702.50	82.27	850.59	309.18	656.33	40.30
2016081306-275	0.0722	5.4101	1.0800	8.0323	0.1084	5.9013	0.7392	663.66	37.22	743.66	42.37	991.02	110.03	663.66	37.22
2016081306-391	0.0747	5.6095	1.1394	6.9366	0.1105	4.4697	0.5907	675.91	28.68	772.20	37.53	1060.04	112.89	675.91	28.68
2016081306-197	0.0781	3.0167	1.2201	7.9460	0.1133	7.4097	0.9252	691.68	48.60	809.82	44.37	1148.52	59.92	691.68	48.60
2016081306-033	0.0685	32.9759	1.1073	47.4771	0.1172	34.1350	0.7194	714.52	230.97	756.86	258.77	882.62	682.06	714.52	230.97
2016081306-364	0.0701	17.5626	1.1847	25.0139	0.1224	17.9243	0.7121	744.40	126.03	793.49	138.58	931.49	360.47	744.40	126.03
2016081306-242	0.0651	17.3177	1.1356	24.7984	0.1264	17.8826	0.7158	767.21	129.36	770.43	134.68	778.15	364.11	767.21	129.36
2016081306-104	0.0730	5.8807	1.2890	8.5482	0.1279	6.2161	0.7258	775.69	45.43	840.85	48.92	1014.33	119.19	775.69	45.43
2016081306-373	0.0889	5.3512	1.6064	8.2963	0.1309	6.4876	0.7644	792.77	48.40	972.69	51.96	1402.56	102.52	792.77	48.40
2016081306-007	0.0731	2.4067	1.3244	4.6552	0.1313	3.9365	0.8561	795.17	29.45	856.43	26.94	1016.49	48.76	795.17	29.45
2016081306-108	0.1505	8.9905	2.7402	10.4311	0.1319	5.3038	0.5071	798.67	39.84	1339.44	77.75	2351.35	153.68	798.67	39.84
2016081306-397	0.0746	16.0079	1.6401	23.1456	0.1594	16.7026	0.7223	953.51	148.07	985.73	147.02	1056.74	322.31	1056.74	322.31
2016081306-047	0.0762	2.7652	1.5357	4.8842	0.1460	3.5863	0.8298	878.54	29.45	944.77	30.04	1100.97	55.31	1100.97	55.31
2016081306-359	0.0815	9.8296	1.8542	15.2394	0.1648	11.6395	0.7642	983.50	106.18	1064.91	100.85	1233.31	192.84	1233.31	192.84
2016081306-357	0.0835	3.6276	1.6141	5.4262	0.1400	4.0180	0.7437	844.63	31.81	975.69	34.03	1281.39	70.68	1281.39	70.68
2016081306-189	0.0840	3.8896	1.6943	4.7133	0.1462	5.0870	0.6874	879.75	41.83	1006.38	30.10	1292.07	75.67	1292.07	75.67
2016081306-061	0.0854	5.3436	1.7838	7.9705	0.1514	5.9525	0.7420	908.86	50.46	1039.56	51.90	1323.92	103.49	1323.92	103.49
2016081306-228	0.0890	7.2831	1.9658	9.4683	0.1601	7.8607	0.6610	957.21	69.93	1103.88	63.81	1404.01	139.50	1404.01	139.50
2016081306-185	0.0897	5.8214	1.8579	7.0002	0.1502	5.8228	0.6013	902.11	49.02	1066.25	46.24	1418.12	111.29	1418.12	111.29
2016081306-210	0.0908	13.5412	2.2371	21.1895	0.1786	16.2982	0.7692	1059.50	159.27	1192.74	149.77	1442.37	258.02	1442.37	258.02
2016081306-140	0.0914	15.3397	1.9237	18.5318	0.1525	10.2394	0.5612	915.14	87.36	1089.36	124.43	1454.81	291.80	1454.81	291.80
2016081306-309	0.0919	6.6462	2.3793	9.2527	0.1877	6.1302	0.6966	1108.86	62.45	1236.41	66.24	1464.34	126.26	1464.34	126.26

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-06, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.975600, LONGITUDE: -69.677550 REJECTED															
2016081306-117	0.0932	7.3398	2.4299	11.5267	0.1889	8.0988	0.7744	1115.51	82.96	1251.49	83.10	1491.19	138.94	1491.19	138.94
2016081306-367	0.0932	4.2236	2.3561	6.3334	0.1832	5.1289	0.7477	1084.35	51.19	1229.39	45.18	1491.30	79.95	1491.30	79.95
2016081306-278	0.0946	6.9795	2.2732	8.7287	0.1741	5.2014	0.6005	1034.79	49.73	1204.01	61.63	1520.28	131.62	1520.28	131.62
2016081306-262	0.0975	6.0443	2.0817	10.8274	0.1547	9.0138	0.8297	927.52	77.87	1142.81	74.40	1576.68	113.15	1576.68	113.15
2016081306-120	0.0984	8.1714	2.9590	13.0437	0.2178	9.4850	0.7813	1270.32	109.37	1397.15	99.30	1593.98	152.62	1593.98	152.62
2016081306-216	0.0988	10.4530	2.7861	15.1472	0.2044	11.0551	0.7237	1198.85	120.95	1351.82	113.65	1601.09	195.06	1601.09	195.06
2016081306-255	0.1023	8.1780	2.9979	11.1011	0.2124	7.5438	0.6762	1241.52	85.20	1407.08	84.72	1666.16	151.31	1666.16	151.31
2016081306-059	0.1045	9.3956	2.7904	10.8515	0.1935	5.5254	0.5004	1140.08	57.74	1352.96	81.29	1705.89	172.97	1705.89	172.97
2016081306-308	0.1048	3.9469	2.6605	6.9391	0.1840	5.3582	0.8241	1088.88	53.68	1317.56	51.25	1710.08	72.62	1710.08	72.62
2016081306-043	0.1054	19.0372	2.5282	23.1518	0.1738	13.1147	0.5691	1032.80	125.17	1280.17	170.02	1722.09	349.76	1722.09	349.76
2016081306-062	0.1064	10.9722	2.4023	15.2016	0.1636	10.5432	0.6921	976.81	95.57	1243.27	109.41	1738.49	201.18	1738.49	201.18
2016081306-230	0.1119	10.9952	2.7898	13.1809	0.1807	7.8048	0.5529	1070.56	76.99	1352.82	98.83	1830.67	199.33	1830.67	199.33
2016081306-386	0.1120	4.1648	3.3757	6.0772	0.2184	4.7870	0.7305	1273.39	55.32	1498.77	47.64	1831.92	75.49	1831.92	75.49
2016081306-160	0.1127	4.9211	3.8309	7.0944	0.2465	5.9927	0.7295	1420.30	76.39	1599.25	57.18	1842.73	89.04	1842.73	89.04
2016081306-102	0.1135	2.6193	2.6191	4.6925	0.1671	3.9645	0.8299	996.09	36.59	1306.02	34.50	1856.64	47.32	1856.64	47.32
2016081306-333	0.1243	4.8987	4.1105	7.4723	0.2395	5.4781	0.7555	1383.99	68.23	1656.39	61.10	2019.56	86.84	2019.56	86.84
2016081306-075	0.1550	6.2022	5.6912	11.0972	0.2660	9.3558	0.8293	1520.60	126.75	1930.03	96.12	2401.76	105.46	2401.76	105.46
2016081306-032	0.5353	62.7621	29.0682	72.1357	0.3935	35.5389	0.4930	2139.18	649.15	3455.82	875.42	4341.60	920.10	4341.60	920.10
2016081306-330	0.6163	85.4045	82.2074	126.5546	0.9664	93.3825	0.7380	4359.09	3197.17	4489.35	65535.00	4546.88	1239.42	4546.88	1239.42
2016081306-012	0.7136	17.1325	33.6246	22.7811	0.3414	14.9453	0.6591	1893.52	245.34	3599.09	228.41	4758.39	246.68	4758.39	246.68
2016081306-342	0.7290	71.7363	72.6615	115.5151	0.7220	90.5353	0.7838	3503.69	2576.00	4365.62	65535.00	4789.03	1031.80	4789.03	1031.80
2016081306-334	0.7376	22.3172	16.0956	30.5804	0.1581	20.9137	0.6837	946.20	184.10	2882.49	300.85	4805.69	320.82	4805.69	320.82
2016081306-366	0.7432	92.1954	821.2455	135.5328	8.0048	99.3639	0.7330	14167.68	8964.13	6815.29	65535.00	4816.54	1324.86	4816.54	1324.86
2016081306-070	0.7595	83.8791	521.3975	115.5860	4.9738	79.5360	0.6880	11522.17	5136.20	6354.70	65535.00	4847.70	1204.13	4847.70	1204.13
2016081306-301	0.7800	113.0543	504.8177	144.1854	4.6897	89.4748	0.6206	11208.14	6091.58	6321.95	65535.00	4885.60	1621.02	4885.60	1621.02
2016081306-365	0.7914	82.7163	865.1889	116.5916	7.9191	82.1928	0.7048	14105.99	5983.84	6868.16	65535.00	4906.37	1185.26	4906.37	1185.26
2016081306-030	0.7958	16.9628	97.8329	23.9647	0.8910	16.8850	0.7064	4107.07	513.96	4664.09	245.55	4914.19	243.01	4914.19	243.01
2016081306-326	0.8026	52.4250	539.2572	81.2288	4.8681	62.0330	0.7638	11407.16	3667.96	6388.84	1146.69	4926.28	750.76	4926.28	750.76
2016081306-099	0.8089	12.8323	90.3035	19.2026	0.8086	14.3049	0.7439	3819.88	412.85	4583.63	195.21	4937.43	183.71	4937.43	183.71
2016081306-003	0.8170	6.4125	157.4698	9.6277	1.3964	7.1546	0.7459	5633.88	268.91	5143.49	97.44	4951.67	91.76	4951.67	91.76
2016081306-355	0.8330	51.0436	148.5868	70.8546	1.2922	49.1404	0.6936	5347.35	1833.71	5084.91	888.27	4979.19	729.84	4979.19	729.84
2016081306-155	0.8382	60.2062	187.8515	114.7842	1.6244	97.7616	0.8514	6219.94	4520.05	5321.58	65535.00	4988.06	860.64	4988.06	860.64
2016081306-149	0.8597	66.0555	585.3644	118.0394	4.9348	97.8094	0.8288	11480.02	7327.42	6471.99	65535.00	5024.00	943.31	5024.00	943.31
2NAC265, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.974520, LONGITUDE: -69.675760 ACCEPTED															
2NAC265-045	0.0157	436.4687	0.0138	436.7399	0.0063	15.3975	0.0352	40.73	6.25	13.89	60.33	0.00	10520.86	40.73	6.25
2NAC265-057	0.0428	17.0273	0.0434	18.3183	0.0073	6.7691	0.3688	47.16	3.18	43.09	7.73	0.00	410.43	47.16	3.18
2NAC265-307	0.0489	31.1143	0.0549	32.4390	0.0081	9.1972	0.2829	52.07	4.77	54.22	17.13	144.17	729.99	52.07	4.77
2NAC265-034	0.0164	165.2961	0.0187	165.4552	0.0082	7.2703	0.0438	52.86	3.83	18.80	30.83	0.00	3984.38	52.86	3.83
2NAC265-231	0.0309	66.3839	0.0359	67.0453	0.0084	9.4207	0.1401	54.14	5.08	35.83	23.61	0.00	1600.15	54.14	5.08
2NAC265-317	0.0509	15.3807	0.0611	16.8133	0.0087	6.8201	0.4039	55.76	3.79	60.25	9.83	236.45	354.79	55.76	3.79
2NAC265-030	0.0573	31.2567	0.0705	32.6126	0.0089	9.3203	0.2853	57.24	5.31	69.18	21.81	502.02	688.05	57.24	5.31
2NAC265-016	0.0628	18.9190	0.0778	20.3137	0.0090	7.4207	0.3641	57.61	4.26	76.05	14.88	700.43	402.81	57.61	4.26
2NAC265-200	0.0526	47.4221	0.0684	49.7243	0.0094	14.9704	0.3008	60.49	9.01	67.20	32.34	312.25	1078.94	60.49	9.01
2NAC265-258	0.1667	113.3915	0.2201	113.8172	0.0096	9.8589	0.0864	61.36	6.02	202.02	211.51	2524.53	1903.96	61.36	6.02
2NAC265-056	0.0495	9.5669	0.0674	11.6412	0.0099	6.6469	0.5698	63.32	4.19	66.28	7.47	171.53	223.33	63.32	4.19
2NAC265-099	0.0536	15.1825	0.0736	17.2584	0.0100	8.2203	0.4755	63.84	5.22	72.10	12.01	353.46	342.96	63.84	5.22
2NAC265-361	0.0643	10.2091	0.0937	11.7532	0.0106	5.8591	0.4955	67.87	3.96	90.93	10.22	753.09	215.51	67.87	3.96
2NAC265-275	0.0741	22.9597	0.1113	24.6546	0.0109	9.0078	0.3644	69.69	6.24	107.19	25.09	1045.19	463.09	69.69	6.24
2NAC265-119	0.0551	27.2252	0.0830	29.9655	0.0109	12.5300	0.4178	70.00	8.72	80.99	23.33	416.97	608.11	70.00	8.72

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2NAC265, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.974520, LONGITUDE: -69.675760 ACCEPTED															
2NAC265-211	0.0480	16.0319	0.0730	17.5068	0.0110	7.0674	0.4017	70.68	4.97	71.51	12.09	98.26	379.35	70.68	4.97
2NAC265-160	0.0522	13.7542	0.0795	17.6922	0.0110	11.1458	0.6290	70.77	7.85	77.67	13.23	294.53	313.94	70.77	7.85
2NAC265-320	0.0500	16.0038	0.0767	17.3166	0.0111	6.6435	0.3819	71.13	4.70	75.02	12.52	194.93	371.99	71.13	4.70
2NAC265-342	0.0563	11.2833	0.0862	12.9401	0.0111	6.3675	0.4896	71.16	4.51	84.00	10.43	463.71	249.98	71.16	4.51
2NAC265-011	0.0626	41.3399	0.0963	42.7871	0.0111	11.0512	0.2579	71.46	7.85	93.40	38.20	695.66	880.85	71.46	7.85
2NAC265-063	0.0438	34.5879	0.0673	35.6310	0.0111	8.5691	0.2402	71.46	6.09	66.17	22.83	0.00	833.72	71.46	6.09
2NAC265-161	0.0538	14.1650	0.0844	16.4832	0.0114	8.4524	0.5114	72.92	6.13	82.25	13.02	361.84	319.50	72.92	6.13
2NAC265-053	0.0465	7.6581	0.0737	10.3946	0.0115	7.0422	0.6762	73.50	5.15	72.17	7.24	25.25	183.71	73.50	5.15
2NAC265-228	0.0512	12.4914	0.0817	17.9296	0.0116	12.8814	0.7174	74.22	9.51	79.78	13.76	248.41	287.51	74.22	9.51
2NAC265-149	0.0500	36.9735	0.0804	38.5105	0.0116	10.7880	0.2797	74.64	8.01	78.51	29.10	196.81	859.11	74.64	8.01
2NAC265-184	0.0540	13.7357	0.0881	15.6791	0.0118	7.5901	0.4822	75.81	5.72	85.72	12.89	370.71	309.33	75.81	5.72
2NAC265-310	0.0553	12.8026	0.0905	14.2381	0.0118	6.2619	0.4376	75.82	4.72	87.97	12.00	425.49	285.54	75.82	4.72
2NAC265-042	0.0553	9.0760	0.0904	10.9444	0.0118	6.1337	0.5588	75.91	4.63	87.91	9.22	424.53	202.46	75.91	4.63
2NAC265-172	0.0525	12.2827	0.0864	14.7033	0.0119	8.1081	0.5497	76.56	6.17	84.18	11.88	305.35	279.80	76.56	6.17
2NAC265-136	0.0565	17.3763	0.0935	19.2959	0.0120	8.4096	0.4348	76.95	6.43	90.78	16.76	470.43	384.51	76.95	6.43
2NAC265-048	0.0489	9.8536	0.0823	12.9014	0.0122	8.3401	0.6455	78.02	6.47	80.27	9.96	145.00	231.15	78.02	6.47
2NAC265-014	0.0422	15.2430	0.0712	18.1719	0.0122	9.9111	0.5444	78.36	7.72	69.88	12.27	0.00	367.42	78.36	7.72
2NAC265-189	0.0464	14.3267	0.0787	15.8863	0.0123	6.8970	0.4321	78.77	5.40	76.95	11.77	20.06	344.02	78.77	5.40
2NAC265-070	0.0578	25.3451	0.0987	27.1111	0.0124	9.6344	0.3550	79.23	7.59	95.57	24.73	522.75	555.93	79.23	7.59
2NAC265-226	0.0474	12.7831	0.0814	16.7432	0.0125	10.8360	0.6458	79.84	8.60	79.50	12.80	67.75	304.21	79.84	8.60
2NAC265-332	0.0472	7.0498	0.0814	8.8919	0.0125	5.4556	0.6095	80.00	4.34	79.43	6.79	56.92	168.11	80.00	4.34
2NAC265-298	0.0563	7.8823	0.0979	10.3049	0.0126	6.6681	0.6442	80.63	5.34	94.84	9.33	462.99	174.65	80.63	5.34
2NAC265-109	0.0420	19.4449	0.0735	22.0373	0.0127	10.3824	0.4706	81.17	8.37	72.02	15.32	0.00	468.71	81.17	8.37
2NAC265-025	0.0539	13.1076	0.0954	15.6695	0.0128	8.6033	0.5480	82.07	7.02	92.49	13.85	367.88	295.33	82.07	7.02
2NAC265-259	0.0508	17.1987	0.0898	24.5027	0.0128	17.4659	0.7123	82.08	14.25	87.36	20.51	230.53	397.16	82.08	14.25
2NAC265-354	0.0469	14.1401	0.0834	16.3863	0.0129	8.3064	0.5053	82.69	6.82	81.36	12.81	44.98	337.95	82.69	6.82
2NAC265-038	0.0467	8.5756	0.0836	11.8328	0.0130	8.1675	0.6890	82.97	6.73	81.50	9.27	35.52	205.32	82.97	6.73
2NAC265-159	0.0633	23.2739	0.1134	24.6304	0.0130	8.0852	0.3273	83.12	6.68	109.04	25.47	719.54	493.98	83.12	6.68
2NAC265-142	0.0673	12.8536	0.1205	15.3997	0.0130	8.5017	0.5508	83.13	7.02	115.52	16.82	847.22	267.32	83.13	7.02
2NAC265-225	0.0572	8.8784	0.1030	11.6548	0.0131	7.5828	0.6478	83.61	6.30	99.54	11.05	498.82	195.55	83.61	6.30
2NAC265-088	0.0478	7.8890	0.0880	10.1280	0.0133	6.3675	0.6271	85.37	5.40	85.59	8.31	89.32	186.98	85.37	5.40
2NAC265-248	0.0576	24.6127	0.1060	26.5276	0.0133	9.9204	0.3730	85.38	8.41	102.28	25.82	513.77	540.70	85.38	8.41
2NAC265-187	0.0638	9.2548	0.1189	11.8119	0.0135	7.3700	0.6214	86.43	6.33	114.03	12.74	736.47	195.89	86.43	6.33
2NAC265-357	0.0579	13.6394	0.1077	16.0414	0.0135	8.4687	0.5264	86.59	7.28	103.88	15.84	524.46	299.08	86.59	7.28
2NAC265-346	0.0499	10.8799	0.0944	14.5875	0.0137	9.7387	0.6661	87.73	8.49	91.61	12.78	192.31	253.00	87.73	8.49
2NAC265-311	0.0473	10.4329	0.0906	13.5264	0.0139	8.6320	0.6365	88.76	7.61	88.10	11.42	63.99	248.46	88.76	7.61
2NAC265-176	0.0510	13.2678	0.0979	14.7355	0.0139	6.4439	0.4351	89.13	5.70	94.81	13.34	239.41	305.89	89.13	5.70
2NAC265-020	0.0611	13.9741	0.1181	16.1977	0.0140	8.2109	0.5057	89.65	7.31	113.38	17.38	643.22	300.34	89.65	7.31
2NAC265-344	0.0514	8.9780	0.0996	11.0207	0.0140	6.4240	0.5800	89.86	5.73	96.43	10.14	260.16	206.20	89.86	5.73
2NAC265-107	0.0501	14.8178	0.0979	18.9600	0.0142	11.8392	0.6239	90.60	10.65	94.82	17.17	200.52	344.07	90.60	10.65
2NAC265-157	0.0531	14.0327	0.1046	17.9247	0.0143	11.1698	0.6222	91.49	10.15	101.05	17.24	331.99	318.21	91.49	10.15
2NAC265-196	0.0548	14.0283	0.1190	15.7109	0.0157	7.1063	0.4503	100.61	7.09	114.12	16.96	405.31	313.99	100.61	7.09
2NAC265-137	0.0500	14.3978	0.1106	18.4064	0.0160	11.4817	0.6230	102.54	11.68	106.49	18.61	194.65	334.68	102.54	11.68
2NAC265-134	0.0823	25.2739	0.2012	26.2781	0.0177	7.2174	0.2738	113.17	8.10	186.12	44.72	1253.68	494.38	113.17	8.10
2NAC265-001	0.0494	26.3917	0.1224	28.2533	0.0180	10.1089	0.3570	114.82	11.50	117.25	31.30	164.86	616.84	114.82	11.50
2NAC265-139	0.0595	7.7327	0.1715	10.0355	0.0209	6.4228	0.6374	133.23	8.47	160.69	14.92	586.26	167.79	133.23	8.47
2NAC265-229	0.0510	6.9517	0.1509	9.3245	0.0214	6.2541	0.6665	136.71	8.46	142.67	12.41	241.61	160.20	136.71	8.46
2NAC265-165	0.0511	10.2941	0.1533	13.6212	0.0218	8.9428	0.6549	138.74	12.28	144.81	18.39	244.78	237.09	138.74	12.28
2NAC265-306	0.0665	11.7518	0.2027	13.5858	0.0220	6.8459	0.5018	140.60	9.52	187.44	23.26	822.31	245.36	140.60	9.52
2NAC265-291	0.0527	14.4296	0.1609	17.0467	0.0221	9.0984	0.5324	140.85	12.68	151.53	24.00	315.96	328.08	140.85	12.68

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2NAC265, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.974520, LONGITUDE: -69.675760 ACCEPTED															
2NAC265-130	0.0523	9.3445	0.1603	11.4089	0.0222	6.5692	0.5737	141.65	9.20	150.93	16.00	298.08	213.15	141.65	9.20
2NAC265-188	0.0529	10.5560	0.1656	13.8428	0.0227	8.9802	0.6469	144.70	12.85	155.55	19.97	323.69	239.67	144.70	12.85
2NAC265-283	0.0546	13.0552	0.1746	15.0917	0.0231	7.5991	0.5017	147.49	11.08	163.42	22.78	395.52	292.71	147.49	11.08
2NAC265-313	0.0543	8.6107	0.1746	11.7880	0.0233	8.0751	0.6830	148.28	11.84	163.39	17.79	382.37	193.51	148.28	11.84
2NAC265-256	0.0660	10.5240	0.2124	13.1980	0.0233	7.9941	0.6035	148.57	11.74	195.58	23.48	805.77	220.30	148.57	11.74
2NAC265-060	0.0488	11.3506	0.1650	15.3225	0.0245	10.3018	0.6717	155.98	15.88	155.08	22.04	138.32	266.59	155.98	15.88
2NAC265-022	0.0489	8.3763	0.1709	10.4010	0.0253	6.1907	0.5928	161.01	9.84	160.17	15.41	145.12	196.49	161.01	9.84
2NAC265-208	0.0497	26.8330	0.1741	29.7767	0.0254	12.9276	0.4335	161.84	20.66	162.99	44.87	178.90	625.53	161.84	20.66
2NAC265-326	0.0572	13.0577	0.2066	14.9639	0.0261	7.3356	0.4884	166.18	12.03	190.67	26.02	500.55	287.51	166.18	12.03
2NAC265-180	0.0496	12.6450	0.1841	14.6829	0.0269	7.4915	0.5083	171.24	12.66	171.59	23.19	175.85	294.95	171.24	12.66
2NAC265-285	0.0509	9.2964	0.1965	12.0996	0.0279	7.7717	0.6401	177.69	13.62	182.16	20.18	234.98	214.50	177.69	13.62
2NAC265-227	0.0601	7.0402	0.2530	9.2885	0.0305	6.0996	0.6523	193.87	11.65	229.05	19.05	606.34	152.25	193.87	11.65
2NAC265-035	0.0667	9.3042	0.2906	12.5540	0.0316	8.4425	0.6714	200.41	16.66	259.02	28.71	827.20	194.11	200.41	16.66
2NAC265-152	0.0481	22.4505	0.2187	27.6788	0.0330	16.2007	0.5849	209.30	33.36	200.87	50.48	102.15	530.85	209.30	33.36
2NAC265-112	0.0534	8.1818	0.2853	11.1365	0.0387	7.5725	0.6784	244.96	18.20	254.87	25.11	345.42	185.09	244.96	18.20
2NAC265-302	0.0580	11.0807	0.3138	14.4498	0.0391	9.2958	0.6418	247.32	22.55	277.12	35.06	531.06	242.70	247.32	22.55
2NAC265-010	0.0556	9.6016	0.3039	12.6934	0.0396	8.3264	0.6541	250.24	20.44	269.41	30.05	437.40	213.70	250.24	20.44
2NAC265-177	0.0538	11.6303	0.3056	15.0384	0.0412	9.5561	0.6340	260.18	24.37	270.79	35.76	362.94	262.28	260.18	24.37
2NAC265-110	0.0503	8.4234	0.2944	11.1549	0.0424	7.3303	0.6556	267.62	19.22	262.05	25.77	210.78	195.22	267.62	19.22
2NAC265-125	0.0525	6.8984	0.3104	9.3247	0.0428	6.2978	0.6728	270.44	16.68	274.51	22.43	307.98	157.07	270.44	16.68
2NAC265-066	0.0510	10.9952	0.3023	13.4629	0.0430	7.7807	0.5771	271.18	20.66	268.20	31.74	239.47	253.49	271.18	20.66
2NAC265-174	0.0526	7.8353	0.3244	10.0547	0.0447	6.3347	0.6267	281.86	17.47	285.31	25.01	313.08	178.24	281.86	17.47
2NAC265-182	0.0548	15.6903	0.3880	21.4374	0.0513	14.6225	0.6814	322.56	46.01	332.89	60.92	405.14	351.20	322.56	46.01
2NAC265-232	0.0559	9.1502	0.4151	12.3675	0.0538	8.3501	0.6728	337.91	27.49	352.58	36.86	448.76	203.25	337.91	27.49
2NAC265-085	0.0576	8.5115	0.5631	11.2959	0.0708	7.4400	0.6574	440.91	31.71	453.55	41.34	515.84	186.92	440.91	31.71
2NAC265-036	0.0568	6.4495	0.5598	8.8740	0.0715	6.1148	0.6869	444.91	26.29	451.42	32.35	482.02	142.46	444.91	26.29
2NAC265-290	0.0600	6.0785	0.6005	8.4540	0.0724	5.9108	0.6950	450.54	25.72	477.54	32.22	603.86	131.50	450.54	25.72
2NAC265-360	0.0548	6.0014	0.5681	7.9197	0.0753	5.2084	0.6525	468.01	23.51	456.76	29.14	404.60	134.34	468.01	23.51
2NAC265-002	0.0579	7.5829	0.6138	10.2744	0.0768	6.9655	0.6748	477.26	32.04	485.94	39.70	525.21	166.26	477.26	32.04
2NAC265-147	0.0576	7.5222	0.6126	10.6763	0.0771	7.5996	0.7096	478.58	35.05	485.17	41.20	515.58	165.20	478.58	35.05
2NAC265-144	0.0586	8.0221	0.6275	11.2796	0.0776	7.9514	0.7030	482.04	36.93	494.52	44.19	551.84	175.09	482.04	36.93
2NAC265-216	0.0743	6.1326	0.7989	8.5509	0.0779	5.9997	0.6969	483.78	27.96	596.22	38.58	1050.05	123.60	483.78	27.96
2NAC265-114	0.0576	8.2453	0.6208	11.4377	0.0781	7.9437	0.6930	484.48	37.08	490.34	44.51	516.26	181.06	484.48	37.08
2NAC265-094	0.0576	6.4370	0.6253	8.8817	0.0786	6.1375	0.6890	487.74	28.83	493.17	34.71	516.43	141.34	487.74	28.83
2NAC265-274	0.0612	6.8006	0.6653	9.1112	0.0787	6.0997	0.6655	488.59	28.70	517.85	36.98	644.52	146.13	488.59	28.70
2NAC265-299	0.0588	6.9562	0.6406	9.0965	0.0789	5.8956	0.6444	489.30	27.78	502.71	36.08	558.32	151.66	489.30	27.78
2NAC265-129	0.0621	9.2234	0.6776	11.0591	0.0791	6.1273	0.5518	490.70	28.95	525.32	45.39	677.60	197.11	490.70	28.95
2NAC265-236	0.0569	8.1637	0.6359	11.2783	0.0809	7.8132	0.6900	501.70	37.71	499.76	44.54	489.01	180.11	501.70	37.71
2NAC265-262	0.0583	10.1343	0.6527	14.3808	0.0811	10.2258	0.7095	502.54	49.44	510.11	57.73	540.37	221.62	502.54	49.44
2NAC265-337	0.0626	12.7125	0.7035	14.0725	0.0814	6.0686	0.4289	504.30	29.44	540.88	59.08	694.11	270.94	504.30	29.44
2NAC265-116	0.0593	10.5723	0.6693	12.9030	0.0819	7.4153	0.5733	507.28	36.17	520.30	52.58	576.38	229.79	507.28	36.17
2NAC265-059	0.0601	9.7800	0.6946	12.0895	0.0837	7.1198	0.5878	518.34	35.46	535.58	50.36	607.05	211.47	518.34	35.46
2NAC265-082	0.0686	12.1200	0.8034	14.8733	0.0849	8.6324	0.5796	525.27	43.55	598.74	67.38	885.60	250.57	525.27	43.55
2NAC265-047	0.0597	5.8430	0.7010	8.2078	0.0851	5.7822	0.7023	526.55	29.24	539.39	34.36	591.36	126.68	526.55	29.24
2NAC265-239	0.0587	8.2782	0.6911	11.2287	0.0853	7.6189	0.6756	527.87	38.62	533.47	46.63	555.48	180.56	527.87	38.62
2NAC265-194	0.0594	9.2756	0.7083	13.2159	0.0864	9.4384	0.7123	534.17	48.39	543.75	55.70	583.53	201.36	534.17	48.39
2NAC265-293	0.0614	6.4605	0.7389	9.1505	0.0871	6.5114	0.7082	538.17	33.62	561.79	39.50	652.93	138.63	538.17	33.62
2NAC265-321	0.0589	5.8022	0.7093	8.0650	0.0872	5.6367	0.6946	538.92	29.14	544.33	33.99	561.63	126.43	538.92	29.14
2NAC265-021	0.0604	7.8254	0.7356	10.0074	0.0882	6.2629	0.6233	545.03	32.73	559.84	43.09	618.12	168.89	545.03	32.73
2NAC265-328	0.0601	7.2708	0.7341	10.3963	0.0884	7.4575	0.7148	545.97	39.04	558.93	44.72	606.98	157.22	545.97	39.04

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2NAC265, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.974520, LONGITUDE: -69.675760 ACCEPTED															
2NAC265-207	0.0578	7.8170	0.7072	10.9780	0.0887	7.7388	0.7021	547.60	40.63	543.07	46.21	523.29	171.45	547.60	40.63
2NAC265-101	0.0608	10.5595	0.7463	12.8318	0.0890	7.3070	0.5682	549.72	38.50	566.08	55.74	630.54	227.43	549.72	38.50
2NAC265-097	0.0598	6.7613	0.7355	9.4529	0.0891	6.6233	0.6989	550.41	34.94	559.75	40.70	595.93	146.47	550.41	34.94
2NAC265-156	0.0581	8.3838	0.7166	10.7733	0.0894	6.7941	0.6280	552.23	35.96	548.64	45.69	533.05	183.57	552.23	35.96
2NAC265-202	0.0586	6.8096	0.7276	9.3610	0.0900	6.4599	0.6862	555.81	34.40	555.17	40.05	551.83	148.62	555.81	34.40
2NAC265-322	0.0589	8.1597	0.7328	10.5332	0.0901	6.6904	0.6324	555.90	35.63	558.22	45.26	562.31	177.77	555.90	35.63
2NAC265-224	0.0734	7.1385	0.9228	9.5650	0.0912	6.4049	0.6656	562.60	34.51	663.86	46.64	1023.73	144.48	562.60	34.51
2NAC265-268	0.0600	7.8791	0.7610	11.1480	0.0917	7.9153	0.7075	565.83	42.88	574.59	48.95	605.26	170.42	565.83	42.88
2NAC265-278	0.0593	6.2947	0.7524	8.7437	0.0918	6.1043	0.6941	566.45	33.10	569.63	38.14	577.47	136.79	566.45	33.10
2NAC265-127	0.0585	10.3568	0.7474	14.7179	0.0927	10.4719	0.7105	571.20	57.24	566.69	64.00	547.42	226.21	571.20	57.24
2NAC265-132	0.0601	9.7564	0.7681	13.6808	0.0927	9.6071	0.7010	571.27	52.52	578.68	60.42	606.79	210.97	571.27	52.52
2NAC265-121	0.0599	7.6109	0.7685	10.9286	0.0929	7.8612	0.7176	572.94	43.10	578.93	48.26	601.15	164.73	572.94	43.10
2NAC265-069	0.0622	8.9458	0.7985	14.0069	0.0930	10.7866	0.7695	573.49	59.19	595.98	63.23	680.04	191.10	573.49	59.19
2NAC265-309	0.0695	7.5785	0.8950	9.8322	0.0932	6.2956	0.6371	574.24	34.59	649.05	47.19	913.15	155.98	574.24	34.59
2NAC265-032	0.0593	6.0463	0.7646	8.6597	0.0935	6.2197	0.7159	575.92	34.27	576.66	38.12	576.94	131.40	575.92	34.27
2NAC265-098	0.0601	6.1229	0.7791	8.4868	0.0939	5.8961	0.6925	578.68	32.63	584.96	37.75	607.45	132.38	578.68	32.63
2NAC265-217	0.0586	13.3787	0.7633	14.7211	0.0944	6.1814	0.4172	581.32	34.36	575.90	64.79	553.53	291.91	581.32	34.36
2NAC265-212	0.0602	7.0501	0.7857	9.9456	0.0945	7.0494	0.7053	582.33	39.25	588.72	44.46	612.51	152.30	582.33	39.25
2NAC265-128	0.0582	6.6432	0.7598	9.1909	0.0946	6.3757	0.6911	582.97	35.54	573.90	40.31	536.93	145.36	582.97	35.54
2NAC265-247	0.0618	6.7654	0.8123	9.3818	0.0951	6.5370	0.6928	585.86	36.61	603.72	42.72	668.83	144.79	585.86	36.61
2NAC265-201	0.0598	6.5509	0.7852	9.4442	0.0952	6.8374	0.7203	586.09	38.31	588.45	42.20	596.86	141.89	586.09	38.31
2NAC265-029	0.0682	14.4614	0.9057	16.3562	0.0962	7.6594	0.4672	591.95	43.32	654.78	79.09	875.33	299.45	591.95	43.32
2NAC265-086	0.0589	8.3809	0.7855	11.7706	0.0966	8.2770	0.7022	594.51	47.01	588.60	52.62	563.60	182.55	594.51	47.01
2NAC265-312	0.0649	6.1265	0.8701	8.6174	0.0970	6.0927	0.7033	597.07	34.74	635.61	40.73	769.52	128.99	597.07	34.74
2NAC265-008	0.0604	8.3386	0.8093	11.5137	0.0971	7.9653	0.6896	597.10	45.43	602.03	52.34	618.65	179.95	597.10	45.43
2NAC265-168	0.0632	8.1984	0.8501	10.2264	0.0976	6.1462	0.5977	600.14	35.22	624.71	47.75	714.16	174.16	600.14	35.22
2NAC265-245	0.0585	6.2530	0.7902	8.8877	0.0978	6.3543	0.7106	601.54	36.50	591.27	39.85	549.55	136.53	601.54	36.50
2NAC265-013	0.0609	7.6354	0.8307	10.8302	0.0988	7.7046	0.7092	607.38	44.66	613.99	49.94	636.31	164.29	607.38	44.66
2NAC265-223	0.0612	8.1556	0.8343	11.1822	0.0988	7.6823	0.6842	607.54	44.54	616.02	51.69	646.16	175.20	607.54	44.54
2NAC265-300	0.0613	8.6631	0.8390	10.7443	0.0990	6.3868	0.5915	608.81	37.10	618.58	49.81	648.74	186.02	608.81	37.10
2NAC265-348	0.0605	5.2258	0.8272	7.5358	0.0991	5.4682	0.7205	609.09	31.78	612.07	34.65	622.24	112.71	609.09	31.78
2NAC265-122	0.0609	7.1654	0.8458	10.1686	0.1006	7.2352	0.7095	617.93	42.63	622.35	47.35	637.10	154.16	617.93	42.63
2NAC265-005	0.0636	9.7242	0.8838	12.5466	0.1008	7.9554	0.6319	618.81	46.94	643.01	59.84	727.10	206.14	618.81	46.94
2NAC265-037	0.0614	8.8260	0.8763	11.8719	0.1034	7.9548	0.6688	634.02	48.03	638.98	56.36	653.93	189.36	634.02	48.03
2NAC265-076	0.0648	6.3763	0.9283	8.7968	0.1037	6.0759	0.6889	636.25	36.81	666.72	43.03	768.78	134.26	636.25	36.81
2NAC265-033	0.0623	7.4568	0.8953	9.7690	0.1042	6.3307	0.6460	638.78	38.50	649.19	46.89	682.96	159.22	638.78	38.50
2NAC265-089	0.0605	9.9792	0.8780	14.2297	0.1051	10.1542	0.7129	644.51	62.28	639.88	67.65	621.37	215.26	644.51	62.28
2NAC265-061	0.0624	7.0267	0.9379	10.0166	0.1089	7.1512	0.7127	666.30	45.27	671.80	49.26	687.69	149.92	666.30	45.27
2NAC265-100	0.0629	8.6079	0.9542	12.2397	0.1098	8.7147	0.7109	671.87	55.61	680.29	60.76	706.37	183.09	671.87	55.61
2NAC265-049	0.0628	6.3439	0.9698	8.8518	0.1119	6.1897	0.6974	683.71	40.15	688.34	44.28	700.82	135.06	683.71	40.15
2NAC265-051	0.0640	11.5778	0.9978	15.2762	0.1130	9.9755	0.6524	690.11	65.29	702.70	77.62	740.53	244.90	690.11	65.29
2NAC265-244	0.0637	6.3523	1.0133	9.1014	0.1152	6.5552	0.7162	702.97	43.66	710.55	46.55	732.22	134.55	702.97	43.66
2NAC265-062	0.0666	7.5278	1.1152	9.9097	0.1213	6.4590	0.6504	737.77	45.03	760.69	53.10	826.13	157.08	737.77	45.03
2NAC265-091	0.0692	6.4910	1.1817	9.9875	0.1237	7.6047	0.7600	751.90	53.97	792.09	54.98	904.96	133.80	751.90	53.97
2NAC265-260	0.0680	7.7327	1.2012	11.0589	0.1279	7.9355	0.7149	775.85	58.01	801.15	61.35	868.83	160.28	775.85	58.01
2NAC265-204	0.0678	6.2757	1.2080	8.6157	0.1291	5.9432	0.6852	782.64	43.80	804.26	47.90	863.92	130.18	782.64	43.80
2NAC265-052	0.0641	6.1532	1.1484	8.5500	0.1297	5.9525	0.6943	785.99	44.05	776.47	46.44	746.57	130.03	785.99	44.05
2NAC265-255	0.0656	7.1087	1.1895	10.0452	0.1312	7.1308	0.7065	794.94	53.33	795.73	55.47	794.92	149.07	794.94	53.33
2NAC265-249	0.0651	7.2257	1.1950	10.2720	0.1331	7.3339	0.7108	805.31	55.52	798.28	56.84	776.04	151.97	805.31	55.52
2NAC265-028	0.0717	7.3412	1.3262	10.1488	0.1340	7.0272	0.6905	810.54	53.52	857.24	58.82	977.69	149.63	810.54	53.52

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2NAC265, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.974520, LONGITUDE: -69.675760 ACCEPTED															
2NAC265-295	0.0755	9.1300	1.5063	11.2645	0.1442	6.6284	0.5857	868.61	53.87	932.93	68.85	1082.75	183.11	868.61	53.87
2NAC265-242	0.0687	6.1722	1.5538	8.7234	0.1638	6.2041	0.7067	977.89	56.29	952.00	53.94	890.47	127.51	890.47	127.51
2NAC265-343	0.0729	5.6186	1.4999	7.9068	0.1490	5.6003	0.7036	895.63	46.83	930.34	48.21	1011.32	113.93	895.63	46.83
2NAC265-131	0.0698	6.5329	1.5345	9.4715	0.1594	6.8810	0.7241	953.31	60.98	944.31	58.29	922.34	134.27	922.34	134.27
2NAC265-350	0.0702	6.1965	1.5156	8.9697	0.1565	6.5179	0.7230	937.13	56.85	936.70	54.93	935.28	127.11	935.28	127.11
2NAC265-138	0.0709	7.6961	1.5839	11.1224	0.1619	8.0505	0.7220	967.23	72.31	963.90	69.33	955.35	157.39	955.35	157.39
2NAC265-192	0.0713	8.8435	1.5582	11.3883	0.1584	7.2070	0.6301	948.12	63.55	953.74	70.55	966.18	180.57	966.18	180.57
2NAC265-352	0.0714	5.5769	1.5408	7.8397	0.1566	5.5485	0.7028	937.97	48.44	946.81	48.31	969.09	113.82	969.09	113.82
2NAC265-095	0.0717	10.9061	1.6039	15.5207	0.1620	11.0531	0.7115	968.02	99.36	971.73	97.37	978.21	222.28	978.21	222.28
2NAC265-117	0.0719	8.3827	1.6685	10.7024	0.1681	6.6743	0.6217	1001.64	61.92	996.63	68.05	984.22	170.65	984.22	170.65
2NAC265-347	0.0722	8.1289	1.8169	11.2506	0.1825	7.8050	0.6913	1080.81	77.67	1051.56	73.81	990.33	165.34	990.33	165.34
2NAC265-175	0.0724	6.4866	1.5985	9.1319	0.1602	6.4607	0.7039	957.70	57.50	969.61	57.10	996.18	131.82	996.18	131.82
2NAC265-193	0.0726	8.1760	1.6948	10.7874	0.1693	7.0696	0.6524	1008.02	65.97	1006.59	68.99	1002.93	165.98	1002.93	165.98
2NAC265-023	0.0726	6.3352	1.5489	9.0739	0.1545	6.5196	0.7159	925.95	56.23	950.07	56.05	1004.12	128.59	1004.12	128.59
2NAC265-238	0.0728	8.9741	1.5750	12.1508	0.1567	8.2219	0.6742	938.35	71.80	960.39	75.60	1009.38	182.01	1009.38	182.01
2NAC265-007	0.0730	6.4099	1.5655	9.1404	0.1554	6.5483	0.7129	931.24	56.78	956.63	56.69	1013.63	129.93	1013.63	129.93
2NAC265-151	0.0730	6.8073	1.7293	9.5479	0.1716	6.7228	0.7012	1021.17	63.49	1019.48	61.50	1015.14	137.95	1015.14	137.95
2NAC265-111	0.0733	6.0027	1.6003	8.4380	0.1582	5.9523	0.7028	946.93	52.42	970.32	52.78	1022.19	121.52	1022.19	121.52
2NAC265-359	0.0735	5.8273	1.8404	8.3073	0.1818	5.9564	0.7127	1077.01	59.08	1060.01	54.71	1028.58	117.86	1028.58	117.86
2NAC265-203	0.0740	6.9858	1.7401	9.8651	0.1706	6.9994	0.7061	1015.18	65.75	1023.51	63.70	1040.69	141.00	1040.69	141.00
2NAC265-173	0.0740	9.6136	1.7652	11.6338	0.1730	6.5838	0.5632	1028.52	62.59	1032.78	75.55	1041.27	194.02	1041.27	194.02
2NAC265-297	0.0743	6.6217	1.6992	9.5196	0.1655	6.8687	0.7185	987.43	62.89	1008.24	60.92	1048.34	133.49	1048.34	133.49
2NAC265-221	0.0743	12.7238	1.7246	17.2938	0.1682	11.7332	0.6773	1001.92	108.89	1017.73	111.60	1050.88	256.41	1050.88	256.41
2NAC265-325	0.0746	6.2493	1.5637	8.5096	0.1517	5.8099	0.6788	910.75	49.35	955.94	52.75	1056.57	125.83	1056.57	125.83
2NAC265-345	0.0746	10.1307	1.8392	14.8403	0.1788	10.8638	0.7307	1060.21	106.22	1059.58	97.91	1056.78	203.98	1056.78	203.98
2NAC265-314	0.0751	5.5325	1.5834	7.6801	0.1525	5.3637	0.6936	915.12	45.76	963.71	47.83	1070.91	111.16	1070.91	111.16
2NAC265-031	0.0752	7.8058	1.9221	11.1410	0.1852	7.9654	0.7135	1095.39	80.25	1088.80	74.54	1073.26	156.78	1073.26	156.78
2NAC265-140	0.0752	5.8031	1.7792	8.1108	0.1714	5.6963	0.6986	1019.87	53.73	1037.90	52.77	1075.17	116.52	1075.17	116.52
2NAC265-296	0.0753	5.8444	1.7354	8.1702	0.1666	5.7444	0.6988	993.52	52.89	1021.76	52.68	1077.38	117.31	1077.38	117.31
2NAC265-158	0.0757	8.9975	1.9287	13.4078	0.1848	9.9601	0.7414	1092.91	100.14	1091.08	89.89	1086.79	180.35	1086.79	180.35
2NAC265-282	0.0757	6.0603	1.7613	8.5458	0.1683	6.0606	0.7051	1002.56	56.27	1031.31	55.40	1088.04	121.45	1088.04	121.45
2NAC265-240	0.0757	8.7179	1.8528	12.7655	0.1772	9.3513	0.7305	1051.85	90.76	1064.41	84.38	1088.40	174.70	1088.40	174.70
2NAC265-284	0.0758	10.9401	1.7183	15.6637	0.1641	11.2289	0.7157	979.25	102.02	1015.40	100.87	1089.37	219.20	1089.37	219.20
2NAC265-315	0.0760	11.8887	1.6530	17.3841	0.1574	12.6988	0.7296	942.21	111.33	990.68	110.41	1094.45	238.02	1094.45	238.02
2NAC265-019	0.0762	7.6866	1.8708	10.2548	0.1780	6.8125	0.6619	1055.78	66.35	1070.82	67.96	1099.45	153.78	1099.45	153.78
2NAC265-338	0.0762	9.1730	1.7205	13.4882	0.1634	9.9091	0.7331	975.75	89.73	1016.21	86.83	1100.72	183.48	1100.72	183.48
2NAC265-213	0.0764	9.9232	2.0142	14.5520	0.1911	10.6666	0.7314	1127.16	110.32	1120.32	99.05	1106.25	198.32	1106.25	198.32
2NAC265-009	0.0765	6.4912	1.7729	8.6205	0.1680	5.7082	0.6580	1000.97	52.92	1035.57	56.02	1107.47	129.71	1107.47	129.71
2NAC265-072	0.0767	5.7879	1.8451	7.9908	0.1743	5.5262	0.6895	1036.02	52.89	1061.69	52.67	1112.52	115.57	1112.52	115.57
2NAC265-166	0.0767	9.3894	2.0176	12.9601	0.1907	8.9561	0.6893	1124.90	92.45	1121.44	88.21	1114.18	187.43	1114.18	187.43
2NAC265-356	0.0770	5.4920	2.0630	7.8076	0.1947	5.5877	0.7108	1146.67	58.70	1136.63	53.44	1120.16	109.54	1120.16	109.54
2NAC265-124	0.0770	6.8939	1.8638	9.5121	0.1754	6.5766	0.6890	1041.82	63.27	1068.34	62.94	1121.69	137.47	1121.69	137.47
2NAC265-178	0.0773	6.4166	1.8363	8.8229	0.1723	6.0910	0.6864	1024.77	57.71	1058.54	58.06	1128.36	127.82	1128.36	127.82
2NAC265-146	0.0779	14.4528	1.9461	19.1329	0.1811	12.5513	0.6553	1072.97	124.08	1097.09	129.02	1144.45	287.22	1144.45	287.22
2NAC265-067	0.0780	6.2129	2.0995	8.7749	0.1951	6.2115	0.7062	1148.90	65.37	1148.64	60.42	1145.78	123.45	1145.78	123.45
2NAC265-340	0.0780	7.8242	1.9008	11.1670	0.1764	7.9930	0.7135	1047.29	77.27	1081.37	74.43	1147.14	155.43	1147.14	155.43
2NAC265-272	0.0786	9.4266	1.7758	11.8285	0.1634	7.1760	0.6041	975.73	64.98	1036.64	76.98	1163.28	186.82	1163.28	186.82
2NAC265-115	0.0788	8.3358	1.9180	12.1545	0.1764	8.8610	0.7278	1047.01	85.64	1087.36	81.29	1167.71	165.09	1167.71	165.09
2NAC265-153	0.0789	13.8204	2.1635	19.5604	0.1989	13.8558	0.7077	1169.58	148.23	1169.39	136.65	1168.37	273.69	1168.37	273.69
2NAC265-277	0.0790	5.9291	2.0559	8.3937	0.1884	5.9779	0.7078	1112.78	61.10	1134.27	57.40	1171.23	117.37	1171.23	117.37

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2NAC265, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.974520, LONGITUDE: -69.675760 ACCEPTED															
2NAC265-068	0.0792	7.2873	2.1016	10.8863	0.1922	8.0989	0.7429	1133.01	84.15	1149.33	75.04	1177.91	144.11	1177.91	144.11
2NAC265-046	0.0792	7.2713	2.2512	10.5567	0.2058	7.6668	0.7250	1206.40	84.36	1197.16	74.35	1178.05	143.79	1178.05	143.79
2NAC265-349	0.0797	7.6014	2.2272	10.6168	0.2026	7.4403	0.6981	1189.41	80.82	1189.64	74.53	1189.47	150.07	1189.47	150.07
2NAC265-222	0.0797	7.0692	2.2956	9.7247	0.2087	6.7147	0.6867	1221.95	74.75	1210.94	68.89	1190.33	139.55	1190.33	139.55
2NAC265-071	0.0800	8.8573	2.1813	12.5526	0.1976	8.9051	0.7086	1162.62	94.74	1175.10	87.61	1195.88	174.70	1195.88	174.70
2NAC265-327	0.0802	7.9302	2.2457	10.9438	0.2026	7.5679	0.6891	1189.31	82.20	1195.44	77.03	1201.85	156.28	1201.85	156.28
2NAC265-264	0.0804	15.4358	2.1005	21.2828	0.1892	14.6681	0.6885	1117.03	150.46	1148.97	147.43	1206.20	304.00	1206.20	304.00
2NAC265-250	0.0808	6.8227	2.1639	9.2559	0.1939	6.2933	0.6758	1142.50	65.89	1169.53	64.36	1217.41	134.15	1217.41	134.15
2NAC265-215	0.0811	6.2069	1.9258	8.7942	0.1722	6.2688	0.7084	1024.22	59.37	1090.08	58.84	1223.22	121.94	1223.22	121.94
2NAC265-012	0.0812	16.0769	2.3799	24.9080	0.2125	19.0346	0.7638	1242.03	215.11	1236.59	179.94	1225.17	315.77	1225.17	315.77
2NAC265-323	0.0813	9.6475	1.9477	14.3823	0.1734	10.6851	0.7416	1030.79	101.79	1097.66	96.79	1227.97	189.41	1227.97	189.41
2NAC265-266	0.0817	5.8210	2.1947	8.1290	0.1944	5.7143	0.6980	1145.38	59.97	1179.35	56.76	1238.57	114.11	1238.57	114.11
2NAC265-219	0.0818	6.6545	2.2623	9.9383	0.2005	7.4145	0.7427	1178.26	79.85	1200.63	70.09	1240.15	130.42	1240.15	130.42
2NAC265-026	0.0819	6.1196	2.3123	8.6860	0.2044	6.1876	0.7097	1199.01	67.70	1216.06	61.64	1244.23	119.87	1244.23	119.87
2NAC265-092	0.0820	7.2267	2.2891	10.9873	0.2024	8.2893	0.7533	1188.00	89.94	1208.94	77.80	1244.65	141.54	1244.65	141.54
2NAC265-286	0.0824	17.9147	2.2662	22.6247	0.1990	13.8333	0.6108	1170.01	148.04	1201.84	160.72	1254.73	350.37	1254.73	350.37
2NAC265-113	0.0827	13.6890	2.3219	20.1381	0.2035	14.7790	0.7334	1194.07	161.13	1219.00	143.88	1261.99	267.45	1261.99	267.45
2NAC265-141	0.0829	7.0923	2.1980	10.0493	0.1923	7.1434	0.7085	1133.83	74.27	1180.40	70.24	1265.93	138.49	1265.93	138.49
2NAC265-183	0.0830	9.3439	2.1653	13.8541	0.1891	10.2503	0.7383	1116.31	105.07	1169.98	96.52	1270.21	182.34	1270.21	182.34
2NAC265-039	0.0831	6.8678	2.0940	9.6579	0.1826	6.8071	0.7031	1081.03	67.75	1146.84	66.46	1271.10	134.01	1271.10	134.01
2NAC265-294	0.0832	6.9161	2.1352	9.1255	0.1855	5.9872	0.6524	1097.05	60.40	1160.26	63.19	1275.08	134.87	1275.08	134.87
2NAC265-075	0.0834	7.9140	2.5187	11.4595	0.2187	8.2992	0.7232	1274.79	96.00	1277.44	83.48	1279.70	154.23	1279.70	154.23
2NAC265-102	0.0836	6.7928	2.5822	9.7007	0.2237	6.9429	0.7139	1301.56	81.83	1295.61	71.12	1284.14	132.30	1284.14	132.30
2NAC265-164	0.0841	7.2100	2.0722	9.8261	0.1787	6.7060	0.6794	1059.72	65.53	1139.65	67.40	1294.63	140.21	1294.63	140.21
2NAC265-043	0.0843	8.1382	2.1153	12.0886	0.1818	8.9510	0.7395	1076.54	88.75	1153.82	83.53	1299.63	158.15	1299.63	158.15
2NAC265-209	0.0847	6.5711	2.3535	9.5529	0.2015	6.9684	0.7258	1183.31	75.34	1228.62	68.18	1308.30	127.54	1308.30	127.54
2NAC265-190	0.0855	5.8750	2.5595	8.3053	0.2172	5.9088	0.7068	1266.90	67.96	1289.15	60.71	1325.91	113.75	1325.91	113.75
2NAC265-004	0.0862	9.2967	2.5466	14.4160	0.2140	11.0377	0.7643	1249.93	125.43	1285.47	105.48	1343.67	179.56	1343.67	179.56
2NAC265-246	0.0865	6.9711	2.6526	9.5445	0.2223	6.5565	0.6831	1293.88	76.87	1315.36	70.49	1348.28	134.55	1348.28	134.55
2NAC265-073	0.0867	8.8406	2.4998	11.6055	0.2088	7.5312	0.6479	1222.52	83.87	1271.99	84.36	1354.38	170.49	1354.38	170.49
2NAC265-145	0.0867	6.0507	2.2276	8.9549	0.1862	6.6281	0.7372	1100.82	67.08	1189.75	62.83	1354.40	116.69	1354.40	116.69
2NAC265-267	0.0868	6.7570	2.6057	9.7935	0.2173	7.1211	0.7239	1267.41	81.94	1302.25	71.98	1356.48	130.27	1356.48	130.27
2NAC265-162	0.0873	6.6376	2.6986	9.1245	0.2241	6.2926	0.6862	1303.71	74.28	1328.08	67.70	1367.03	127.78	1367.03	127.78
2NAC265-103	0.0873	6.5385	2.4246	10.4093	0.2012	8.1145	0.7781	1181.53	87.61	1249.93	74.97	1368.19	125.86	1368.19	125.86
2NAC265-084	0.0875	6.1963	2.4020	8.7471	0.1989	6.1902	0.7058	1169.42	66.21	1243.20	62.79	1371.41	119.22	1371.41	119.22
2NAC265-308	0.0877	6.3735	2.3532	9.0200	0.1941	6.4137	0.7076	1143.56	67.21	1228.53	64.36	1375.72	122.55	1375.72	122.55
2NAC265-197	0.0886	9.3758	2.3595	14.2214	0.1931	10.7147	0.7519	1138.06	111.79	1230.44	101.76	1395.61	179.79	1395.61	179.79
2NAC265-353	0.0892	5.5479	2.8682	7.9618	0.2334	5.7479	0.7173	1352.52	70.13	1373.60	60.01	1408.33	106.20	1408.33	106.20
2NAC265-090	0.0894	8.3392	2.8462	10.8482	0.2306	6.9535	0.6396	1337.41	83.99	1367.80	81.69	1413.70	159.52	1413.70	159.52
2NAC265-287	0.0897	6.4663	2.8944	8.8282	0.2335	6.0451	0.6808	1353.00	73.78	1380.46	66.72	1418.47	123.61	1418.47	123.61
2NAC265-027	0.0905	6.9524	2.5742	9.7190	0.2060	6.8122	0.6988	1207.24	75.00	1293.32	71.19	1437.02	132.57	1437.02	132.57
2NAC265-288	0.0917	5.5533	2.5836	7.8679	0.2037	5.6109	0.7084	1195.29	61.22	1296.01	57.66	1462.21	105.53	1462.21	105.53
2NAC265-024	0.0918	8.1982	3.0053	11.5169	0.2373	8.1073	0.7023	1372.44	100.23	1408.96	87.96	1462.49	155.79	1462.49	155.79
2NAC265-074	0.0932	10.1720	3.0012	15.5296	0.2332	11.7424	0.7556	1351.05	143.15	1407.93	118.81	1492.95	192.51	1492.95	192.51
2NAC265-185	0.0942	9.0519	2.9379	13.8162	0.2261	10.4592	0.7555	1313.77	124.33	1391.74	105.04	1512.87	170.86	1512.87	170.86
2NAC265-044	0.0948	6.5675	3.3035	9.2101	0.2524	6.4735	0.7011	1450.88	84.11	1481.89	71.91	1524.21	123.78	1524.21	123.78
2NAC265-206	0.0963	7.0934	3.2735	10.6529	0.2465	7.9778	0.7461	1420.57	101.72	1474.78	83.04	1553.02	133.19	1553.02	133.19
2NAC265-237	0.0966	7.7247	3.1308	11.0831	0.2349	7.9785	0.7171	1360.32	97.85	1440.29	85.49	1558.80	144.94	1558.80	144.94
2NAC265-154	0.0969	10.7432	3.3853	15.8184	0.2533	11.6269	0.7340	1455.72	151.53	1501.00	124.61	1564.89	201.41	1564.89	201.41
2NAC265-108	0.0981	6.2000	3.4819	9.2228	0.2572	6.8464	0.7403	1475.64	90.30	1523.13	72.88	1588.29	115.89	1588.29	115.89

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2NAC265, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.974520, LONGITUDE: -69.675760 ACCEPTED															
2NAC265-270	0.0990	8.3366	3.6378	11.8910	0.2660	8.5057	0.7131	1520.62	115.23	1557.85	94.98	1605.01	155.49	1605.01	155.49
2NAC265-241	0.1009	11.0086	4.0740	15.2888	0.2926	10.6324	0.6939	1654.59	155.19	1649.10	125.28	1640.22	204.40	1640.22	204.40
2NAC265-155	0.1020	8.4409	3.5984	11.8935	0.2557	8.4017	0.7045	1467.86	110.30	1549.18	94.78	1661.34	156.26	1661.34	156.26
2NAC265-331	0.1026	12.4649	3.6124	18.1393	0.2548	13.1931	0.7265	1463.37	172.76	1552.27	145.23	1671.36	230.47	1671.36	230.47
2NAC265-015	0.1033	5.5401	4.1868	7.9537	0.2936	5.7380	0.7175	1659.60	83.96	1671.45	65.28	1684.47	102.26	1684.47	102.26
2NAC265-163	0.1033	7.1696	3.7839	9.9991	0.2655	6.9984	0.6971	1517.85	94.65	1589.32	80.47	1684.94	132.34	1684.94	132.34
2NAC265-257	0.1037	15.8075	4.0652	22.7330	0.2838	16.3518	0.7187	1610.26	233.10	1647.36	187.35	1692.21	291.51	1692.21	291.51
2NAC265-280	0.1038	5.6180	3.5201	8.0843	0.2455	5.8503	0.7191	1415.10	74.33	1531.74	64.01	1692.52	103.60	1692.52	103.60
2NAC265-083	0.1045	6.3636	3.7695	10.0162	0.2612	7.7478	0.7722	1496.10	103.46	1586.27	80.55	1706.35	117.14	1706.35	117.14
2NAC265-273	0.1053	6.8616	3.8214	9.7663	0.2627	6.9815	0.7116	1503.55	93.63	1597.26	78.76	1719.32	126.11	1719.32	126.11
2NAC265-205	0.1054	5.8948	4.0449	8.6056	0.2782	6.3074	0.7286	1582.24	88.50	1643.27	70.17	1721.61	108.31	1721.61	108.31
2NAC265-081	0.1054	8.7599	4.6822	13.5766	0.3217	10.3819	0.7640	1798.25	162.95	1764.06	114.07	1721.85	160.95	1721.85	160.95
2NAC265-220	0.1056	6.5282	4.1666	9.1626	0.2861	6.4672	0.7017	1622.23	92.76	1667.48	75.17	1724.03	119.91	1724.03	119.91
2NAC265-281	0.1057	9.6273	3.7474	14.7761	0.2565	11.2283	0.7586	1471.95	147.79	1581.55	118.97	1726.63	176.78	1726.63	176.78
2NAC265-358	0.1061	4.8840	4.4634	7.0435	0.3056	5.1169	0.7206	1719.03	77.21	1724.18	58.49	1733.32	89.61	1733.32	89.61
2NAC265-079	0.1063	8.0552	4.5318	11.1838	0.3088	7.7707	0.6937	1734.92	118.21	1736.82	93.29	1737.12	147.72	1737.12	147.72
2NAC265-191	0.1069	7.3033	4.5850	10.3648	0.3109	7.3855	0.7096	1745.03	112.92	1746.55	86.61	1747.87	133.75	1747.87	133.75
2NAC265-040	0.1071	9.6381	4.1513	14.1989	0.2809	10.4376	0.7343	1595.90	147.58	1664.47	116.70	1749.84	176.47	1749.84	176.47
2NAC265-105	0.1073	6.3332	4.6515	9.0458	0.3141	6.4780	0.7140	1760.92	99.83	1758.56	75.74	1754.29	115.90	1754.29	115.90
2NAC265-263	0.1076	6.1673	4.3222	8.6538	0.2909	6.1086	0.7015	1646.23	88.75	1697.60	71.48	1758.39	112.80	1758.39	112.80
2NAC265-170	0.1077	12.1130	4.7825	17.6078	0.3218	12.7955	0.7258	1798.63	200.89	1781.82	148.93	1761.70	221.46	1761.70	221.46
2NAC265-135	0.1085	6.5982	4.4233	9.4714	0.2956	6.8190	0.7174	1669.59	100.31	1716.72	78.60	1773.80	120.46	1773.80	120.46
2NAC265-150	0.1087	6.5411	4.3848	9.3866	0.2925	6.7590	0.7172	1654.12	98.62	1709.48	77.76	1777.30	119.36	1777.30	119.36
2NAC265-234	0.1088	13.8950	4.8721	19.8792	0.3246	14.2340	0.7151	1812.00	224.93	1797.45	169.02	1779.16	253.50	1779.16	253.50
2NAC265-301	0.1090	9.4751	5.0458	13.7940	0.3347	10.0446	0.7268	1861.29	162.42	1827.04	117.42	1783.30	172.78	1783.30	172.78
2NAC265-251	0.1094	7.1684	4.5487	10.1672	0.3012	7.2433	0.7092	1697.31	108.10	1739.93	84.83	1789.09	130.62	1789.09	130.62
2NAC265-253	0.1095	6.6264	4.2870	9.2042	0.2836	6.4254	0.6941	1609.37	91.52	1690.86	75.92	1790.89	120.72	1790.89	120.72
2NAC265-106	0.1097	7.4722	4.6365	10.6172	0.3063	7.5592	0.7104	1722.45	114.27	1755.87	88.91	1794.42	136.07	1794.42	136.07
2NAC265-261	0.1099	7.0014	4.9284	9.7626	0.3248	6.8376	0.6969	1813.23	108.08	1807.14	82.59	1797.03	127.46	1797.03	127.46
2NAC265-123	0.1101	5.9436	3.8274	9.5830	0.2520	7.5365	0.7844	1448.79	97.80	1598.53	77.30	1800.86	108.15	1800.86	108.15
2NAC265-198	0.1101	5.8945	4.4046	8.3577	0.2900	5.9641	0.7090	1641.31	86.43	1713.21	69.27	1801.74	107.25	1801.74	107.25
2NAC265-254	0.1104	6.2820	5.0153	9.0286	0.3290	6.5214	0.7183	1833.32	104.07	1821.91	76.58	1806.29	114.20	1806.29	114.20
2NAC265-104	0.1107	6.8122	4.7446	9.3361	0.3105	6.4032	0.6838	1743.05	97.80	1775.15	78.45	1811.63	123.77	1811.63	123.77
2NAC265-077	0.1109	7.8877	4.6572	11.5003	0.3042	8.3804	0.7277	1711.94	126.01	1759.58	96.42	1814.61	143.26	1814.61	143.26
2NAC265-148	0.1131	5.8307	4.4063	8.1485	0.2826	5.7235	0.6986	1604.31	81.29	1713.53	67.53	1849.04	105.43	1849.04	105.43
2NAC265-179	0.1183	11.0877	4.8173	15.7636	0.2954	11.2243	0.7108	1668.31	165.02	1787.92	133.31	1930.03	198.60	1930.03	198.60
2NAC265-003	0.1195	5.9939	5.7469	8.3578	0.3486	5.8630	0.6969	1927.99	97.71	1938.45	72.41	1948.10	107.14	1948.10	107.14
2NAC265-330	0.1258	5.8247	5.8584	8.2956	0.3369	5.9402	0.7120	1871.69	96.50	1955.09	72.07	2040.53	103.00	2040.53	103.00
2NAC265-279	0.1304	6.4128	5.9631	9.1300	0.3308	6.5319	0.7118	1842.21	104.67	1970.47	79.55	2103.96	112.57	2103.96	112.57
2NAC265-333	0.1326	6.4014	5.9875	9.5210	0.3269	7.0761	0.7402	1823.13	112.38	1974.02	83.02	2132.47	112.00	2132.47	112.00
2NAC265-305	0.1410	5.7347	7.2824	8.3995	0.3735	6.1695	0.7307	2045.87	108.16	2146.66	75.13	2239.87	99.18	2239.87	99.18
2NAC265-186	0.1594	7.5434	10.1704	10.7952	0.4626	7.7511	0.7153	2451.21	158.08	2450.39	100.12	2449.27	127.63	2449.27	127.63
2NAC265-080	0.1648	6.6156	9.9006	9.3578	0.4353	6.6329	0.7072	2329.45	129.69	2425.57	86.51	2505.40	111.30	2505.40	111.30
2NAC265-329	0.1679	13.1262	11.0090	17.4901	0.4745	11.5760	0.6609	2503.20	240.25	2523.90	164.22	2536.68	220.13	2536.68	220.13
2NAC265-252	0.1730	5.8137	11.1100	8.2255	0.4651	5.8600	0.7074	2462.20	119.94	2532.40	76.77	2586.84	97.02	2586.84	97.02
2NAC265-233	0.1750	5.9749	11.5892	8.5815	0.4799	6.1997	0.7178	2526.76	129.62	2571.80	80.38	2606.30	99.52	2606.30	99.52
2NAC265-218	0.1762	12.4616	13.0232	17.9423	0.5359	12.9276	0.7195	2766.44	290.99	2681.33	170.78	2616.98	207.35	2616.98	207.35
2NAC265-304	0.1803	5.4695	11.4274	7.8408	0.4583	5.6534	0.7165	2432.09	114.55	2558.66	73.34	2656.08	90.67	2656.08	90.67
2NAC265-078	0.1954	6.2284	13.6609	8.9154	0.5064	6.3939	0.7155	2641.40	138.59	2726.49	84.55	2788.34	101.99	2788.34	101.99
2NAC265-339	0.2229	13.7619	17.1093	20.4166	0.5556	15.0947	0.7387	2848.34	347.87	2940.98	198.34	3002.05	221.15	3002.05	221.15

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
2NAC265, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.974520, LONGITUDE: -69.675760 ACCEPTED															
2NAC265-120	0.3020	5.7231	25.2146	8.1049	0.6052	5.7635	0.7081	3050.65	140.10	3316.56	79.32	3480.44	88.58	3480.44	88.58
2NAC265, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.974520, LONGITUDE: -69.675760 REJECTED															
2NAC265-167	0.0909	20.5628	0.0971	23.2915	0.0077	10.9577	0.4697	49.74	5.43	94.08	20.93	1444.17	391.72	49.74	5.43
2NAC265-210	0.1559	10.5274	0.2185	13.2306	0.0102	8.0438	0.6057	65.16	5.21	200.65	24.09	2412.02	178.81	65.16	5.21
2NAC265-133	0.1083	21.4286	0.1544	24.1310	0.0103	11.1106	0.4598	66.26	7.32	145.77	32.78	1771.33	391.32	66.26	7.32
2NAC265-171	0.0731	13.0290	0.1080	14.7222	0.0107	6.8851	0.4656	68.69	4.70	104.16	14.58	1017.21	263.95	68.69	4.70
2NAC265-055	0.1099	7.9122	0.2086	10.1941	0.0137	6.4426	0.6306	88.01	5.63	192.36	17.87	1798.00	144.02	88.01	5.63
2NAC265-324	0.2918	12.4418	0.5903	14.6990	0.0146	7.8522	0.5325	93.66	7.30	471.04	55.45	3427.34	193.34	93.66	7.30
2NAC265-355	0.0825	12.8172	0.1718	16.6401	0.0151	10.6320	0.6377	96.76	10.21	160.99	24.78	1257.34	250.58	96.76	10.21
2NAC265-064	0.2608	7.0830	0.6011	9.3771	0.0167	6.1598	0.6553	106.75	6.52	477.91	35.76	3251.29	111.57	106.75	6.52
2NAC265-017	0.3224	41.5578	0.7807	45.0518	0.0175	17.4056	0.3861	112.13	19.35	585.90	203.23	3581.22	638.65	112.13	19.35
2NAC265-199	0.3884	15.5957	1.0567	19.8309	0.0197	12.2680	0.6177	125.94	15.30	732.18	103.81	3864.59	235.18	125.94	15.30
2NAC265-065	0.1263	9.5844	0.4402	11.4503	0.0253	6.2796	0.5471	160.80	9.97	370.43	35.55	2046.58	169.36	160.80	9.97
2NAC265-143	0.1205	7.4006	0.4200	9.4869	0.0253	5.9648	0.6257	160.88	9.48	356.02	28.50	1963.24	132.06	160.88	9.48
2NAC265-303	0.1774	9.3746	1.1346	15.1683	0.0463	11.9412	0.7861	291.56	34.04	769.95	82.04	2628.51	155.81	291.56	34.04
2NAC265-335	0.0871	8.2366	0.6561	11.6699	0.0545	8.2913	0.7084	342.23	27.64	512.21	46.98	1362.64	158.66	342.23	27.64
2NAC265-289	0.0765	6.3378	0.6280	9.1135	0.0594	6.5806	0.7186	371.85	23.78	494.86	35.71	1108.53	126.62	371.85	23.78
2NAC265-341	0.0851	5.6296	0.9367	7.9695	0.0797	5.6768	0.7078	494.24	27.01	671.17	39.16	1318.07	109.12	494.24	27.01
2NAC265-054	0.0738	36.3324	0.9180	46.2615	0.0901	28.6404	0.6190	556.28	152.67	661.32	228.62	1035.61	733.87	556.28	152.67
2NAC265-195	0.2324	36.3650	3.2195	41.0618	0.1004	19.0819	0.4644	616.93	112.28	1461.87	329.19	3068.91	581.29	616.93	112.28
2NAC265-351	0.0796	5.7525	1.1342	9.5963	0.1035	7.7087	0.8004	634.63	46.59	769.77	51.83	1186.38	113.62	634.63	46.59
2NAC265-319	0.0812	5.4996	1.4212	8.1781	0.1266	6.0851	0.7401	768.36	44.08	897.86	48.78	1226.75	107.99	768.36	44.08
2NAC265-041	0.0781	9.1877	1.3670	11.8531	0.1267	7.5036	0.6318	769.13	54.40	874.86	69.62	1150.41	182.43	769.13	54.40
2NAC265-316	0.0820	8.3373	1.4501	12.7763	0.1279	9.7014	0.7577	775.62	70.90	909.93	76.93	1246.66	163.25	775.62	70.90
2NAC265-087	0.0919	8.7667	1.6919	13.5838	0.1335	10.3860	0.7639	807.54	78.83	1005.47	86.90	1464.32	166.55	807.54	78.83
2NAC265-169	0.0626	11.1931	1.1728	13.5793	0.1359	7.7151	0.5662	821.28	59.49	787.97	74.56	694.22	238.56	821.28	59.49
2NAC265-018	0.0683	15.5689	1.6920	21.5921	0.1795	14.9722	0.6929	1064.23	146.91	1005.53	138.66	877.53	322.27	877.53	322.27
2NAC265-214	0.0802	10.4081	1.7301	13.2837	0.1565	8.2833	0.6214	937.15	72.25	1019.78	85.68	1200.83	205.14	1200.83	205.14
2NAC265-235	0.0811	6.0297	1.6834	8.6236	0.1504	6.2051	0.7149	903.25	52.30	1002.28	54.99	1224.08	118.45	1224.08	118.45
2NAC265-126	0.0832	12.3733	1.9240	15.8308	0.1677	9.8904	0.6238	999.54	91.58	1089.46	106.15	1272.78	241.37	1272.78	241.37
2NAC265-243	0.0852	8.0386	1.9282	10.7656	0.1640	7.1950	0.6652	978.92	65.35	1090.93	72.10	1319.79	155.78	1319.79	155.78
2NAC265-006	0.0874	10.7228	2.1017	13.9557	0.1743	8.9559	0.6400	1035.49	85.68	1149.36	96.31	1369.27	206.37	1369.27	206.37
2NAC265-050	0.0908	6.5697	2.3071	9.1509	0.1840	6.3858	0.6961	1089.00	63.99	1214.49	64.91	1442.56	125.18	1442.56	125.18
2NAC265-318	0.0948	6.5365	2.5370	9.4439	0.1936	6.8450	0.7218	1140.72	71.57	1282.72	68.89	1524.33	123.20	1524.33	123.20
2NAC265-093	0.0949	17.0512	2.0357	22.5326	0.1554	14.7373	0.6537	931.00	127.77	1127.51	154.61	1526.77	321.27	1526.77	321.27
2NAC265-265	0.0968	9.2455	2.5903	14.7366	0.1938	11.4955	0.7787	1141.90	120.31	1297.91	108.37	1562.66	173.38	1562.66	173.38
2NAC265-269	0.1014	8.5169	2.9829	11.8461	0.2130	8.2609	0.6950	1244.71	93.51	1403.27	90.32	1649.47	157.91	1649.47	157.91
2NAC265-118	0.1031	8.1222	3.0700	11.4614	0.2158	8.1037	0.7056	1259.67	92.73	1425.23	88.00	1680.76	150.00	1680.76	150.00
2NAC265-230	0.1036	25.2752	3.8988	36.7114	0.2729	26.6342	0.7253	1555.42	368.48	1613.44	305.57	1688.86	466.30	1688.86	466.30
2NAC265-058	0.1055	5.8077	3.2597	8.5601	0.2239	6.3033	0.7346	1302.41	74.34	1471.49	66.61	1722.39	106.70	1722.39	106.70
2NAC265-096	0.1212	11.8239	4.4758	17.0051	0.2676	12.2308	0.7187	1528.40	166.46	1726.50	142.05	1974.17	210.72	1974.17	210.72
2NAC265-276	0.1352	5.7187	5.6364	8.3524	0.3018	6.1234	0.7289	1700.19	91.52	1921.68	72.15	2166.04	99.68	2166.04	99.68
2NAC265-292	0.1382	6.9312	4.8603	9.2390	0.2544	6.1419	0.6612	1461.25	80.31	1795.39	77.96	2204.53	120.29	2204.53	120.29
2NAC265-181	0.1831	9.3655	8.8986	13.2697	0.3524	9.4238	0.7084	1945.84	158.32	2327.66	121.71	2681.29	154.88	2681.29	154.88
2NAC265-336	0.2005	5.0808	11.4900	7.2590	0.4147	5.2231	0.7142	2236.55	98.71	2563.77	67.91	2830.56	82.89	2830.56	82.89
2NAC265-271	0.7515	90.9394	3122.0081	155.8026	30.0698	126.5105	0.8120	22151.41	65535.00	8170.33	65535.00	4832.40	1306.13	4832.40	1306.13
2NAC265-334	0.8984	40.2124	392.9921	56.8095	3.1661	40.1333	0.7064	9198.88	2030.77	6068.27	652.46	5086.39	573.31	5086.39	573.31

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-07, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.972550, LONGITUDE: -69.673930 ACCEPTED															
20160813-07-158	0.0725	31.1559	0.0641	32.3098	0.0064	8.2873	0.2650	41.17	3.40	63.12	19.78	1001.20	632.67	41.17	3.40
20160813-07-90	0.0475	28.7063	0.0443	29.3989	0.0068	6.2460	0.2158	43.45	2.70	44.02	12.67	72.74	682.50	43.45	2.70
20160813-07-198	0.0487	21.3682	0.0622	22.5224	0.0092	7.3111	0.3161	59.29	4.31	61.23	13.38	135.51	502.13	59.29	4.31
20160813-07-120	0.0395	30.9195	0.0531	31.4977	0.0097	6.0447	0.1907	62.42	3.75	52.53	16.13	0.00	745.30	62.42	3.75
20160813-07-138	0.0788	39.8947	0.1138	42.2291	0.0105	13.8844	0.3279	67.15	9.27	109.44	43.84	1166.00	790.33	67.15	9.27
20160813-07-106	0.0560	13.3427	0.0896	14.0491	0.0116	4.2980	0.3132	74.23	3.17	87.12	11.73	454.01	296.10	74.23	3.17
20160813-07-94	0.0523	34.3037	0.0847	35.6350	0.0117	9.5475	0.2708	75.27	7.14	82.56	28.26	296.42	782.71	75.27	7.14
20160813-07-142	0.0859	42.2580	0.1405	43.7274	0.0118	11.2900	0.2571	75.90	8.52	133.48	54.74	1336.86	816.94	75.90	8.52
20160813-07-10	0.0463	22.4624	0.0758	23.2215	0.0119	5.9199	0.2536	76.00	4.47	74.18	16.61	13.87	540.02	76.00	4.47
20160813-07-119	0.0503	27.2224	0.0851	27.8688	0.0122	5.7065	0.2143	78.48	4.45	82.94	22.20	210.89	630.90	78.48	4.45
20160813-07-185	0.0583	19.0360	0.0993	19.9033	0.0123	5.8712	0.2920	79.09	4.62	96.16	18.26	541.40	416.21	79.09	4.62
20160813-07-167	0.0503	15.7410	0.0869	16.4430	0.0125	4.7311	0.2891	80.16	3.77	84.65	13.36	211.18	364.79	80.16	3.77
20160813-07-43	0.0486	16.1516	0.0839	17.6961	0.0125	7.0108	0.4088	80.19	5.59	81.82	13.91	127.32	380.12	80.19	5.59
20160813-07-14	0.0505	11.2623	0.0874	13.0499	0.0125	6.7660	0.5053	80.30	5.40	85.09	10.65	219.29	260.61	80.30	5.40
20160813-07-200	0.0465	19.6508	0.0807	20.8798	0.0126	7.2532	0.3382	80.49	5.80	78.81	15.83	25.76	471.35	80.49	5.80
20160813-07-38	0.0550	18.0648	0.0955	19.3568	0.0126	7.0110	0.3592	80.52	5.61	92.58	17.13	413.42	403.75	80.52	5.61
20160813-07-26	0.0556	10.2575	0.0970	11.0903	0.0126	4.4794	0.3809	81.01	3.61	94.01	9.96	435.54	228.37	81.01	3.61
20160813-07-111	0.0503	9.4082	0.0880	12.0806	0.0127	7.4767	0.6273	81.12	6.03	85.63	9.92	210.87	218.04	81.12	6.03
20160813-07-05	0.0537	9.2142	0.0943	10.7752	0.0127	5.5792	0.5184	81.48	4.52	91.51	9.43	359.55	207.92	81.48	4.52
20160813-07-74	0.0459	9.1169	0.0811	11.3381	0.0128	6.4028	0.5953	81.92	5.21	79.18	8.64	0.00	219.76	81.92	5.21
20160813-07-181	0.0493	9.4947	0.0875	10.4450	0.0129	4.4264	0.4168	82.39	3.62	85.18	8.53	162.23	222.02	82.39	3.62
20160813-07-54	0.0579	9.4433	0.1064	11.1323	0.0133	5.5022	0.5308	85.30	4.66	102.65	10.87	524.49	207.07	85.30	4.66
20160813-07-83	0.0461	14.0169	0.0849	16.5245	0.0134	8.5152	0.5298	85.49	7.23	82.75	13.13	1.51	337.77	85.49	7.23
20160813-07-52	0.0485	7.8709	0.0894	11.5238	0.0134	8.2035	0.7306	85.56	6.97	86.92	9.60	122.04	185.42	85.56	6.97
20160813-07-57	0.0532	16.1740	0.0985	18.2939	0.0134	8.2820	0.4675	85.89	7.07	95.44	16.67	338.60	366.33	85.89	7.07
20160813-07-32	0.0478	8.8736	0.0925	10.8836	0.0140	6.4458	0.5792	89.77	5.75	89.82	9.36	88.74	210.34	89.77	5.75
20160813-07-177	0.0530	9.2000	0.1036	10.2114	0.0142	4.5029	0.4340	90.73	4.06	100.13	9.74	328.00	208.77	90.73	4.06
20160813-07-42	0.0489	9.6599	0.1007	10.6804	0.0149	4.1989	0.4280	95.45	3.98	97.38	9.92	142.47	226.71	95.45	3.98
20160813-07-160	0.0500	9.1968	0.1077	12.9818	0.0156	8.9947	0.7059	99.75	8.90	103.84	12.81	196.82	213.70	99.75	8.90
20160813-07-70	0.0546	20.0009	0.1327	21.0190	0.0176	6.1093	0.3079	112.50	6.81	126.50	25.01	395.91	448.41	112.50	6.81
20160813-07-140	0.0477	72.4974	0.1163	73.4129	0.0177	11.6053	0.1574	112.80	12.98	111.74	77.83	86.78	1719.14	112.80	12.98
20160813-07-96	0.0497	7.8580	0.1404	9.1268	0.0205	4.4268	0.5092	130.63	5.72	133.37	11.41	180.03	183.15	130.63	5.72
20160813-07-189	0.0604	21.7171	0.1784	22.4902	0.0214	5.9057	0.2600	136.48	7.98	166.70	34.59	618.76	468.67	136.48	7.98
20160813-07-132	0.0527	26.3867	0.1561	28.8192	0.0215	11.6610	0.4021	136.99	15.81	147.32	39.54	314.73	600.08	136.99	15.81
20160813-07-112	0.0555	12.2663	0.1680	13.5061	0.0220	5.5162	0.4186	139.98	7.64	157.71	19.73	430.74	273.32	139.98	7.64
20160813-07-25	0.0535	15.2223	0.1644	20.2818	0.0223	13.4878	0.6608	141.96	18.94	154.54	29.08	349.83	344.09	141.96	18.94
20160813-07-161	0.0619	4.8371	0.1909	6.7674	0.0223	4.4000	0.7012	142.41	6.20	177.36	11.01	671.06	103.48	142.41	6.20
20160813-07-197	0.0604	17.7047	0.1863	18.9775	0.0224	7.0343	0.3602	142.50	9.91	173.44	30.27	617.38	382.16	142.50	9.91
20160813-07-157	0.0513	13.7065	0.1593	17.5936	0.0225	10.8216	0.6271	143.57	15.37	150.12	24.56	252.74	315.23	143.57	15.37
20160813-07-95	0.0501	11.1283	0.1570	12.3963	0.0227	5.2799	0.4408	144.68	7.55	148.07	17.08	200.20	258.41	144.68	7.55
20160813-07-128	0.0583	17.7329	0.1833	18.5816	0.0228	5.8012	0.2991	145.05	8.32	170.85	29.23	542.70	387.64	145.05	8.32
20160813-07-130	0.0462	34.1136	0.1480	34.4352	0.0232	4.8721	0.1365	148.00	7.13	140.13	45.10	6.34	821.30	148.00	7.13
20160813-07-115	0.0454	10.1212	0.1479	11.9252	0.0236	6.0603	0.5293	150.46	9.01	140.08	15.61	0.00	243.97	150.46	9.01
20160813-07-17	0.0530	10.8257	0.1759	12.7017	0.0240	6.8158	0.5232	153.13	10.31	164.54	19.30	329.80	245.58	153.13	10.31
20160813-07-51	0.0542	19.7138	0.2060	20.4781	0.0276	5.2123	0.2712	175.28	9.01	190.20	35.53	377.39	443.43	175.28	9.01
20160813-07-147	0.0496	5.5529	0.1954	6.6671	0.0286	3.6508	0.5535	181.58	6.54	181.23	11.07	174.48	129.55	181.58	6.54
20160813-07-117	0.0459	10.9743	0.1823	13.6927	0.0288	8.0007	0.5982	182.78	14.42	170.03	21.44	0.00	264.53	182.78	14.42
20160813-07-116	0.0588	20.2615	0.2363	21.3708	0.0291	6.5680	0.3182	184.98	11.98	215.35	41.49	559.66	441.63	184.98	11.98
20160813-07-81	0.0500	7.5357	0.2084	9.1813	0.0302	4.8408	0.5731	191.84	9.15	192.20	16.08	194.16	175.18	191.84	9.15
20160813-07-60	0.0602	31.4973	0.2708	33.7990	0.0326	12.1768	0.3627	206.71	24.77	243.32	73.26	610.99	680.61	206.71	24.77

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-07, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.972550, LONGITUDE: -69.673930 ACCEPTED															
20160813-07-126	0.0525	6.8299	0.2856	9.6829	0.0394	7.0671	0.7092	249.17	17.27	255.06	21.84	307.29	155.53	249.17	17.27
20160813-07-134	0.0520	7.1265	0.2842	8.6139	0.0396	4.9470	0.5619	250.18	12.14	253.95	19.36	286.63	162.89	250.18	12.14
20160813-07-76	0.0501	8.2087	0.2761	10.5122	0.0399	5.9645	0.6276	252.38	14.76	247.56	23.10	199.68	190.63	252.38	14.76
20160813-07-143	0.0555	12.0691	0.3106	15.9698	0.0405	10.5110	0.6549	256.21	26.40	274.64	38.45	432.62	268.84	256.21	26.40
20160813-07-16	0.0545	11.3026	0.3169	12.0721	0.0422	4.5064	0.3520	266.21	11.75	279.55	29.51	390.53	253.64	266.21	11.75
20160813-07-56	0.0509	8.1315	0.2969	11.2295	0.0423	7.4500	0.6902	266.94	19.48	263.94	26.11	234.98	187.62	266.94	19.48
20160813-07-68	0.0595	10.5731	0.3529	12.6260	0.0430	6.7048	0.5468	271.31	17.81	306.88	33.45	584.58	229.49	271.31	17.81
20160813-07-39	0.0537	5.1959	0.3468	6.1428	0.0468	3.3970	0.5338	294.82	9.79	302.31	16.06	358.29	117.27	294.82	9.79
20160813-07-179	0.0607	23.6755	0.4650	25.7696	0.0555	10.2070	0.3949	348.18	34.60	387.72	83.24	629.18	510.04	348.18	34.60
20160813-07-79	0.0537	4.7044	0.4962	7.4538	0.0669	5.0870	0.7820	417.48	20.56	409.11	25.10	359.69	106.15	417.48	20.56
20160813-07-146	0.0707	19.5689	0.6648	24.6374	0.0682	14.9589	0.6076	425.16	61.55	517.52	100.22	947.34	400.69	425.16	61.55
20160813-07-135	0.0587	7.3610	0.5910	10.0800	0.0729	6.9631	0.6832	453.73	30.51	471.48	38.04	556.65	160.53	453.73	30.51
20160813-07-163	0.0590	3.4916	0.6321	4.7815	0.0776	2.7625	0.6928	481.88	12.83	497.40	18.81	567.56	76.00	481.88	12.83
20160813-07-45	0.0575	5.7603	0.6294	7.6887	0.0793	4.4787	0.6678	491.83	21.21	495.72	30.17	511.50	126.59	491.83	21.21
20160813-07-101	0.0603	3.7857	0.6612	5.3705	0.0795	3.6112	0.7103	493.06	17.14	515.35	21.71	613.17	81.77	493.06	17.14
20160813-07-20	0.0590	7.5618	0.6572	9.3282	0.0806	5.5891	0.5857	499.98	26.89	512.87	37.58	568.56	164.57	499.98	26.89
20160813-07-66	0.0770	8.4173	0.8620	9.6753	0.0811	4.4819	0.4940	502.49	21.67	631.23	45.51	1122.23	167.83	502.49	21.67
20160813-07-02	0.0622	7.1946	0.6971	8.2808	0.0812	4.0906	0.4951	503.06	19.80	537.07	34.55	682.18	153.64	503.06	19.80
20160813-07-187	0.0569	4.5728	0.6420	5.5552	0.0817	3.2635	0.5681	506.54	15.90	503.56	22.06	488.07	100.90	506.54	15.90
20160813-07-09	0.0624	12.5078	0.7097	17.4818	0.0825	12.2285	0.6986	510.80	60.05	544.54	73.81	686.30	266.92	510.80	60.05
20160813-07-34	0.0569	8.1683	0.6551	9.0223	0.0834	4.0639	0.4254	516.32	20.16	511.63	36.28	488.48	180.23	516.32	20.16
20160813-07-61	0.0573	9.6085	0.6682	13.9709	0.0845	10.0422	0.7260	522.97	50.44	519.61	56.88	502.55	211.49	522.97	50.44
20160813-07-196	0.0596	8.8615	0.7009	9.8725	0.0852	4.6619	0.4419	527.12	23.60	539.33	41.33	589.27	192.18	527.12	23.60
20160813-07-13	0.0608	8.3412	0.7274	12.0252	0.0867	8.7221	0.7203	535.88	44.85	555.03	51.46	632.26	179.60	535.88	44.85
20160813-07-22	0.0608	6.9758	0.7385	8.1603	0.0880	4.3970	0.5193	543.74	22.93	561.51	35.21	632.05	150.21	543.74	22.93
20160813-07-53	0.0538	18.0419	0.6552	18.9451	0.0882	5.4642	0.3056	544.79	28.55	511.68	76.29	364.03	406.79	544.79	28.55
20160813-07-07	0.0624	4.1101	0.7846	5.7656	0.0911	4.0341	0.7013	562.11	21.72	588.08	25.74	687.58	87.69	562.11	21.72
20160813-07-37	0.0603	7.2094	0.7748	8.1784	0.0931	3.9641	0.4723	573.88	21.77	582.50	36.27	614.04	155.71	573.88	21.77
20160813-07-193	0.0601	5.9540	0.7737	7.6231	0.0933	4.8335	0.6245	575.09	26.59	581.90	33.78	606.59	128.75	575.09	26.59
20160813-07-127	0.0583	5.0886	0.7529	6.3264	0.0935	4.1186	0.5967	576.25	22.70	569.91	27.60	542.48	111.24	576.25	22.70
20160813-07-129	0.0562	7.2597	0.7306	8.3686	0.0943	4.3611	0.4980	580.74	24.22	556.91	35.89	458.45	160.98	580.74	24.22
20160813-07-169	0.0614	5.5456	0.8041	6.5713	0.0949	3.6049	0.5366	584.62	20.15	599.15	29.75	652.70	119.00	584.62	20.15
20160813-07-50	0.0638	4.7613	0.8432	6.5492	0.0957	4.0834	0.6898	589.31	23.00	620.91	30.43	735.67	100.79	589.31	23.00
20160813-07-47	0.0696	11.6333	0.9248	13.2574	0.0962	5.8778	0.4811	592.35	33.27	664.89	64.76	917.13	239.29	592.35	33.27
20160813-07-105	0.0590	9.5964	0.7859	12.2210	0.0965	7.5091	0.6192	593.62	42.59	588.86	54.66	568.21	208.87	593.62	42.59
20160813-07-184	0.0564	8.4979	0.7506	9.7021	0.0965	4.7497	0.4826	593.63	26.94	568.56	42.26	467.56	188.14	593.63	26.94
20160813-07-150	0.0616	4.2047	0.8289	6.3953	0.0975	4.7351	0.7536	599.48	27.11	612.99	29.44	661.26	90.10	599.48	27.11
20160813-07-30	0.0612	5.3030	0.8306	6.8091	0.0983	4.4808	0.6280	604.70	25.86	613.92	31.38	645.89	113.92	604.70	25.86
20160813-07-133	0.0592	5.1910	0.8096	7.4229	0.0991	5.4627	0.7151	609.19	31.75	602.24	33.73	574.04	112.87	609.19	31.75
20160813-07-125	0.0604	8.8323	0.8353	10.2739	0.1002	5.5115	0.5114	615.71	32.36	616.56	47.51	617.50	190.65	615.71	32.36
20160813-07-191	0.0614	5.3179	0.8493	7.0420	0.1002	4.6914	0.6556	615.87	27.56	624.29	32.85	652.98	114.11	615.87	27.56
20160813-07-71	0.0622	4.7501	0.8762	6.9980	0.1021	4.6873	0.7374	626.50	27.98	638.91	33.20	680.75	101.46	626.50	27.98
20160813-07-67	0.0653	10.5193	0.9470	12.8771	0.1051	7.2452	0.5770	644.25	44.42	676.53	63.68	783.27	220.99	644.25	44.42
20160813-07-46	0.0658	10.7690	0.9587	12.1201	0.1055	5.0049	0.4614	646.57	30.79	682.63	60.31	801.24	225.59	646.57	30.79
20160813-07-21	0.0612	5.5169	0.8921	6.6396	0.1055	3.8797	0.5571	646.73	23.87	647.48	31.80	647.95	118.48	646.73	23.87
20160813-07-80	0.0601	3.7652	0.8820	6.2026	0.1063	4.4965	0.7980	650.95	27.84	642.04	29.52	608.48	81.39	650.95	27.84
20160813-07-122	0.0674	5.5631	1.0008	8.8804	0.1076	6.9541	0.7795	658.85	43.55	704.23	45.13	849.66	115.66	658.85	43.55
20160813-07-18	0.0632	4.5396	0.9479	5.5455	0.1086	3.5304	0.5774	664.68	22.30	677.00	27.41	716.09	96.41	664.68	22.30
20160813-07-139	0.0676	8.3876	1.0867	9.6302	0.1164	4.8427	0.4915	709.81	32.55	746.90	50.97	857.69	174.16	709.81	32.55
20160813-07-170	0.0617	5.2889	1.0175	6.8154	0.1195	4.3640	0.6308	727.91	30.04	712.67	34.92	663.11	113.30	727.91	30.04

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-07, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.972550, LONGITUDE: -69.673930 ACCEPTED															
20160813-07-82	0.0631	8.5323	1.0516	10.7972	0.1208	6.3010	0.6135	735.07	43.77	729.69	56.25	710.91	181.35	735.07	43.77
20160813-07-109	0.0627	8.0952	1.0550	11.2149	0.1220	7.7051	0.6921	741.93	54.00	731.35	58.53	696.77	172.46	741.93	54.00
20160813-07-172	0.0650	3.9945	1.0958	5.5368	0.1222	3.9073	0.6926	743.41	27.44	751.32	29.40	773.15	84.05	743.41	27.44
20160813-07-33	0.0805	4.6901	1.3985	7.3186	0.1259	5.7793	0.7680	764.53	41.67	888.32	43.36	1208.60	92.34	764.53	41.67
20160813-07-24	0.0643	11.9468	1.2053	14.4648	0.1359	8.2408	0.5638	821.20	63.54	803.03	80.44	750.85	252.29	821.20	63.54
20160813-07-183	0.0690	5.1906	1.3072	6.6104	0.1373	4.1713	0.6193	829.34	32.46	848.89	38.05	898.54	107.10	829.34	32.46
20160813-07-64	0.0695	9.1238	1.3459	12.0039	0.1403	7.6702	0.6499	846.32	60.84	865.80	70.04	913.81	187.77	846.32	60.84
20160813-07-166	0.0745	11.1998	1.4497	15.1277	0.1410	10.1590	0.6722	850.18	80.92	909.73	91.14	1055.47	225.55	850.18	80.92
20160813-07-08	0.0734	6.0887	1.4575	7.4940	0.1438	4.3604	0.5830	866.39	35.35	912.98	45.16	1025.43	123.20	866.39	35.35
20160813-07-151	0.0682	2.9238	1.4128	4.4100	0.1501	3.1781	0.7492	901.39	26.73	894.35	26.23	875.08	60.54	875.08	60.54
20160813-07-156	0.0737	10.7813	1.4959	13.1302	0.1470	7.1838	0.5713	884.08	59.35	928.73	80.07	1034.46	217.81	884.08	59.35
20160813-07-152	0.0832	10.4708	1.7088	13.6027	0.1488	8.6369	0.6383	894.02	72.10	1011.85	87.35	1274.74	204.20	894.02	72.10
20160813-07-77	0.0701	4.7634	1.4941	7.0574	0.1545	4.4235	0.7477	925.93	38.15	927.97	42.95	930.61	97.78	930.61	97.78
20160813-07-190	0.0714	8.3084	1.6957	11.8123	0.1720	8.4381	0.7108	1023.21	79.84	1006.93	75.59	969.82	169.55	969.82	169.55
20160813-07-178	0.0719	10.7696	1.6456	13.2368	0.1659	7.7378	0.5814	989.64	70.99	987.85	83.79	982.12	219.31	982.12	219.31
20160813-07-69	0.0722	4.1626	1.5848	6.2111	0.1591	4.3103	0.7439	951.60	38.13	964.25	38.69	991.03	84.66	991.03	84.66
20160813-07-102	0.0724	4.7336	1.6403	6.5757	0.1642	4.4003	0.6946	980.01	40.01	985.84	41.50	996.65	96.19	996.65	96.19
20160813-07-97	0.0729	4.7390	1.7144	6.2657	0.1705	3.8531	0.6554	1014.85	36.18	1013.94	40.20	1009.79	96.11	1009.79	96.11
20160813-07-144	0.0729	3.7823	1.7375	5.7700	0.1727	4.4829	0.7555	1027.19	42.57	1022.54	37.20	1010.67	76.70	1010.67	76.70
20160813-07-48	0.0735	4.0538	1.6024	6.4893	0.1579	4.4499	0.7875	944.92	39.11	971.14	40.59	1028.84	81.99	1028.84	81.99
20160813-07-114	0.0737	3.2277	1.5740	4.6235	0.1547	3.0715	0.7180	927.30	26.53	960.00	28.72	1033.56	65.22	1033.56	65.22
20160813-07-28	0.0738	5.6484	1.5865	7.4266	0.1558	5.0533	0.6500	933.15	43.90	964.93	46.29	1036.03	114.08	1036.03	114.08
20160813-07-192	0.0739	4.6824	1.5579	6.8107	0.1528	5.0161	0.7262	916.55	42.86	953.63	42.14	1038.34	94.54	1038.34	94.54
20160813-07-58	0.0740	3.9892	1.6343	6.0133	0.1600	3.9709	0.7541	956.66	35.30	983.52	37.90	1041.85	80.50	1041.85	80.50
20160813-07-159	0.0741	6.8494	1.6977	8.1209	0.1660	3.8050	0.5423	990.03	34.92	1007.66	51.94	1044.40	138.17	1044.40	138.17
20160813-07-88	0.0743	4.8178	1.7028	6.4073	0.1659	4.2276	0.6593	989.70	38.79	1009.57	41.01	1050.75	97.09	1050.75	97.09
20160813-07-36	0.0744	3.7097	1.7358	4.8399	0.1690	3.2351	0.6428	1006.81	30.16	1021.89	31.19	1052.30	74.74	1052.30	74.74
20160813-07-91	0.0748	6.9446	1.6943	9.3833	0.1642	6.2119	0.6726	980.00	56.48	1006.39	59.98	1062.10	139.71	1062.10	139.71
20160813-07-118	0.0749	7.1980	1.6985	10.7175	0.1643	7.7466	0.7411	980.54	70.47	1007.96	68.60	1065.96	144.73	1065.96	144.73
20160813-07-41	0.0749	2.9119	1.6886	4.7201	0.1633	3.2670	0.7935	974.86	29.56	1004.22	30.11	1066.79	58.54	1066.79	58.54
20160813-07-86	0.0753	7.3106	1.6341	9.0908	0.1571	5.4063	0.5944	940.89	47.33	983.43	57.32	1077.48	146.74	1077.48	146.74
20160813-07-85	0.0758	5.2053	1.9038	8.4909	0.1820	6.7105	0.7900	1077.97	66.61	1082.41	56.58	1089.20	104.30	1089.20	104.30
20160813-07-141	0.0769	8.2236	1.8719	10.2507	0.1764	6.2096	0.5971	1047.13	60.02	1071.19	67.94	1118.59	164.05	1118.59	164.05
20160813-07-136	0.0770	3.6861	1.9969	5.3843	0.1879	4.0577	0.7293	1110.16	41.38	1114.48	36.44	1120.96	73.51	1120.96	73.51
20160813-07-164	0.0772	14.6679	2.0521	20.8048	0.1927	14.7473	0.7092	1135.74	153.59	1133.00	142.97	1126.02	292.29	1126.02	292.29
20160813-07-84	0.0774	4.5790	1.7268	6.4489	0.1617	4.5443	0.7042	965.96	40.77	1018.56	41.49	1131.25	91.18	1131.25	91.18
20160813-07-137	0.0777	7.3550	2.0823	9.5289	0.1941	6.1454	0.6359	1143.40	64.39	1143.00	65.46	1140.29	146.26	1140.29	146.26
20160813-07-59	0.0778	9.0992	1.8689	11.5854	0.1741	6.8518	0.6196	1034.43	65.49	1070.12	76.78	1141.51	180.91	1141.51	180.91
20160813-07-182	0.0796	6.0322	2.2354	8.4701	0.2036	5.9999	0.7020	1194.45	65.42	1192.22	59.49	1186.45	119.14	1186.45	119.14
20160813-07-27	0.0799	4.2493	2.2279	5.3926	0.2020	3.6481	0.6184	1186.22	39.53	1189.87	37.81	1194.54	83.83	1194.54	83.83
20160813-07-11	0.0800	4.1238	2.1200	5.5667	0.1919	3.7882	0.6718	1131.61	39.32	1155.33	38.43	1198.15	81.31	1198.15	81.31
20160813-07-89	0.0804	4.5987	2.0078	6.1961	0.1810	4.0015	0.6706	1072.47	39.54	1118.16	42.02	1205.92	90.58	1205.92	90.58
20160813-07-15	0.0805	3.8013	2.1233	5.1387	0.1911	3.7781	0.6755	1127.49	39.08	1156.40	35.49	1209.05	74.84	1209.05	74.84
20160813-07-171	0.0822	5.2331	2.1870	8.2076	0.1929	6.3676	0.7704	1136.99	66.38	1176.91	57.25	1249.39	102.43	1249.39	102.43
20160813-07-63	0.0827	3.9989	2.2490	5.7514	0.1970	3.8818	0.7201	1159.13	41.18	1196.47	40.45	1262.49	78.12	1262.49	78.12
20160813-07-35	0.0832	3.6295	2.4077	4.9381	0.2097	3.4663	0.6785	1227.20	38.73	1244.88	35.44	1273.63	70.79	1273.63	70.79
20160813-07-174	0.0835	6.2500	2.5961	9.0588	0.2253	6.6062	0.7239	1310.01	78.32	1299.54	66.50	1280.60	121.79	1280.60	121.79
20160813-07-186	0.0836	6.7515	2.2011	10.8402	0.1908	8.5222	0.7824	1125.84	88.04	1181.40	75.83	1282.90	131.52	1282.90	131.52
20160813-07-73	0.0855	3.5257	2.5988	6.0870	0.2201	4.4927	0.8192	1282.36	52.25	1300.29	44.66	1327.92	68.24	1327.92	68.24
20160813-07-110	0.0858	3.5942	2.3047	7.6005	0.1947	6.5821	0.8813	1146.62	69.14	1213.73	53.87	1333.07	69.52	1333.07	69.52

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-07, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.972550, LONGITUDE: -69.673930 ACCEPTED															
20160813-07-195	0.0873	8.3895	2.3779	12.6426	0.1973	9.6044	0.7482	1160.78	102.03	1235.97	90.61	1367.78	161.49	1367.78	161.49
20160813-07-49	0.0904	8.9400	2.5619	10.2259	0.2054	4.5930	0.4869	1204.04	50.44	1289.83	74.82	1433.68	170.55	1433.68	170.55
20160813-07-100	0.0912	7.1529	2.7235	8.6473	0.2164	4.7055	0.5622	1262.67	53.96	1334.89	64.31	1450.63	136.14	1450.63	136.14
20160813-07-92	0.0927	12.1107	3.0993	17.6805	0.2421	12.8335	0.7286	1397.85	161.31	1432.52	136.55	1482.35	229.53	1482.35	229.53
20160813-07-194	0.0928	3.6613	3.4184	5.3164	0.2670	3.9446	0.7253	1525.39	53.58	1508.63	41.79	1483.43	69.38	1483.43	69.38
20160813-07-121	0.0932	4.4122	2.7039	5.2754	0.2102	2.9680	0.5484	1229.83	33.23	1329.53	39.12	1492.01	83.51	1492.01	83.51
20160813-07-72	0.0939	4.9116	3.2036	7.6693	0.2472	5.5007	0.7698	1424.10	70.29	1458.02	59.42	1505.77	92.80	1505.77	92.80
20160813-07-78	0.0941	5.4119	3.3175	8.3945	0.2554	5.7991	0.7684	1466.20	76.05	1485.19	65.59	1510.37	102.19	1510.37	102.19
20160813-07-31	0.0967	3.8857	3.2166	5.4519	0.2409	4.0571	0.7027	1391.45	50.78	1461.16	42.25	1562.11	72.88	1562.11	72.88
20160813-07-04	0.0974	3.7269	3.2841	5.7842	0.2442	4.4150	0.7648	1408.41	55.86	1477.29	45.05	1575.87	69.77	1575.87	69.77
20160813-07-103	0.0976	5.8813	3.5248	7.4590	0.2617	4.4245	0.6155	1498.32	59.15	1532.80	59.07	1578.69	110.07	1578.69	110.07
20160813-07-155	0.0982	3.6181	3.1381	5.6708	0.2315	3.8091	0.7772	1342.28	46.16	1442.09	43.69	1590.83	67.61	1590.83	67.61
20160813-07-75	0.0986	5.4654	3.5234	8.1989	0.2589	5.4590	0.7502	1484.28	72.38	1532.47	64.93	1597.62	102.03	1597.62	102.03
20160813-07-108	0.1006	7.8771	3.3183	10.2013	0.2389	6.4143	0.6355	1381.06	79.74	1485.38	79.76	1635.69	146.34	1635.69	146.34
20160813-07-154	0.1025	4.5640	4.4558	5.9916	0.3151	3.7775	0.6481	1765.71	58.35	1722.78	49.73	1669.34	84.41	1669.34	84.41
20160813-07-180	0.1027	4.0528	3.8960	5.5691	0.2749	3.9030	0.6860	1565.40	54.25	1612.86	45.03	1673.78	74.91	1673.78	74.91
20160813-07-03	0.1048	12.9483	3.6201	18.9545	0.2504	13.8398	0.7303	1440.35	178.69	1553.95	151.93	1710.24	238.24	1710.24	238.24
20160813-07-06	0.1048	3.1586	3.8662	5.3190	0.2673	4.2707	0.8046	1526.87	58.06	1606.65	42.93	1711.09	58.11	1711.09	58.11
20160813-07-99	0.1049	5.0213	3.7168	6.9509	0.2566	4.5987	0.6922	1472.52	60.54	1574.99	55.67	1713.11	92.36	1713.11	92.36
20160813-07-19	0.1054	6.2342	4.0653	9.1924	0.2796	6.9248	0.7351	1589.11	97.54	1647.38	75.05	1720.71	114.56	1720.71	114.56
20160813-07-107	0.1055	8.8143	4.2522	11.4967	0.2921	7.3218	0.6421	1652.00	106.71	1684.17	94.78	1722.48	161.93	1722.48	161.93
20160813-07-23	0.1067	3.0605	4.5577	4.3205	0.3095	3.2718	0.7076	1738.20	49.85	1741.56	35.99	1743.76	56.08	1743.76	56.08
20160813-07-145	0.1067	4.8534	4.1842	6.2790	0.2840	3.9477	0.6345	1611.64	56.29	1670.92	51.50	1744.49	88.92	1744.49	88.92
20160813-07-153	0.1071	5.9834	4.4002	8.4037	0.2976	5.8328	0.7022	1679.39	86.24	1712.37	69.64	1751.30	109.54	1751.30	109.54
20160813-07-93	0.1073	4.3489	3.9959	5.6977	0.2699	3.5099	0.6468	1540.17	48.09	1633.37	46.31	1753.57	79.59	1753.57	79.59
20160813-07-175	0.1079	9.3410	4.2864	13.1977	0.2880	9.3577	0.7064	1631.41	134.90	1690.75	109.08	1763.58	170.74	1763.58	170.74
20160813-07-149	0.1080	4.0172	4.6862	5.5782	0.3144	3.8330	0.6938	1762.53	59.11	1764.78	46.71	1765.74	73.41	1765.74	73.41
20160813-07-165	0.1083	11.0082	4.6196	16.0465	0.3092	11.6662	0.7276	1736.80	177.66	1752.82	134.72	1770.39	201.05	1770.39	201.05
20160813-07-113	0.1095	3.5316	4.3813	5.2721	0.2900	3.7146	0.7435	1641.35	53.83	1708.82	43.61	1790.63	64.34	1790.63	64.34
20160813-07-173	0.1103	4.8638	5.4389	6.7377	0.3573	4.7230	0.6921	1969.54	80.16	1891.01	57.85	1804.29	88.44	1804.29	88.44
20160813-07-40	0.1307	3.3174	6.4648	5.5869	0.3583	4.1329	0.8075	1974.02	70.28	2041.11	49.17	2107.82	58.21	2107.82	58.21
20160813-07-12	0.1360	3.9490	6.4168	5.5927	0.3420	4.0305	0.7082	1896.15	66.21	2034.57	49.17	2176.31	68.75	2176.31	68.75
20160813-07-44	0.1622	3.1048	9.2822	5.5360	0.4146	3.8899	0.8391	2235.77	73.49	2366.26	50.79	2478.94	52.37	2478.94	52.37
20160813-07-65	0.1699	3.9894	9.8316	6.3620	0.4193	4.6783	0.7803	2257.10	89.10	2419.12	58.70	2556.61	66.77	2556.61	66.77
20160813-07-124	0.1879	3.6817	13.3017	4.7926	0.5128	3.4995	0.6458	2668.63	76.48	2701.30	45.29	2724.14	60.64	2724.14	60.64
20160813-07-176	0.2761	3.8409	25.3933	5.6667	0.6664	4.2430	0.7354	3292.13	109.40	3323.46	55.41	3341.07	60.05	3341.07	60.05
20160813-07, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.972550, LONGITUDE: -69.673930 REJECTED															
20160813-07-199	0.0890	58.4441	0.0758	61.4244	0.0062	18.9748	0.3077	39.69	7.51	74.21	43.99	1403.29	1119.55	39.69	7.51
20160813-07-29	0.1962	51.1248	0.1958	52.9635	0.0072	13.9167	0.2612	46.45	6.44	181.56	88.28	2794.61	836.73	46.45	6.44
20160813-07-01	0.0567	20.5430	0.0801	28.4755	0.0102	19.7172	0.6925	65.66	12.88	78.20	21.43	478.37	454.06	65.66	12.88
20160813-07-131	0.0800	43.0098	0.1302	46.0382	0.0118	16.4732	0.3567	75.56	12.37	124.32	53.92	1198.01	848.07	75.56	12.37
20160813-07-87	0.1317	16.9804	0.2291	18.4046	0.0126	7.1011	0.3857	80.74	5.70	209.43	34.84	2120.50	297.50	80.74	5.70
20160813-07-188	0.5354	8.5397	3.5649	11.6699	0.0482	7.9975	0.6816	303.75	23.73	1541.75	92.79	4341.80	125.19	303.75	23.73
20160813-07-55	0.0793	25.7913	1.3712	35.6890	0.1254	24.5771	0.6912	761.29	176.52	876.70	212.61	1178.52	510.00	761.29	176.52
20160813-07-168	0.0695	9.9641	1.6369	12.8529	0.1706	8.1058	0.6317	1015.55	76.17	984.52	81.19	914.17	205.05	914.17	205.05
20160813-07-98	0.0794	6.7778	1.6711	7.8441	0.1525	3.6928	0.5045	915.12	31.50	997.62	49.87	1181.53	133.97	1181.53	133.97
20160813-07-123	0.0811	36.6192	2.0146	51.6712	0.1800	36.4608	0.7055	1067.22	358.99	1120.44	365.65	1223.12	719.45	1223.12	719.45
20160813-07-162	0.1046	17.6809	4.1424	25.5955	0.2871	18.4248	0.7231	1626.89	265.07	1662.72	212.40	1706.66	325.47	1706.66	325.47
20160813-07-104	0.5378	105.7842	711.3137	288.9274	9.5830	268.8629	0.9306	15208.70	65535.00	6669.56	65535.00	4348.21	1550.34	4348.21	1550.34

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
20160813-07, MIDDLE EOCENE, MUÑANI FORMATION, LATITUDE: -15.972550, LONGITUDE: -69.673930 REJECTED															
20160813-07-62	0.7464	19.2264	856.1354	51.2915	8.3107	47.5305	0.9271	14382.98	2919.39	6857.49	574.57	4822.66	276.23	4822.66	276.23
20160813-07-148	0.8676	36.9253	788.7710	53.4816	6.5879	38.6849	0.7234	13064.01	2252.55	6774.37	605.09	5036.90	527.13	5036.90	527.13
3NAC658, LATE EOCENE, MUÑANI FORMATION, LATITUDE: -15.973760, LONGITUDE: -69.665170 ACCEPTED															
3NAC658-035	0.0655	27.5290	0.0510	28.8451	0.0056	8.6177	0.2986	36.28	3.12	50.50	14.21	789.67	577.75	36.28	3.12
3NAC658-239	0.0254	126.5222	0.0208	126.7778	0.0059	8.1821	0.0635	38.14	3.11	20.91	26.25	0.00	3049.75	38.14	3.11
3NAC658-101	0.0592	19.8094	0.0691	22.3759	0.0085	10.4428	0.4650	54.34	5.65	67.86	14.69	573.42	430.77	54.34	5.65
3NAC658-150	0.0698	29.8030	0.0874	30.5089	0.0091	6.1891	0.2142	58.21	3.59	85.05	24.90	922.52	612.53	58.21	3.59
3NAC658-277	0.0615	17.7174	0.0900	18.5932	0.0106	5.7064	0.3033	68.07	3.86	87.54	15.60	655.43	380.02	68.07	3.86
3NAC658-102	0.1065	38.5914	0.1569	40.6873	0.0107	12.9209	0.3168	68.50	8.80	148.02	56.10	1739.86	707.47	68.50	8.80
3NAC658-271	0.0447	23.2563	0.0663	23.7928	0.0108	5.0155	0.2112	68.93	3.44	65.17	15.02	0.00	560.58	68.93	3.44
3NAC658-176	0.0478	10.9386	0.0727	11.4208	0.0110	4.4582	0.3011	70.57	3.13	71.23	7.86	91.06	259.18	70.57	3.13
3NAC658-346	0.0723	20.0383	0.1104	20.5873	0.0111	4.9186	0.2296	70.89	3.47	106.29	20.78	994.74	407.30	70.89	3.47
3NAC658-306	0.0566	21.3098	0.0888	22.0073	0.0114	5.9730	0.2506	72.96	4.33	86.41	18.23	474.23	471.24	72.96	4.33
3NAC658-297	0.0419	33.3835	0.0667	33.6685	0.0115	4.8677	0.1306	73.94	3.58	65.53	21.37	0.00	804.69	73.94	3.58
3NAC658-264	0.1065	85.5491	0.1708	85.7210	0.0116	5.3554	0.0633	74.46	3.96	160.10	127.63	1740.61	1568.16	74.46	3.96
3NAC658-335	0.0491	24.8573	0.0789	25.5332	0.0116	5.9266	0.2286	74.62	4.40	77.13	18.97	153.28	582.22	74.62	4.40
3NAC658-077	0.0470	11.1159	0.0758	13.0274	0.0117	6.8956	0.5215	75.00	5.14	74.22	9.32	47.70	265.53	75.00	5.14
3NAC658-234	0.0382	46.6928	0.0617	48.4768	0.0117	13.1492	0.2688	75.00	9.80	60.75	28.59	0.00	1125.51	75.00	9.80
3NAC658-263	0.0534	15.5424	0.0865	19.9119	0.0117	12.4161	0.6251	75.24	9.29	84.24	16.10	345.42	351.60	75.24	9.29
3NAC658-054	0.0473	9.5049	0.0773	13.2542	0.0119	9.3747	0.6970	75.94	7.08	75.59	9.66	62.63	226.41	75.94	7.08
3NAC658-072	0.0561	10.4065	0.0923	13.3515	0.0119	8.4585	0.6265	76.39	6.42	89.65	11.46	457.31	230.81	76.39	6.42
3NAC658-183	0.0538	111.0227	0.0919	111.7075	0.0124	12.9057	0.1107	79.30	10.17	89.25	95.73	362.17	2504.04	79.30	10.17
3NAC658-117	0.0524	8.5608	0.0913	9.9320	0.0126	5.1295	0.5071	80.95	4.13	88.75	8.44	302.19	195.13	80.95	4.13
3NAC658-171	0.0518	13.1400	0.0908	16.1172	0.0127	9.5539	0.5792	81.27	7.72	88.23	13.62	278.77	300.78	81.27	7.72
3NAC658-226	0.0566	23.0335	0.0994	23.6353	0.0127	5.6009	0.2246	81.42	4.53	96.19	21.69	477.63	509.06	81.42	4.53
3NAC658-200	0.0520	8.2597	0.0927	9.7418	0.0129	4.6962	0.5326	82.74	3.86	90.00	8.39	284.87	188.86	82.74	3.86
3NAC658-349	0.0606	11.2137	0.1089	13.6103	0.0130	7.8348	0.5668	83.47	6.50	104.98	13.58	623.66	241.80	83.47	6.50
3NAC658-180	0.0455	23.6710	0.0841	24.2238	0.0134	6.3636	0.2172	85.69	5.42	82.00	19.08	0.00	570.58	85.69	5.42
3NAC658-332	0.0525	6.9764	0.0981	7.7741	0.0135	3.5810	0.4417	86.67	3.08	95.06	7.05	308.93	158.82	86.67	3.08
3NAC658-289	0.0531	9.8353	0.0997	12.2105	0.0136	7.4934	0.5930	87.17	6.49	96.55	11.25	332.85	222.99	87.17	6.49
3NAC658-269	0.0649	10.7895	0.1221	11.5962	0.0136	4.0659	0.3668	87.26	3.52	116.95	12.81	771.29	227.10	87.26	3.52
3NAC658-209	0.0492	6.5393	0.0938	8.7773	0.0138	5.3020	0.6703	88.40	4.66	91.03	7.64	158.28	153.02	88.40	4.66
3NAC658-166	0.0489	7.4546	0.0934	8.5446	0.0138	4.3261	0.4890	88.57	3.81	90.65	7.41	143.75	174.91	88.57	3.81
3NAC658-270	0.0492	5.1458	0.0940	6.1575	0.0138	3.3691	0.5492	88.61	2.96	91.18	5.37	156.80	120.45	88.61	2.96
3NAC658-110	0.0774	64.9684	0.1493	65.1491	0.0140	4.9308	0.0744	89.47	4.38	141.31	86.15	1132.20	1293.47	89.47	4.38
3NAC658-231	0.0515	8.6345	0.1072	10.3340	0.0151	5.9460	0.5500	96.50	5.70	103.40	10.16	263.15	198.21	96.50	5.70
3NAC658-279	0.0464	15.6430	0.0970	17.5101	0.0151	7.9160	0.4493	96.88	7.61	94.02	15.73	19.89	375.64	96.88	7.61
3NAC658-152	0.0650	16.3304	0.1402	18.1590	0.0156	7.6681	0.4376	99.99	7.61	133.22	22.67	773.95	343.58	99.99	7.61
3NAC658-030	0.0530	14.1493	0.1185	15.9782	0.0162	7.2635	0.4647	103.64	7.47	113.67	17.18	327.16	321.13	103.64	7.47
3NAC658-015	0.0648	10.7983	0.1453	12.6705	0.0162	6.0020	0.5257	103.89	6.19	137.79	16.33	768.28	227.40	103.89	6.19
3NAC658-042	0.0685	27.0952	0.1649	27.6841	0.0174	6.1044	0.2057	111.49	6.75	155.02	39.82	884.25	560.29	111.49	6.75
3NAC658-050	0.0506	7.8483	0.1442	8.6801	0.0206	4.0379	0.4287	131.67	5.26	136.76	11.11	224.12	181.45	131.67	5.26
3NAC658-189	0.0603	14.4403	0.1749	15.5639	0.0210	6.9581	0.3792	134.07	9.23	163.64	23.53	614.13	311.87	134.07	9.23
3NAC658-257	0.0530	13.2779	0.1555	14.0549	0.0212	4.4704	0.3280	135.53	6.00	146.74	19.21	329.85	301.21	135.53	6.00
3NAC658-142	0.0403	30.3055	0.1252	30.8686	0.0225	5.6431	0.1903	143.50	8.01	119.75	34.88	0.00	730.50	143.50	8.01
3NAC658-027	0.0606	7.4712	0.1942	9.5262	0.0232	5.5608	0.6216	147.96	8.13	180.25	15.73	625.83	161.04	147.96	8.13
3NAC658-118	0.0499	28.1598	0.1601	28.6015	0.0233	5.1016	0.1751	148.27	7.48	150.80	40.10	189.11	655.22	148.27	7.48
3NAC658-073	0.0518	6.8231	0.1696	7.5558	0.0237	3.4808	0.4306	151.26	5.20	159.04	11.12	274.89	156.29	151.26	5.20
3NAC658-131	0.0634	10.4505	0.2090	11.8515	0.0239	5.6208	0.4716	152.33	8.46	192.73	20.81	720.01	221.79	152.33	8.46

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3NAC658, LATE EOCENE, MUÑANI FORMATION, LATITUDE: -15.973760, LONGITUDE: -69.665170 ACCEPTED															
3NAC658-040	0.0499	6.8004	0.1662	8.1778	0.0241	5.0630	0.5587	153.68	7.69	156.11	11.83	191.10	158.17	153.68	7.69
3NAC658-179	0.0483	11.8229	0.1620	13.8848	0.0243	7.8805	0.5260	154.85	12.06	152.45	19.66	113.01	278.99	154.85	12.06
3NAC658-249	0.0507	14.3921	0.1708	15.4649	0.0244	5.5361	0.3661	155.35	8.50	160.11	22.91	229.10	332.43	155.35	8.50
3NAC658-162	0.0518	8.6744	0.2032	11.9104	0.0284	8.1709	0.6852	180.73	14.56	187.87	20.43	276.60	198.64	180.73	14.56
3NAC658-144	0.0524	15.6805	0.2121	16.9321	0.0293	6.1821	0.3775	186.23	11.35	195.33	30.10	304.84	357.24	186.23	11.35
3NAC658-321	0.0567	14.1067	0.2417	17.7646	0.0309	10.7840	0.6078	196.13	20.83	219.82	35.13	479.77	311.73	196.13	20.83
3NAC658-275	0.0729	15.0748	0.3303	16.1215	0.0328	5.7809	0.3545	208.33	11.85	289.78	40.66	1010.36	305.71	208.33	11.85
3NAC658-130	0.0581	10.7106	0.2914	14.5726	0.0364	9.8992	0.6781	230.27	22.39	259.64	33.40	532.27	234.55	230.27	22.39
3NAC658-285	0.0576	5.8950	0.3058	6.8412	0.0385	3.9796	0.5122	243.31	9.50	270.89	16.27	514.72	129.48	243.31	9.50
3NAC658-207	0.0550	14.5739	0.2961	15.7239	0.0390	5.3550	0.3772	246.48	12.95	263.32	36.49	413.83	325.71	246.48	12.95
3NAC658-218	0.0510	10.4727	0.2792	14.4487	0.0397	10.0173	0.6889	250.89	24.65	250.03	32.03	239.77	241.43	250.89	24.65
3NAC658-244	0.0510	5.1758	0.2801	7.1310	0.0398	4.7621	0.6882	251.77	11.76	250.76	15.85	239.19	119.33	251.77	11.76
3NAC658-220	0.0513	10.1704	0.2836	12.8615	0.0401	7.8505	0.6121	253.34	19.50	253.54	28.86	253.18	233.89	253.34	19.50
3NAC658-084	0.0516	7.9080	0.2858	10.8184	0.0402	7.4381	0.6824	253.92	18.52	255.25	24.42	265.81	181.44	253.92	18.52
3NAC658-082	0.0527	8.9185	0.2927	12.5352	0.0403	8.8553	0.7027	254.41	22.09	260.71	28.83	316.16	202.77	254.41	22.09
3NAC658-111	0.0526	7.3182	0.2929	8.8169	0.0403	4.9982	0.5578	254.92	12.49	260.81	20.28	312.41	166.50	254.92	12.49
3NAC658-056	0.0679	7.4020	0.3892	10.8068	0.0415	8.0343	0.7287	262.34	20.65	333.76	30.75	865.60	153.50	262.34	20.65
3NAC658-049	0.0527	6.1894	0.3023	7.7346	0.0415	5.5589	0.6096	262.40	14.29	268.19	18.23	317.27	140.69	262.40	14.29
3NAC658-090	0.0524	11.1912	0.3058	13.7761	0.0423	8.2011	0.5833	267.10	21.46	270.88	32.77	302.12	255.09	267.10	21.46
3NAC658-287	0.0541	4.8584	0.3181	5.3487	0.0426	2.9649	0.4350	269.20	7.82	280.46	13.11	373.58	109.35	269.20	7.82
3NAC658-089	0.0687	7.1434	0.4047	9.0455	0.0427	5.7953	0.6140	269.41	15.29	345.04	26.47	890.48	147.57	269.41	15.29
3NAC658-238	0.0586	11.1171	0.3583	11.7277	0.0443	4.0189	0.3193	279.40	10.99	310.95	31.42	552.71	242.60	279.40	10.99
3NAC658-017	0.0492	6.5584	0.3008	8.5487	0.0443	4.7068	0.6489	279.62	12.88	267.05	20.08	155.80	153.54	279.62	12.88
3NAC658-338	0.0515	18.2444	0.3166	19.1884	0.0445	6.0336	0.3098	280.79	16.58	279.26	46.88	264.43	418.70	280.79	16.58
3NAC658-241	0.0530	9.9182	0.3263	10.7344	0.0446	4.2261	0.3826	281.21	11.63	286.73	26.82	329.86	224.99	281.21	11.63
3NAC658-184	0.0511	13.6170	0.3180	18.9799	0.0451	13.7666	0.6972	284.54	38.32	280.37	46.53	243.60	313.70	284.54	38.32
3NAC658-248	0.0587	13.4712	0.3680	15.1287	0.0454	6.7839	0.4552	286.39	19.00	318.17	41.35	555.92	293.81	286.39	19.00
3NAC658-098	0.0527	6.4922	0.3412	9.4107	0.0469	6.9140	0.7240	295.32	19.96	298.06	24.31	317.98	147.56	295.32	19.96
3NAC658-211	0.0534	4.9391	0.3550	6.7484	0.0481	4.3272	0.6827	303.08	12.81	308.51	17.96	347.62	111.69	303.08	12.81
3NAC658-075	0.0618	16.8886	0.4420	20.7013	0.0518	12.0299	0.5783	325.73	38.21	371.68	64.52	667.61	361.52	325.73	38.21
3NAC658-190	0.0613	17.3853	0.4395	19.5952	0.0519	9.3443	0.4616	326.40	29.74	369.90	60.82	650.33	373.22	326.40	29.74
3NAC658-007	0.0546	5.5868	0.3996	10.2358	0.0530	8.4889	0.8380	332.72	27.53	341.33	29.68	397.85	125.21	332.72	27.53
3NAC658-002	0.0622	13.4028	0.5287	19.8808	0.0616	14.6326	0.7386	385.37	54.74	430.94	69.92	679.96	286.32	385.37	54.74
3NAC658-261	0.0584	4.7009	0.4985	6.0287	0.0619	3.6729	0.6263	387.02	13.80	410.67	20.37	543.90	102.74	387.02	13.80
3NAC658-147	0.0553	8.9683	0.4924	13.0206	0.0645	9.2082	0.7252	403.17	35.99	406.54	43.65	423.82	200.08	403.17	35.99
3NAC658-070	0.0604	8.3511	0.5655	12.3297	0.0678	9.1577	0.7357	423.11	37.50	455.07	45.25	618.33	180.23	423.11	37.50
3NAC658-068	0.0596	7.3530	0.5727	10.1338	0.0697	7.2685	0.6887	434.16	30.52	459.76	37.49	588.19	159.50	434.16	30.52
3NAC658-022	0.0702	5.8021	0.6757	10.5691	0.0697	8.6043	0.8361	434.38	36.14	524.19	43.30	935.37	119.02	434.38	36.14
3NAC658-003	0.0622	3.9220	0.6115	5.8640	0.0713	4.1842	0.7441	443.84	17.95	484.52	22.60	679.35	83.79	443.84	17.95
3NAC658-001	0.0595	4.5919	0.5943	5.9188	0.0723	3.5283	0.6320	450.11	15.34	473.63	22.41	586.65	99.63	450.11	15.34
3NAC658-333	0.0609	6.3682	0.6104	9.0660	0.0727	6.5342	0.7118	452.28	28.54	483.79	34.90	634.06	137.08	452.28	28.54
3NAC658-193	0.0594	5.5106	0.6021	6.4734	0.0735	4.1388	0.5350	457.26	18.27	478.60	24.71	580.13	119.70	457.26	18.27
3NAC658-159	0.0559	5.4321	0.5707	7.8439	0.0740	5.1981	0.7240	460.24	23.09	458.48	28.95	447.73	120.68	460.24	23.09
3NAC658-312	0.0604	5.9456	0.6216	8.4542	0.0746	6.2814	0.7116	463.92	28.12	490.84	32.92	616.72	128.35	463.92	28.12
3NAC658-325	0.0572	3.8015	0.5976	5.1464	0.0758	3.6180	0.6747	470.78	16.43	475.69	19.55	497.52	83.75	470.78	16.43
3NAC658-224	0.0561	4.6981	0.5933	5.7609	0.0767	3.7948	0.5836	476.18	17.42	472.94	21.78	455.15	104.24	476.18	17.42
3NAC658-123	0.0579	4.0728	0.6202	5.5774	0.0776	3.8910	0.6834	481.84	18.06	489.98	21.68	526.58	89.28	481.84	18.06
3NAC658-139	0.0608	5.3019	0.6658	7.2932	0.0794	5.0217	0.6867	492.63	23.82	518.16	29.61	630.61	114.19	492.63	23.82
3NAC658-323	0.0579	4.9373	0.6347	7.2340	0.0795	5.2599	0.7309	493.00	24.96	499.01	28.53	524.78	108.26	493.00	24.96
3NAC658-026	0.0563	8.3069	0.6191	11.9704	0.0797	8.3832	0.7203	494.45	39.90	489.29	46.51	463.10	184.05	494.45	39.90

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3NAC658, LATE EOCENE, MUÑANI FORMATION, LATITUDE: -15.973760, LONGITUDE: -69.665170 ACCEPTED															
3NAC658-009	0.0579	2.5996	0.6396	4.4352	0.0800	3.3786	0.8118	496.02	16.13	502.06	17.57	527.25	56.98	496.02	16.13
3NAC658-158	0.0607	6.3142	0.6760	9.1629	0.0807	6.2522	0.7260	500.45	30.11	524.37	37.54	628.03	136.05	500.45	30.11
3NAC658-133	0.0600	6.2265	0.6717	9.3438	0.0811	6.9919	0.7456	502.92	33.83	521.76	38.14	603.38	134.72	502.92	33.83
3NAC658-282	0.0577	4.3018	0.6530	5.4491	0.0821	3.6707	0.6165	508.36	17.94	510.32	21.86	517.25	94.45	508.36	17.94
3NAC658-337	0.0575	8.0385	0.6542	11.6582	0.0824	8.5066	0.7243	510.71	41.77	511.07	46.85	510.75	176.68	510.71	41.77
3NAC658-185	0.0647	4.6668	0.7395	5.0380	0.0828	4.2787	0.5082	512.82	21.09	562.11	21.75	765.02	98.33	512.82	21.09
3NAC658-008	0.0593	3.4431	0.6798	5.3219	0.0830	3.8690	0.7634	514.20	19.12	526.63	21.87	578.44	74.81	514.20	19.12
3NAC658-295	0.0753	14.3601	0.8637	19.2551	0.0831	13.0051	0.6663	514.83	64.35	632.16	90.85	1076.16	288.29	514.83	64.35
3NAC658-254	0.0582	5.9575	0.6743	8.4517	0.0839	5.8895	0.7094	519.58	29.40	523.30	34.57	537.59	130.34	519.58	29.40
3NAC658-251	0.0642	3.1295	0.7435	5.1424	0.0839	3.8204	0.7952	519.63	19.07	564.44	22.27	747.45	66.12	519.63	19.07
3NAC658-345	0.0586	9.8211	0.6792	13.7562	0.0840	9.7298	0.7002	519.97	48.61	526.27	56.55	551.72	214.36	519.97	48.61
3NAC658-020	0.0586	3.2672	0.6791	4.8643	0.0840	2.9965	0.7535	520.08	14.97	526.23	19.98	550.83	71.32	520.08	14.97
3NAC658-036	0.0578	8.6328	0.6765	12.3218	0.0849	8.7962	0.7135	525.02	44.35	524.66	50.53	521.16	189.41	525.02	44.35
3NAC658-266	0.0585	3.1148	0.6941	4.2589	0.0859	2.6286	0.6854	531.30	13.41	535.25	17.72	550.17	68.00	531.30	13.41
3NAC658-127	0.0589	10.0387	0.6980	13.9397	0.0859	9.6823	0.6938	531.43	49.39	537.61	58.25	562.25	218.71	531.43	49.39
3NAC658-012	0.0569	10.1703	0.6820	14.5811	0.0869	10.3767	0.7166	537.25	53.49	528.01	60.10	485.82	224.50	537.25	53.49
3NAC658-201	0.0592	9.1640	0.7113	13.2419	0.0871	9.3135	0.7221	538.19	48.09	545.54	55.94	574.28	199.25	538.19	48.09
3NAC658-268	0.0571	8.0035	0.6861	11.5826	0.0871	8.2810	0.7229	538.37	42.77	530.43	47.89	494.51	176.41	538.37	42.77
3NAC658-343	0.0616	12.5875	0.7417	17.5670	0.0873	12.2971	0.6975	539.28	63.62	563.42	76.10	660.15	269.78	539.28	63.62
3NAC658-134	0.0619	3.2921	0.7502	4.6290	0.0879	3.2751	0.7030	542.88	17.05	568.33	20.15	669.82	70.44	542.88	17.05
3NAC658-119	0.0625	6.7100	0.7628	8.5828	0.0884	5.4402	0.6236	546.08	28.48	575.65	37.73	692.59	143.05	546.08	28.48
3NAC658-327	0.0722	5.4123	0.8859	7.0495	0.0889	4.6323	0.6409	548.84	24.37	644.16	33.64	992.60	110.05	548.84	24.37
3NAC658-055	0.0579	3.6874	0.7122	5.3296	0.0891	4.1668	0.7243	550.28	21.98	546.06	22.51	526.83	80.83	550.28	21.98
3NAC658-155	0.0643	4.4228	0.7970	6.6265	0.0899	4.3989	0.7496	554.87	23.39	595.14	29.85	749.94	93.41	554.87	23.39
3NAC658-115	0.0596	4.2976	0.7404	5.9724	0.0900	4.2609	0.6947	555.31	22.67	562.64	25.80	590.79	93.18	555.31	22.67
3NAC658-047	0.0586	4.0728	0.7279	5.2665	0.0900	4.5314	0.6638	555.36	24.11	555.33	22.53	553.43	88.87	555.36	24.11
3NAC658-326	0.0607	7.5706	0.7567	10.8641	0.0904	7.8595	0.7173	557.66	41.99	572.09	47.55	627.98	163.12	557.66	41.99
3NAC658-309	0.0624	8.0229	0.7821	8.8784	0.0908	4.4635	0.4338	560.50	23.96	586.71	39.59	687.68	171.17	560.50	23.96
3NAC658-136	0.0609	7.3848	0.7639	9.8779	0.0909	6.5707	0.6641	560.89	35.30	576.23	43.46	635.48	158.92	560.89	35.30
3NAC658-255	0.0598	3.3916	0.7569	5.0240	0.0917	3.5333	0.7386	565.87	19.14	572.20	21.98	595.46	73.48	565.87	19.14
3NAC658-236	0.0580	7.1678	0.7441	9.8871	0.0930	6.9698	0.6890	573.47	38.24	564.81	42.86	528.01	157.08	573.47	38.24
3NAC658-016	0.0610	9.3436	0.7833	13.5480	0.0931	9.3985	0.7248	573.73	51.59	587.37	60.50	638.21	200.99	573.73	51.59
3NAC658-223	0.0620	4.3386	0.7989	5.5738	0.0934	3.4488	0.6279	575.85	19.00	596.22	25.14	672.41	92.80	575.85	19.00
3NAC658-252	0.0568	5.5926	0.7338	7.7526	0.0937	5.1739	0.6930	577.32	28.57	558.76	33.33	481.84	123.54	577.32	28.57
3NAC658-204	0.0604	5.3721	0.7844	8.1171	0.0941	5.6922	0.7513	579.78	31.56	588.02	36.25	617.87	115.95	579.78	31.56
3NAC658-097	0.0632	8.2568	0.8225	9.9134	0.0944	5.6118	0.5536	581.46	31.20	609.43	45.46	713.31	175.43	581.46	31.20
3NAC658-328	0.0577	6.5096	0.7532	8.8823	0.0946	6.1299	0.6804	582.59	34.15	570.08	38.77	518.59	142.89	582.59	34.15
3NAC658-046	0.0589	13.3835	0.7737	18.1102	0.0952	12.5796	0.6740	586.11	70.48	581.87	80.38	563.59	291.52	586.11	70.48
3NAC658-126	0.0616	13.9831	0.8138	20.2889	0.0957	14.7077	0.7246	588.99	82.79	604.57	92.69	661.77	299.61	588.99	82.79
3NAC658-302	0.0702	5.1163	0.9314	6.4421	0.0962	4.3459	0.6110	591.87	24.58	668.35	31.55	933.80	104.97	591.87	24.58
3NAC658-157	0.0639	4.4002	0.8518	6.5415	0.0966	4.2930	0.7453	594.38	24.38	625.61	30.56	738.40	93.11	594.38	24.38
3NAC658-202	0.0597	4.7988	0.7978	6.9388	0.0968	4.5268	0.7260	595.58	25.75	595.60	31.28	593.59	104.00	595.58	25.75
3NAC658-322	0.0738	5.9960	0.9862	8.1323	0.0968	5.4676	0.6756	595.72	31.11	696.80	41.02	1036.51	121.10	595.72	31.11
3NAC658-243	0.0607	6.7981	0.8112	9.4571	0.0968	6.6502	0.6952	595.75	37.84	603.11	43.03	628.87	146.46	595.75	37.84
3NAC658-103	0.0614	6.6163	0.8205	8.5795	0.0969	5.5333	0.6367	596.00	31.50	608.31	39.28	652.90	141.97	596.00	31.50
3NAC658-232	0.0603	8.3177	0.8222	11.8880	0.0988	8.6753	0.7146	607.54	50.30	609.28	54.52	613.70	179.65	607.54	50.30
3NAC658-033	0.0598	4.4791	0.8177	5.9005	0.0991	3.5232	0.6534	609.07	20.48	606.79	26.96	596.35	97.02	609.07	20.48
3NAC658-344	0.0612	4.5316	0.8407	5.9797	0.0995	4.1367	0.6536	611.46	24.13	619.54	27.74	647.21	97.33	611.46	24.13
3NAC658-276	0.0642	4.7198	0.9040	6.2049	0.1020	4.1217	0.6493	626.41	24.60	653.85	29.92	747.90	99.72	626.41	24.60
3NAC658-283	0.0617	14.6207	0.8806	20.7446	0.1034	14.7939	0.7094	634.06	89.34	641.28	98.94	664.99	313.11	634.06	89.34

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3NAC658, LATE EOCENE, MUÑANI FORMATION, LATITUDE: -15.973760, LONGITUDE: -69.665170 ACCEPTED															
3NAC658-099	0.0606	11.4426	0.8647	15.8713	0.1035	11.0615	0.6930	634.61	66.86	632.70	74.87	624.35	246.71	634.61	66.86
3NAC658-229	0.0597	3.4837	0.8561	4.7035	0.1039	3.6429	0.6787	637.14	22.10	628.01	22.03	593.19	75.50	637.14	22.10
3NAC658-213	0.0621	6.8395	0.9004	10.0741	0.1051	7.2310	0.7344	644.25	44.33	651.95	48.50	676.61	146.19	644.25	44.33
3NAC658-228	0.0620	4.6381	0.9082	6.2141	0.1062	4.5152	0.6681	650.66	27.94	656.12	30.04	672.88	99.20	650.66	27.94
3NAC658-051	0.0618	3.5584	0.9106	4.6279	0.1068	3.3631	0.6446	654.21	20.92	657.39	22.40	666.63	76.18	654.21	20.92
3NAC658-076	0.0609	6.9107	0.9016	9.7935	0.1072	7.0395	0.7086	656.54	43.94	652.56	47.18	637.27	148.68	656.54	43.94
3NAC658-105	0.0632	5.7549	0.9362	6.9910	0.1074	4.1124	0.5681	657.49	25.71	670.89	34.34	714.61	122.24	657.49	25.71
3NAC658-092	0.0633	4.4173	0.9414	7.3526	0.1078	6.1050	0.8000	659.72	38.28	673.64	36.22	718.96	93.77	659.72	38.28
3NAC658-028	0.0647	8.4578	0.9924	13.3977	0.1112	10.1959	0.7757	679.83	65.79	699.96	67.86	763.14	178.26	679.83	65.79
3NAC658-109	0.0678	6.7143	1.0823	10.0885	0.1156	7.6061	0.7464	705.28	50.82	744.75	53.29	863.77	139.28	705.28	50.82
3NAC658-319	0.0652	6.8009	1.0574	9.3239	0.1176	6.1888	0.6844	716.55	41.97	732.57	48.70	780.09	142.95	716.55	41.97
3NAC658-196	0.0646	9.1910	1.1202	14.5912	0.1257	11.2732	0.7767	763.36	81.16	763.06	78.43	760.15	193.80	763.36	81.16
3NAC658-292	0.0687	5.5434	1.2086	7.3514	0.1276	5.0926	0.6577	774.02	37.14	804.54	40.87	888.26	114.56	774.02	37.14
3NAC658-021	0.0670	4.6430	1.1921	6.9277	0.1289	4.7359	0.7447	781.74	34.87	796.92	38.27	837.53	96.71	781.74	34.87
3NAC658-178	0.0694	5.1091	1.2460	7.0415	0.1301	5.7073	0.6974	788.64	42.37	821.59	39.68	909.97	105.23	788.64	42.37
3NAC658-167	0.0685	9.6414	1.2464	13.2210	0.1319	9.1167	0.6843	798.76	68.49	821.79	74.62	882.80	199.41	798.76	68.49
3NAC658-067	0.0690	4.0994	1.4915	5.8752	0.1568	4.6814	0.7204	938.75	40.90	926.91	35.73	897.36	84.60	897.36	84.60
3NAC658-347	0.0692	5.9964	1.3299	8.0223	0.1393	5.5037	0.6646	840.60	43.38	858.83	46.53	904.25	123.62	904.25	123.62
3NAC658-246	0.0698	8.7453	1.5379	12.1644	0.1596	8.3731	0.6951	954.45	74.29	945.65	74.98	923.32	179.72	923.32	179.72
3NAC658-080	0.0704	8.8640	1.4902	10.3254	0.1534	5.3730	0.5129	920.06	46.07	926.42	62.82	940.13	181.69	940.13	181.69
3NAC658-265	0.0704	4.0207	1.3179	5.8462	0.1356	4.0603	0.7267	819.54	31.25	853.61	33.76	941.40	82.40	941.40	82.40
3NAC658-025	0.0715	3.8261	1.6009	5.7146	0.1622	3.7430	0.7487	968.89	33.67	970.56	35.73	972.38	78.05	972.38	78.05
3NAC658-091	0.0716	9.4901	1.4787	13.4199	0.1497	9.6308	0.7071	899.37	80.85	921.69	81.46	974.07	193.54	974.07	193.54
3NAC658-217	0.0720	5.5644	1.5828	8.4234	0.1593	6.4228	0.7508	952.76	56.89	963.45	52.46	985.98	113.25	985.98	113.25
3NAC658-212	0.0723	3.5313	1.6459	5.3950	0.1650	3.7702	0.7584	984.25	34.41	987.99	34.09	994.34	71.78	994.34	71.78
3NAC658-350	0.0725	3.7766	1.6313	5.6262	0.1630	4.3912	0.7422	973.35	39.67	982.37	35.43	1000.66	76.70	1000.66	76.70
3NAC658-086	0.0727	4.0828	1.6555	5.6325	0.1651	4.2247	0.6914	985.05	38.59	991.67	35.67	1004.90	82.86	1004.90	82.86
3NAC658-300	0.0729	11.3321	1.6329	12.2673	0.1623	5.0631	0.3840	969.51	45.58	982.98	77.40	1011.47	229.77	1011.47	229.77
3NAC658-288	0.0729	8.6702	1.7117	12.0646	0.1701	8.6121	0.6956	1012.56	80.70	1012.91	77.48	1011.96	175.78	1011.96	175.78
3NAC658-006	0.0729	4.0976	1.5622	6.6210	0.1552	5.0546	0.7858	929.82	43.77	955.34	41.01	1012.25	83.07	1012.25	83.07
3NAC658-237	0.0730	8.3841	1.6288	11.9669	0.1617	8.6668	0.7136	966.15	77.77	981.39	75.43	1013.73	169.94	1013.73	169.94
3NAC658-214	0.0730	4.6349	1.7496	5.8589	0.1736	3.7558	0.6124	1032.08	35.82	1027.01	37.87	1014.29	93.94	1014.29	93.94
3NAC658-296	0.0733	4.3859	1.7286	5.6932	0.1710	4.2144	0.6447	1017.61	39.67	1019.24	36.64	1021.07	88.80	1021.07	88.80
3NAC658-141	0.0733	3.0973	1.6714	4.6343	0.1652	3.0466	0.7495	985.88	27.85	997.72	29.45	1022.16	62.70	1022.16	62.70
3NAC658-031	0.0734	4.6610	1.7974	6.8610	0.1774	4.7966	0.7347	1052.92	46.60	1044.53	44.79	1025.18	94.32	1025.18	94.32
3NAC658-221	0.0734	4.8340	1.7050	7.5201	0.1682	5.7302	0.7660	1002.43	53.20	1010.39	48.17	1025.76	97.81	1025.76	97.81
3NAC658-165	0.0735	4.3487	1.7483	6.0677	0.1723	4.3797	0.6978	1024.87	41.50	1026.54	39.21	1028.30	87.96	1028.30	87.96
3NAC658-195	0.0735	6.3442	1.6176	9.4016	0.1594	6.8410	0.7381	953.59	60.64	977.08	59.06	1028.33	128.32	1028.33	128.32
3NAC658-113	0.0739	6.3564	1.5411	10.1099	0.1512	7.9124	0.7776	907.85	67.01	946.96	62.34	1037.54	128.36	1037.54	128.36
3NAC658-320	0.0739	5.3888	1.7875	8.0211	0.1752	5.8075	0.7409	1040.90	55.82	1040.92	52.27	1039.24	108.79	1039.24	108.79
3NAC658-173	0.0740	4.1649	1.7771	5.5477	0.1740	4.1956	0.6666	1034.17	40.09	1037.14	36.06	1041.55	84.05	1041.55	84.05
3NAC658-330	0.0741	4.3286	1.8403	6.2710	0.1800	4.6524	0.7238	1067.06	45.75	1059.97	41.28	1043.65	87.33	1043.65	87.33
3NAC658-094	0.0741	3.8146	1.6036	5.2950	0.1568	3.8571	0.6944	938.99	33.70	971.62	33.13	1044.73	76.94	1044.73	76.94
3NAC658-062	0.0742	4.5202	1.8313	6.5246	0.1789	5.0876	0.7233	1060.73	49.76	1056.73	42.88	1046.99	91.15	1046.99	91.15
3NAC658-284	0.0744	3.5803	1.7558	4.1671	0.1711	2.8866	0.5353	1017.95	27.18	1029.30	26.96	1051.81	72.14	1051.81	72.14
3NAC658-210	0.0745	6.3584	1.7864	9.6946	0.1737	7.1508	0.7551	1032.46	68.22	1040.53	63.19	1055.59	128.05	1055.59	128.05
3NAC658-125	0.0745	3.8594	1.6056	5.5893	0.1561	4.0683	0.7233	935.04	35.41	972.38	34.99	1056.20	77.71	1056.20	77.71
3NAC658-258	0.0746	6.5254	1.8906	9.4720	0.1837	6.7738	0.7249	1087.22	67.77	1077.79	62.99	1056.97	131.38	1056.97	131.38
3NAC658-064	0.0747	6.9496	1.7901	10.1458	0.1736	7.6709	0.7291	1031.76	73.14	1041.87	66.19	1061.64	139.82	1061.64	139.82
3NAC658-037	0.0748	5.3947	1.7799	6.9833	0.1723	4.4425	0.6350	1025.04	42.10	1038.14	45.43	1064.09	108.50	1064.09	108.50

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3NAC658, LATE EOCENE, MUÑANI FORMATION, LATITUDE: -15.973760, LONGITUDE: -69.665170 ACCEPTED															
3NAC658-274	0.0760	3.7098	1.8543	5.3783	0.1769	3.9908	0.7242	1050.08	38.67	1064.94	35.49	1093.81	74.28	1093.81	74.28
3NAC658-324	0.0760	9.7862	1.9658	14.2067	0.1875	10.2846	0.7249	1107.98	104.71	1103.87	95.90	1094.06	195.94	1094.06	195.94
3NAC658-303	0.0763	5.3587	1.9064	7.1657	0.1810	5.1181	0.6657	1072.70	50.58	1083.31	47.76	1103.04	107.15	1103.04	107.15
3NAC658-314	0.0766	3.5127	1.7304	8.1633	0.1638	7.2054	0.9029	977.61	65.36	1019.89	52.58	1110.09	70.16	1110.09	70.16
3NAC658-278	0.0766	7.3755	1.8808	10.5262	0.1779	7.5608	0.7135	1055.71	73.63	1074.34	69.89	1110.63	147.31	1110.63	147.31
3NAC658-290	0.0766	10.1020	1.7908	14.8850	0.1693	11.0514	0.7345	1008.34	103.17	1042.13	97.28	1112.00	201.73	1112.00	201.73
3NAC658-154	0.0768	12.1475	1.8537	16.5307	0.1748	10.9864	0.6784	1038.51	105.39	1064.76	109.45	1117.23	242.38	1117.23	242.38
3NAC658-311	0.0771	7.2202	1.8820	10.5825	0.1770	7.9493	0.7314	1050.58	77.07	1074.77	70.28	1122.49	143.95	1122.49	143.95
3NAC658-164	0.0771	7.1606	1.7045	9.5723	0.1602	6.4522	0.6637	958.12	57.45	1010.23	61.33	1123.27	142.75	1123.27	142.75
3NAC658-137	0.0772	11.9748	1.7186	16.4362	0.1613	11.2645	0.6850	964.05	100.87	1015.49	105.88	1126.54	238.61	1126.54	238.61
3NAC658-267	0.0772	7.0586	2.0611	9.7944	0.1934	6.6768	0.6934	1139.72	69.75	1136.00	67.06	1127.14	140.64	1127.14	140.64
3NAC658-112	0.0777	5.7650	2.0753	8.4859	0.1937	6.2908	0.7338	1141.35	65.81	1140.68	58.21	1137.94	114.68	1137.94	114.68
3NAC658-294	0.0782	7.8601	2.0183	10.6582	0.1871	7.3782	0.6756	1105.49	74.96	1121.69	72.49	1151.53	156.04	1151.53	156.04
3NAC658-272	0.0783	12.7421	1.9863	17.5059	0.1838	12.0004	0.6857	1087.77	120.13	1110.87	118.77	1154.65	252.85	1154.65	252.85
3NAC658-093	0.0783	3.4481	1.9306	4.9406	0.1786	3.9041	0.7197	1059.55	38.15	1091.75	33.06	1155.16	68.42	1155.16	68.42
3NAC658-291	0.0785	5.1073	1.8236	6.2736	0.1684	3.9870	0.5831	1003.03	37.04	1054.00	41.16	1159.48	101.27	1159.48	101.27
3NAC658-175	0.0791	3.9379	2.0243	3.9395	0.1854	3.0177	0.3835	1096.37	30.43	1123.69	26.78	1175.09	77.91	1175.09	77.91
3NAC658-216	0.0791	5.3251	2.1268	7.2509	0.1947	5.0478	0.6789	1146.82	53.03	1157.54	50.12	1175.77	105.34	1175.77	105.34
3NAC658-057	0.0795	11.1459	2.1726	15.2980	0.1981	10.5996	0.6850	1165.30	113.01	1172.30	106.76	1183.74	220.23	1183.74	220.23
3NAC658-132	0.0795	4.7545	2.0115	6.9343	0.1834	5.0822	0.7280	1085.57	50.78	1119.39	47.06	1184.10	93.94	1184.10	93.94
3NAC658-160	0.0798	5.4325	2.2080	7.3661	0.2005	4.9899	0.6753	1177.81	53.72	1183.56	51.52	1192.38	107.21	1192.38	107.21
3NAC658-069	0.0800	3.7053	2.3215	5.3161	0.2104	4.3284	0.7229	1230.87	48.50	1218.89	37.75	1196.31	73.08	1196.31	73.08
3NAC658-197	0.0800	4.4255	2.2386	6.3920	0.2026	4.4643	0.7219	1189.46	48.49	1193.22	44.89	1198.15	87.26	1198.15	87.26
3NAC658-262	0.0801	2.7509	2.3082	4.0659	0.2089	2.8646	0.7371	1222.74	31.91	1214.80	28.81	1198.98	54.24	1198.98	54.24
3NAC658-066	0.0802	6.0870	2.3276	8.9604	0.2102	6.8877	0.7346	1229.91	77.13	1220.74	63.72	1203.13	119.94	1203.13	119.94
3NAC658-138	0.0806	5.0461	2.2473	6.9072	0.2020	4.7312	0.6829	1186.05	51.26	1195.93	48.57	1212.25	99.29	1212.25	99.29
3NAC658-341	0.0818	6.3660	2.3914	8.5899	0.2117	5.8589	0.6715	1237.90	65.99	1240.02	61.58	1241.91	124.73	1241.91	124.73
3NAC658-305	0.0824	9.6293	2.0188	14.0026	0.1775	10.4313	0.7263	1053.51	101.39	1121.85	95.36	1255.06	188.32	1255.06	188.32
3NAC658-174	0.0827	4.3613	2.1927	5.2264	0.1920	3.5309	0.5625	1132.47	36.67	1178.73	36.46	1262.88	85.20	1262.88	85.20
3NAC658-148	0.0829	5.1865	2.3946	7.6195	0.2094	5.1808	0.7346	1225.36	57.82	1240.98	54.63	1266.55	101.27	1266.55	101.27
3NAC658-286	0.0845	4.0728	2.1360	5.4486	0.1832	4.1092	0.6696	1084.36	41.01	1160.54	37.70	1304.03	79.10	1304.03	79.10
3NAC658-010	0.0854	3.5482	2.1358	7.2769	0.1811	6.2343	0.8732	1072.97	61.62	1160.47	50.37	1325.54	68.70	1325.54	68.70
3NAC658-043	0.0861	8.3845	2.7959	12.5221	0.2352	9.5660	0.7430	1361.81	117.44	1354.45	93.92	1341.26	161.99	1341.26	161.99
3NAC658-198	0.0874	3.9531	2.6610	5.7613	0.2207	4.0278	0.7280	1285.41	46.94	1317.70	42.55	1368.78	76.09	1368.78	76.09
3NAC658-038	0.0879	5.7446	2.9497	8.4722	0.2433	6.2329	0.7350	1403.69	78.62	1394.76	64.33	1379.48	110.40	1379.48	110.40
3NAC658-194	0.0890	5.5038	2.8490	8.3398	0.2320	6.1578	0.7514	1344.82	74.75	1368.54	62.76	1403.95	105.42	1403.95	105.42
3NAC658-156	0.0894	3.9876	2.9703	6.2406	0.2408	4.2478	0.7750	1390.65	53.14	1400.06	47.44	1412.79	76.29	1412.79	76.29
3NAC658-019	0.0894	2.8560	2.3945	5.4869	0.1940	3.7464	0.8753	1143.17	39.25	1240.96	39.32	1413.06	54.64	1413.06	54.64
3NAC658-280	0.0895	4.8296	3.0136	6.6554	0.2439	4.8225	0.6890	1406.78	60.95	1411.06	50.78	1415.89	92.36	1415.89	92.36
3NAC658-235	0.0897	9.2560	2.8466	15.5111	0.2299	12.5348	0.8025	1334.23	151.10	1367.90	117.07	1419.08	176.93	1419.08	176.93
3NAC658-219	0.0903	11.1025	2.8100	13.2948	0.2255	7.3991	0.5501	1310.72	87.76	1358.22	99.88	1431.95	211.85	1431.95	211.85
3NAC658-342	0.0904	5.7364	2.7086	7.8560	0.2172	5.4659	0.6834	1267.18	62.88	1330.81	58.32	1432.97	109.44	1432.97	109.44
3NAC658-222	0.0906	5.3251	2.9041	6.2637	0.2324	3.2446	0.5266	1346.88	39.44	1382.99	47.34	1437.35	101.54	1437.35	101.54
3NAC658-083	0.0915	3.6603	3.0793	4.9289	0.2438	3.4237	0.6702	1406.58	43.27	1427.54	37.80	1457.59	69.60	1457.59	69.60
3NAC658-053	0.0926	3.0133	2.8735	5.2840	0.2249	4.6256	0.8231	1307.61	54.75	1375.00	39.82	1479.78	57.13	1479.78	57.13
3NAC658-153	0.0940	6.4301	2.8837	8.6074	0.2223	5.3360	0.6664	1294.26	62.57	1377.67	64.98	1507.79	121.46	1507.79	121.46
3NAC658-100	0.0940	6.5735	2.9987	9.9795	0.2312	7.5608	0.7524	1340.72	91.53	1407.28	76.13	1508.22	124.16	1508.22	124.16
3NAC658-301	0.0944	5.4332	3.4987	7.8808	0.2686	6.0125	0.7253	1533.71	82.07	1526.92	62.31	1515.96	102.52	1515.96	102.52
3NAC658-308	0.0945	4.9073	3.1154	7.2897	0.2389	5.8755	0.7422	1380.77	73.03	1436.50	56.09	1518.44	92.56	1518.44	92.56
3NAC658-079	0.0949	8.5354	3.4724	12.3503	0.2652	9.0042	0.7228	1516.63	121.70	1520.96	97.66	1525.66	160.84	1525.66	160.84

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3NAC658, LATE EOCENE, MUÑANI FORMATION, LATITUDE: -15.973760, LONGITUDE: -69.665170 ACCEPTED															
3NAC658-334	0.0952	5.9308	2.8691	9.8150	0.2183	7.8883	0.7968	1272.73	91.11	1373.84	74.03	1533.02	111.65	1533.02	111.65
3NAC658-191	0.0954	11.8271	3.1723	20.6979	0.2408	17.1498	0.8207	1390.97	214.65	1450.44	161.13	1536.92	222.55	1536.92	222.55
3NAC658-161	0.0956	2.9657	3.3963	4.1309	0.2574	2.9019	0.6961	1476.28	38.29	1503.55	32.41	1540.54	55.78	1540.54	55.78
3NAC658-250	0.0957	5.7803	3.3394	7.2387	0.2528	4.1147	0.6029	1452.66	53.52	1490.30	56.62	1542.55	108.68	1542.55	108.68
3NAC658-336	0.0983	5.0443	3.3147	7.0998	0.2444	5.1016	0.7039	1409.46	64.59	1484.53	55.44	1591.82	94.24	1591.82	94.24
3NAC658-041	0.0986	4.2569	3.6400	6.7307	0.2675	5.6732	0.7774	1528.03	77.18	1558.33	53.66	1598.06	79.47	1598.06	79.47
3NAC658-029	0.0998	3.5102	3.8755	5.6091	0.2815	3.8901	0.7854	1598.87	55.09	1608.60	45.30	1619.62	65.35	1619.62	65.35
3NAC658-107	0.1007	5.1428	3.7547	6.6800	0.2703	4.3966	0.6385	1542.37	60.31	1583.12	53.61	1636.49	95.53	1636.49	95.53
3NAC658-128	0.1013	3.4372	3.6497	4.7261	0.2611	3.2754	0.6864	1495.29	43.71	1560.44	37.68	1648.33	63.74	1648.33	63.74
3NAC658-215	0.1018	7.5535	3.8044	11.5784	0.2709	8.8467	0.7579	1545.23	121.57	1593.68	93.36	1656.58	139.92	1656.58	139.92
3NAC658-065	0.1030	2.7834	4.1984	4.0904	0.2954	3.6314	0.7463	1668.50	53.39	1673.72	33.56	1678.90	51.41	1678.90	51.41
3NAC658-058	0.1042	3.4215	4.3565	4.7554	0.3031	3.6691	0.6984	1706.52	55.01	1704.13	39.29	1699.79	63.04	1699.79	63.04
3NAC658-310	0.1050	7.8459	3.9191	11.7913	0.2705	8.9894	0.7467	1543.11	123.38	1617.64	95.67	1714.49	144.29	1714.49	144.29
3NAC658-299	0.1054	4.8006	4.4531	6.9831	0.3061	5.5048	0.7287	1721.24	83.16	1722.29	57.97	1722.02	88.20	1722.02	88.20
3NAC658-172	0.1054	5.4159	4.0953	7.6291	0.2814	5.7484	0.7059	1598.54	81.39	1653.38	62.34	1722.10	99.50	1722.10	99.50
3NAC658-074	0.1059	4.0330	4.6152	5.5789	0.3160	4.0322	0.6917	1769.92	62.41	1752.02	46.59	1729.41	74.03	1729.41	74.03
3NAC658-014	0.1059	3.6067	4.2551	5.9588	0.2910	3.8191	0.8148	1646.45	55.49	1684.72	49.03	1730.75	66.19	1730.75	66.19
3NAC658-260	0.1070	6.0825	4.5728	8.6016	0.3096	6.0194	0.7071	1738.57	91.73	1744.32	71.79	1749.58	111.37	1749.58	111.37
3NAC658-307	0.1072	3.4258	4.2204	5.8436	0.2853	5.2797	0.8150	1618.08	75.56	1677.99	48.00	1752.20	62.71	1752.20	62.71
3NAC658-163	0.1083	4.6648	3.8212	6.9624	0.2558	5.1833	0.7424	1468.20	68.06	1597.23	56.09	1770.29	85.20	1770.29	85.20
3NAC658-170	0.1089	4.0699	4.4027	5.4914	0.2929	4.2148	0.6774	1655.82	61.55	1712.84	45.47	1781.64	74.23	1781.64	74.23
3NAC658-259	0.1091	3.7995	4.4373	5.5362	0.2948	3.8679	0.7279	1665.26	56.77	1719.33	45.91	1784.18	69.28	1784.18	69.28
3NAC658-005	0.1092	9.1979	4.8710	13.4549	0.3232	9.7435	0.7299	1805.44	153.46	1797.25	113.82	1785.66	167.67	1785.66	167.67
3NAC658-106	0.1092	3.1933	4.5027	5.0276	0.2988	4.0294	0.7729	1685.41	59.76	1731.46	41.80	1786.27	58.21	1786.27	58.21
3NAC658-071	0.1094	5.3635	4.9324	8.0834	0.3267	6.1770	0.7483	1822.17	98.05	1807.81	68.35	1789.98	97.72	1789.98	97.72
3NAC658-135	0.1098	3.7145	4.2744	5.2327	0.2822	3.7041	0.7043	1602.34	52.55	1688.45	43.08	1795.67	67.63	1795.67	67.63
3NAC658-317	0.1099	6.6879	4.6706	10.0979	0.3078	7.4066	0.7494	1730.12	112.40	1762.00	84.65	1798.46	121.73	1798.46	121.73
3NAC658-063	0.1125	2.6748	4.1807	4.4075	0.2692	4.0020	0.8019	1536.97	54.73	1670.24	36.13	1840.69	48.43	1840.69	48.43
3NAC658-298	0.1128	13.2742	5.3549	18.8624	0.3440	13.5709	0.7105	1905.83	224.00	1877.67	162.77	1845.14	240.12	1845.14	240.12
3NAC658-208	0.1154	3.9933	5.3908	6.2743	0.3385	4.1537	0.7803	1879.26	67.71	1883.40	53.79	1886.23	71.89	1886.23	71.89
3NAC658-329	0.1157	5.0799	5.4974	7.6485	0.3443	5.8094	0.7477	1907.14	95.92	1900.18	65.80	1891.03	91.40	1891.03	91.40
3NAC658-182	0.1170	4.1571	4.9208	4.6110	0.3047	4.2427	0.5618	1714.34	63.87	1805.83	38.93	1911.46	74.62	1911.46	74.62
3NAC658-061	0.1244	5.6475	6.4896	8.4866	0.3781	6.6237	0.7472	2067.43	117.16	2044.49	74.80	2020.11	100.10	2020.11	100.10
3NAC658-140	0.1248	4.4183	5.9385	7.2558	0.3448	5.5248	0.7939	1909.53	91.31	1966.88	63.14	2026.33	78.26	2026.33	78.26
3NAC658-129	0.1250	2.5777	5.4863	4.2826	0.3181	3.4499	0.7986	1780.22	53.67	1898.45	36.80	2028.91	45.64	2028.91	45.64
3NAC658-240	0.1273	5.7603	6.6870	9.4658	0.3807	7.5778	0.7936	2079.51	134.71	2070.90	83.80	2060.70	101.62	2060.70	101.62
3NAC658-169	0.1273	3.7059	6.2262	5.2803	0.3544	3.9274	0.7130	1955.77	66.26	2008.13	46.23	2060.85	65.38	2060.85	65.38
3NAC658-315	0.1278	4.1312	6.6964	6.4921	0.3798	4.7643	0.7724	2075.43	84.55	2072.14	57.42	2067.39	72.82	2067.39	72.82
3NAC658-088	0.1312	2.8914	6.5994	4.0971	0.3645	3.3495	0.7158	2003.48	57.68	2059.27	36.14	2114.35	50.69	2114.35	50.69
3NAC658-281	0.1324	4.5789	7.0219	6.2730	0.3845	4.5465	0.6847	2097.10	81.39	2114.21	55.81	2129.39	80.14	2129.39	80.14
3NAC658-331	0.1444	2.6363	6.6392	5.3755	0.3332	4.7961	0.8717	1853.75	77.27	2064.56	47.47	2280.61	45.38	2280.61	45.38
3NAC658-145	0.1492	3.0969	7.1422	4.9669	0.3469	3.2807	0.7930	1919.86	54.47	2129.32	44.27	2336.69	53.02	2336.69	53.02
3NAC658-339	0.1776	3.9402	12.0207	5.9699	0.4904	4.6021	0.7515	2572.56	97.63	2606.02	56.02	2630.63	65.48	2630.63	65.48
3NAC658-149	0.1791	8.8316	12.3561	13.3615	0.5000	9.8089	0.7506	2614.00	210.86	2631.84	126.16	2644.20	146.57	2644.20	146.57
3NAC658-205	0.1834	5.3394	10.4356	7.8753	0.4122	5.2292	0.7389	2225.19	98.41	2474.21	73.10	2684.01	88.28	2684.01	88.28
3NAC658, LATE EOCENE, MUÑANI FORMATION, LATITUDE: -15.973760, LONGITUDE: -69.665170 REJECTED															
3NAC658-151	0.0987	30.5647	0.1576	31.4142	0.0116	6.9559	0.2312	74.19	5.13	148.61	43.46	1599.16	570.50	74.19	5.13
3NAC658-146	0.1374	12.2224	0.2220	13.7609	0.0117	5.9717	0.4602	75.03	4.45	203.53	25.38	2194.64	212.35	75.03	4.45
3NAC658-293	0.0639	6.7583	0.1049	8.9135	0.0119	6.0331	0.6525	76.27	4.57	101.33	8.60	738.27	143.01	76.27	4.57

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3NAC658, LATE EOCENE, MUÑANI FORMATION, LATITUDE: -15.973760, LONGITUDE: -69.665170 REJECTED															
3NAC658-227	0.0725	14.6593	0.1197	21.7924	0.0120	16.2265	0.7399	76.67	12.37	114.81	23.66	1000.05	297.73	76.67	12.37
3NAC658-318	0.2004	7.7619	0.3749	9.5840	0.0136	5.4059	0.5870	86.81	4.66	323.31	26.54	2829.60	126.64	86.81	4.66
3NAC658-206	0.0657	8.5736	0.1237	10.1555	0.0136	4.8436	0.5396	87.28	4.20	118.39	11.35	798.04	179.69	87.28	4.20
3NAC658-242	0.0500	20.7615	0.1034	28.9323	0.0150	20.1754	0.6965	95.88	19.20	99.92	27.54	195.23	482.55	95.88	19.20
3NAC658-143	0.0523	36.7189	0.1115	41.8726	0.0154	20.0608	0.4806	98.82	19.67	107.31	42.67	298.33	837.53	98.82	19.67
3NAC658-316	0.3385	16.7670	0.7255	18.3011	0.0155	7.1704	0.4009	99.35	7.07	553.91	78.29	3656.08	256.31	99.35	7.07
3NAC658-034	0.1129	16.1996	0.2428	16.9254	0.0156	4.9104	0.2897	99.66	4.86	220.75	33.59	1847.33	292.96	99.66	4.86
3NAC658-078	0.0872	16.8891	0.1986	17.3086	0.0165	3.9682	0.2191	105.59	4.16	183.95	29.13	1364.08	325.27	105.59	4.16
3NAC658-168	0.0809	61.0051	0.2307	74.5481	0.0207	42.8611	0.5747	131.83	55.93	210.78	142.83	1219.34	1199.20	131.83	55.93
3NAC658-116	0.2534	11.2524	0.8088	15.0742	0.0231	10.0783	0.6654	147.43	14.69	601.78	68.55	3206.06	177.81	147.43	14.69
3NAC658-186	0.0813	7.4971	0.2687	7.9281	0.0240	4.6209	0.3822	152.60	6.97	241.63	17.05	1227.89	147.19	152.60	6.97
3NAC658-052	0.0698	8.3795	0.2436	10.7590	0.0253	6.9351	0.6275	161.11	11.03	221.36	21.40	921.20	172.26	161.11	11.03
3NAC658-199	0.0491	15.8721	0.2148	22.7051	0.0317	16.1943	0.7151	201.17	32.07	197.56	40.78	152.43	371.82	201.17	32.07
3NAC658-013	0.0774	6.6168	0.3643	7.5988	0.0341	3.3251	0.4950	216.15	7.07	315.42	20.61	1131.51	131.75	216.15	7.07
3NAC658-032	0.0805	6.4413	0.4403	7.9751	0.0396	4.4465	0.5905	250.57	10.93	370.48	24.76	1209.32	126.80	250.57	10.93
3NAC658-256	0.0534	17.0458	0.3396	23.9246	0.0461	16.7503	0.7017	290.58	47.59	296.88	61.66	344.76	385.65	290.58	47.59
3NAC658-011	0.0768	4.6372	0.6260	6.3706	0.0590	4.1933	0.6863	369.80	15.07	493.59	24.91	1116.26	92.54	369.80	15.07
3NAC658-039	0.2844	4.4251	2.4598	5.4137	0.0627	3.1302	0.5761	391.83	11.90	1260.30	39.10	3387.42	68.98	391.83	11.90
3NAC658-060	0.8047	17.2137	11.1476	21.5242	0.1004	13.0661	0.6004	616.71	76.85	2535.54	203.23	4930.13	246.48	616.71	76.85
3NAC658-059	0.0591	6.2273	0.8385	9.1599	0.1029	6.9050	0.7336	631.12	41.51	618.29	42.44	569.95	135.50	631.12	41.51
3NAC658-114	0.1393	2.6132	1.9935	4.4123	0.1037	3.6660	0.8061	635.94	22.20	1113.31	29.84	2219.13	45.29	635.94	22.20
3NAC658-245	0.0861	6.3600	1.3784	7.4085	0.1160	3.6129	0.5135	707.64	24.21	879.74	43.62	1340.04	122.90	707.64	24.21
3NAC658-313	0.1023	7.8790	1.6807	9.4556	0.1190	5.5374	0.5538	725.07	37.97	1001.26	60.27	1666.45	145.77	725.07	37.97
3NAC658-225	0.0699	9.2811	1.1521	12.5921	0.1193	8.7010	0.6760	726.78	59.80	778.21	68.55	926.76	190.63	726.78	59.80
3NAC658-087	0.0740	7.2255	1.2785	9.8491	0.1253	6.8984	0.6799	761.00	49.52	836.20	56.17	1040.14	145.85	761.00	49.52
3NAC658-018	0.0737	3.3044	1.2911	6.2664	0.1269	4.5205	0.8611	770.37	32.82	841.78	35.87	1033.06	66.77	770.37	32.82
3NAC658-121	0.0917	5.7248	1.6145	10.2933	0.1277	8.5906	0.8311	774.52	62.70	975.86	64.63	1460.20	108.82	774.52	62.70
3NAC658-120	0.0737	5.1206	1.3252	6.5734	0.1302	4.1961	0.6271	789.16	31.17	856.77	38.06	1034.53	103.45	789.16	31.17
3NAC658-095	0.0693	11.5337	1.6247	12.1174	0.1699	3.8982	0.3070	1011.74	36.50	979.80	76.30	907.45	237.65	907.45	237.65
3NAC658-044	0.0722	15.6123	1.7641	22.3040	0.1770	16.2207	0.7143	1050.44	157.26	1032.36	145.53	992.58	317.44	992.58	317.44
3NAC658-247	0.0772	26.8071	1.7818	38.1199	0.1673	27.0763	0.7110	997.29	250.30	1038.85	253.03	1125.54	534.23	1125.54	534.23
3NAC658-048	0.0812	4.7723	1.5857	6.9197	0.1416	5.8731	0.7333	853.50	46.95	964.60	43.11	1225.62	93.73	1225.62	93.73
3NAC658-181	0.0815	17.8473	2.2708	25.3186	0.2019	18.3446	0.7095	1185.32	198.69	1203.26	180.35	1233.78	350.10	1233.78	350.10
3NAC658-253	0.0825	22.8095	2.2372	29.6889	0.1966	18.9500	0.6401	1156.91	200.75	1192.76	211.33	1256.57	445.99	1256.57	445.99
3NAC658-177	0.0842	7.9294	1.5955	12.3045	0.1374	9.8803	0.7656	829.81	76.93	968.44	76.95	1296.11	154.17	1296.11	154.17
3NAC658-192	0.0842	4.2129	1.9735	5.6883	0.1699	4.4945	0.6808	1011.57	42.08	1106.52	38.35	1296.40	81.91	1296.40	81.91
3NAC658-024	0.0859	4.0382	1.8737	8.8071	0.1580	7.5664	0.8892	945.62	66.55	1071.85	58.37	1336.60	78.07	1336.60	78.07
3NAC658-124	0.0879	2.7162	1.7379	5.0376	0.1432	4.2668	0.8422	862.80	34.46	1022.70	32.48	1381.33	52.19	1381.33	52.19
3NAC658-085	0.0901	16.1014	2.7385	20.2180	0.2203	12.3412	0.6048	1283.27	143.63	1338.96	151.49	1427.79	307.41	1427.79	307.41
3NAC658-273	0.0951	8.2914	2.5139	11.5685	0.1915	8.0622	0.6974	1129.64	83.54	1276.05	84.23	1530.30	156.15	1530.30	156.15
3NAC658-122	0.0955	3.1540	2.6600	4.4026	0.2019	3.1710	0.6981	1185.32	34.33	1317.44	32.50	1537.94	59.34	1537.94	59.34
3NAC658-108	0.0965	9.6269	2.8157	15.5290	0.2114	12.2324	0.7847	1236.32	137.63	1359.72	116.87	1558.02	180.65	1558.02	180.65
3NAC658-348	0.0972	6.1585	1.9274	9.7779	0.1437	7.7183	0.7768	865.69	62.53	1090.64	65.46	1570.50	115.38	1570.50	115.38
3NAC658-045	0.1009	20.2585	2.8906	24.8948	0.2076	14.7895	0.5813	1216.10	163.94	1379.46	189.99	1640.65	376.13	1640.65	376.13
3NAC658-023	0.1013	5.4302	2.4576	9.1929	0.1758	7.1425	0.8075	1043.88	68.84	1259.67	66.44	1648.12	100.70	1648.12	100.70
3NAC658-188	0.1138	15.7242	5.1663	22.7978	0.3291	16.9469	0.7243	1833.95	270.66	1847.08	196.36	1860.19	283.94	1860.19	283.94
3NAC658-096	0.1164	18.3031	2.2546	20.9667	0.1403	10.2950	0.4878	846.49	81.67	1198.21	148.53	1902.36	328.89	1902.36	328.89
3NAC658-304	0.1246	5.6545	2.8391	13.2989	0.1652	12.2617	0.9053	985.47	112.06	1365.94	100.19	2022.56	100.20	2022.56	100.20
3NAC658-004	0.1294	12.4716	2.7913	13.7188	0.1562	5.5827	0.4167	935.83	48.63	1353.22	102.91	2090.17	219.27	2090.17	219.27
3NAC658-233	0.1380	8.1584	5.1573	11.2175	0.2707	7.8989	0.6866	1544.57	108.50	1845.60	95.68	2202.56	141.62	2202.56	141.62

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
3NAC658, LATE EOCENE, MUÑANI FORMATION, LATITUDE: -15.973760, LONGITUDE: -69.665170 REJECTED															
3NAC658-081	0.1706	6.6341	8.3254	8.3926	0.3537	5.2202	0.6126	1952.35	87.94	2267.08	76.22	2563.35	110.96	2563.35	110.96
3NAC658-340	0.2952	9.2203	7.4472	11.2463	0.1828	6.5216	0.5726	1082.39	64.98	2166.66	101.01	3445.01	143.13	3445.01	143.13
3NAC658-203	0.7269	7.3708	13.6871	10.4831	0.1364	7.1373	0.7118	824.42	55.24	2728.30	99.51	4784.90	106.03	4784.90	106.03
3NAC658-187	0.8172	5.7714	4847.9202	15.6738	42.9830	15.0687	0.9303	24391.97	956.26	8617.06	160.44	4952.08	82.59	4952.08	82.59
3NAC658-230	0.8281	7.8722	32.5082	10.7951	0.2844	7.5947	0.6845	1613.69	108.43	3565.81	106.73	4970.86	112.59	4970.86	112.59
3NAC658-104	0.9074	11.1361	24.9838	15.3275	0.1996	10.5866	0.6871	1172.90	113.54	3307.58	150.74	5100.42	158.71	5100.42	158.71
5NAC99.1, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.983860, LONGITUDE: -69.649930 ACCEPTED															
5NAC99_1-385	0.0859	58.1249	0.0454	59.3429	0.0038	12.0103	0.2016	24.65	2.96	45.10	26.18	1335.86	1123.84	24.65	2.96
5NAC99_1-379	0.0997	37.7252	0.0528	39.3233	0.0038	11.1355	0.2822	24.67	2.74	52.20	20.01	1618.19	702.43	24.67	2.74
5NAC99_1-001	0.0516	94.7281	0.0277	95.5962	0.0039	13.1207	0.1345	25.00	3.27	27.70	26.13	269.82	2171.86	25.00	3.27
5NAC99_1-188	0.0694	82.6225	0.0385	83.8330	0.0040	14.3685	0.1693	25.84	3.71	38.35	31.56	909.39	1701.93	25.84	3.71
5NAC99_1-175	0.0373	53.0446	0.0208	53.3607	0.0040	6.3934	0.1092	25.92	1.65	20.85	11.01	0.00	1278.61	25.92	1.65
5NAC99_1-298	0.0430	92.0008	0.0241	92.9308	0.0041	13.3988	0.1411	26.10	3.49	24.14	22.17	0.00	2217.63	26.10	3.49
5NAC99_1-259	0.0233	170.3368	0.0131	170.6976	0.0041	11.7781	0.0651	26.11	3.07	13.17	22.34	0.00	4105.88	26.11	3.07
5NAC99_1-065	0.0395	54.3413	0.0223	56.0503	0.0041	13.7841	0.2451	26.29	3.62	22.37	12.40	0.00	1309.87	26.29	3.62
5NAC99_1-079	0.0477	88.6504	0.0269	89.3831	0.0041	11.4982	0.1278	26.32	3.02	26.99	23.81	84.64	2103.02	26.32	3.02
5NAC99_1-303	0.0491	28.0514	0.0280	28.3545	0.0041	5.1723	0.1495	26.60	1.37	28.06	7.85	152.97	657.07	26.60	1.37
5NAC99_1-083	0.0364	97.3512	0.0208	97.9555	0.0041	11.2046	0.1110	26.61	2.98	20.87	20.23	0.00	2346.60	26.61	2.98
5NAC99_1-003	0.0583	22.2774	0.0332	23.5984	0.0041	8.2174	0.3304	26.62	2.18	33.20	7.71	540.47	487.16	26.62	2.18
5NAC99_1-129	0.0678	74.1416	0.0388	75.3615	0.0041	13.3717	0.1792	26.63	3.55	38.65	28.59	863.26	1538.12	26.63	3.55
5NAC99_1-296	0.0483	30.9243	0.0276	32.6644	0.0041	10.8720	0.3222	26.66	2.89	27.65	8.91	112.00	729.87	26.66	2.89
5NAC99_1-114	0.0888	51.3407	0.0509	53.0321	0.0041	13.0385	0.2506	26.69	3.47	50.44	26.10	1400.93	983.79	26.69	3.47
5NAC99_1-138	0.0796	76.8354	0.0459	78.2065	0.0042	14.8975	0.1865	26.83	3.99	45.56	34.86	1187.73	1517.32	26.83	3.99
5NAC99_1-122	0.0207	106.7565	0.0119	107.1724	0.0042	9.3589	0.0880	26.85	2.51	12.05	12.84	0.00	2573.31	26.85	2.51
5NAC99_1-371	0.0364	41.5321	0.0210	42.1456	0.0042	7.2277	0.1700	26.89	1.94	21.09	8.80	0.00	1001.11	26.89	1.94
5NAC99_1-058	0.0055	1275.7573	0.0032	1275.8455	0.0042	14.9544	0.0118	26.92	4.02	3.20	40.84	0.00	30751.48	26.92	4.02
5NAC99_1-198	0.0684	34.0574	0.0396	35.5634	0.0042	9.4277	0.2889	26.95	2.54	39.39	13.74	879.42	704.78	26.95	2.54
5NAC99_1-110	0.0762	73.9279	0.0441	75.3017	0.0042	14.0884	0.1902	26.96	3.79	43.84	32.32	1100.17	1478.85	26.96	3.79
5NAC99_1-060	0.0449	28.0416	0.0261	28.9609	0.0042	7.2356	0.2500	27.07	1.95	26.16	7.48	0.00	675.93	27.07	1.95
5NAC99_1-051	0.0475	30.2621	0.0276	31.6246	0.0042	9.1305	0.2904	27.10	2.47	27.62	8.62	72.80	719.48	27.10	2.47
5NAC99_1-077	0.0514	24.6425	0.0299	25.3469	0.0042	6.0810	0.2342	27.11	1.64	29.89	7.47	256.89	566.32	27.11	1.64
5NAC99_1-134	0.0450	66.1392	0.0263	66.9021	0.0042	10.5291	0.1507	27.21	2.86	26.37	17.42	0.00	1594.25	27.21	2.86
5NAC99_1-257	0.0708	49.4677	0.0414	51.2270	0.0042	13.8874	0.2601	27.25	3.78	41.19	20.68	951.89	1012.19	27.25	3.78
5NAC99_1-342	0.0589	100.8650	0.0345	101.8423	0.0042	14.3255	0.1382	27.28	3.90	34.40	34.46	562.66	2197.40	27.28	3.90
5NAC99_1-049	0.0614	90.9351	0.0361	92.0615	0.0043	14.3328	0.1559	27.39	3.92	35.99	32.56	654.32	1950.85	27.39	3.92
5NAC99_1-084	0.0437	59.0989	0.0258	60.0660	0.0043	11.0798	0.1788	27.46	3.04	25.82	15.31	0.00	1424.55	27.46	3.04
5NAC99_1-238	0.0427	91.6570	0.0252	92.5271	0.0043	11.6240	0.1373	27.49	3.19	25.24	23.07	0.00	2209.34	27.49	3.19
5NAC99_1-054	0.0649	47.9677	0.0384	49.5806	0.0043	12.5050	0.2530	27.55	3.44	38.23	18.61	772.52	1009.45	27.55	3.44
5NAC99_1-093	0.0462	37.4248	0.0273	38.4453	0.0043	9.0538	0.2290	27.58	2.49	27.39	10.39	6.79	900.94	27.58	2.49
5NAC99_1-036	0.0642	72.4217	0.0381	73.7537	0.0043	14.3113	0.1893	27.66	3.95	37.93	27.47	748.44	1529.97	27.66	3.95
5NAC99_1-227	0.0443	26.5397	0.0263	27.4441	0.0043	5.2826	0.2646	27.66	1.46	26.35	7.14	0.00	639.73	27.66	1.46
5NAC99_1-261	0.0566	25.5395	0.0336	28.4554	0.0043	12.8421	0.4411	27.70	3.55	33.59	9.40	475.80	564.62	27.70	3.55
5NAC99_1-107	0.0552	65.2046	0.0328	66.1163	0.0043	10.7106	0.1655	27.72	2.96	32.82	21.35	419.02	1455.91	27.72	2.96
5NAC99_1-104	0.0540	36.4532	0.0322	37.2339	0.0043	7.2476	0.2039	27.74	2.01	32.16	11.79	371.76	820.78	27.74	2.01
5NAC99_1-281	0.0649	43.7115	0.0390	44.9525	0.0044	10.8746	0.2335	28.04	3.04	38.89	17.15	771.19	920.07	28.04	3.04
5NAC99_1-066	0.1003	76.5137	0.0605	77.3123	0.0044	11.1437	0.1434	28.14	3.13	59.68	44.84	1629.35	1422.63	28.14	3.13
5NAC99_1-395	0.0519	64.3021	0.0314	65.1106	0.0044	10.2857	0.1571	28.21	2.90	31.40	20.13	281.20	1471.23	28.21	2.90
5NAC99_1-053	0.0841	55.6624	0.0510	57.0888	0.0044	12.6442	0.2221	28.25	3.56	50.46	28.11	1295.11	1082.41	28.25	3.56
5NAC99_1-350	0.0278	147.0894	0.0169	147.6926	0.0044	13.3756	0.0903	28.29	3.78	16.99	24.89	0.00	3545.51	28.29	3.78

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC99.1, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.983860, LONGITUDE: -69.649930 ACCEPTED															
5NAC99_1-283	0.0403	80.1249	0.0245	81.1921	0.0044	13.4304	0.1616	28.35	3.80	24.59	19.73	0.00	1931.37	28.35	3.80
5NAC99_1-272	0.0472	84.5675	0.0287	85.6956	0.0044	14.1340	0.1618	28.36	4.00	28.76	24.30	59.81	2015.53	28.36	4.00
5NAC99_1-072	0.1289	66.4997	0.0794	67.3744	0.0045	10.8832	0.1606	28.69	3.12	77.54	50.34	2082.68	1170.17	28.69	3.12
5NAC99_1-248	0.0408	70.6233	0.0253	71.4769	0.0045	8.7720	0.1581	28.86	2.53	25.32	17.88	0.00	1702.34	28.86	2.53
5NAC99_1-330	0.0333	106.2268	0.0208	106.7363	0.0045	10.8649	0.0977	29.13	3.16	20.93	22.12	0.00	2560.54	29.13	3.16
5NAC99_1-378	0.0940	50.1642	0.0589	51.7057	0.0045	12.5657	0.2424	29.20	3.66	58.10	29.20	1508.08	947.50	29.20	3.66
5NAC99_1-159	0.0222	192.6857	0.0140	193.0480	0.0046	13.2468	0.0616	29.27	3.87	14.10	27.04	0.00	4644.59	29.27	3.87
5NAC99_1-273	0.0577	48.6069	0.0364	49.2414	0.0046	8.3535	0.1603	29.38	2.45	36.31	17.57	520.03	1066.66	29.38	2.45
5NAC99_1-023	0.0840	40.1922	0.0529	41.5312	0.0046	10.7518	0.2520	29.39	3.15	52.36	21.20	1292.95	781.81	29.39	3.15
5NAC99_1-392	0.0257	133.5687	0.0164	134.0513	0.0046	11.4163	0.0848	29.66	3.38	16.47	21.90	0.00	3219.60	29.66	3.38
5NAC99_1-293	0.0612	36.4613	0.0389	37.3919	0.0046	8.7723	0.2221	29.67	2.60	38.79	14.23	645.61	783.34	29.67	2.60
5NAC99_1-113	0.0479	74.3779	0.0307	75.0619	0.0046	9.7815	0.1348	29.81	2.91	30.66	22.67	92.69	1761.77	29.81	2.91
5NAC99_1-141	0.0458	61.0992	0.0295	62.1850	0.0047	11.9676	0.1862	29.97	3.58	29.54	18.11	0.00	1472.76	29.97	3.58
5NAC99_1-005	0.1102	41.2575	0.0709	42.8500	0.0047	11.8687	0.2702	30.04	3.56	69.58	28.82	1803.19	750.52	30.04	3.56
5NAC99_1-361	0.0688	52.0785	0.0444	53.1003	0.0047	10.4123	0.1952	30.04	3.12	44.07	22.91	893.10	1075.44	30.04	3.12
5NAC99_1-027	0.0441	90.9748	0.0284	92.0938	0.0047	14.5271	0.1554	30.06	4.36	28.45	25.84	0.00	2192.90	30.06	4.36
5NAC99_1-034	0.0805	38.3295	0.0520	39.1533	0.0047	8.5986	0.2046	30.12	2.58	51.43	19.64	1208.30	754.66	30.12	2.58
5NAC99_1-327	0.1079	47.1742	0.0702	48.5901	0.0047	12.4773	0.2402	30.34	3.78	68.91	32.39	1763.54	862.30	30.34	3.78
5NAC99_1-258	0.0524	88.4506	0.0342	89.2369	0.0047	12.4669	0.1326	30.42	3.78	34.17	30.00	304.10	2015.38	30.42	3.78
5NAC99_1-377	0.0391	125.0990	0.0256	125.6775	0.0047	12.0808	0.0958	30.55	3.68	25.67	31.86	0.00	3015.45	30.55	3.68
5NAC99_1-317	0.0403	106.5042	0.0265	107.0965	0.0048	12.3997	0.1055	30.58	3.78	26.52	28.04	0.00	2567.23	30.58	3.78
5NAC99_1-057	0.6761	180.2587	0.4438	180.7952	0.0048	13.8719	0.0770	30.60	4.23	372.90	636.23	4680.76	2602.59	30.60	4.23
5NAC99_1-236	0.0088	357.1671	0.0058	357.3332	0.0048	9.6708	0.0307	30.64	2.96	5.88	20.95	0.00	8609.33	30.64	2.96
5NAC99_1-400	0.0159	293.4869	0.0105	293.7633	0.0048	12.7868	0.0434	30.69	3.91	10.59	30.96	0.00	7074.35	30.69	3.91
5NAC99_1-331	0.0560	89.7926	0.0372	90.8005	0.0048	13.8407	0.1486	30.96	4.27	37.12	33.10	453.81	1992.73	30.96	4.27
5NAC99_1-149	0.0561	81.3188	0.0374	82.1191	0.0048	12.2567	0.1396	30.98	3.79	37.25	30.05	457.77	1803.43	30.98	3.79
5NAC99_1-196	0.1003	46.2122	0.0671	48.5838	0.0048	14.4515	0.3088	31.15	4.49	65.96	31.04	1629.91	859.17	31.15	4.49
5NAC99_1-306	0.0604	58.5559	0.0404	59.6782	0.0048	12.3858	0.1935	31.19	3.85	40.22	23.54	617.14	1264.01	31.19	3.85
5NAC99_1-254	0.0415	123.2016	0.0279	123.9865	0.0049	14.4817	0.1124	31.32	4.52	27.91	34.15	0.00	2969.71	31.32	4.52
5NAC99_1-253	0.0437	101.3627	0.0295	102.3882	0.0049	13.7861	0.1413	31.45	4.32	29.54	29.82	0.00	2443.30	31.45	4.32
5NAC99_1-284	0.0598	78.2835	0.0404	79.4632	0.0049	13.9399	0.1717	31.49	4.38	40.19	31.32	594.56	1696.27	31.49	4.38
5NAC99_1-319	0.0076	796.2945	0.0052	796.3916	0.0049	13.4914	0.0157	31.83	4.28	5.25	41.75	0.00	19194.27	31.83	4.28
5NAC99_1-384	0.0751	36.4690	0.0515	37.7151	0.0050	9.6599	0.2549	31.95	3.08	50.96	18.75	1070.23	732.80	31.95	3.08
5NAC99_1-224	0.0524	90.8551	0.0363	91.9581	0.0050	13.4433	0.1547	32.24	4.32	36.16	32.68	301.71	2071.06	32.24	4.32
5NAC99_1-265	0.0960	35.4887	0.0709	36.9964	0.0054	10.9812	0.2829	34.40	3.77	69.57	24.88	1548.38	666.78	34.40	3.77
5NAC99_1-226	0.0794	46.8000	0.0614	49.2763	0.0056	14.7309	0.3134	36.00	5.29	60.51	28.95	1182.34	924.92	36.00	5.29
5NAC99_1-200	0.0532	28.9260	0.0425	31.0135	0.0058	10.5505	0.3613	37.20	3.91	42.27	12.84	336.05	655.46	37.20	3.91
5NAC99_1-145	0.0720	38.0633	0.0583	38.8227	0.0059	8.8215	0.1989	37.67	3.31	57.55	21.72	985.67	774.72	37.67	3.31
5NAC99_1-386	0.0457	28.6630	0.0581	31.2713	0.0092	12.5493	0.3998	59.12	7.39	57.36	17.44	0.00	690.91	59.12	7.39
5NAC99_1-137	0.0507	41.0663	0.0649	41.9511	0.0093	9.1004	0.2047	59.46	5.39	63.86	25.97	226.40	949.03	59.46	5.39
5NAC99_1-252	0.0749	49.6330	0.1039	51.7420	0.0101	13.9603	0.2829	64.48	8.96	100.41	49.51	1066.05	997.94	64.48	8.96
5NAC99_1-312	0.0300	186.9836	0.0434	187.3337	0.0105	12.0935	0.0612	67.12	8.08	43.10	79.21	0.00	4507.14	67.12	8.08
5NAC99_1-304	0.0628	44.4586	0.0924	45.8658	0.0107	12.1581	0.2465	68.34	8.26	89.72	39.41	702.04	946.32	68.34	8.26
5NAC99_1-308	0.0408	26.2609	0.0610	26.4914	0.0108	5.7338	0.1483	69.48	3.96	60.14	15.47	0.00	633.01	69.48	3.96
5NAC99_1-234	0.0409	39.9547	0.0653	40.9976	0.0116	8.1198	0.2258	74.17	5.99	64.22	25.52	0.00	963.09	74.17	5.99
5NAC99_1-268	0.0463	19.5575	0.0763	20.4543	0.0119	6.8692	0.2956	76.56	5.23	74.70	14.73	13.30	470.23	76.56	5.23
5NAC99_1-365	0.0706	22.1091	0.1172	24.9710	0.0120	11.6787	0.4649	77.02	8.94	112.51	26.60	947.17	452.71	77.02	8.94
5NAC99_1-135	0.0922	35.6163	0.1532	37.2597	0.0120	11.3633	0.2939	77.03	8.70	144.69	50.29	1471.14	676.02	77.03	8.70
5NAC99_1-019	0.0739	23.3233	0.1235	25.2833	0.0121	10.0663	0.3862	77.75	7.78	118.22	28.22	1037.45	470.97	77.75	7.78
5NAC99_1-029	0.0402	31.9048	0.0709	33.0612	0.0128	9.0165	0.2624	81.93	7.34	69.55	22.23	0.00	769.05	81.93	7.34

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC99.1, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.983860, LONGITUDE: -69.649930 ACCEPTED															
5NAC99_1-074	0.0549	9.3670	0.1047	10.5960	0.0138	5.1285	0.4677	88.35	4.50	101.07	10.19	410.00	209.48	88.35	4.50
5NAC99_1-015	0.0475	20.0228	0.0904	20.3659	0.0138	4.4628	0.1858	88.40	3.92	87.87	17.14	74.82	475.86	88.40	3.92
5NAC99_1-185	0.0576	15.2218	0.1112	15.5911	0.0140	4.0427	0.2199	89.53	3.59	107.10	15.85	513.41	334.42	89.53	3.59
5NAC99_1-131	0.0481	12.2203	0.0940	13.3270	0.0141	5.1482	0.3992	90.50	4.63	91.24	11.63	105.18	288.79	90.50	4.63
5NAC99_1-311	0.0557	17.0050	0.1112	17.8635	0.0145	6.7164	0.3127	92.70	6.18	107.10	18.16	438.59	378.39	92.70	6.18
5NAC99_1-278	0.0547	31.5497	0.1218	32.6743	0.0162	9.2736	0.2611	103.29	9.50	116.72	36.04	397.98	707.07	103.29	9.50
5NAC99_1-235	0.0519	19.4855	0.1158	21.9759	0.0162	8.8378	0.4669	103.45	9.07	111.29	23.17	279.61	445.96	103.45	9.07
5NAC99_1-249	0.0597	41.3047	0.1392	42.8077	0.0169	9.0595	0.2688	108.00	9.70	132.33	53.16	592.35	895.34	108.00	9.70
5NAC99_1-061	0.0468	24.1238	0.1090	25.7997	0.0169	9.1445	0.3545	108.01	9.80	105.06	25.76	36.82	577.45	108.01	9.80
5NAC99_1-292	0.0440	41.5800	0.1166	43.0573	0.0192	11.5440	0.2598	122.67	14.03	111.95	45.67	0.00	1002.26	122.67	14.03
5NAC99_1-117	0.0481	12.9646	0.1370	14.7421	0.0206	6.5358	0.4772	131.48	8.51	130.36	18.04	104.68	306.41	131.48	8.51
5NAC99_1-091	0.0552	22.2964	0.1609	26.2171	0.0211	13.9553	0.5261	134.75	18.61	151.53	36.92	418.97	497.85	134.75	18.61
5NAC99_1-155	0.0626	26.3142	0.1902	26.4811	0.0220	6.6728	0.1509	140.10	9.25	176.78	42.99	695.72	560.69	140.10	9.25
5NAC99_1-127	0.0438	37.3185	0.1377	39.7189	0.0227	13.4664	0.3424	144.97	19.30	130.97	48.84	0.00	899.54	144.97	19.30
5NAC99_1-195	0.0478	33.1830	0.1515	34.1336	0.0229	6.9300	0.2368	146.25	10.02	143.19	45.62	88.26	786.65	146.25	10.02
5NAC99_1-143	0.0643	25.6381	0.2113	26.8172	0.0238	8.4386	0.2940	151.50	12.64	194.62	47.53	751.04	541.40	151.50	12.64
5NAC99_1-223	0.0552	20.1352	0.1834	22.1940	0.0241	8.3334	0.4233	153.36	12.63	170.99	34.94	419.11	449.58	153.36	12.63
5NAC99_1-314	0.0479	16.1861	0.1618	18.3917	0.0245	10.1739	0.4804	156.00	15.68	152.32	26.02	93.43	383.34	156.00	15.68
5NAC99_1-193	0.0587	16.5281	0.2065	17.8958	0.0255	5.5780	0.3917	162.23	8.94	190.62	31.11	554.35	360.58	162.23	8.94
5NAC99_1-105	0.0614	16.8142	0.2202	19.4399	0.0260	9.4971	0.5021	165.27	15.50	202.11	35.64	652.86	360.80	165.27	15.50
5NAC99_1-073	0.0614	18.2666	0.2296	21.5788	0.0271	11.5462	0.5324	172.24	19.62	209.87	40.94	654.08	391.89	172.24	19.62
5NAC99_1-038	0.0515	18.1080	0.2309	21.7938	0.0325	12.5369	0.5568	206.39	25.47	210.91	41.53	261.93	415.76	206.39	25.47
5NAC99_1-372	0.0587	19.4123	0.2875	24.2527	0.0355	14.5671	0.5994	224.66	32.16	256.55	55.04	557.27	423.29	224.66	32.16
5NAC99_1-363	0.0763	12.2037	0.3775	15.1988	0.0358	9.1113	0.5961	227.03	20.33	325.21	42.32	1103.36	244.01	227.03	20.33
5NAC99_1-228	0.0675	30.9180	0.3586	31.8961	0.0385	6.3658	0.2511	243.55	15.21	311.20	85.69	852.00	642.54	243.55	15.21
5NAC99_1-318	0.0639	12.5548	0.3447	13.6574	0.0391	7.4928	0.4155	247.32	18.18	300.71	35.56	737.04	265.72	247.32	18.18
5NAC99_1-085	0.0518	6.6496	0.2839	8.1568	0.0396	5.6391	0.5883	250.66	13.86	253.71	18.31	278.58	152.21	250.66	13.86
5NAC99_1-055	0.0661	14.8751	0.3646	17.0846	0.0400	8.3281	0.4919	252.67	20.64	315.68	46.39	810.38	311.16	252.67	20.64
5NAC99_1-014	0.0734	15.5710	0.4214	16.5852	0.0417	6.2191	0.3456	263.26	16.04	357.06	49.97	1024.21	315.13	263.26	16.04
5NAC99_1-345	0.0497	21.0983	0.2885	22.3217	0.0421	7.3618	0.3265	265.68	19.16	257.41	50.80	180.54	491.69	265.68	19.16
5NAC99_1-373	0.0466	20.5125	0.2902	21.1456	0.0451	5.2098	0.2429	284.61	14.50	258.68	48.32	27.78	491.84	284.61	14.50
5NAC99_1-389	0.0549	15.4704	0.3550	17.9855	0.0469	9.2363	0.5100	295.44	26.67	308.49	47.88	406.70	346.18	295.44	26.67
5NAC99_1-233	0.0496	15.1698	0.3294	18.0053	0.0481	8.6937	0.5419	302.69	25.71	289.13	45.33	177.78	353.71	302.69	25.71
5NAC99_1-152	0.0544	14.6547	0.3921	17.4759	0.0522	10.4920	0.5474	328.02	33.55	335.92	50.02	385.65	329.15	328.02	33.55
5NAC99_1-102	0.0519	11.1245	0.4750	13.9220	0.0662	8.1989	0.6014	413.48	32.84	394.63	45.55	281.12	254.53	413.48	32.84
5NAC99_1-163	0.0723	13.6128	0.6982	18.5347	0.0699	13.1456	0.6793	435.51	55.36	537.71	77.53	993.94	276.73	435.51	55.36
5NAC99_1-323	0.0929	14.9081	0.9649	18.0686	0.0753	10.7838	0.5659	467.97	48.68	685.83	90.33	1485.05	282.44	467.97	48.68
5NAC99_1-274	0.0572	13.4911	0.6012	17.5831	0.0762	11.8714	0.6422	473.50	54.20	477.99	67.13	497.59	297.20	473.50	54.20
5NAC99_1-316	0.0715	15.8892	0.7600	16.5581	0.0770	6.9960	0.3049	478.08	32.24	573.98	72.72	972.78	324.10	478.08	32.24
5NAC99_1-291	0.0530	7.8743	0.5849	9.4062	0.0800	5.8904	0.5520	495.87	28.11	467.61	35.26	329.22	178.65	495.87	28.11
5NAC99_1-032	0.0656	7.6485	0.7231	8.2814	0.0800	3.6892	0.3878	496.22	17.62	552.51	35.30	792.42	160.45	496.22	17.62
5NAC99_1-393	0.0595	9.6351	0.6606	10.9307	0.0804	5.2732	0.4723	498.80	25.31	515.00	44.18	586.02	209.08	498.80	25.31
5NAC99_1-071	0.0558	4.9676	0.6279	5.9733	0.0816	3.5127	0.5562	505.51	17.08	494.80	23.40	443.11	110.45	505.51	17.08
5NAC99_1-242	0.0548	13.6066	0.6263	15.5476	0.0828	5.6069	0.5049	512.87	27.64	493.76	60.87	403.43	304.65	512.87	27.64
5NAC99_1-041	0.0583	17.3289	0.6718	19.4588	0.0836	9.1809	0.4552	517.33	45.64	521.79	79.56	541.30	378.89	517.33	45.64
5NAC99_1-125	0.0667	13.2007	0.7736	15.7984	0.0839	8.4707	0.5495	519.17	42.25	581.85	70.08	829.90	275.29	519.17	42.25
5NAC99_1-328	0.0529	13.6079	0.6123	14.1406	0.0839	5.9053	0.2973	519.20	29.46	485.02	54.58	324.56	308.92	519.20	29.46
5NAC99_1-338	0.0533	10.3073	0.6183	11.4209	0.0841	5.8086	0.4367	520.33	29.04	488.76	44.33	341.32	233.34	520.33	29.04
5NAC99_1-343	0.0551	12.8064	0.6395	17.3498	0.0841	12.0053	0.6749	520.35	60.02	501.98	68.82	417.01	286.05	520.35	60.02
5NAC99_1-059	0.0587	6.3057	0.6949	8.3087	0.0858	5.2927	0.6513	530.88	26.97	535.75	34.60	555.23	137.55	530.88	26.97

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC99.1, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.983860, LONGITUDE: -69.649930 ACCEPTED															
5NAC99_1-299	0.0601	15.4843	0.7126	18.8202	0.0860	11.0448	0.5687	531.71	56.37	546.27	79.68	605.62	334.89	531.71	56.37
5NAC99_1-307	0.0579	8.0476	0.6895	7.5310	0.0863	3.5589	0.0861	533.41	18.22	532.48	31.22	526.58	176.40	533.41	18.22
5NAC99_1-288	0.0522	11.1680	0.6296	13.6202	0.0874	8.3074	0.5736	539.96	43.03	495.86	53.48	295.10	254.88	539.96	43.03
5NAC99_1-112	0.0613	11.9522	0.7633	13.1133	0.0902	4.7510	0.4147	556.53	25.33	575.88	57.70	648.40	256.66	556.53	25.33
5NAC99_1-240	0.0537	12.1455	0.6706	13.6658	0.0905	3.7532	0.5198	558.71	20.09	521.08	55.76	356.52	274.21	558.71	20.09
5NAC99_1-285	0.0576	6.3367	0.7211	7.2706	0.0907	4.5752	0.5056	559.63	24.52	551.34	30.94	515.33	139.17	559.63	24.52
5NAC99_1-050	0.0545	11.3859	0.6823	14.5036	0.0907	8.9308	0.6195	559.82	47.89	528.17	59.80	392.93	255.40	559.82	47.89
5NAC99_1-243	0.0592	13.2995	0.7515	15.7348	0.0919	6.7494	0.5474	566.64	36.61	569.07	68.65	576.23	289.07	566.64	36.61
5NAC99_1-220	0.0540	13.1425	0.6938	15.1600	0.0930	6.2769	0.5071	573.22	34.43	535.07	63.13	372.13	295.89	573.22	34.43
5NAC99_1-352	0.0548	12.0883	0.7093	12.9584	0.0938	4.7824	0.3604	578.14	26.45	544.31	54.65	402.99	270.68	578.14	26.45
5NAC99_1-139	0.0577	8.0527	0.7555	8.0700	0.0948	3.1044	0.1979	583.77	17.33	571.40	35.28	517.22	176.80	583.77	17.33
5NAC99_1-339	0.0592	10.2306	0.7745	11.7724	0.0948	6.5931	0.4986	584.06	36.82	582.36	52.22	573.77	222.46	584.06	36.82
5NAC99_1-068	0.0633	6.8937	0.8292	8.7739	0.0949	5.5493	0.6188	584.43	31.01	613.17	40.41	718.73	146.34	584.43	31.01
5NAC99_1-046	0.0655	12.8579	0.8600	16.4846	0.0952	10.2824	0.6258	586.00	57.60	630.10	77.54	791.36	269.77	586.00	57.60
5NAC99_1-120	0.0731	13.9792	0.9768	15.1560	0.0967	5.7365	0.3864	594.80	32.59	691.98	76.19	1017.54	283.19	594.80	32.59
5NAC99_1-022	0.0770	10.9027	1.0257	14.7543	0.0967	10.2466	0.6741	595.14	58.25	716.76	76.00	1120.02	217.46	595.14	58.25
5NAC99_1-362	0.0614	9.3310	0.8222	11.1746	0.0971	6.2247	0.5503	597.20	35.50	609.25	51.24	652.37	200.24	597.20	35.50
5NAC99_1-219	0.0576	12.6878	0.7736	15.2196	0.0973	7.0067	0.5615	598.44	40.04	581.82	67.50	514.08	278.71	598.44	40.04
5NAC99_1-376	0.0601	9.4282	0.8141	12.3135	0.0982	7.9750	0.6432	603.62	45.95	604.78	56.17	607.25	203.86	603.62	45.95
5NAC99_1-039	0.0638	6.1956	0.8923	6.6246	0.1015	3.9504	0.4032	623.24	23.47	647.61	31.73	733.64	131.20	623.24	23.47
5NAC99_1-348	0.0604	4.7227	0.9059	5.7605	0.1087	3.4579	0.5732	665.44	21.86	654.88	27.81	616.68	101.95	665.44	21.86
5NAC99_1-078	0.0657	5.3686	1.0518	7.7052	0.1159	5.6847	0.7176	706.95	38.06	729.75	40.13	797.72	112.53	706.95	38.06
5NAC99_1-094	0.0634	6.0569	1.0585	8.2865	0.1208	6.0814	0.6842	735.21	42.26	733.10	43.29	722.87	128.49	735.21	42.26
5NAC99_1-320	0.0682	7.1767	1.4657	8.2841	0.1557	5.4026	0.5174	933.09	46.93	916.35	50.04	874.45	148.63	874.45	148.63
5NAC99_1-191	0.0686	14.6130	1.5201	16.1553	0.1605	5.6114	0.4354	959.29	50.02	938.52	99.26	886.02	302.09	886.02	302.09
5NAC99_1-133	0.0686	8.7362	1.5306	9.8639	0.1614	4.3825	0.4648	964.58	39.26	942.75	60.65	887.19	180.57	887.19	180.57
5NAC99_1-266	0.0688	7.1500	1.5313	8.1890	0.1613	5.2190	0.5051	964.10	46.74	943.01	50.34	892.07	147.67	892.07	147.67
5NAC99_1-100	0.0689	9.2922	1.2919	11.3949	0.1357	6.3759	0.5791	820.35	49.11	842.12	65.31	896.05	191.80	896.05	191.80
5NAC99_1-150	0.0690	10.7141	1.5097	11.2984	0.1582	5.6830	0.3517	946.85	50.05	934.33	69.12	899.98	221.02	899.98	221.02
5NAC99_1-229	0.0699	14.8603	1.5360	17.0938	0.1592	7.1028	0.5017	952.47	62.89	944.89	105.50	924.40	305.33	924.40	305.33
5NAC99_1-090	0.0704	6.0093	1.5815	7.5540	0.1627	5.0492	0.6089	971.90	45.55	962.96	47.02	939.23	123.19	939.23	123.19
5NAC99_1-130	0.0705	8.7865	1.6748	11.2907	0.1719	6.9646	0.6281	1022.47	65.85	999.02	71.90	943.08	180.03	943.08	180.03
5NAC99_1-160	0.0706	6.6996	1.5957	6.1445	0.1636	2.7289	0.0095	976.83	24.74	968.52	38.37	944.93	137.23	944.93	137.23
5NAC99_1-394	0.0707	8.4681	1.6558	9.7587	0.1696	4.9685	0.4971	1010.12	46.45	991.78	61.85	950.01	173.32	950.01	173.32
5NAC99_1-199	0.0716	14.2130	1.6465	15.3444	0.1664	4.1802	0.3969	992.46	38.45	988.22	97.23	975.05	289.81	975.05	289.81
5NAC99_1-002	0.0720	11.7447	1.5044	13.7558	0.1517	7.6295	0.5216	910.54	64.79	932.17	84.09	985.09	239.07	985.09	239.07
5NAC99_1-212	0.0720	11.5065	1.7751	13.0125	0.1786	3.7759	0.5209	1059.20	36.88	1036.40	84.71	985.30	234.21	985.30	234.21
5NAC99_1-166	0.0721	12.6545	1.6681	12.8936	0.1673	6.3979	0.2851	997.26	59.12	996.47	82.03	990.10	257.39	990.10	257.39
5NAC99_1-076	0.0722	11.0109	1.6383	15.5958	0.1644	11.1246	0.7082	981.41	101.28	985.05	98.64	990.64	223.94	990.64	223.94
5NAC99_1-183	0.0727	11.9500	1.7909	15.8367	0.1783	10.6285	0.6564	1057.85	103.70	1042.14	103.54	1005.11	242.53	1005.11	242.53
5NAC99_1-028	0.0732	9.4971	1.6410	11.0446	0.1627	6.1612	0.5125	971.63	55.57	986.09	69.79	1019.23	192.34	1019.23	192.34
5NAC99_1-026	0.0734	9.9646	1.5825	14.1145	0.1564	10.3003	0.7085	936.65	89.80	963.33	88.04	1025.65	201.62	1025.65	201.62
5NAC99_1-336	0.0735	6.7675	1.7558	7.8676	0.1732	5.0638	0.5239	1029.73	48.19	1029.30	50.94	1026.57	136.92	1026.57	136.92
5NAC99_1-007	0.0737	10.0462	1.7917	11.2497	0.1764	5.7057	0.4532	1047.05	55.14	1042.45	73.44	1034.23	202.96	1034.23	202.96
5NAC99_1-031	0.0743	7.3746	1.9468	8.4865	0.1901	4.6002	0.4969	1121.90	47.37	1097.36	56.99	1049.57	148.65	1049.57	148.65
5NAC99_1-264	0.0743	9.5093	1.9173	13.0203	0.1869	9.3044	0.6838	1104.77	94.47	1087.14	87.10	1050.00	191.66	1050.00	191.66
5NAC99_1-162	0.0744	8.5034	1.9281	10.1650	0.1875	6.7525	0.5581	1107.92	68.74	1090.88	68.07	1052.36	171.33	1052.36	171.33
5NAC99_1-260	0.0745	7.5149	2.0266	9.7125	0.1970	6.7327	0.6361	1159.05	71.42	1124.47	66.13	1056.22	151.32	1056.22	151.32
5NAC99_1-103	0.0753	14.0634	1.8026	18.9641	0.1732	12.6100	0.6709	1029.53	120.00	1046.41	124.47	1077.85	282.26	1077.85	282.26
5NAC99_1-095	0.0757	9.4519	1.6992	10.3109	0.1626	4.6883	0.4029	971.14	42.27	1008.23	66.00	1086.13	189.47	1086.13	189.47

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC99.1, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.983860, LONGITUDE: -69.649930 ACCEPTED															
5NAC99_1-211	0.0757	11.7904	1.8314	14.1786	0.1753	6.2728	0.5699	1041.03	60.30	1056.79	93.38	1086.19	236.35	1086.19	236.35
5NAC99_1-008	0.0758	10.0713	1.9618	11.3555	0.1878	5.8688	0.4649	1109.22	59.81	1102.48	76.52	1090.65	201.75	1090.65	201.75
5NAC99_1-280	0.0760	6.9548	1.7938	7.4127	0.1710	3.8477	0.3749	1017.80	36.23	1043.21	48.36	1095.02	139.23	1095.02	139.23
5NAC99_1-351	0.0760	11.6959	2.0733	16.8691	0.1977	12.2005	0.7206	1162.81	129.83	1140.04	116.06	1095.11	234.14	1095.11	234.14
5NAC99_1-017	0.0767	9.2524	2.0604	12.3919	0.1950	8.6031	0.6658	1148.25	90.49	1135.74	84.91	1113.19	184.73	1113.19	184.73
5NAC99_1-294	0.0768	12.0585	1.8024	13.0920	0.1701	5.8497	0.3931	1012.45	54.81	1046.34	85.70	1116.10	240.65	1116.10	240.65
5NAC99_1-250	0.0773	13.1084	1.7350	14.7963	0.1625	5.3097	0.4792	970.74	47.85	1021.61	95.59	1130.07	261.06	1130.07	261.06
5NAC99_1-052	0.0777	12.6639	1.9495	15.5581	0.1820	8.9847	0.5809	1077.84	89.18	1098.28	104.79	1138.21	251.90	1138.21	251.90
5NAC99_1-396	0.0781	6.7301	1.7809	8.8914	0.1653	5.9097	0.6536	986.44	54.06	1038.49	57.88	1148.42	133.67	1148.42	133.67
5NAC99_1-364	0.0790	7.2713	2.1957	9.6601	0.2015	6.4883	0.6585	1183.17	70.14	1179.66	67.49	1171.46	143.93	1171.46	143.93
5NAC99_1-383	0.0797	9.7600	1.8585	12.7186	0.1690	8.2083	0.6412	1006.82	76.52	1066.47	84.16	1189.02	192.70	1189.02	192.70
5NAC99_1-216	0.0811	11.5547	2.1799	14.0674	0.1946	6.5434	0.5823	1146.02	68.70	1174.63	98.22	1224.65	226.96	1224.65	226.96
5NAC99_1-399	0.0813	8.9217	2.2509	12.6372	0.2006	9.0146	0.7082	1178.59	97.11	1197.07	89.07	1229.31	175.13	1229.31	175.13
5NAC99_1-126	0.0818	12.5222	2.1630	16.0383	0.1914	9.8408	0.6249	1128.91	101.92	1169.22	111.81	1240.10	245.42	1240.10	245.42
5NAC99_1-158	0.0819	11.1664	2.4477	13.7400	0.2161	9.9907	0.5970	1261.44	114.47	1256.76	99.36	1244.15	218.72	1244.15	218.72
5NAC99_1-344	0.0821	8.4352	2.2062	10.9035	0.1947	6.9865	0.6337	1146.72	73.40	1183.00	76.32	1248.16	165.13	1248.16	165.13
5NAC99_1-192	0.0823	14.8485	2.2570	17.2152	0.1986	7.7405	0.5095	1167.77	82.68	1198.96	121.71	1251.81	290.53	1251.81	290.53
5NAC99_1-388	0.0828	6.6459	2.5713	9.1830	0.2251	6.4281	0.6902	1308.92	76.15	1292.50	67.23	1263.84	129.81	1263.84	129.81
5NAC99_1-156	0.0833	14.0021	2.3352	17.1032	0.2028	11.4968	0.5814	1190.39	124.98	1223.07	122.18	1276.58	273.00	1276.58	273.00
5NAC99_1-221	0.0836	12.7778	2.3127	14.6883	0.2003	5.8967	0.5037	1176.78	63.43	1216.18	104.49	1283.87	248.87	1283.87	248.87
5NAC99_1-349	0.0843	7.9634	2.1009	10.0906	0.1806	6.2836	0.6142	1070.11	61.96	1149.09	69.53	1299.55	154.76	1299.55	154.76
5NAC99_1-180	0.0845	6.9946	2.5341	7.8742	0.2170	4.2478	0.4652	1266.26	48.84	1281.89	57.39	1304.03	135.85	1304.03	135.85
5NAC99_1-144	0.0847	13.5121	2.5587	18.4071	0.2185	12.8688	0.6794	1273.96	148.79	1288.93	135.18	1309.29	262.23	1309.29	262.23
5NAC99_1-214	0.0854	14.2359	2.4286	17.6372	0.2060	9.3190	0.5940	1207.52	102.63	1251.11	127.52	1323.82	275.72	1323.82	275.72
5NAC99_1-276	0.0883	14.5961	2.8816	23.6118	0.2365	18.9273	0.7862	1368.51	233.48	1377.12	179.84	1388.75	280.16	1388.75	280.16
5NAC99_1-088	0.0902	4.6373	2.7262	4.8280	0.2189	3.3597	0.4036	1276.10	38.90	1335.63	35.88	1429.34	88.52	1429.34	88.52
5NAC99_1-313	0.0925	11.1419	2.8220	16.3997	0.2211	12.6485	0.7347	1287.84	147.68	1361.41	123.56	1477.24	211.31	1477.24	211.31
5NAC99_1-267	0.0941	13.8343	3.2552	18.6253	0.2507	12.9158	0.6700	1441.83	166.90	1470.41	145.67	1510.11	261.23	1510.11	261.23
5NAC99_1-201	0.0945	14.0035	3.1771	16.0281	0.2434	6.8552	0.4905	1404.56	86.52	1451.61	124.40	1517.78	264.16	1517.78	264.16
5NAC99_1-355	0.0955	4.6134	3.3076	7.4162	0.2511	6.0174	0.7835	1443.97	77.85	1482.84	57.88	1537.17	86.80	1537.17	86.80
5NAC99_1-332	0.0958	9.2632	3.8116	11.2721	0.2882	7.1271	0.5729	1632.69	102.81	1595.21	90.91	1544.35	174.13	1544.35	174.13
5NAC99_1-302	0.0963	8.0151	3.9663	9.8558	0.2984	6.5233	0.5868	1683.28	96.65	1627.33	80.09	1554.12	150.48	1554.12	150.48
5NAC99_1-277	0.0979	9.5802	4.1127	11.6552	0.3043	7.6050	0.5748	1712.84	114.40	1656.83	95.48	1584.85	179.15	1584.85	179.15
5NAC99_1-176	0.1006	5.7616	4.0008	6.6657	0.2878	4.2981	0.5185	1630.63	61.93	1634.35	54.20	1635.09	107.05	1635.09	107.05
5NAC99_1-289	0.1020	10.0118	4.2819	13.6655	0.3041	9.7331	0.6813	1711.78	146.35	1689.88	112.95	1661.22	185.35	1661.22	185.35
5NAC99_1-366	0.1021	4.6262	4.0209	6.2913	0.2855	4.4533	0.6784	1618.84	63.75	1638.44	51.20	1662.03	85.64	1662.03	85.64
5NAC99_1-010	0.1027	10.6062	3.7610	13.1081	0.2657	8.2312	0.5889	1519.03	111.41	1584.47	105.52	1674.00	196.04	1674.00	196.04
5NAC99_1-297	0.1040	6.4085	3.4056	6.9417	0.2372	3.8298	0.4097	1372.20	47.34	1505.70	54.54	1697.34	118.10	1697.34	118.10
5NAC99_1-341	0.1051	4.3959	4.3463	5.1727	0.2996	3.8138	0.5570	1689.41	56.68	1702.19	42.72	1716.30	80.82	1716.30	80.82
5NAC99_1-081	0.1082	5.6263	3.9354	6.8980	0.2633	4.8421	0.5894	1506.94	65.07	1621.00	55.91	1769.86	102.76	1769.86	102.76
5NAC99_1-262	0.1086	8.5554	4.8915	11.4788	0.3263	8.1265	0.6679	1820.56	128.91	1800.79	97.07	1776.16	156.14	1776.16	156.14
5NAC99_1-397	0.1104	6.3797	4.6118	8.9406	0.3029	6.3558	0.7007	1705.59	95.26	1751.41	74.74	1805.32	115.99	1805.32	115.99
5NAC99_1-230	0.1151	13.6120	5.5218	15.7111	0.3476	6.5623	0.5073	1923.06	109.12	1904.00	135.87	1880.81	245.21	1880.81	245.21
5NAC99_1-209	0.1205	14.0951	5.0512	16.3420	0.3034	6.6620	0.5179	1708.04	99.97	1827.95	139.38	1964.38	251.48	1964.38	251.48
5NAC99_1-171	0.1228	9.8266	6.3791	12.0324	0.3760	7.7318	0.5804	2057.38	136.21	2029.40	106.00	1997.10	174.65	1997.10	174.65
5NAC99_1-356	0.1238	6.3664	6.2700	8.6458	0.3669	6.0589	0.6770	2014.79	104.85	2014.28	75.85	2012.13	112.95	2012.13	112.95
5NAC99_1-165	0.1252	11.5337	6.2472	11.5551	0.3611	5.9430	0.2608	1987.29	101.64	2011.08	101.48	2031.54	204.17	2031.54	204.17
5NAC99_1-174	0.1666	6.8392	8.7565	7.5337	0.3804	4.6418	0.4508	2078.30	82.47	2312.97	68.76	2523.46	114.85	2523.46	114.85
5NAC99_1-301	0.1701	5.8570	9.5658	6.3425	0.4074	3.9472	0.4295	2203.14	73.66	2393.89	58.37	2559.01	98.01	2559.01	98.01
5NAC99_1-035	0.2101	7.2351	12.9053	10.5078	0.4456	8.2568	0.7275	2375.72	164.11	2672.76	99.34	2906.17	117.27	2906.17	117.27

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC99.1, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.983860, LONGITUDE: -69.649930 REJECTED															
5NAC99_1-287	2.7182	795.0426	-0.5672	1113.2984	-0.0015	779.3260	0.7000	6.45E-06	5.02E-05	1.02E-06	1.13E-05	6.61E+03	1.13E+04	6.45E-06	5.02E-05
5NAC99_1-009	-0.4228	341.8850	-0.1153	439.9817	0.0020	276.9576	0.6294	12.74	35.26	0.00	0.00	0.00	8240.96	12.74	35.26
5NAC99_1-286	0.5544	151.9213	0.2181	160.8502	0.0029	52.9237	0.3285	18.35	9.70	200.30	300.90	4392.86	2220.65	18.35	9.70
5NAC99_1-040	0.3050	90.8218	0.1199	106.4519	0.0029	55.5818	0.5216	18.36	10.19	115.02	116.27	3495.81	1404.29	18.36	10.19
5NAC99_1-369	0.1222	108.1266	0.0562	112.2235	0.0033	30.0731	0.2677	21.47	6.45	55.56	60.75	1987.89	1923.90	21.47	6.45
5NAC99_1-089	0.0855	161.2260	0.0407	163.8430	0.0034	29.3292	0.1780	22.18	6.49	40.51	65.16	1327.17	3121.09	22.18	6.49
5NAC99_1-244	0.0246	248.9284	0.0120	249.5712	0.0035	16.6158	0.0719	22.75	3.77	12.13	30.11	0.00	6000.29	22.75	3.77
5NAC99_1-177	0.1639	62.4059	0.0814	66.6596	0.0036	23.5848	0.3515	23.14	5.45	79.51	51.02	2496.67	1050.80	23.14	5.45
5NAC99_1-194	0.0116	909.7317	0.0058	910.1614	0.0036	27.6769	0.0307	23.30	6.44	5.88	53.40	0.00	21928.62	23.30	6.44
5NAC99_1-326	0.0717	108.9966	0.0373	110.3617	0.0038	17.8759	0.1569	24.25	4.33	37.17	40.30	976.82	2221.94	24.25	4.33
5NAC99_1-213	0.2843	130.1454	0.1482	131.7843	0.0038	20.1649	0.1573	24.29	4.89	140.31	174.40	3386.65	2028.92	24.29	4.89
5NAC99_1-333	0.0794	49.8096	0.0425	52.5992	0.0039	17.1822	0.3214	24.97	4.28	42.27	21.78	1181.25	984.55	24.97	4.28
5NAC99_1-033	0.0193	530.8982	0.0104	531.4734	0.0039	24.7924	0.0465	25.24	6.25	10.55	55.81	0.00	12797.03	25.24	6.25
5NAC99_1-086	0.0677	108.8671	0.0370	110.5341	0.0040	19.3710	0.1730	25.49	4.93	36.90	40.08	858.25	2260.28	25.49	4.93
5NAC99_1-375	-0.4929	318.1596	-0.2703	328.6256	0.0040	82.2810	0.2504	25.57	21.00	0.00	0.00	0.00	7669.07	25.57	21.00
5NAC99_1-056	0.0908	135.9590	0.0498	139.7183	0.0040	32.1729	0.2304	25.57	8.21	49.31	67.35	1441.57	2590.92	25.57	8.21
5NAC99_1-097	0.0664	154.7908	0.0365	156.8198	0.0040	25.2438	0.1603	25.61	6.45	36.40	56.13	818.34	3233.87	25.61	6.45
5NAC99_1-247	0.1249	38.6287	0.0689	47.0904	0.0040	26.0958	0.5722	25.71	6.70	67.65	30.83	2027.23	684.14	25.71	6.70
5NAC99_1-062	0.1339	70.2794	0.0739	74.2376	0.0040	23.9160	0.3222	25.72	6.14	72.37	51.90	2149.89	1227.20	25.72	6.14
5NAC99_1-337	0.0762	107.8960	0.0425	109.3655	0.0040	18.1331	0.1634	25.99	4.70	42.23	45.27	1099.86	2158.45	25.99	4.70
5NAC99_1-202	0.0679	73.6311	0.0381	75.4446	0.0041	16.0172	0.2180	26.11	4.17	37.93	28.09	865.00	1527.11	26.11	4.17
5NAC99_1-167	0.0078	539.8832	0.0044	540.1234	0.0041	17.1519	0.0299	26.24	4.49	4.45	24.00	0.00	13013.61	26.24	4.49
5NAC99_1-006	0.3278	155.5780	0.1862	156.7847	0.0041	19.5921	0.1238	26.52	5.19	173.39	255.14	3606.72	2387.08	26.52	5.19
5NAC99_1-367	0.0415	133.5158	0.0236	134.6448	0.0041	17.4473	0.1292	26.54	4.62	23.70	31.55	0.00	3218.33	26.54	4.62
5NAC99_1-069	0.0451	27.1888	0.0258	33.6342	0.0041	19.8334	0.5887	26.67	5.28	25.85	8.59	0.00	655.37	26.67	5.28
5NAC99_1-335	0.0040	1810.8007	0.0023	1810.8722	0.0041	16.3798	0.0089	26.67	4.36	2.33	42.16	0.00	43648.43	26.67	4.36
5NAC99_1-358	0.1046	56.4759	0.0600	60.4211	0.0042	21.5329	0.3554	26.73	5.74	59.12	34.71	1706.76	1039.59	26.73	5.74
5NAC99_1-080	0.0506	22.6338	0.0291	29.7776	0.0042	19.5432	0.6498	26.79	5.22	29.13	8.55	223.50	523.34	26.79	5.22
5NAC99_1-324	0.0192	186.2818	0.0110	186.9977	0.0042	16.7126	0.0874	26.81	4.47	11.15	20.75	0.00	4490.23	26.81	4.47
5NAC99_1-263	0.1182	39.0049	0.0682	41.4558	0.0042	14.3062	0.3388	26.88	3.84	66.95	26.86	1929.13	698.72	26.88	3.84
5NAC99_1-215	0.0536	105.9555	0.0310	107.1922	0.0042	15.5574	0.1516	26.96	4.18	30.99	32.73	352.60	2393.84	26.96	4.18
5NAC99_1-380	0.0052	1691.5125	0.0030	1691.6119	0.0042	18.3546	0.0108	27.15	4.97	3.09	52.16	0.00	40773.05	27.15	4.97
5NAC99_1-256	0.0312	184.9985	0.0183	185.6765	0.0042	16.3414	0.0854	27.31	4.45	18.41	33.89	0.00	4459.29	27.31	4.45
5NAC99_1-398	0.0337	214.4868	0.0198	215.9520	0.0043	25.1365	0.1163	27.37	6.87	19.87	42.53	0.00	5170.09	27.37	6.87
5NAC99_1-043	0.0494	68.9851	0.0290	71.4816	0.0043	18.8840	0.2620	27.40	5.16	29.02	20.45	164.71	1612.41	27.40	5.16
5NAC99_1-108	0.0657	108.0122	0.0389	109.4212	0.0043	17.3600	0.1600	27.57	4.78	38.78	41.66	798.38	2263.71	27.57	4.78
5NAC99_1-016	0.0339	156.5992	0.0200	158.3015	0.0043	23.2832	0.1463	27.63	6.42	20.14	31.58	0.00	3774.74	27.63	6.42
5NAC99_1-382	0.0616	89.1696	0.0365	90.6564	0.0043	16.3780	0.1804	27.65	4.52	36.43	32.45	659.69	1911.27	27.65	4.52
5NAC99_1-255	0.0791	87.3751	0.0470	90.6005	0.0043	24.2845	0.2645	27.66	6.70	46.60	41.29	1175.50	1728.54	27.66	6.70
5NAC99_1-063	0.0428	154.8406	0.0256	155.7310	0.0043	16.6282	0.1068	27.90	4.63	25.69	39.52	0.00	3732.35	27.90	4.63
5NAC99_1-099	0.0499	45.5261	0.0301	48.0270	0.0044	15.4588	0.3185	28.12	4.34	30.14	14.26	189.77	1059.17	28.12	4.34
5NAC99_1-164	0.0844	60.5484	0.0512	62.1578	0.0044	15.2413	0.2268	28.23	4.29	50.71	30.75	1302.06	1176.27	28.23	4.29
5NAC99_1-178	0.0734	162.2281	0.0446	165.0259	0.0044	30.3777	0.1834	28.28	8.57	44.28	71.63	1024.48	3283.07	28.28	8.57
5NAC99_1-024	0.1724	61.2246	0.1049	64.5098	0.0044	20.4752	0.3151	28.41	5.80	101.31	62.28	2580.69	1022.32	28.41	5.80
5NAC99_1-245	0.0400	111.1073	0.0244	112.6661	0.0044	17.4494	0.1662	28.50	4.96	24.52	27.30	0.00	2678.18	28.50	4.96
5NAC99_1-182	0.1149	69.0428	0.0707	71.6010	0.0045	19.0990	0.2649	28.64	5.46	69.35	48.03	1878.14	1244.13	28.64	5.46
5NAC99_1-168	0.1078	81.1252	0.0667	83.8768	0.0045	22.1099	0.2542	28.81	6.36	65.56	53.30	1761.98	1483.17	28.81	6.36
5NAC99_1-092	0.0782	20.8799	0.0489	26.6762	0.0045	16.7390	0.6224	29.08	4.86	48.44	12.62	1153.18	414.42	29.08	4.86
5NAC99_1-251	-0.0166	527.4041	-0.0104	527.8893	0.0045	22.2082	0.0429	29.12	6.45	0.00	0.00	0.00	12712.81	29.12	6.45
5NAC99_1-109	-0.2312	172.8040	-0.1447	173.4978	0.0045	15.3383	0.0893	29.13	4.46	0.00	0.00	0.00	4165.35	29.13	4.46

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC99.1, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.983860, LONGITUDE: -69.649930 REJECTED															
5NAC99_1-347	0.2668	124.2561	0.1699	138.8648	0.0046	62.0075	0.4465	29.66	18.35	159.29	207.56	3287.60	1951.03	29.66	18.35
5NAC99_1-309	0.0862	44.9229	0.0550	47.8268	0.0046	17.0309	0.3434	29.74	5.05	54.37	25.33	1343.02	867.72	29.74	5.05
5NAC99_1-269	0.0404	168.6597	0.0260	169.4705	0.0047	16.8951	0.0977	29.96	5.05	26.03	43.57	0.00	4065.46	29.96	5.05
5NAC99_1-070	0.2632	55.9420	0.1699	58.9044	0.0047	18.4812	0.3131	30.08	5.55	159.36	87.09	3266.04	880.24	30.08	5.55
5NAC99_1-340	0.0475	60.3880	0.0307	62.2073	0.0047	15.1706	0.2401	30.11	4.56	30.67	18.80	72.86	1435.71	30.11	4.56
5NAC99_1-121	0.1282	81.0533	0.0833	83.9730	0.0047	21.9195	0.2614	30.24	6.61	81.25	65.66	2073.56	1427.77	30.24	6.61
5NAC99_1-106	-0.0939	343.3303	-0.0611	343.7415	0.0047	16.6584	0.0489	30.28	5.03	0.00	0.00	0.00	8275.80	30.28	5.03
5NAC99_1-181	0.0312	179.5874	0.0203	180.2087	0.0047	15.1162	0.0830	30.32	4.57	20.44	36.48	0.00	4328.86	30.32	4.57
5NAC99_1-357	0.1088	62.9098	0.0723	65.3161	0.0048	17.6365	0.2689	30.99	5.45	70.91	44.76	1778.91	1147.77	30.99	5.45
5NAC99_1-391	0.0161	720.3212	0.0107	720.7973	0.0048	26.2161	0.0363	31.05	8.12	10.85	77.95	0.00	17362.97	31.05	8.12
5NAC99_1-132	0.0328	280.4731	0.0223	281.2590	0.0049	20.9695	0.0747	31.66	6.62	22.41	62.41	0.00	6760.66	31.66	6.62
5NAC99_1-237	0.0184	393.3700	0.0125	393.8196	0.0049	18.1332	0.0478	31.68	5.73	12.65	49.55	0.00	9481.98	31.68	5.73
5NAC99_1-020	0.0915	51.0690	0.0624	55.1109	0.0049	20.8647	0.3759	31.81	6.62	61.42	32.86	1456.64	971.23	31.81	6.62
5NAC99_1-030	0.6536	129.7558	0.4526	134.3522	0.0050	34.8924	0.2593	32.31	11.24	379.12	452.90	4631.97	1876.83	32.31	11.24
5NAC99_1-064	0.0773	127.4781	0.0542	129.4428	0.0051	22.4969	0.1736	32.65	7.33	53.59	67.67	1129.78	2538.89	32.65	7.33
5NAC99_1-346	0.2249	81.2599	0.1606	88.7627	0.0052	35.7313	0.4024	33.28	11.86	151.24	125.35	3015.85	1304.38	33.28	11.86
5NAC99_1-381	-0.1052	149.6980	-0.0752	154.0435	0.0052	36.3425	0.2358	33.32	12.08	0.00	0.00	0.00	3608.39	33.32	12.08
5NAC99_1-322	0.0592	160.0298	0.0428	161.3256	0.0052	20.6995	0.1265	33.66	6.95	42.53	67.29	574.44	3479.38	33.66	6.95
5NAC99_1-232	0.1651	35.5524	0.1236	37.5775	0.0054	11.3846	0.3246	34.88	3.96	118.37	42.01	2508.33	597.93	34.88	3.96
5NAC99_1-042	0.1990	44.3569	0.1626	48.2612	0.0059	19.1713	0.3940	38.08	7.28	152.94	68.62	2817.72	724.47	38.08	7.28
5NAC99_1-154	0.3377	61.7103	0.2848	70.1800	0.0061	33.9528	0.4763	39.23	13.28	254.49	159.27	3652.18	943.58	39.23	13.28
5NAC99_1-325	0.2169	47.4689	0.1867	51.8400	0.0062	21.3116	0.4020	40.08	8.52	173.82	83.00	2957.94	765.57	40.08	8.52
5NAC99_1-018	0.3287	33.8539	0.2835	41.4428	0.0063	24.0309	0.5768	40.22	9.63	253.41	93.20	3611.18	519.29	40.22	9.63
5NAC99_1-204	0.2583	38.2428	0.2257	43.2221	0.0063	19.7947	0.4660	40.66	8.02	206.68	81.00	3236.42	602.99	40.66	8.02
5NAC99_1-087	0.2772	133.7522	0.2437	153.0749	0.0064	74.5101	0.4863	40.90	30.38	221.41	314.18	3347.15	2090.47	40.90	30.38
5NAC99_1-021	0.2004	29.8463	0.1789	31.9642	0.0065	11.7080	0.3580	41.63	4.86	167.09	49.29	2829.08	486.98	41.63	4.86
5NAC99_1-075	0.2718	29.6925	0.2602	31.5614	0.0069	10.7816	0.3390	44.55	4.79	234.82	66.26	3316.43	465.32	44.55	4.79
5NAC99_1-271	0.3711	24.0339	0.3666	28.6669	0.0072	15.8700	0.5451	45.98	7.27	317.10	78.23	3795.84	364.11	45.98	7.27
5NAC99_1-354	0.1707	73.0830	0.1849	76.8481	0.0078	23.7820	0.3092	50.40	11.94	172.25	122.34	2564.46	1222.28	50.40	11.94
5NAC99_1-305	0.4489	50.5856	0.4932	61.0935	0.0080	34.5576	0.5607	51.12	17.60	407.09	207.75	4081.59	752.41	51.12	17.60
5NAC99_1-370	0.3982	28.0704	0.4442	32.7975	0.0081	16.9842	0.5172	51.89	8.78	373.20	102.77	3902.40	422.12	51.89	8.78
5NAC99_1-013	-0.1022	517.0129	-0.1178	520.7285	0.0084	62.0422	0.1192	53.68	33.17	0.00	0.00	0.00	12462.33	53.68	33.17
5NAC99_1-374	0.1011	97.0936	0.1196	102.0613	0.0086	31.4678	0.3082	55.04	17.25	114.71	111.14	1643.86	1801.45	55.04	17.25
5NAC99_1-295	0.4479	19.2541	0.5598	22.9034	0.0091	12.7042	0.5417	58.12	7.35	451.41	83.65	4078.24	286.44	58.12	7.35
5NAC99_1-142	0.5260	19.6411	0.6933	24.0262	0.0095	14.1720	0.5761	61.18	8.63	534.76	100.21	4315.85	288.28	61.18	8.63
5NAC99_1-390	0.4369	26.5692	0.5756	31.9107	0.0095	17.7068	0.5539	61.25	10.79	461.65	118.91	4041.36	396.29	61.25	10.79
5NAC99_1-222	0.1097	67.4017	0.1504	75.9749	0.0099	34.8066	0.4615	63.71	22.07	142.26	101.19	1793.74	1227.51	63.71	22.07
5NAC99_1-111	0.4249	37.0378	0.6678	44.7062	0.0114	24.9061	0.5600	72.91	18.06	519.35	183.73	3999.56	553.65	72.91	18.06
5NAC99_1-179	0.4289	33.7623	0.6749	40.4097	0.0114	22.3670	0.5495	73.00	16.24	523.72	166.83	4013.64	504.31	73.00	16.24
5NAC99_1-206	0.0720	58.3394	0.1235	60.7825	0.0124	16.3409	0.2809	79.54	12.92	118.22	67.93	986.02	1187.35	79.54	12.92
5NAC99_1-044	0.0342	110.8484	0.0587	112.6043	0.0124	19.7908	0.1759	79.69	15.67	57.93	63.49	0.00	2671.94	79.69	15.67
5NAC99_1-067	0.0678	22.4866	0.1370	30.2380	0.0146	20.2492	0.6686	93.66	18.83	130.38	37.01	863.55	466.48	93.66	18.83
5NAC99_1-011	0.0263	239.1572	0.0554	241.5934	0.0153	34.4779	0.1417	97.70	33.43	54.71	129.36	0.00	5764.76	97.70	33.43
5NAC99_1-275	0.2659	28.5995	0.5735	31.8889	0.0156	14.5858	0.4426	99.97	14.47	460.26	118.55	3281.86	449.24	99.97	14.47
5NAC99_1-184	0.1394	79.4126	0.3016	82.1567	0.0157	21.1739	0.2563	100.17	21.05	267.67	195.70	2219.84	1376.11	100.17	21.05
5NAC99_1-082	0.0795	50.9772	0.1779	53.6206	0.0162	16.8525	0.3101	103.66	17.33	166.25	82.41	1184.09	1007.22	103.66	17.33
5NAC99_1-290	0.0553	63.1253	0.1327	70.2959	0.0174	31.0634	0.4400	111.14	34.23	126.54	83.82	424.63	1408.10	111.14	34.23
5NAC99_1-217	0.0511	92.2398	0.1237	94.5619	0.0175	20.3028	0.2203	112.01	22.55	118.44	106.10	245.96	2124.03	112.01	22.55
5NAC99_1-098	0.1564	17.6280	0.3834	18.4178	0.0178	5.7855	0.2906	113.42	6.50	329.57	51.88	2416.89	299.26	113.42	6.50
5NAC99_1-004	0.2315	19.2832	0.5767	20.7979	0.0181	8.2241	0.3752	115.49	9.41	462.36	77.39	3062.77	308.39	115.49	9.41

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC99.1, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.983860, LONGITUDE: -69.649930 REJECTED															
5NAC99_1-157	0.2365	19.6259	0.7066	22.6254	0.0216	12.7454	0.5014	137.86	17.38	542.70	95.40	3096.64	312.85	137.86	17.38
5NAC99_1-146	0.0433	21.4680	0.1293	27.9986	0.0216	18.5061	0.6422	137.90	25.25	123.48	32.56	0.00	517.48	137.90	25.25
5NAC99_1-047	0.0794	55.5926	0.2492	61.6311	0.0227	26.5925	0.4317	144.95	38.12	225.89	125.45	1183.35	1098.53	144.95	38.12
5NAC99_1-207	0.0921	67.1686	0.3093	72.3164	0.0243	26.3443	0.3706	154.94	40.33	273.65	175.19	1468.64	1275.33	154.94	40.33
5NAC99_1-048	0.3401	33.7874	1.1547	37.0512	0.0246	15.1826	0.4104	156.76	23.51	779.47	204.33	3663.38	516.27	156.76	23.51
5NAC99_1-359	0.1561	24.5938	0.5539	31.3142	0.0257	19.4478	0.6190	163.68	31.43	447.56	113.82	2413.58	417.66	163.68	31.43
5NAC99_1-045	0.0595	26.3541	0.2235	31.6226	0.0272	17.4574	0.5527	173.29	29.85	204.79	58.71	584.52	572.02	173.29	29.85
5NAC99_1-387	0.3091	18.2126	1.5114	20.6985	0.0354	9.8940	0.4752	224.50	21.83	935.02	127.14	3516.32	281.23	224.50	21.83
5NAC99_1-197	0.1536	24.9668	1.0610	31.2145	0.0500	18.3040	0.6004	314.50	56.19	734.34	164.59	2386.75	425.19	314.50	56.19
5NAC99_1-118	0.1645	12.9000	1.1460	15.0096	0.0504	7.2352	0.5121	317.05	22.38	775.34	81.56	2502.47	217.08	317.05	22.38
5NAC99_1-334	0.2756	12.0906	2.2573	13.2134	0.0593	6.1605	0.4076	371.67	22.25	1199.06	93.24	3338.17	189.08	371.67	22.25
5NAC99_1-124	0.1469	32.4726	1.2918	39.6370	0.0636	22.6504	0.5734	397.71	87.37	842.10	230.75	2309.99	557.44	397.71	87.37
5NAC99_1-321	0.0837	9.6363	0.8834	9.9152	0.0765	4.1856	0.2768	475.16	19.17	642.80	47.26	1285.19	187.65	475.16	19.17
5NAC99_1-169	0.1153	42.8467	1.2926	46.0289	0.0812	17.8225	0.3660	503.03	86.25	842.45	269.68	1883.82	771.57	503.03	86.25
5NAC99_1-239	0.0551	29.4798	0.7453	32.4145	0.0979	12.5094	0.4169	602.26	71.93	565.51	141.46	417.54	658.41	602.26	71.93
5NAC99_1-148	0.0575	10.5421	0.7808	11.1050	0.0982	5.6231	0.3507	603.94	32.42	585.96	49.48	511.62	231.68	603.94	32.42
5NAC99_1-205	0.1048	17.3804	1.4264	18.6332	0.0985	4.5943	0.3868	605.65	26.56	900.05	111.67	1711.44	319.75	605.65	26.56
5NAC99_1-161	0.0808	16.7570	1.1120	18.0970	0.0996	7.8283	0.3811	612.00	45.71	759.14	97.04	1216.46	329.54	612.00	45.71
5NAC99_1-279	0.0551	7.9208	0.7670	8.7094	0.1008	5.1853	0.4429	619.26	30.62	578.04	38.40	417.17	176.92	619.26	30.62
5NAC99_1-173	0.0575	11.3609	0.8078	14.0502	0.1016	8.9389	0.5902	623.88	53.16	601.20	63.83	511.69	249.67	623.88	53.16
5NAC99_1-241	0.0560	12.1800	0.7932	13.8730	0.1027	4.3538	0.5220	630.06	26.13	592.96	62.39	450.74	270.45	630.06	26.13
5NAC99_1-368	0.0841	20.2131	1.2181	22.5929	0.1049	10.1747	0.4468	643.35	62.30	808.89	126.63	1294.90	393.07	643.35	62.30
5NAC99_1-151	0.0904	27.3132	1.3375	34.4807	0.1070	21.5022	0.6105	655.41	134.02	862.15	202.99	1434.59	520.99	655.41	134.02
5NAC99_1-037	0.2885	8.0666	4.3497	9.4781	0.1094	5.9052	0.5328	669.14	37.53	1702.84	78.41	3409.30	125.50	669.14	37.53
5NAC99_1-186	0.2318	26.0283	3.6157	33.4334	0.1129	21.1018	0.6276	689.71	138.05	1553.00	272.27	3064.18	416.21	689.71	138.05
5NAC99_1-203	0.0623	23.1709	1.0179	29.3387	0.1184	17.6084	0.6135	721.13	120.15	712.86	151.38	683.07	494.74	721.13	120.15
5NAC99_1-128	0.6848	22.4666	11.3751	29.8865	0.1202	19.6183	0.6595	731.71	135.72	2554.38	286.29	4699.04	324.16	731.71	135.72
5NAC99_1-300	0.0927	15.7309	1.5422	18.2449	0.1205	9.7505	0.5073	733.53	67.61	947.39	112.85	1482.43	298.14	733.53	67.61
5NAC99_1-172	0.0806	9.0811	1.3855	9.8695	0.1244	5.1483	0.4078	756.11	36.73	882.78	58.27	1210.88	178.73	756.11	36.73
5NAC99_1-329	0.0663	9.0951	1.5318	9.7854	0.1675	5.7554	0.4098	998.33	53.23	943.22	60.19	814.81	190.12	814.81	190.12
5NAC99_1-282	0.0676	9.9308	1.4843	12.8207	0.1590	8.6009	0.6336	951.34	76.08	923.99	77.93	857.42	206.21	857.42	206.21
5NAC99_1-360	0.0685	12.2711	1.5740	16.8842	0.1665	11.6378	0.6869	993.00	107.11	960.01	105.21	883.30	253.79	883.30	253.79
5NAC99_1-310	0.0690	15.4955	1.6229	19.9491	0.1704	13.1541	0.6305	1014.49	123.49	979.12	125.97	898.83	319.71	898.83	319.71
5NAC99_1-116	0.0694	24.2093	1.6705	32.8800	0.1741	22.1015	0.6767	1034.81	211.37	997.36	211.86	911.37	498.53	911.37	498.53
5NAC99_1-218	0.0720	12.2060	1.8240	15.0859	0.1835	7.5521	0.5952	1086.17	75.49	1054.11	99.25	985.13	248.45	985.13	248.45
5NAC99_1-187	0.0738	22.7043	1.8727	26.4260	0.1836	13.7044	0.5117	1086.54	137.05	1071.49	176.68	1036.88	458.51	1036.88	458.51
5NAC99_1-231	0.0743	16.6214	1.7543	20.6887	0.1710	11.5440	0.5967	1017.70	108.69	1028.74	134.58	1049.57	335.03	1049.57	335.03
5NAC99_1-190	0.0759	18.3553	1.9373	23.0810	0.1847	13.4107	0.6068	1092.34	134.77	1094.07	155.78	1093.52	367.54	1093.52	367.54
5NAC99_1-115	0.0769	11.5825	1.4939	13.6799	0.1405	6.8157	0.5333	847.57	54.13	927.90	83.39	1119.60	231.03	1119.60	231.03
5NAC99_1-170	0.0776	13.2658	2.3221	17.3109	0.2166	11.6297	0.6431	1263.80	133.49	1219.05	123.47	1136.21	263.96	1136.21	263.96
5NAC99_1-153	0.0786	19.8465	1.8641	20.9109	0.1717	7.9256	0.3204	1021.24	74.86	1068.44	139.05	1161.37	393.44	1161.37	393.44
5NAC99_1-315	0.0791	20.9912	1.7134	24.9701	0.1570	14.4954	0.5429	939.95	126.80	1013.57	161.45	1174.53	415.33	1174.53	415.33
5NAC99_1-353	0.0795	17.3359	1.6345	22.4521	0.1489	14.3053	0.6355	894.76	119.53	983.59	142.37	1185.71	342.44	1185.71	342.44
5NAC99_1-208	0.0801	15.5257	2.2542	19.7008	0.2038	11.0935	0.6180	1195.72	121.09	1198.11	139.44	1199.04	306.09	1199.04	306.09
5NAC99_1-270	0.0822	44.0028	2.0066	45.6485	0.1769	12.4592	0.2662	1050.25	120.76	1117.75	319.49	1249.59	861.23	1249.59	861.23
5NAC99_1-210	0.0856	15.1262	2.6259	21.9811	0.2221	15.2216	0.7264	1293.19	178.40	1307.91	163.02	1328.85	292.75	1328.85	292.75
5NAC99_1-096	0.0869	7.4605	2.0270	9.1224	0.1689	5.7064	0.5775	1005.87	53.15	1124.59	62.10	1358.19	143.80	1358.19	143.80
5NAC99_1-012	0.0881	21.7043	2.2597	26.0378	0.1862	14.9798	0.5529	1100.53	151.58	1199.80	185.31	1384.58	416.83	1384.58	416.83
5NAC99_1-140	0.0886	8.5187	2.2376	9.4284	0.1828	5.0682	0.4396	1082.31	50.50	1192.91	66.26	1394.69	163.37	1394.69	163.37
5NAC99_1-119	0.0904	15.4748	2.6647	17.9993	0.2133	8.8302	0.5111	1246.38	100.08	1318.72	133.66	1434.04	295.20	1434.04	295.20

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC99.1, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.983860, LONGITUDE: -69.649930 REJECTED															
5NAC99_1-123	0.0918	15.3965	3.1295	23.2485	0.2467	17.3799	0.7493	1421.38	221.78	1439.96	180.78	1463.14	292.55	1463.14	292.55
5NAC99_1-225	0.0929	15.2181	3.1140	16.9715	0.2427	5.9602	0.4546	1400.92	75.05	1436.15	131.16	1485.99	288.28	1485.99	288.28
5NAC99_1-189	0.0939	9.3668	2.4981	10.6257	0.1925	5.4895	0.4741	1135.13	57.14	1271.49	77.20	1506.31	176.96	1506.31	176.96
5NAC99_1-147	0.0942	22.7779	3.5533	28.7245	0.2728	18.0472	0.6095	1554.95	249.47	1539.16	231.54	1513.01	429.95	1513.01	429.95
5NAC99_1-101	0.1110	59.2722	2.6622	61.4536	0.1737	16.1401	0.2641	1032.35	153.99	1318.02	488.00	1815.08	1076.45	1815.08	1076.45
5NAC99_1-246	0.1165	17.5754	4.4711	22.0826	0.2781	11.5932	0.6116	1581.60	162.63	1725.62	185.27	1902.96	315.79	1902.96	315.79
5NAC99_1-136	0.1222	10.8070	4.3947	14.0241	0.2602	9.4469	0.6383	1490.91	125.76	1711.34	116.51	1988.58	192.27	1988.58	192.27
5NAC99_1-025	0.1653	5.5725	7.5460	7.6364	0.3313	5.7822	0.6873	1844.59	92.76	2178.47	68.57	2510.41	93.70	2510.41	93.70
5NAC658, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.981120, LONGITUDE: -69.644530 ACCEPTED															
5NAC658-315	0.0435	41.6895	0.0223	42.5873	0.0037	8.7731	0.2043	23.92	2.09	22.41	9.44	0.00	1004.90	23.92	2.09
5NAC658-314	0.0600	43.2492	0.0311	44.2348	0.0038	9.3552	0.2099	24.14	2.25	31.09	13.54	604.55	935.56	24.14	2.25
5NAC658-124	0.0445	95.3221	0.0235	96.1797	0.0038	12.9273	0.1332	24.61	3.17	23.57	22.41	0.00	2297.69	24.61	3.17
5NAC658-206	0.0243	139.8243	0.0131	140.0935	0.0039	8.7096	0.0620	25.19	2.19	13.24	18.44	0.00	3370.39	25.19	2.19
5NAC658-236	0.0639	66.4202	0.0348	68.0001	0.0040	14.5748	0.2143	25.42	3.70	34.76	23.24	737.18	1405.73	25.42	3.70
5NAC658-068	0.0642	88.7759	0.0354	89.7705	0.0040	13.4502	0.1485	25.68	3.45	35.32	31.17	749.84	1875.04	25.68	3.45
5NAC658-175	0.1367	52.8002	0.0764	54.6977	0.0040	14.2628	0.2611	26.04	3.71	74.72	39.42	2186.20	918.21	26.04	3.71
5NAC658-050	0.0548	48.9325	0.0311	50.2848	0.0041	11.5827	0.2304	26.40	3.05	31.06	15.38	405.65	1095.16	26.40	3.05
5NAC658-177	0.0809	53.7163	0.0459	54.8908	0.0041	11.2694	0.2058	26.42	2.97	45.52	24.44	1219.09	1055.96	26.42	2.97
5NAC658-322	0.0465	101.5981	0.0265	102.5499	0.0041	13.9498	0.1359	26.58	3.70	26.60	26.93	26.06	2436.86	26.58	3.70
5NAC658-108	0.0661	52.8028	0.0379	53.6317	0.0041	9.5189	0.1751	26.70	2.54	37.73	19.87	809.91	1104.62	26.70	2.54
5NAC658-241	0.1272	47.7538	0.0735	49.0544	0.0042	11.2240	0.2287	26.94	3.02	72.01	34.11	2058.99	842.62	26.94	3.02
5NAC658-396	0.0455	19.6751	0.0265	20.4517	0.0042	5.6138	0.2730	27.11	1.52	26.52	5.35	0.00	474.26	27.11	1.52
5NAC658-356	0.0688	51.1569	0.0401	52.0327	0.0042	9.5056	0.1827	27.14	2.57	39.90	20.36	893.81	1056.29	27.14	2.57
5NAC658-263	0.0412	102.8522	0.0244	103.7853	0.0043	13.9086	0.1338	27.58	3.83	24.47	25.09	0.00	2479.20	27.58	3.83
5NAC658-162	0.0504	81.7027	0.0301	82.9613	0.0043	14.3860	0.1735	27.85	4.00	30.14	24.64	214.89	1892.13	27.85	4.00
5NAC658-299	0.0423	119.8089	0.0254	120.6404	0.0043	14.1438	0.1172	27.94	3.94	25.42	30.29	0.00	2887.93	27.94	3.94
5NAC658-217	0.0101	526.7095	0.0061	526.8493	0.0044	12.1159	0.0230	27.99	3.38	6.13	32.22	0.00	12696.06	27.99	3.38
5NAC658-378	0.0529	81.7324	0.0318	82.9739	0.0044	14.3051	0.1723	28.03	4.00	31.78	25.96	322.62	1856.10	28.03	4.00
5NAC658-327	0.0560	89.8961	0.0340	91.0499	0.0044	14.4319	0.1587	28.30	4.07	33.98	30.44	454.33	1994.85	28.30	4.07
5NAC658-123	0.0850	73.6439	0.0518	75.0006	0.0044	14.2936	0.1894	28.41	4.05	51.28	37.52	1315.58	1427.95	28.41	4.05
5NAC658-046	0.0776	68.6295	0.0474	69.8041	0.0044	12.7556	0.1827	28.43	3.62	46.99	32.06	1137.76	1365.24	28.43	3.62
5NAC658-383	0.0529	68.9877	0.0326	69.6044	0.0045	9.2540	0.1328	28.74	2.65	32.59	22.33	324.15	1566.24	28.74	2.65
5NAC658-321	0.0814	62.6325	0.0505	63.8179	0.0045	12.2550	0.1918	28.93	3.54	50.04	31.17	1230.23	1229.26	28.93	3.54
5NAC658-269	0.0496	67.7136	0.0309	68.5021	0.0045	10.3788	0.1513	29.02	3.00	30.87	20.83	175.28	1579.59	29.02	3.00
5NAC658-264	0.0570	102.4316	0.0355	103.2736	0.0045	13.1841	0.1274	29.05	3.82	35.42	35.96	489.63	2259.64	29.05	3.82
5NAC658-029	0.0693	59.3918	0.0432	60.1192	0.0045	9.3911	0.1551	29.09	2.73	42.99	25.31	907.05	1223.84	29.09	2.73
5NAC658-373	0.0072	506.5475	0.0045	506.6548	0.0045	10.4332	0.0206	29.16	3.04	4.59	23.22	0.00	12210.07	29.16	3.04
5NAC658-134	0.0827	35.8494	0.0519	36.9426	0.0046	8.9602	0.2415	29.29	2.62	51.41	18.52	1260.97	700.51	29.29	2.62
5NAC658-181	0.0707	67.0049	0.0445	68.1538	0.0046	12.4433	0.1828	29.38	3.65	44.25	29.52	947.98	1371.83	29.38	3.65
5NAC658-363	0.0699	47.1592	0.0441	48.1748	0.0046	9.8647	0.2042	29.41	2.89	43.82	20.66	924.62	968.94	29.41	2.89
5NAC658-163	0.0924	37.8853	0.0584	40.4149	0.0046	14.0634	0.3482	29.46	4.13	57.62	22.64	1475.07	718.72	29.46	4.13
5NAC658-331	0.0438	103.5723	0.0279	104.4774	0.0046	13.7115	0.1313	29.60	4.05	27.89	28.75	0.00	2496.56	29.60	4.05
5NAC658-178	0.0468	87.7429	0.0301	88.5010	0.0047	11.5350	0.1306	30.00	3.45	30.13	26.28	38.97	2099.44	30.00	3.45
5NAC658-230	0.0670	60.4087	0.0435	61.9609	0.0047	13.7821	0.2224	30.26	4.16	43.21	26.22	836.38	1258.48	30.26	4.16
5NAC658-388	0.0466	59.5435	0.0304	61.1786	0.0047	14.0662	0.2297	30.38	4.26	30.41	18.33	30.76	1426.89	30.38	4.26
5NAC658-325	0.0432	119.8181	0.0282	120.2347	0.0047	9.9753	0.0832	30.43	3.03	28.27	33.53	0.00	2888.15	30.43	3.03
5NAC658-081	0.0618	50.9933	0.0406	51.9074	0.0048	9.7081	0.1868	30.60	2.96	40.39	20.55	666.66	1091.73	30.60	2.96
5NAC658-286	0.0519	74.0223	0.0342	74.6005	0.0048	9.3007	0.1243	30.73	2.85	34.18	25.08	281.70	1693.48	30.73	2.85
5NAC658-328	0.0336	102.6032	0.0229	103.4700	0.0049	13.3460	0.1292	31.77	4.23	23.03	23.56	0.00	2473.20	31.77	4.23

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC658, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.981120, LONGITUDE: -69.644530 ACCEPTED															
5NAC658-089	0.0312	215.3377	0.0213	215.7835	0.0049	13.8361	0.0642	31.79	4.39	21.39	45.71	0.00	5190.61	31.79	4.39
5NAC658-016	0.1139	60.3873	0.0804	62.1002	0.0051	14.5104	0.2332	32.89	4.76	78.54	46.97	1862.86	1090.10	32.89	4.76
5NAC658-376	0.0408	39.5504	0.0289	39.9469	0.0051	5.6294	0.1406	33.00	1.85	28.92	11.39	0.00	953.34	33.00	1.85
5NAC658-297	0.0619	43.1471	0.0445	43.6936	0.0052	6.8967	0.1577	33.45	2.30	44.18	18.89	671.53	923.01	33.45	2.30
5NAC658-358	0.0406	66.6104	0.0301	67.1933	0.0054	8.8303	0.1314	34.52	3.04	30.13	19.95	0.00	1605.61	34.52	3.04
5NAC658-023	0.0664	74.8662	0.0514	75.9354	0.0056	12.7210	0.1672	36.05	4.57	50.87	37.69	818.56	1564.04	36.05	4.57
5NAC658-336	0.0836	54.8818	0.0690	56.0515	0.0060	11.3728	0.2032	38.41	4.35	67.74	36.74	1284.26	1068.87	38.41	4.35
5NAC658-146	0.0527	150.4704	0.0644	151.1115	0.0089	13.9389	0.0920	56.82	7.89	63.32	93.03	314.74	3421.95	56.82	7.89
5NAC658-284	0.0492	76.5615	0.0608	77.7859	0.0090	13.7678	0.1767	57.46	7.88	59.95	45.31	158.21	1791.61	57.46	7.88
5NAC658-275	0.0653	50.5180	0.0931	51.3718	0.0103	9.3744	0.1816	66.24	6.18	90.39	44.46	784.37	1061.11	66.24	6.18
5NAC658-307	0.0535	27.3525	0.0840	28.5342	0.0114	8.1719	0.2848	72.92	5.93	81.88	22.45	349.39	618.33	72.92	5.93
5NAC658-330	0.0668	25.0488	0.1070	26.1095	0.0116	7.3466	0.2821	74.44	5.44	103.23	25.63	830.23	522.34	74.44	5.44
5NAC658-009	0.0481	22.5594	0.0815	25.7862	0.0123	12.5031	0.4844	78.63	9.77	79.53	19.73	104.33	533.21	78.63	9.77
5NAC658-180	0.0488	45.3958	0.0827	46.2176	0.0123	8.6512	0.1877	78.70	6.77	80.66	35.85	136.93	1066.49	78.70	6.77
5NAC658-250	0.0494	15.8035	0.0846	19.6532	0.0124	11.7341	0.5945	79.52	9.27	82.43	15.56	165.57	369.32	79.52	9.27
5NAC658-323	0.0513	24.8767	0.0940	25.3347	0.0133	4.8252	0.1893	85.00	4.07	91.21	22.10	254.49	571.95	85.00	4.07
5NAC658-002	0.0759	30.4404	0.1486	31.4524	0.0142	7.9347	0.2516	90.74	7.15	140.65	41.33	1093.51	609.53	90.74	7.15
5NAC658-157	0.0536	17.9243	0.1068	18.4665	0.0144	4.4291	0.2405	92.46	4.07	103.00	18.09	352.34	404.98	92.46	4.07
5NAC658-377	0.0502	9.3797	0.1046	10.1287	0.0151	3.8438	0.3774	96.52	3.68	101.03	9.74	206.56	217.55	96.52	3.68
5NAC658-233	0.0680	31.6885	0.1423	32.9984	0.0152	9.2058	0.2790	97.01	8.86	135.10	41.77	868.86	656.83	97.01	8.86
5NAC658-262	0.0296	132.6021	0.0633	133.2953	0.0155	13.5994	0.1019	99.12	13.38	62.36	80.80	0.00	3196.31	99.12	13.38
5NAC658-004	0.0513	13.3845	0.1107	15.3338	0.0156	7.5039	0.4880	99.89	7.44	106.57	15.51	256.36	307.62	99.89	7.44
5NAC658-028	0.0750	26.4755	0.2265	27.1416	0.0219	6.0807	0.2202	139.62	8.40	207.32	50.94	1067.45	532.21	139.62	8.40
5NAC658-066	0.0521	23.9326	0.1647	26.9076	0.0229	12.4328	0.4571	146.06	17.96	154.82	38.66	288.85	546.82	146.06	17.96
5NAC658-161	0.0482	19.4408	0.1545	20.8534	0.0232	7.5254	0.3618	147.99	11.01	145.88	28.34	109.80	459.02	147.99	11.01
5NAC658-351	0.0599	13.3627	0.2008	14.6538	0.0243	6.0003	0.4104	154.70	9.17	185.79	24.89	599.84	289.29	154.70	9.17
5NAC658-186	0.0445	20.5173	0.1525	22.2486	0.0248	8.5562	0.3868	157.97	13.35	144.12	29.90	0.00	494.56	157.97	13.35
5NAC658-090	0.0877	38.1647	0.3060	39.7950	0.0253	11.2477	0.2833	161.03	17.89	271.10	94.96	1375.26	733.89	161.03	17.89
5NAC658-234	0.0552	7.8571	0.2138	11.4320	0.0281	8.3048	0.7264	178.37	14.61	196.72	20.45	420.82	175.38	178.37	14.61
5NAC658-277	0.0478	19.7492	0.2082	20.8469	0.0316	6.7415	0.3202	200.27	13.29	192.00	36.49	89.07	468.11	200.27	13.29
5NAC658-219	0.0521	17.9416	0.2711	21.3037	0.0377	11.4638	0.5392	238.75	26.87	243.57	46.17	288.28	409.98	238.75	26.87
5NAC658-231	0.0508	9.8739	0.2697	10.4487	0.0385	3.4197	0.3271	243.35	8.17	242.46	22.54	231.66	227.96	243.35	8.17
5NAC658-347	0.0694	10.1192	0.3727	11.4905	0.0389	5.4033	0.4738	245.99	13.04	321.62	31.69	911.08	208.39	245.99	13.04
5NAC658-372	0.0556	9.5806	0.3008	12.1070	0.0392	7.4089	0.6114	247.91	18.02	267.05	28.44	436.26	213.27	247.91	18.02
5NAC658-155	0.0463	16.8752	0.2509	17.4616	0.0393	4.4743	0.2570	248.20	10.89	227.31	35.58	14.37	405.66	248.20	10.89
5NAC658-209	0.0520	12.7769	0.2845	13.5841	0.0396	4.6668	0.3396	250.37	11.46	254.19	30.56	287.51	292.00	250.37	11.46
5NAC658-022	0.0621	11.1742	0.3427	12.5908	0.0400	5.8525	0.4608	252.76	14.51	299.20	32.64	677.26	238.82	252.76	14.51
5NAC658-278	0.0581	12.2650	0.3342	13.0410	0.0417	4.5302	0.3399	263.30	11.69	292.78	33.18	532.94	268.56	263.30	11.69
5NAC658-240	0.0484	16.5515	0.2789	21.4674	0.0418	13.6733	0.6368	263.79	35.34	249.78	47.57	117.98	390.22	263.79	35.34
5NAC658-226	0.0525	9.5446	0.3084	12.7563	0.0426	8.4444	0.6634	268.70	22.22	272.95	30.54	307.40	217.35	268.70	22.22
5NAC658-395	0.0604	9.6317	0.3671	11.6847	0.0440	6.6418	0.5662	277.89	18.06	317.53	31.87	617.70	207.89	277.89	18.06
5NAC658-246	0.0549	7.2956	0.3395	9.7898	0.0448	6.5780	0.6668	282.66	18.19	296.80	25.20	407.47	163.23	282.66	18.19
5NAC658-095	0.0538	13.0346	0.3358	17.5487	0.0452	11.7115	0.6696	285.11	32.66	294.01	44.83	363.25	293.93	285.11	32.66
5NAC658-093	0.0520	6.2053	0.3264	7.4296	0.0455	4.0130	0.5500	286.90	11.26	286.80	18.57	283.87	141.91	286.90	11.26
5NAC658-212	0.0490	21.8044	0.3217	26.1931	0.0476	14.5334	0.5541	299.82	42.58	283.19	64.82	145.94	511.40	299.82	42.58
5NAC658-215	0.0503	16.9689	0.3308	17.8540	0.0476	5.5036	0.3110	299.99	16.13	290.19	45.09	209.94	393.34	299.99	16.13
5NAC658-287	0.0625	13.7165	0.4357	19.3742	0.0505	13.7036	0.7062	317.87	42.50	367.25	59.77	689.94	292.54	317.87	42.50
5NAC658-268	0.0580	16.5123	0.4183	17.9047	0.0523	6.9454	0.3866	328.45	22.24	354.86	53.67	529.24	361.79	328.45	22.24
5NAC658-006	0.0559	6.7375	0.4062	8.1087	0.0526	4.5479	0.5565	330.63	14.66	346.10	23.79	449.16	149.64	330.63	14.66
5NAC658-196	0.1313	36.4948	0.9790	37.9855	0.0540	10.5371	0.2774	339.18	34.82	693.11	193.10	2115.66	639.75	339.18	34.82

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC658, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.981120, LONGITUDE: -69.644530 ACCEPTED															
5NAC658-252	0.0685	9.5770	0.5558	12.0733	0.0588	7.4322	0.6090	368.03	26.59	448.77	43.82	884.98	198.02	368.03	26.59
5NAC658-260	0.0535	14.1770	0.4365	20.0400	0.0591	14.1857	0.7068	369.98	51.01	367.78	61.91	351.74	320.35	369.98	51.01
5NAC658-031	0.0650	9.8005	0.5799	11.9852	0.0647	6.9494	0.5756	403.98	27.21	464.38	44.70	773.29	206.22	403.98	27.21
5NAC658-100	0.0625	4.3274	0.5610	5.6297	0.0650	3.5839	0.6396	406.14	14.11	452.15	20.55	691.51	92.27	406.14	14.11
5NAC658-027	0.0724	15.3384	0.6902	18.3583	0.0691	10.1501	0.5495	430.57	42.28	532.91	76.26	997.18	311.66	430.57	42.28
5NAC658-159	0.0579	11.4578	0.5643	12.5839	0.0706	5.1921	0.4135	439.77	22.07	454.31	46.12	526.70	251.15	439.77	22.07
5NAC658-249	0.0598	9.7671	0.6006	10.6102	0.0728	4.2231	0.3907	453.13	18.48	477.60	40.45	594.84	211.63	453.13	18.48
5NAC658-074	0.0820	20.5900	0.8308	24.5008	0.0734	13.3889	0.5420	456.68	59.03	614.03	113.36	1245.49	403.23	456.68	59.03
5NAC658-319	0.0570	10.2009	0.5919	13.1101	0.0753	8.3136	0.6282	467.79	37.51	472.11	49.54	490.83	224.98	467.79	37.51
5NAC658-024	0.0911	11.8816	0.9491	17.3884	0.0755	12.7189	0.7301	469.34	57.58	677.62	86.18	1447.74	226.23	469.34	57.58
5NAC658-271	0.0634	5.5284	0.6644	7.3642	0.0759	4.8971	0.6606	471.43	22.26	517.30	29.86	723.28	117.27	471.43	22.26
5NAC658-069	0.0705	6.3333	0.7433	7.6074	0.0764	4.5921	0.5560	474.77	21.02	564.33	32.95	942.09	129.78	474.77	21.02
5NAC658-120	0.0576	9.2708	0.6226	12.2571	0.0783	8.1805	0.6543	485.78	38.28	491.45	47.79	516.06	203.58	485.78	38.28
5NAC658-047	0.0883	36.9952	0.9555	38.6579	0.0784	11.2197	0.2901	486.57	52.58	680.98	194.13	1389.26	710.04	486.57	52.58
5NAC658-037	0.0598	6.0466	0.6518	7.9534	0.0790	5.2548	0.6497	490.26	24.81	509.56	31.88	595.07	131.01	490.26	24.81
5NAC658-392	0.0645	11.5555	0.7215	12.2453	0.0811	4.1082	0.3309	502.43	19.86	551.58	52.16	758.10	243.74	502.43	19.86
5NAC658-338	0.0565	6.0381	0.6327	7.8348	0.0811	4.9502	0.6372	502.82	23.94	497.77	30.84	472.31	133.57	502.82	23.94
5NAC658-021	0.0598	6.5143	0.6793	8.2474	0.0822	5.1156	0.6133	509.53	25.06	526.36	33.89	597.94	141.07	509.53	25.06
5NAC658-345	0.0602	5.7043	0.6870	7.5973	0.0827	4.9742	0.6605	511.92	24.48	531.03	31.43	611.73	123.25	511.92	24.48
5NAC658-222	0.0572	6.3159	0.6528	8.9563	0.0827	6.3237	0.7090	512.19	31.14	510.23	35.93	499.43	139.09	512.19	31.14
5NAC658-171	0.0713	7.6049	0.8183	11.1038	0.0832	8.0565	0.7287	515.06	39.88	607.12	50.78	965.87	155.28	515.06	39.88
5NAC658-012	0.0614	9.1383	0.7067	12.1803	0.0834	7.9766	0.6612	516.56	39.60	542.79	51.26	652.43	196.11	516.56	39.60
5NAC658-132	0.0584	4.3955	0.6727	5.9607	0.0835	4.1637	0.6758	517.23	20.69	522.37	24.35	543.02	96.08	517.23	20.69
5NAC658-026	0.0611	10.6894	0.7081	14.2465	0.0840	9.4848	0.6611	519.70	47.36	543.62	60.04	643.14	229.75	519.70	47.36
5NAC658-365	0.0565	11.3666	0.6573	14.0054	0.0843	8.2504	0.5843	521.56	41.34	512.98	56.46	472.66	251.43	521.56	41.34
5NAC658-103	0.0605	7.2618	0.7037	10.2952	0.0843	7.2893	0.7088	521.88	36.54	540.97	43.20	620.37	156.67	521.88	36.54
5NAC658-198	0.0757	11.1167	0.8833	12.3561	0.0845	5.3945	0.4365	523.20	27.11	642.76	58.91	1087.28	222.81	523.20	27.11
5NAC658-258	0.0583	4.7022	0.6879	6.2943	0.0854	4.3435	0.6652	528.57	22.04	531.53	26.05	542.15	102.80	528.57	22.04
5NAC658-256	0.0626	6.2666	0.7385	8.3224	0.0855	5.5991	0.6582	529.05	28.44	561.54	35.91	693.42	133.58	529.05	28.44
5NAC658-199	0.0642	10.4046	0.7612	11.6685	0.0859	5.2826	0.4527	531.29	26.94	574.68	51.25	748.38	219.81	531.29	26.94
5NAC658-320	0.0569	9.8887	0.6762	14.1164	0.0862	10.0883	0.7136	532.85	51.60	524.45	57.88	485.73	218.29	532.85	51.60
5NAC658-254	0.0564	4.1301	0.6767	5.7422	0.0869	4.1562	0.6953	536.94	21.41	524.75	23.53	469.93	91.40	536.94	21.41
5NAC658-003	0.0575	4.0297	0.6903	5.5451	0.0870	3.8516	0.6870	537.56	19.87	532.96	23.00	511.19	88.57	537.56	19.87
5NAC658-255	0.0595	4.6271	0.7257	6.3878	0.0884	4.5555	0.6898	546.28	23.86	554.04	27.28	583.95	100.44	546.28	23.86
5NAC658-280	0.0589	5.7893	0.7184	7.9283	0.0884	5.4694	0.6833	546.30	28.65	549.71	33.67	561.68	126.14	546.30	28.65
5NAC658-137	0.0597	9.1654	0.7292	10.9218	0.0885	5.9989	0.5439	546.59	31.44	556.09	46.80	593.31	198.64	546.59	31.44
5NAC658-305	0.0630	7.3499	0.7714	9.2092	0.0888	5.6145	0.6026	548.25	29.51	580.54	40.74	706.77	156.33	548.25	29.51
5NAC658-394	0.0582	7.6296	0.7140	8.4795	0.0889	3.7474	0.4364	549.07	19.72	547.14	35.88	537.10	166.94	549.07	19.72
5NAC658-094	0.0675	6.8908	0.8375	7.7753	0.0899	3.4750	0.4635	555.13	18.48	617.75	36.00	852.55	143.19	555.13	18.48
5NAC658-133	0.0746	3.1875	0.9299	5.7802	0.0903	4.9374	0.8344	557.40	26.36	667.60	28.29	1058.10	64.17	557.40	26.36
5NAC658-176	0.0577	10.8308	0.7193	15.6644	0.0904	11.2922	0.7224	557.64	60.33	550.26	66.64	517.93	237.76	557.64	60.33
5NAC658-341	0.0589	2.7316	0.7410	3.5988	0.0912	2.2829	0.6513	562.35	12.29	562.97	15.55	563.18	59.50	562.35	12.29
5NAC658-348	0.0565	11.9335	0.7120	12.9646	0.0912	5.0233	0.3908	562.78	27.07	545.94	54.80	473.96	263.91	562.78	27.07
5NAC658-360	0.0559	10.4077	0.7114	11.5418	0.0922	5.0388	0.4323	568.72	27.43	545.55	48.75	447.61	231.22	568.72	27.43
5NAC658-375	0.0584	10.2472	0.7521	14.6471	0.0933	10.4736	0.7145	574.93	57.61	569.41	63.92	545.28	223.90	574.93	57.61
5NAC658-148	0.0605	7.4164	0.7809	8.7407	0.0936	4.7265	0.5293	576.57	26.07	586.02	38.94	620.94	159.99	576.57	26.07
5NAC658-393	0.0608	10.6071	0.7883	13.5112	0.0940	8.3966	0.6194	579.31	46.52	590.22	60.55	630.44	228.46	579.31	46.52
5NAC658-335	0.0608	9.0706	0.7929	12.9988	0.0946	9.2882	0.7163	582.46	51.73	592.84	58.44	630.52	195.36	582.46	51.73
5NAC658-140	0.0628	7.7913	0.8216	8.6153	0.0947	3.7528	0.4269	583.50	20.94	608.95	39.48	702.95	165.82	583.50	20.94
5NAC658-048	0.0655	8.2910	0.8665	9.4953	0.0958	4.6381	0.4874	589.69	26.14	633.68	44.79	791.90	173.94	589.69	26.14

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC658, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.981120, LONGITUDE: -69.644530 ACCEPTED															
5NAC658-045	0.0612	9.3570	0.8166	12.9538	0.0968	8.9633	0.6915	595.34	50.97	606.16	59.19	644.76	201.06	595.34	50.97
5NAC658-343	0.0676	14.7287	0.9054	17.3159	0.0970	9.0899	0.5258	596.92	51.82	654.61	83.74	856.67	305.87	596.92	51.82
5NAC658-034	0.0606	4.7961	0.8199	6.8789	0.0980	5.0233	0.7170	602.90	28.91	608.01	31.48	625.04	103.39	602.90	28.91
5NAC658-005	0.0626	4.8219	0.8481	6.1924	0.0982	3.9269	0.6275	604.00	22.64	623.61	28.86	693.35	102.78	604.00	22.64
5NAC658-283	0.0589	5.2937	0.8012	6.0671	0.0985	3.0591	0.4888	605.77	17.69	597.50	27.41	564.02	115.30	605.77	17.69
5NAC658-369	0.0644	7.8220	0.8833	8.7103	0.0993	3.9753	0.4403	610.41	23.15	642.74	41.50	755.99	165.05	610.41	23.15
5NAC658-291	0.0630	7.4838	0.8752	9.9152	0.1006	6.5076	0.6560	618.06	38.35	638.38	47.02	708.80	159.12	618.06	38.35
5NAC658-136	0.0606	7.7352	0.8533	11.1153	0.1021	8.0263	0.7181	626.50	47.92	626.44	52.01	624.38	166.77	626.50	47.92
5NAC658-346	0.0599	7.0044	0.8667	7.7580	0.1048	3.2692	0.4300	642.28	19.99	633.77	36.59	601.29	151.60	642.28	19.99
5NAC658-194	0.0617	6.1160	0.8962	8.1084	0.1052	5.3243	0.6566	644.92	32.68	649.68	38.93	664.38	130.99	644.92	32.68
5NAC658-300	0.0602	6.8198	0.8791	7.2585	0.1057	2.5378	0.3425	647.88	15.64	640.47	34.49	612.18	147.34	647.88	15.64
5NAC658-195	0.0612	3.9271	0.8928	4.8665	0.1058	2.8754	0.5906	648.11	17.73	647.89	23.31	645.24	84.37	648.11	17.73
5NAC658-156	0.0604	5.5306	0.8995	6.8226	0.1078	3.9806	0.5856	660.23	24.98	651.48	32.82	619.43	119.34	660.23	24.98
5NAC658-172	0.0612	10.9164	0.9473	15.3561	0.1122	10.7745	0.7033	685.30	70.05	676.72	76.00	646.40	234.50	685.30	70.05
5NAC658-399	0.0655	5.0289	1.0385	10.8474	0.1149	9.6296	0.8860	701.15	63.98	723.18	56.17	790.21	105.53	701.15	63.98
5NAC658-274	0.0655	4.6918	1.0501	7.3637	0.1161	5.7530	0.7708	707.93	38.57	728.95	38.32	792.01	98.43	707.93	38.57
5NAC658-205	0.0640	7.9967	1.0573	10.5790	0.1197	6.9620	0.6547	728.87	47.98	732.48	55.26	741.68	169.12	728.87	47.98
5NAC658-065	0.0692	11.5493	1.1943	15.7059	0.1251	10.7988	0.6778	759.73	77.40	797.97	87.01	904.39	238.08	759.73	77.40
5NAC658-032	0.0695	6.1309	1.2041	7.6069	0.1256	4.5799	0.5920	762.61	32.94	802.47	42.22	912.77	126.19	762.61	32.94
5NAC658-400	0.0650	11.2306	1.1380	15.8087	0.1268	11.1419	0.7038	769.59	80.83	771.56	85.64	775.38	236.23	769.59	80.83
5NAC658-164	0.0714	6.1092	1.2760	7.6262	0.1295	4.5247	0.5986	784.78	33.43	835.07	43.44	969.58	124.67	784.78	33.43
5NAC658-141	0.0687	5.7571	1.2469	8.4085	0.1315	6.1745	0.7289	796.59	46.27	822.02	47.42	889.67	118.95	796.59	46.27
5NAC658-303	0.0660	4.5987	1.2176	6.2472	0.1338	4.2596	0.6769	809.27	32.40	808.66	34.84	804.80	96.28	804.80	96.28
5NAC658-117	0.0683	5.8209	1.2982	8.2833	0.1377	5.9985	0.7116	831.59	46.80	844.92	47.54	878.27	120.48	878.27	120.48
5NAC658-060	0.0705	8.1378	1.3820	12.7769	0.1421	9.9958	0.7710	856.51	80.18	881.31	75.41	942.16	166.76	942.16	166.76
5NAC658-138	0.0706	11.8662	1.6568	14.9418	0.1700	9.1189	0.6077	1012.19	85.42	992.14	94.89	946.29	243.01	946.29	243.01
5NAC658-367	0.0708	5.2112	1.6727	5.7377	0.1711	2.6235	0.4201	1018.24	24.71	998.20	36.48	952.38	106.62	952.38	106.62
5NAC658-317	0.0715	3.1989	1.6754	4.2507	0.1698	3.0226	0.6605	1010.89	28.28	999.23	27.03	971.57	65.26	971.57	65.26
5NAC658-259	0.0717	6.1447	1.5281	7.7949	0.1543	4.9356	0.6155	925.11	42.54	941.74	47.88	978.83	125.19	978.83	125.19
5NAC658-371	0.0718	4.7496	1.6858	7.4003	0.1701	5.6860	0.7669	1012.49	53.28	1003.19	47.20	980.91	96.74	980.91	96.74
5NAC658-044	0.0724	8.1758	1.8094	11.4374	0.1810	8.0039	0.6993	1072.63	79.09	1048.87	74.93	997.76	166.11	997.76	166.11
5NAC658-170	0.0726	6.2568	1.6612	8.5484	0.1659	5.7771	0.6814	989.55	53.00	993.83	54.23	1001.53	127.05	1001.53	127.05
5NAC658-312	0.0727	3.3339	1.6687	4.5030	0.1663	3.2346	0.6737	991.62	29.73	996.68	28.60	1005.70	67.66	1005.70	67.66
5NAC658-053	0.0727	5.2250	1.5490	6.9896	0.1544	4.6410	0.6642	925.43	40.01	950.10	43.15	1005.79	106.03	1005.79	106.03
5NAC658-168	0.0728	4.3977	1.6793	5.3171	0.1671	2.9271	0.5622	996.03	27.01	1000.72	33.85	1009.28	89.20	1009.28	89.20
5NAC658-052	0.0731	5.0402	1.7271	7.1925	0.1712	5.1297	0.7134	1018.50	48.33	1018.69	46.28	1017.17	102.11	1017.17	102.11
5NAC658-114	0.0732	4.0069	1.6994	5.3554	0.1682	3.7585	0.6645	1002.16	34.89	1008.29	34.25	1019.84	81.14	1019.84	81.14
5NAC658-218	0.0732	5.7484	1.7479	8.2689	0.1729	5.8992	0.7189	1028.19	56.07	1026.39	53.46	1020.73	116.40	1020.73	116.40
5NAC658-152	0.0733	4.9827	1.5900	7.0679	0.1573	5.0724	0.7093	941.70	44.44	966.30	44.08	1020.95	100.89	1020.95	100.89
5NAC658-057	0.0733	5.9463	1.5976	7.8064	0.1579	5.0756	0.6479	945.00	44.62	969.29	48.79	1022.88	120.37	1022.88	120.37
5NAC658-154	0.0735	8.0152	1.8214	11.4685	0.1795	8.1956	0.7152	1064.02	80.39	1053.19	75.31	1029.06	162.06	1029.06	162.06
5NAC658-035	0.0739	9.1796	1.5808	13.0878	0.1550	9.3777	0.7128	928.96	81.13	962.69	81.57	1038.60	185.33	1038.60	185.33
5NAC658-118	0.0739	6.5486	1.8458	9.3805	0.1810	6.8089	0.7161	1072.36	67.27	1061.93	61.85	1038.79	132.21	1038.79	132.21
5NAC658-289	0.0739	3.3178	1.8716	4.8757	0.1834	3.6520	0.7329	1085.40	36.48	1071.09	32.28	1039.99	66.97	1039.99	66.97
5NAC658-203	0.0742	4.3965	1.5358	5.5442	0.1500	3.3864	0.6092	901.17	28.48	944.80	34.11	1046.14	88.66	1046.14	88.66
5NAC658-102	0.0743	4.2714	1.7232	5.5268	0.1680	3.4897	0.6346	1001.11	32.36	1017.20	35.52	1050.22	86.09	1050.22	86.09
5NAC658-285	0.0746	14.8929	1.7094	21.0491	0.1660	14.8942	0.7067	990.16	136.73	1012.06	135.65	1057.68	299.82	1057.68	299.82
5NAC658-390	0.0747	3.0174	1.9542	3.7608	0.1896	2.3449	0.5975	1119.34	24.10	1099.88	25.27	1059.67	60.73	1059.67	60.73
5NAC658-061	0.0747	6.0217	1.7568	8.2867	0.1703	5.9413	0.6876	1013.96	55.74	1029.66	53.67	1061.29	121.16	1061.29	121.16
5NAC658-153	0.0749	5.0423	1.9223	6.9442	0.1861	4.8372	0.6876	1100.15	48.92	1088.85	46.41	1064.59	101.40	1064.59	101.40

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC658, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.981120, LONGITUDE: -69.644530 ACCEPTED															
5NAC658-342	0.0753	14.8827	1.8837	21.4840	0.1813	15.4851	0.7212	1074.33	153.27	1075.37	143.44	1075.39	298.82	1075.39	298.82
5NAC658-073	0.0753	5.3581	1.7055	7.3222	0.1641	5.1528	0.6819	979.71	46.84	1010.58	46.90	1076.26	107.57	1076.26	107.57
5NAC658-109	0.0754	5.3970	1.7716	8.3021	0.1703	6.4954	0.7602	1013.88	60.94	1035.11	53.93	1078.45	108.31	1078.45	108.31
5NAC658-242	0.0755	4.5833	1.7184	5.4362	0.1650	2.9338	0.5377	984.28	26.78	1015.42	34.91	1081.29	91.94	1081.29	91.94
5NAC658-211	0.0756	4.7441	1.8389	6.4798	0.1762	4.4780	0.6812	1046.37	43.25	1059.46	42.64	1084.73	95.12	1084.73	95.12
5NAC658-010	0.0759	4.7049	1.7200	6.6576	0.1642	4.7066	0.7075	980.33	42.80	1016.01	42.77	1091.78	94.24	1091.78	94.24
5NAC658-188	0.0760	3.8614	1.8346	5.4483	0.1750	3.7334	0.7058	1039.55	35.84	1057.94	35.82	1094.33	77.31	1094.33	77.31
5NAC658-353	0.0761	6.6161	1.6571	9.5637	0.1578	6.8937	0.7221	944.75	60.58	992.27	60.63	1096.81	132.42	1096.81	132.42
5NAC658-279	0.0772	14.6810	1.9894	21.8414	0.1868	16.1988	0.7404	1103.96	164.39	1111.90	148.64	1125.45	292.58	1125.45	292.58
5NAC658-169	0.0773	7.7583	1.8584	11.3445	0.1743	8.2549	0.7296	1035.53	78.97	1066.42	75.03	1128.45	154.55	1128.45	154.55
5NAC658-380	0.0776	7.6301	1.7356	11.0493	0.1620	8.0020	0.7233	968.06	71.93	1021.84	71.30	1136.97	151.80	1136.97	151.80
5NAC658-229	0.0778	8.6564	2.0177	12.6417	0.1879	9.1958	0.7288	1110.23	93.79	1121.48	86.03	1141.51	172.11	1141.51	172.11
5NAC658-097	0.0778	12.5969	2.0297	16.5232	0.1891	10.6507	0.6471	1116.35	109.18	1125.53	112.86	1141.51	250.45	1141.51	250.45
5NAC658-165	0.0779	12.3525	1.8804	20.3686	0.1750	16.1843	0.7951	1039.42	155.39	1074.21	135.82	1143.81	245.51	1143.81	245.51
5NAC658-340	0.0783	4.6803	1.9383	6.1608	0.1794	3.9714	0.6503	1063.78	38.95	1094.41	41.29	1153.78	92.88	1153.78	92.88
5NAC658-207	0.0789	3.5075	2.1774	5.5233	0.2000	4.3250	0.7725	1175.52	46.48	1173.85	38.45	1169.01	69.46	1169.01	69.46
5NAC658-129	0.0791	3.5612	2.1803	4.8496	0.1998	3.7043	0.6835	1174.48	39.77	1174.76	33.77	1173.56	70.47	1173.56	70.47
5NAC658-197	0.0793	13.3686	2.0070	18.6574	0.1833	13.0148	0.6976	1084.95	129.98	1117.87	127.10	1180.71	264.27	1180.71	264.27
5NAC658-374	0.0798	3.7433	2.3560	5.6228	0.2139	4.2152	0.7462	1249.76	47.89	1229.39	40.10	1191.89	73.88	1191.89	73.88
5NAC658-223	0.0799	3.7696	1.9838	5.2321	0.1799	3.5817	0.6935	1066.70	35.21	1110.01	35.34	1194.08	74.37	1194.08	74.37
5NAC658-382	0.0799	9.4689	2.3059	13.5768	0.2091	9.7382	0.7167	1224.27	108.60	1214.10	96.44	1194.16	186.81	1194.16	186.81
5NAC658-042	0.0801	5.9887	2.1666	8.9914	0.1961	6.7126	0.7459	1154.21	70.94	1170.38	62.54	1198.53	118.08	1198.53	118.08
5NAC658-359	0.0802	13.1278	1.9605	17.1161	0.1772	10.9821	0.6417	1051.50	106.56	1102.05	115.59	1201.26	258.73	1201.26	258.73
5NAC658-352	0.0805	4.8454	2.2667	6.7666	0.2040	4.7052	0.6980	1196.74	51.39	1201.98	47.71	1209.37	95.39	1209.37	95.39
5NAC658-232	0.0806	11.1448	2.2770	15.9336	0.2046	11.3880	0.7147	1200.21	124.73	1205.18	112.88	1212.25	219.30	1212.25	219.30
5NAC658-142	0.0812	6.5465	2.2937	8.8324	0.2046	5.9765	0.6713	1200.25	65.45	1210.36	62.53	1226.76	128.55	1226.76	128.55
5NAC658-389	0.0814	9.9012	2.2787	13.9823	0.2029	9.8960	0.7061	1190.62	107.59	1205.72	98.98	1231.00	194.30	1231.00	194.30
5NAC658-119	0.0815	4.9648	2.3923	7.1122	0.2127	5.2141	0.7162	1243.13	58.95	1240.30	50.97	1233.68	97.39	1233.68	97.39
5NAC658-391	0.0816	7.4988	2.2989	10.7827	0.2042	7.7777	0.7186	1197.86	85.03	1211.95	76.44	1235.30	147.07	1235.30	147.07
5NAC658-056	0.0817	10.9263	2.2865	17.2833	0.2029	13.3981	0.7748	1190.84	145.71	1208.13	122.69	1237.31	214.23	1237.31	214.23
5NAC658-324	0.0818	10.6988	2.2842	15.2557	0.2024	10.8886	0.7129	1187.98	118.15	1207.40	108.14	1240.24	209.68	1240.24	209.68
5NAC658-054	0.0820	6.3460	2.2101	9.7101	0.1952	7.3485	0.7569	1149.69	77.38	1184.23	67.98	1246.03	124.27	1246.03	124.27
5NAC658-072	0.0820	9.0482	2.3644	12.4398	0.2088	8.6327	0.6863	1222.53	96.14	1231.91	89.00	1246.56	177.17	1246.56	177.17
5NAC658-301	0.0821	6.6223	2.2556	9.6462	0.1990	7.0327	0.7271	1169.86	75.24	1198.54	67.96	1248.57	129.63	1248.57	129.63
5NAC658-085	0.0826	6.6292	2.3969	9.1396	0.2104	6.2320	0.6884	1230.79	69.83	1241.68	65.57	1258.84	129.58	1258.84	129.58
5NAC658-306	0.0829	4.0951	2.4290	6.3116	0.2123	4.8786	0.7610	1241.08	55.08	1251.22	45.43	1266.67	79.96	1266.67	79.96
5NAC658-204	0.0830	10.2180	2.2192	13.8146	0.1938	9.3003	0.6730	1142.05	97.34	1187.12	96.99	1268.46	199.45	1268.46	199.45
5NAC658-049	0.0833	7.7526	2.1361	8.8663	0.1857	4.3128	0.4852	1098.16	43.55	1160.55	61.39	1277.10	151.14	1277.10	151.14
5NAC658-107	0.0844	6.9720	2.3940	9.4364	0.2056	6.5445	0.6742	1205.49	71.96	1240.80	67.68	1300.92	135.47	1300.92	135.47
5NAC658-106	0.0844	7.1414	2.6164	8.4411	0.2245	4.7588	0.5340	1305.78	56.25	1305.26	62.09	1302.68	138.72	1302.68	138.72
5NAC658-349	0.0852	12.0117	2.6503	16.5081	0.2253	11.3047	0.6860	1309.59	134.00	1314.73	122.29	1321.10	232.73	1321.10	232.73
5NAC658-344	0.0858	14.2440	2.5596	22.7772	0.2162	17.7616	0.7803	1261.98	203.64	1289.19	167.82	1332.79	275.53	1332.79	275.53
5NAC658-182	0.0859	3.5328	2.5289	5.8204	0.2134	4.5772	0.7948	1246.66	51.89	1280.39	42.38	1335.77	68.31	1335.77	68.31
5NAC658-302	0.0898	7.4701	2.7466	8.5444	0.2217	4.1794	0.4854	1290.67	48.89	1341.15	63.68	1420.66	142.76	1420.66	142.76
5NAC658-381	0.0899	3.9489	3.0832	5.4381	0.2485	3.7607	0.6875	1430.88	48.26	1428.53	41.72	1423.19	75.44	1423.19	75.44
5NAC658-063	0.0900	3.5553	2.5670	6.4750	0.2067	5.6723	0.8367	1211.31	62.64	1291.30	47.35	1425.11	67.90	1425.11	67.90
5NAC658-192	0.0912	4.8844	2.5284	9.3793	0.2009	8.0072	0.8537	1180.41	86.37	1280.23	68.35	1450.25	92.97	1450.25	92.97
5NAC658-025	0.0913	3.8752	2.9486	5.4841	0.2339	4.0400	0.7082	1355.15	49.38	1394.48	41.61	1453.32	73.73	1453.32	73.73
5NAC658-105	0.0913	5.5525	3.2114	8.6976	0.2548	6.8711	0.7700	1463.21	89.95	1459.90	67.44	1453.41	105.64	1453.41	105.64
5NAC658-190	0.0918	4.2744	3.2622	5.1258	0.2575	2.8295	0.5519	1477.08	37.35	1472.10	39.86	1463.27	81.22	1463.27	81.22

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC658, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.981120, LONGITUDE: -69.644530 ACCEPTED															
5NAC658-208	0.0923	7.5215	3.5415	10.7514	0.2780	7.7150	0.7146	1581.29	108.20	1536.53	85.33	1473.77	142.71	1473.77	142.71
5NAC658-261	0.0952	6.4901	2.9307	10.4675	0.2231	8.2504	0.7846	1298.38	97.03	1389.87	79.41	1531.40	122.21	1531.40	122.21
5NAC658-238	0.0963	12.2253	3.1639	19.2948	0.2381	14.9295	0.7737	1376.72	185.12	1448.39	149.95	1553.45	229.54	1553.45	229.54
5NAC658-143	0.0966	4.4014	3.3504	5.6914	0.2514	3.6857	0.6341	1445.55	47.73	1492.90	44.53	1559.19	82.58	1559.19	82.58
5NAC658-267	0.0989	4.6970	3.3015	9.0086	0.2419	7.7076	0.8533	1396.51	96.78	1481.41	70.32	1603.33	87.62	1603.33	87.62
5NAC658-080	0.0999	4.6258	3.2959	5.8653	0.2391	3.6308	0.6148	1381.94	45.16	1480.09	45.72	1622.05	86.09	1622.05	86.09
5NAC658-265	0.0999	4.0936	3.6866	5.6798	0.2673	3.9771	0.6933	1526.94	54.07	1568.47	45.40	1622.97	76.17	1622.97	76.17
5NAC658-183	0.1007	9.0332	3.5367	15.7000	0.2546	12.8237	0.8179	1462.04	167.78	1535.47	124.90	1636.52	167.80	1636.52	167.80
5NAC658-121	0.1012	11.5901	3.7395	15.9481	0.2679	11.0744	0.6870	1529.99	150.86	1579.86	128.45	1645.48	215.00	1645.48	215.00
5NAC658-059	0.1020	7.3099	3.8564	12.1021	0.2738	9.6543	0.7970	1560.24	133.81	1604.61	97.88	1661.60	135.32	1661.60	135.32
5NAC658-313	0.1024	12.1173	4.0805	18.6631	0.2886	14.2402	0.7606	1634.62	205.67	1650.41	153.36	1668.63	224.12	1668.63	224.12
5NAC658-015	0.1049	10.2068	4.2333	13.5966	0.2924	9.0237	0.6607	1653.51	131.63	1680.50	112.13	1712.57	187.75	1712.57	187.75
5NAC658-350	0.1059	10.8181	4.2590	15.1915	0.2914	10.6574	0.7021	1648.57	155.06	1685.48	125.56	1729.83	198.57	1729.83	198.57
5NAC658-397	0.1062	4.9651	4.0686	7.8770	0.2775	6.1438	0.7763	1578.75	86.04	1648.03	64.29	1735.86	91.07	1735.86	91.07
5NAC658-245	0.1068	3.3390	4.5034	4.2483	0.3057	2.7485	0.6189	1719.31	41.48	1731.60	35.31	1744.75	61.17	1744.75	61.17
5NAC658-126	0.1073	4.3027	4.5438	5.1251	0.3067	3.2616	0.5501	1724.62	49.35	1739.02	42.68	1754.80	78.73	1754.80	78.73
5NAC658-173	0.1082	12.7526	4.3568	17.3536	0.2918	11.7459	0.6782	1650.64	171.09	1704.18	144.27	1769.08	232.95	1769.08	232.95
5NAC658-251	0.1111	4.5732	5.0949	6.4059	0.3324	4.6164	0.7005	1850.09	74.25	1835.25	54.42	1816.71	83.04	1816.71	83.04
5NAC658-115	0.1117	11.0582	4.9375	15.3037	0.3202	10.6383	0.6913	1790.68	166.36	1808.69	129.92	1827.93	200.53	1827.93	200.53
5NAC658-398	0.1154	11.4395	5.3318	16.3978	0.3347	11.7634	0.7165	1861.01	190.21	1873.97	141.11	1886.74	205.93	1886.74	205.93
5NAC658-288	0.1179	2.8410	5.6146	4.0620	0.3451	3.0001	0.7151	1911.13	49.62	1918.33	35.02	1924.30	50.92	1924.30	50.92
5NAC658-101	0.1187	5.6023	5.6214	8.0921	0.3431	5.8288	0.7216	1901.58	95.99	1919.39	69.87	1937.09	100.27	1937.09	100.27
5NAC658-110	0.1198	4.4409	5.4004	6.7402	0.3266	5.2164	0.7526	1822.05	82.80	1884.91	57.81	1953.31	79.33	1953.31	79.33
5NAC658-018	0.1202	4.9613	5.6734	6.8188	0.3419	4.7562	0.6861	1895.86	78.13	1927.33	58.93	1959.62	88.57	1959.62	88.57
5NAC658-174	0.1210	4.5056	5.2759	5.7099	0.3160	3.4279	0.6145	1770.22	53.06	1864.96	48.78	1970.73	80.33	1970.73	80.33
5NAC658-013	0.1220	13.8370	5.6825	19.4546	0.3376	13.6867	0.7029	1875.01	222.76	1928.71	169.54	1985.20	246.28	1985.20	246.28
5NAC658-166	0.1248	3.6828	6.1100	6.5520	0.3548	5.3853	0.8271	1957.37	90.92	1991.68	57.23	2025.95	65.23	2025.95	65.23
5NAC658-379	0.1263	7.5732	5.3815	12.4278	0.3087	9.8621	0.7929	1734.50	150.00	1881.91	106.81	2047.03	133.82	2047.03	133.82
5NAC658-309	0.1294	2.4578	6.8548	3.4589	0.3838	2.5803	0.7048	2093.87	46.13	2092.83	30.66	2089.95	43.21	2089.95	43.21
5NAC658-318	0.1314	6.6745	6.7584	9.4236	0.3725	6.7495	0.7060	2041.19	118.10	2080.30	83.54	2117.39	116.98	2117.39	116.98
5NAC658-334	0.1340	6.7528	7.0332	9.4542	0.3803	6.5849	0.6999	2077.84	116.98	2115.64	84.24	2150.74	117.90	2150.74	117.90
5NAC658-082	0.1341	9.1735	6.3619	12.4785	0.3439	8.4699	0.6779	1905.24	139.73	2027.03	109.92	2151.82	160.15	2151.82	160.15
5NAC658-062	0.1680	5.8425	11.2501	8.2532	0.4852	6.0722	0.7069	2549.78	127.89	2544.08	77.11	2537.96	97.97	2537.96	97.97
5NAC658-030	0.1796	9.6068	9.8934	13.8810	0.3992	10.0543	0.7218	2165.33	184.97	2424.90	128.69	2648.93	159.36	2648.93	159.36
5NAC658-368	0.1822	7.5244	11.8303	11.7103	0.4706	9.0351	0.7663	2486.00	186.42	2591.07	110.07	2672.62	124.54	2672.62	124.54
5NAC658-295	0.1826	2.4464	12.3281	3.4061	0.4891	2.3938	0.6958	2566.74	50.69	2629.71	32.00	2676.83	40.47	2676.83	40.47
5NAC658-131	0.1904	3.8642	12.4519	7.0689	0.4738	6.0136	0.8375	2500.21	124.64	2639.10	66.54	2745.98	63.52	2745.98	63.52
5NAC658-298	0.1917	2.8803	12.2808	4.3627	0.4642	3.2940	0.7511	2458.09	67.32	2626.11	40.98	2756.59	47.30	2756.59	47.30
5NAC658, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.981120, LONGITUDE: -69.644530 REJECTED															
5NAC658-087	-129.0805	17195.1199	1.0907	24317.4863	-0.0001	17194.9990	0.7071	6.45E-06	1.11E-03	7.49E+02	6.55E+04	2.01E-03	4.14E+05	6.45E-06	1.11E-03
5NAC658-387	-0.1087	307.7640	-0.0446	315.0368	0.0030	67.3049	0.2136	19.13	12.86	0.00	0.00	0.00	7418.50	19.13	12.86
5NAC658-244	0.0236	1076.5138	0.0100	1078.7210	0.0031	68.9759	0.0639	19.77	13.61	10.10	108.81	0.00	25948.82	19.77	13.61
5NAC658-187	0.0431	404.0490	0.0200	405.5918	0.0034	35.3309	0.0871	21.64	7.63	20.11	80.92	0.00	9739.40	21.64	7.63
5NAC658-266	0.1063	90.2680	0.0548	93.1619	0.0037	23.0462	0.2473	24.07	5.54	54.22	49.22	1736.08	1655.58	24.07	5.54
5NAC658-293	0.0708	88.7942	0.0369	90.3667	0.0038	16.7863	0.1857	24.28	4.07	36.76	32.63	950.88	1817.15	24.28	4.07
5NAC658-092	0.0713	126.9850	0.0379	129.9875	0.0039	27.7667	0.2137	24.80	6.87	37.80	48.26	965.56	2592.99	24.80	6.87
5NAC658-326	0.0622	72.1969	0.0334	77.8943	0.0039	29.2341	0.3754	25.07	7.32	33.39	25.59	679.65	1542.39	25.07	7.32
5NAC658-366	0.0804	67.3108	0.0446	69.1194	0.0040	15.7435	0.2273	25.87	4.06	44.29	29.97	1205.73	1325.76	25.87	4.06
5NAC658-354	0.0982	58.5278	0.0552	60.4389	0.0041	15.0729	0.2495	26.18	3.94	54.52	32.09	1590.58	1093.64	26.18	3.94

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC658, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.981120, LONGITUDE: -69.644530 REJECTED															
5NAC658-213	0.0717	63.9622	0.0404	65.9015	0.0041	15.8877	0.2408	26.28	4.17	40.20	25.98	976.16	1304.02	26.28	4.17
5NAC658-220	0.0358	191.8253	0.0209	193.0157	0.0042	21.3952	0.1109	27.17	5.80	20.98	40.10	0.00	4623.85	27.17	5.80
5NAC658-127	0.0040	1225.1713	0.0023	1225.2765	0.0042	16.1436	0.0131	27.24	4.39	2.38	29.11	0.00	29532.13	27.24	4.39
5NAC658-385	0.0516	56.0514	0.0302	62.0633	0.0042	26.6561	0.4294	27.25	7.25	30.17	18.45	266.66	1285.85	27.25	7.25
5NAC658-210	0.0723	62.5104	0.0425	64.3178	0.0043	15.1591	0.2354	27.43	4.15	42.31	26.66	994.37	1270.66	27.43	4.15
5NAC658-253	0.0487	69.7033	0.0290	74.0068	0.0043	24.8928	0.3360	27.80	6.90	29.06	21.21	132.78	1638.79	27.80	6.90
5NAC658-088	0.0923	110.4878	0.0551	112.3703	0.0043	20.4643	0.1823	27.81	5.68	54.42	59.61	1473.34	2096.52	27.81	5.68
5NAC658-362	0.0386	82.1337	0.0236	83.7652	0.0044	16.4669	0.1964	28.54	4.69	23.71	19.64	0.00	1979.79	28.54	4.69
5NAC658-239	0.0454	30.0406	0.0278	33.8696	0.0044	15.6452	0.4619	28.57	4.46	27.87	9.31	0.00	724.11	28.57	4.46
5NAC658-290	0.0492	24.5466	0.0304	30.4579	0.0045	18.0331	0.5920	28.84	5.19	30.45	9.14	157.52	574.49	28.84	5.19
5NAC658-333	0.0544	72.2552	0.0337	76.7560	0.0045	25.8919	0.3374	28.84	7.45	33.65	25.41	389.24	1621.84	28.84	7.45
5NAC658-329	0.0711	76.8006	0.0442	79.1582	0.0045	19.1621	0.2422	28.97	5.54	43.94	34.06	961.51	1569.20	28.97	5.54
5NAC658-017	0.0726	74.1769	0.0452	75.9322	0.0045	16.2550	0.2138	29.00	4.70	44.89	33.35	1003.93	1505.68	29.00	4.70
5NAC658-098	0.0967	122.4653	0.0606	124.9670	0.0045	24.8621	0.1991	29.22	7.25	59.76	72.65	1560.99	2297.15	29.22	7.25
5NAC658-160	0.1108	90.0378	0.0705	92.8494	0.0046	22.6698	0.2442	29.65	6.71	69.19	62.18	1813.11	1635.56	29.65	6.71
5NAC658-007	0.3541	52.1195	0.2265	61.8281	0.0046	33.2656	0.5380	29.80	9.89	207.28	116.43	3724.73	792.91	29.80	9.89
5NAC658-058	0.0186	284.8956	0.0120	285.5127	0.0047	18.7661	0.0657	29.96	5.61	12.08	34.29	0.00	6867.26	29.96	5.61
5NAC658-040	0.1725	64.8332	0.1118	69.7698	0.0047	25.7790	0.3695	30.20	7.77	107.60	71.35	2581.88	1082.45	30.20	7.77
5NAC658-125	0.0612	121.5513	0.0398	122.7044	0.0047	16.8681	0.1368	30.32	5.10	39.64	47.74	646.53	2611.03	30.32	5.10
5NAC658-370	-0.1302	239.7945	-0.0855	241.0528	0.0048	24.6025	0.1020	30.60	7.51	0.00	0.00	0.00	5780.13	30.60	7.51
5NAC658-084	0.2575	98.5699	0.1695	111.2246	0.0048	51.5274	0.4633	30.68	15.77	159.01	165.14	3231.52	1554.74	30.68	15.77
5NAC658-308	0.0873	88.0113	0.0576	89.5327	0.0048	16.4572	0.1836	30.72	5.04	56.85	49.54	1368.14	1694.09	30.72	5.04
5NAC658-077	0.0734	133.8443	0.0489	134.9811	0.0048	17.5647	0.1295	31.06	5.44	48.51	64.02	1025.20	2708.37	31.06	5.44
5NAC658-270	0.0646	136.3318	0.0439	137.5615	0.0049	18.3609	0.1334	31.63	5.79	43.60	58.77	762.10	2873.80	31.63	5.79
5NAC658-019	0.3772	34.1376	0.2571	40.8631	0.0049	22.4758	0.5496	31.76	7.12	232.34	85.06	3820.59	516.09	31.76	7.12
5NAC658-191	0.0094	824.8692	0.0064	825.1478	0.0050	21.4404	0.0260	31.97	6.84	6.51	53.62	0.00	19883.05	31.97	6.84
5NAC658-099	0.1087	69.6888	0.0747	71.7789	0.0050	17.1692	0.2396	32.02	5.48	73.17	50.71	1778.08	1271.58	32.02	5.48
5NAC658-243	0.0957	51.7232	0.0665	54.4211	0.0050	16.9244	0.3110	32.37	5.46	65.35	34.46	1541.90	972.62	32.37	5.46
5NAC658-294	0.0868	91.5360	0.0603	92.8912	0.0050	15.8112	0.1702	32.38	5.11	59.48	53.72	1356.39	1764.80	32.38	5.11
5NAC658-083	0.2767	90.8500	0.1943	92.0898	0.0051	15.0661	0.1635	32.72	4.92	180.27	153.26	3344.28	1420.20	32.72	4.92
5NAC658-122	0.0758	101.0806	0.0536	102.4187	0.0051	16.5811	0.1611	32.95	5.45	53.01	52.95	1089.31	2025.29	32.95	5.45
5NAC658-235	0.1269	36.5142	0.0910	38.1456	0.0052	11.0390	0.2893	33.40	3.68	88.43	32.32	2055.87	644.53	33.40	3.68
5NAC658-145	0.0836	105.5254	0.0599	107.3902	0.0052	19.9495	0.1855	33.41	6.65	59.10	61.73	1283.09	2055.53	33.41	6.65
5NAC658-281	0.0433	182.3626	0.0312	183.0156	0.0052	15.4647	0.0844	33.57	5.18	31.23	56.34	0.00	4395.76	33.57	5.18
5NAC658-150	0.2511	29.0670	0.1886	30.9005	0.0054	10.5143	0.3393	35.00	3.67	175.43	49.82	3191.44	459.79	35.00	3.67
5NAC658-167	0.1239	82.2263	0.0936	84.7115	0.0055	20.3598	0.2404	35.19	7.15	90.85	73.74	2013.08	1458.70	35.19	7.15
5NAC658-337	0.0480	99.7771	0.0364	103.4122	0.0055	27.1696	0.2628	35.33	9.57	36.29	36.88	97.60	2361.22	35.33	9.57
5NAC658-128	0.2659	103.3036	0.2029	104.8977	0.0055	18.2971	0.1737	35.54	6.49	187.53	181.53	3281.89	1622.68	35.54	6.49
5NAC658-075	0.1494	19.7832	0.1161	23.5979	0.0056	12.9772	0.5452	36.18	4.68	111.49	24.92	2339.09	338.62	36.18	4.68
5NAC658-332	0.0596	162.5179	0.0464	163.5423	0.0056	18.2676	0.1117	36.27	6.61	46.05	73.75	588.03	3525.37	36.27	6.61
5NAC658-055	0.2960	57.6802	0.2320	64.5301	0.0057	28.9362	0.4484	36.51	10.53	211.85	124.00	3449.32	894.56	36.51	10.53
5NAC658-079	0.2588	88.0316	0.2093	93.5293	0.0059	31.6401	0.3378	37.66	11.88	192.98	165.83	3239.67	1387.72	37.66	11.88
5NAC658-096	0.0714	144.7484	0.0588	146.0445	0.0060	19.3909	0.1329	38.38	7.42	58.04	82.56	968.28	2954.51	38.38	7.42
5NAC658-113	0.3249	36.6533	0.2885	39.9232	0.0064	15.8714	0.3964	41.35	6.54	257.35	91.00	3592.96	562.87	41.35	6.54
5NAC658-043	0.3739	23.3988	0.3402	27.6011	0.0066	14.6422	0.5304	42.36	6.18	297.32	71.26	3807.31	354.01	42.36	6.18
5NAC658-071	0.2020	41.4868	0.1847	47.0841	0.0066	22.3026	0.4729	42.57	9.46	172.07	74.66	2842.23	676.13	42.57	9.46
5NAC658-225	0.3193	26.1835	0.3017	30.4663	0.0068	15.5661	0.5113	43.98	6.82	267.70	71.81	3566.49	402.76	43.98	6.82
5NAC658-339	0.0075	877.2249	0.0071	879.0361	0.0069	56.3963	0.0642	44.26	24.88	7.17	62.91	0.00	21145.06	44.26	24.88
5NAC658-316	0.0298	133.3934	0.0291	150.4091	0.0071	69.5011	0.4620	45.50	31.51	29.15	43.24	0.00	3215.38	45.50	31.51
5NAC658-144	0.3716	29.8860	0.4008	32.0626	0.0078	11.6364	0.3622	50.18	5.82	342.23	93.41	3798.09	452.70	50.18	5.82

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC658, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.981120, LONGITUDE: -69.644530 REJECTED															
5NAC658-304	0.0415	79.7932	0.0589	82.3088	0.0103	20.2118	0.2453	65.95	13.26	58.15	46.55	0.00	1923.38	65.95	13.26
5NAC658-364	0.1317	23.6168	0.2210	26.1877	0.0122	11.3649	0.4321	77.86	8.80	202.71	48.16	2121.34	413.73	77.86	8.80
5NAC658-070	0.1751	25.3614	0.4561	30.2177	0.0189	16.4789	0.5437	120.56	19.68	381.56	96.40	2606.72	422.41	120.56	19.68
5NAC658-216	0.1755	25.1776	0.4665	29.9567	0.0193	16.2160	0.5419	122.98	19.75	388.78	97.06	2610.94	419.18	122.98	19.75
5NAC658-272	0.0564	20.2409	0.1994	28.2293	0.0256	19.6854	0.6971	162.96	31.68	184.59	47.68	469.00	448.01	162.96	31.68
5NAC658-147	0.0815	19.4943	0.2937	21.4442	0.0261	8.9871	0.4166	166.14	14.74	261.49	49.47	1234.18	382.39	166.14	14.74
5NAC658-112	0.0550	38.1149	0.2152	47.8701	0.0283	28.9879	0.6050	180.10	51.48	197.91	86.29	414.00	851.80	180.10	51.48
5NAC658-276	0.7662	14.9827	4.0751	20.0966	0.0385	13.4268	0.6665	243.75	32.12	1649.34	165.29	4860.18	215.00	243.75	32.12
5NAC658-135	0.0563	23.3424	0.2996	30.2061	0.0386	19.1898	0.6347	244.00	45.95	266.11	70.83	463.64	517.14	244.00	45.95
5NAC658-039	0.0865	8.2038	0.4630	9.1765	0.0388	4.2217	0.4482	245.27	10.16	386.31	29.49	1349.34	158.32	245.27	10.16
5NAC658-310	0.0734	8.4902	0.3979	9.3292	0.0393	4.0312	0.4148	248.25	9.82	340.09	26.97	1025.52	171.79	248.25	9.82
5NAC658-237	0.0550	16.7360	0.3003	23.7790	0.0396	16.8941	0.7104	250.15	41.45	266.62	55.82	411.81	374.16	250.15	41.45
5NAC658-193	0.0503	17.6810	0.3306	24.2691	0.0476	16.6245	0.6850	299.94	48.72	290.03	61.30	208.94	409.92	299.94	48.72
5NAC658-200	0.1816	14.5325	1.2825	15.7108	0.0512	5.9745	0.3800	321.75	18.75	837.96	89.87	2667.39	240.65	321.75	18.75
5NAC658-384	0.1037	6.4598	0.8111	9.8422	0.0567	7.4367	0.7545	355.50	25.72	603.06	44.78	1690.62	119.15	355.50	25.72
5NAC658-020	0.0707	32.7983	0.6964	44.8546	0.0714	30.6071	0.6821	444.35	131.44	536.62	189.12	948.92	671.40	444.35	131.44
5NAC658-292	0.0768	28.4133	0.8406	36.6291	0.0793	23.1175	0.6311	491.73	109.46	619.46	171.47	1116.85	566.97	491.73	109.46
5NAC658-104	0.0849	12.3940	0.9650	19.4621	0.0824	15.0850	0.7710	510.22	74.00	685.87	97.34	1313.18	240.40	510.22	74.00
5NAC658-014	0.0663	13.4319	0.8030	20.2580	0.0878	15.1892	0.7486	542.22	78.99	598.53	91.86	816.03	280.72	542.22	78.99
5NAC658-076	0.0951	9.9473	1.1985	13.0326	0.0913	8.5920	0.6462	563.25	46.34	799.92	72.26	1530.39	187.33	563.25	46.34
5NAC658-149	0.1088	48.1998	1.4722	49.1638	0.0980	9.7364	0.1971	602.91	56.04	919.04	306.24	1779.71	879.31	602.91	56.04
5NAC658-296	0.0658	13.3260	0.9060	17.5771	0.0998	11.4668	0.6521	612.98	67.05	654.94	85.04	800.10	279.21	612.98	67.05
5NAC658-201	0.0656	4.3610	0.9099	5.5491	0.1005	3.4398	0.6184	617.27	20.25	657.02	26.85	794.15	91.46	617.27	20.25
5NAC658-008	0.0761	17.2204	1.0873	22.6518	0.1035	14.7271	0.6497	634.73	89.03	747.21	120.37	1098.75	344.55	634.73	89.03
5NAC658-228	0.0679	8.9388	0.9770	9.5665	0.1042	3.3613	0.3563	639.24	20.46	692.08	48.04	865.88	185.37	639.24	20.46
5NAC658-011	0.1366	21.3094	1.9844	26.8392	0.1053	16.2850	0.6080	645.31	100.01	1110.23	183.17	2184.11	370.66	645.31	100.01
5NAC658-355	0.0583	21.2817	0.8506	21.8909	0.1057	5.1267	0.2343	647.90	31.60	624.98	102.51	540.61	465.38	647.90	31.60
5NAC658-386	0.0628	16.3416	0.9239	20.2571	0.1066	11.9900	0.5909	653.16	74.48	664.40	99.09	700.68	347.91	653.16	74.48
5NAC658-139	0.0788	8.3107	1.1665	9.8512	0.1073	5.3557	0.5370	657.29	33.47	785.03	53.91	1165.90	164.64	657.29	33.47
5NAC658-051	0.1266	14.2586	1.9203	17.9177	0.1099	10.8500	0.6056	672.31	69.27	1088.16	120.19	2050.95	251.83	672.31	69.27
5NAC658-189	0.0605	5.2050	0.9587	6.1805	0.1148	3.2050	0.5396	700.54	21.28	682.61	30.72	622.04	112.26	700.54	21.28
5NAC658-282	0.0856	4.3317	1.4363	6.8356	0.1216	5.3417	0.7736	739.96	37.34	904.18	40.94	1328.16	83.84	739.96	37.34
5NAC658-273	0.0748	10.7480	1.2583	17.4088	0.1219	13.7063	0.7867	741.37	96.00	827.15	98.80	1063.22	216.20	741.37	96.00
5NAC658-067	0.0782	10.2378	1.3182	12.8295	0.1221	7.9441	0.6029	742.67	55.73	853.71	74.21	1152.53	203.22	742.67	55.73
5NAC658-116	0.0642	9.7086	1.2034	11.8794	0.1359	6.9365	0.5763	821.60	53.51	802.17	65.97	746.75	205.16	746.75	205.16
5NAC658-184	0.0852	19.0577	1.5124	19.9988	0.1287	5.9936	0.3032	780.44	44.06	935.40	122.83	1319.03	369.35	780.44	44.06
5NAC658-214	0.0671	17.5347	1.3353	22.3070	0.1442	13.7698	0.6181	868.28	111.87	861.18	130.22	841.07	365.03	841.07	365.03
5NAC658-038	0.0711	14.3644	1.8127	17.8249	0.1847	10.5975	0.5921	1092.50	106.51	1050.06	117.16	960.85	293.52	960.85	293.52
5NAC658-227	0.0745	8.7103	1.3672	10.8015	0.1329	6.3628	0.5914	804.34	48.12	874.95	63.43	1056.31	175.39	1056.31	175.39
5NAC658-078	0.0764	9.1601	1.4503	11.9864	0.1376	7.9178	0.6452	831.18	61.75	910.00	72.16	1104.60	183.12	1104.60	183.12
5NAC658-185	0.0768	11.2852	1.4829	15.0353	0.1399	9.8930	0.6608	843.90	78.26	923.42	91.43	1116.77	225.19	1116.77	225.19
5NAC658-311	0.0800	19.0765	2.1643	27.2381	0.1959	19.4757	0.7138	1153.39	205.75	1169.67	191.40	1197.85	376.16	1197.85	376.16
5NAC658-357	0.0804	19.6517	2.2209	29.5481	0.2001	22.0654	0.7468	1175.81	237.27	1187.67	209.81	1207.30	386.97	1207.30	386.97
5NAC658-001	0.0806	15.7390	1.7143	21.2797	0.1541	14.3329	0.6730	923.77	123.37	1013.89	137.30	1212.12	309.71	1212.12	309.71
5NAC658-361	0.0810	17.8018	2.2358	24.9637	0.2000	17.5151	0.7011	1175.16	188.21	1192.33	176.91	1221.60	349.82	1221.60	349.82
5NAC658-248	0.0872	12.9352	1.9142	13.8376	0.1590	4.9815	0.3552	951.32	44.06	1086.03	92.55	1365.34	249.08	1365.34	249.08
5NAC658-151	0.0880	9.0811	2.1530	14.7823	0.1773	11.6899	0.7891	1052.42	113.52	1166.03	102.84	1382.02	174.46	1382.02	174.46
5NAC658-202	0.0912	13.7686	2.0030	14.8518	0.1592	5.5732	0.3749	952.49	49.35	1116.52	100.92	1449.80	262.09	1449.80	262.09
5NAC658-033	0.0923	3.7990	2.1265	5.5675	0.1669	4.1550	0.7312	995.26	38.32	1157.45	38.47	1473.43	72.09	1473.43	72.09
5NAC658-224	0.0933	8.1259	2.0307	15.5550	0.1577	13.2518	0.8527	943.90	116.37	1125.86	106.21	1494.35	153.76	1494.35	153.76

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
5NAC658, MIDDLE OLIGOCENE, MUÑANI FORMATION, LATITUDE: -15.981120, LONGITUDE: -69.644530 REJECTED															
5NAC658-130	0.0940	16.5770	2.8537	26.9957	0.2200	21.3330	0.7893	1281.80	248.10	1369.78	205.75	1508.14	313.10	1508.14	313.10
5NAC658-091	0.0998	8.1004	2.2924	11.3730	0.1664	7.9460	0.7019	992.25	73.08	1209.94	80.57	1620.82	150.78	1620.82	150.78
5NAC658-158	0.1053	11.5701	2.2301	18.5601	0.1535	14.5084	0.7819	920.71	124.49	1190.54	130.83	1718.82	212.66	1718.82	212.66
5NAC658-257	0.1066	4.9376	3.3766	13.6723	0.2296	12.8028	0.9325	1332.36	154.14	1498.97	107.51	1741.38	90.50	1741.38	90.50
5NAC658-179	0.1088	6.7605	3.5493	10.8500	0.2364	8.4537	0.7822	1367.70	104.19	1538.28	86.16	1779.76	123.33	1779.76	123.33
5NAC658-111	0.1236	4.3695	4.7698	6.8550	0.2797	5.4222	0.7708	1590.10	76.41	1779.60	57.60	2008.15	77.56	2008.15	77.56
5NAC658-221	0.1568	14.0612	2.8963	15.0109	0.1338	5.2225	0.3501	809.65	39.74	1380.95	113.77	2421.68	238.59	2421.68	238.59
5NAC658-064	0.1620	15.6779	7.3662	21.9138	0.3295	15.4189	0.6987	1835.85	246.45	2156.87	198.40	2476.62	264.53	2476.62	264.53
5NAC658-036	0.1705	6.2936	8.3457	9.4342	0.3548	7.0931	0.7450	1957.30	119.75	2269.30	85.75	2562.11	105.28	2562.11	105.28
5NAC658-086	0.3229	11.2368	18.4327	17.2581	0.4136	13.0702	0.7590	2231.56	246.66	3012.60	167.73	3583.70	172.66	3583.70	172.66
5NAC658-247	0.8418	104.7871	134.9098	134.4193	1.1613	84.1953	0.6263	4968.17	3143.89	4987.55	65535.00	4994.13	1497.66	4994.13	1497.66
5NAC658-041	0.8706	65.5063	327.9662	87.1806	2.7297	57.5280	0.6599	8485.56	2894.12	5885.11	1350.07	5041.81	935.01	5041.81	935.01
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 ACCEPTED															
1BTB285-115	0.0441	27.6572	0.0595	29.5304	0.0098	10.3669	0.3505	62.72	6.47	58.73	16.85	0.00	666.66	62.72	6.47
1BTB285-146	0.0504	21.9831	0.0956	23.1088	0.0138	7.5076	0.3087	88.08	6.57	92.74	20.48	212.72	509.30	88.08	6.57
1BTB285-149	0.0840	26.7178	0.1945	29.5788	0.0168	12.9100	0.4291	107.25	13.73	180.48	48.95	1293.35	519.68	107.25	13.73
1BTB285-324	0.0486	77.1370	0.1528	78.1988	0.0227	12.8383	0.1642	144.71	18.37	144.36	105.61	128.81	1814.90	144.71	18.37
1BTB285-180	0.0504	10.0615	0.1728	11.4557	0.0249	5.4227	0.4781	158.62	8.50	161.87	17.14	215.06	233.00	158.62	8.50
1BTB285-327	0.0576	8.8878	0.2864	10.1560	0.0359	4.7931	0.4840	227.42	10.71	255.69	22.96	514.67	195.22	227.42	10.71
1BTB285-386	0.0436	24.2677	0.2266	26.6933	0.0376	11.1593	0.4165	238.10	26.09	207.37	50.11	0.00	584.96	238.10	26.09
1BTB285-129	0.0513	8.6715	0.2670	10.7496	0.0378	6.3133	0.5910	239.23	14.83	240.26	23.00	256.37	199.30	239.23	14.83
1BTB285-320	0.0637	11.7022	0.3341	13.5278	0.0379	6.7775	0.5017	239.83	15.96	292.70	34.41	730.36	247.94	239.83	15.96
1BTB285-278	0.0557	8.3981	0.2926	9.8627	0.0380	4.1726	0.5365	240.27	9.84	260.57	22.67	439.11	186.85	240.27	9.84
1BTB285-268	0.0525	11.2981	0.2763	12.9181	0.0380	6.2681	0.4849	240.67	14.81	247.74	28.41	307.86	257.26	240.67	14.81
1BTB285-053	0.0544	16.9122	0.2877	20.7814	0.0383	12.0499	0.5811	242.00	28.62	256.74	47.18	388.54	379.66	242.00	28.62
1BTB285-304	0.0542	9.7212	0.2877	12.9729	0.0384	8.4897	0.6622	242.73	20.22	256.78	29.44	377.37	218.66	242.73	20.22
1BTB285-370	0.0559	16.9984	0.2980	20.4877	0.0386	11.2183	0.5583	243.87	26.85	264.81	47.79	450.14	377.48	243.87	26.85
1BTB285-309	0.0490	22.5230	0.2619	23.9868	0.0386	8.1461	0.3440	244.08	19.51	236.16	50.58	148.02	528.05	244.08	19.51
1BTB285-262	0.0558	19.5878	0.3002	21.8288	0.0389	9.6311	0.4413	246.14	23.26	266.53	51.21	443.18	435.51	246.14	23.26
1BTB285-045	0.0544	11.4530	0.2954	12.4038	0.0393	7.1083	0.4152	248.50	17.33	262.76	28.72	385.89	257.23	248.50	17.33
1BTB285-077	0.0520	10.3228	0.2832	12.7704	0.0395	5.8738	0.6067	249.54	14.38	253.19	28.62	285.80	235.99	249.54	14.38
1BTB285-153	0.0531	6.0850	0.2898	7.4960	0.0395	4.8819	0.5875	250.00	11.97	258.42	17.10	333.84	137.94	250.00	11.97
1BTB285-261	0.0533	8.6304	0.2923	11.2108	0.0396	7.1515	0.6383	250.60	17.58	260.36	25.75	342.69	195.33	250.60	17.58
1BTB285-127	0.0650	23.5002	0.3580	24.5735	0.0399	7.1363	0.2923	252.42	17.67	310.69	65.87	773.21	494.49	252.42	17.67
1BTB285-351	0.0464	23.8553	0.2564	24.8275	0.0400	6.6983	0.2772	252.55	16.59	231.79	51.50	18.65	572.98	252.55	16.59
1BTB285-058	0.0518	7.1019	0.2918	8.6531	0.0408	5.3634	0.5732	257.84	13.56	259.98	19.85	277.40	162.60	257.84	13.56
1BTB285-069	0.0537	7.0296	0.3126	7.8409	0.0422	4.2861	0.4528	266.51	11.19	276.18	18.96	357.22	158.69	266.51	11.19
1BTB285-388	0.0538	12.3080	0.3201	14.0997	0.0431	6.9448	0.4879	272.02	18.50	282.01	34.73	364.48	277.48	272.02	18.50
1BTB285-178	0.0489	25.1245	0.2915	26.0238	0.0433	6.8968	0.2607	273.23	18.45	259.71	59.70	145.07	589.36	273.23	18.45
1BTB285-052	0.0568	15.0984	0.3451	15.5808	0.0440	4.3732	0.2489	277.70	11.89	300.99	40.61	483.90	333.40	277.70	11.89
1BTB285-357	0.0601	21.4778	0.3732	24.7034	0.0449	11.8870	0.4942	283.16	32.93	321.99	68.27	607.20	464.40	283.16	32.93
1BTB285-166	0.0503	8.5620	0.3119	9.4255	0.0449	4.6886	0.4245	283.31	13.00	275.63	22.76	209.17	198.49	283.31	13.00
1BTB285-078	0.0523	10.7885	0.3247	15.8746	0.0450	10.6578	0.7365	283.52	29.56	285.51	39.53	300.63	245.97	283.52	29.56
1BTB285-182	0.0595	14.7757	0.3708	18.6484	0.0453	11.3510	0.6101	285.36	31.69	320.25	51.26	587.16	320.56	285.36	31.69
1BTB285-082	0.0523	8.5800	0.3350	11.3243	0.0465	6.7475	0.6554	292.81	19.32	293.39	28.86	297.90	195.72	292.81	19.32
1BTB285-205	0.0459	23.5963	0.2957	24.8278	0.0468	7.5925	0.3111	294.84	21.88	263.05	57.60	0.00	568.78	294.84	21.88
1BTB285-279	0.0481	26.3227	0.3145	27.3814	0.0473	6.8938	0.2765	297.75	20.06	277.64	66.61	102.53	622.36	297.75	20.06
1BTB285-233	0.0655	15.3402	0.4303	16.5721	0.0476	6.0446	0.3786	299.89	17.71	363.38	50.66	789.11	321.97	299.89	17.71
1BTB285-068	0.0703	11.7151	0.4980	17.3740	0.0513	12.9506	0.7385	322.48	40.74	410.34	58.71	937.79	240.22	322.48	40.74

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 ACCEPTED															
1BTB285-276	0.0551	12.1251	0.3956	13.4845	0.0519	5.0477	0.4429	326.34	16.06	338.46	38.83	414.41	270.95	326.34	16.06
1BTB285-197	0.0513	11.2667	0.3716	14.8548	0.0525	9.7261	0.6517	329.84	31.27	320.85	40.89	254.17	259.05	329.84	31.27
1BTB285-360	0.0548	10.4391	0.4018	12.2602	0.0531	5.9056	0.5263	333.27	19.18	342.95	35.70	403.09	233.74	333.27	19.18
1BTB285-333	0.0648	8.2311	0.4777	11.5970	0.0533	8.0970	0.7045	334.53	26.40	396.46	38.08	767.39	173.36	334.53	26.40
1BTB285-207	0.0560	11.9982	0.4274	16.3447	0.0554	11.0094	0.6791	347.29	37.22	361.31	49.73	454.26	266.25	347.29	37.22
1BTB285-029	0.0554	8.1380	0.4261	10.0315	0.0556	6.8824	0.5922	348.87	23.37	360.41	30.44	428.06	181.42	348.87	23.37
1BTB285-055	0.0560	7.7360	0.4359	10.6559	0.0563	7.2843	0.6877	353.22	25.04	367.39	32.86	453.09	171.70	353.22	25.04
1BTB285-005	0.0641	8.7826	0.5248	13.5043	0.0593	10.2881	0.7596	371.53	37.14	428.36	47.23	744.84	185.65	371.53	37.14
1BTB285-024	0.0752	10.6575	0.6406	13.7105	0.0617	8.8295	0.6293	385.88	33.07	502.67	54.41	1074.93	214.00	385.88	33.07
1BTB285-282	0.0643	9.7296	0.5665	11.9981	0.0637	6.6428	0.5860	397.90	25.63	455.73	44.08	750.82	205.47	397.90	25.63
1BTB285-182	0.0567	5.1768	0.5189	6.1648	0.0663	3.4621	0.5433	413.59	13.87	424.39	21.39	481.66	114.36	413.59	13.87
1BTB285-054	0.0613	8.7483	0.5720	12.9896	0.0675	9.5684	0.7392	421.35	39.03	459.28	48.03	649.10	187.84	421.35	39.03
1BTB285-259	0.0591	7.3817	0.5571	8.3734	0.0681	4.0062	0.4721	424.99	16.48	449.61	30.43	571.66	160.57	424.99	16.48
1BTB285-359	0.0601	7.4381	0.5704	10.2015	0.0686	6.5028	0.6861	427.81	26.92	458.26	37.64	608.12	160.80	427.81	26.92
1BTB285-007	0.0554	92.1543	1.1673	93.0481	0.1526	12.8897	0.1383	915.68	110.04	785.39	559.33	429.01	2054.04	429.01	2054.04
1BTB285-107	0.0611	13.0445	0.5834	13.6019	0.0692	4.5192	0.2869	431.52	18.86	466.65	50.93	641.82	280.43	431.52	18.86
1BTB285-296	0.0572	12.0015	0.5561	15.6807	0.0702	10.0161	0.6436	437.25	42.34	449.01	56.96	500.39	264.26	437.25	42.34
1BTB285-169	0.0614	5.8222	0.5964	6.9169	0.0703	4.5162	0.5497	438.25	19.13	474.96	26.25	654.77	124.90	438.25	19.13
1BTB285-084	0.0553	9.6281	0.5375	14.1380	0.0705	9.9040	0.7330	439.18	42.05	436.75	50.22	424.07	214.79	439.18	42.05
1BTB285-048	0.0584	6.3613	0.5699	7.4803	0.0707	3.7517	0.5267	440.63	15.98	457.95	27.58	543.98	139.03	440.63	15.98
1BTB285-131	0.0595	12.3934	0.5826	16.1274	0.0710	10.5589	0.6401	442.27	45.13	466.14	60.35	583.87	269.03	442.27	45.13
1BTB285-088	0.0608	7.0235	0.6021	10.0874	0.0718	7.6248	0.7187	446.97	32.93	478.57	38.51	631.37	151.25	446.97	32.93
1BTB285-125	0.0563	6.8096	0.5617	8.4853	0.0723	4.9959	0.5967	450.30	21.73	452.66	31.00	463.04	150.88	450.30	21.73
1BTB285-176	0.0572	8.4851	0.5723	11.8311	0.0724	8.2922	0.6969	450.88	36.11	459.49	43.75	501.06	186.81	450.88	36.11
1BTB285-014	0.0587	6.4460	0.5883	6.9702	0.0726	3.3581	0.3911	451.78	14.65	469.81	26.22	556.66	140.57	451.78	14.65
1BTB285-002	0.0574	6.5446	0.5761	8.1276	0.0727	4.8827	0.5930	452.29	21.33	461.92	30.17	508.06	143.91	452.29	21.33
1BTB285-151	0.0568	10.0857	0.5703	14.2589	0.0727	10.3085	0.7071	452.45	45.04	458.23	52.63	485.69	222.64	452.45	45.04
1BTB285-013	0.0608	12.0751	0.6147	16.5355	0.0733	11.2817	0.6832	456.02	49.67	486.54	64.00	630.81	260.06	456.02	49.67
1BTB285-203	0.0799	17.8772	0.8093	20.3564	0.0735	9.9339	0.4784	457.19	43.84	602.08	92.71	1195.72	352.62	457.19	43.84
1BTB285-164	0.0575	7.9066	0.5841	9.8417	0.0736	6.3870	0.5977	458.00	28.24	467.08	36.86	510.29	173.80	458.00	28.24
1BTB285-139	0.0593	8.1584	0.6002	12.3142	0.0737	8.8102	0.7498	458.18	38.97	477.37	46.93	576.93	177.31	458.18	38.97
1BTB285-246	0.0571	9.0555	0.5814	12.1385	0.0737	8.3557	0.6663	458.65	36.99	465.39	45.35	494.34	199.60	458.65	36.99
1BTB285-103	0.0530	11.4854	0.5393	13.9290	0.0738	8.0963	0.5660	458.86	35.86	437.94	49.59	327.72	260.65	458.86	35.86
1BTB285-029	0.0561	10.2176	0.5714	13.7158	0.0738	9.1089	0.6671	458.91	40.35	458.94	50.69	456.97	226.63	458.91	40.35
1BTB285-198	0.0560	10.6830	0.5704	14.8248	0.0738	10.3208	0.6933	458.97	45.72	458.27	54.73	452.89	237.12	458.97	45.72
1BTB285-006	0.0573	5.1605	0.5842	6.5167	0.0738	4.0559	0.6108	459.14	17.97	467.13	24.40	504.48	113.55	459.14	17.97
1BTB285-076	0.0586	8.3163	0.5998	10.7414	0.0742	7.2221	0.6341	461.40	32.16	477.08	40.91	551.51	181.52	461.40	32.16
1BTB285-163	0.0572	6.9156	0.5868	9.2490	0.0743	6.4553	0.6648	462.00	28.78	468.83	34.74	500.77	152.26	462.00	28.78
1BTB285-148	0.0578	9.0491	0.5906	11.3908	0.0743	7.4928	0.6093	462.19	33.42	471.27	42.97	522.28	198.50	462.19	33.42
1BTB285-318	0.0590	10.5401	0.6088	13.9617	0.0745	9.0305	0.6559	463.45	40.38	482.79	53.70	566.41	229.48	463.45	40.38
1BTB285-160	0.0596	4.9885	0.6137	5.8531	0.0747	3.6504	0.5312	464.18	16.35	485.87	22.60	587.88	108.21	464.18	16.35
1BTB285-040	0.0551	5.7139	0.5689	7.3005	0.0748	4.6505	0.6226	464.72	20.85	457.31	26.89	418.17	127.60	464.72	20.85
1BTB285-280	0.0587	9.3961	0.6077	10.7130	0.0748	4.6172	0.4832	464.80	20.71	482.09	41.14	556.89	204.90	464.80	20.71
1BTB285-249	0.0594	10.0047	0.6144	12.7534	0.0748	8.1873	0.6205	464.94	36.73	486.30	49.32	583.57	217.19	464.94	36.73
1BTB285-096	0.0640	11.2093	0.6612	15.5547	0.0749	11.0611	0.6935	465.70	49.70	515.36	62.95	740.53	237.11	465.70	49.70
1BTB285-049	0.0623	9.0980	0.6447	11.9841	0.0749	7.7093	0.6509	465.83	34.65	505.22	47.73	685.92	194.17	465.83	34.65
1BTB285-111	0.0564	4.3289	0.5844	5.1794	0.0751	3.2399	0.5537	466.87	14.59	467.29	19.40	467.72	95.84	466.87	14.59
1BTB285-133	0.0561	8.6716	0.5814	11.8623	0.0751	8.3972	0.6828	467.06	37.83	465.34	44.31	455.18	192.40	467.06	37.83
1BTB285-145	0.0574	6.3581	0.5959	7.9723	0.0752	5.3608	0.6068	467.32	24.17	474.64	30.24	508.57	139.80	467.32	24.17
1BTB285-019	0.0599	7.3691	0.6226	8.7882	0.0753	5.2128	0.5468	467.76	23.52	491.45	34.25	601.27	159.50	467.76	23.52

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 ACCEPTED															
1BTB285-070	0.0554	7.9090	0.5765	8.5361	0.0754	4.0315	0.3860	468.65	18.22	462.22	31.71	428.67	176.30	468.65	18.22
1BTB285-057	0.0578	7.0061	0.6032	7.9954	0.0757	4.3780	0.4858	470.26	19.85	479.26	30.55	520.77	153.73	470.26	19.85
1BTB285-120	0.0536	9.9005	0.5624	11.5810	0.0761	6.0022	0.5188	472.64	27.35	453.11	42.35	353.51	223.64	472.64	27.35
1BTB285-017	0.0565	4.5633	0.5951	5.7324	0.0761	4.9081	0.6420	472.65	22.37	474.09	21.72	473.77	100.92	472.65	22.37
1BTB285-019	0.0537	14.8922	0.5666	19.9409	0.0763	13.7083	0.6654	474.25	62.68	455.82	73.36	356.40	336.23	474.25	62.68
1BTB285-051	0.0582	6.9637	0.6129	9.5853	0.0764	6.9073	0.6879	474.44	31.59	485.37	37.00	535.48	152.41	474.44	31.59
1BTB285-170	0.0566	13.3390	0.5952	17.4202	0.0765	11.3197	0.6432	475.01	51.84	474.17	66.09	475.99	294.89	475.01	51.84
1BTB285-232	0.0570	10.9998	0.6029	14.0612	0.0766	8.5991	0.6230	475.99	39.46	479.10	53.75	491.62	242.57	475.99	39.46
1BTB285-020	0.0583	6.5033	0.6172	8.6190	0.0766	5.9632	0.6572	476.08	27.37	488.10	33.41	542.74	142.16	476.08	27.37
1BTB285-078	0.0551	6.8999	0.5836	7.4270	0.0768	3.6733	0.3857	476.86	16.88	466.79	27.80	415.85	154.15	476.86	16.88
1BTB285-015	0.0595	7.0613	0.6325	8.0071	0.0770	4.3008	0.4755	478.21	19.82	497.63	31.51	585.79	153.23	478.21	19.82
1BTB285-281	0.0731	9.9932	0.7789	12.2385	0.0770	6.6898	0.5781	478.40	30.85	584.86	54.46	1015.36	202.51	478.40	30.85
1BTB285-112	0.0561	8.0755	0.5959	9.9148	0.0770	5.9583	0.5805	478.48	27.48	474.63	37.61	454.42	179.20	478.48	27.48
1BTB285-100	0.0575	7.8975	0.6135	9.2241	0.0773	5.1147	0.5180	479.93	23.66	485.78	35.63	511.84	173.55	479.93	23.66
1BTB285-344	0.0630	10.4588	0.6744	14.3961	0.0773	9.5669	0.6876	480.25	44.28	523.39	58.94	708.95	222.37	480.25	44.28
1BTB285-116	0.0585	9.4311	0.6257	12.3958	0.0777	8.0910	0.6490	482.51	37.62	493.39	48.48	548.70	205.95	482.51	37.62
1BTB285-101	0.0531	8.5061	0.5699	10.7475	0.0777	6.8266	0.6117	482.63	31.74	457.97	39.64	334.40	192.80	482.63	31.74
1BTB285-222	0.0549	14.8953	0.5898	18.4037	0.0778	10.6609	0.5874	483.03	49.61	470.72	69.43	410.18	333.11	483.03	49.61
1BTB285-158	0.0560	6.6392	0.6012	7.4519	0.0778	4.2588	0.4662	483.05	19.82	478.01	28.42	452.21	147.38	483.05	19.82
1BTB285-062	0.0582	10.4055	0.6255	15.2510	0.0779	10.9564	0.7312	483.52	51.04	493.31	59.66	535.63	227.74	483.52	51.04
1BTB285-377	0.0616	12.8161	0.6642	14.0053	0.0781	5.7279	0.4033	484.49	26.73	517.18	56.82	661.39	274.62	484.49	26.73
1BTB285-085	0.0589	7.0357	0.6353	13.6939	0.0782	12.3566	0.8590	485.22	57.76	499.40	54.07	565.17	153.21	485.22	57.76
1BTB285-135	0.0535	13.3509	0.5776	16.8338	0.0782	10.6162	0.6095	485.66	49.67	462.95	62.66	350.10	301.77	485.66	49.67
1BTB285-058	0.0578	9.2259	0.6260	13.2100	0.0783	9.4205	0.7157	486.19	44.12	493.58	51.68	523.74	202.33	486.19	44.12
1BTB285-198	0.0683	11.9084	0.7379	14.7998	0.0785	9.1409	0.5942	487.13	42.89	561.19	63.89	877.12	246.52	487.13	42.89
1BTB285-079	0.0549	7.1327	0.5945	9.4143	0.0785	6.6102	0.6544	487.27	31.02	473.73	35.65	406.98	159.60	487.27	31.02
1BTB285-042	0.0573	4.8051	0.6213	6.3016	0.0786	4.1953	0.6472	487.87	19.71	490.69	24.53	501.92	105.78	487.87	19.71
1BTB285-032	0.0615	9.9514	0.6679	11.2100	0.0787	5.0874	0.4604	488.10	23.92	519.41	45.61	657.56	213.37	488.10	23.92
1BTB285-067	0.0619	8.8003	0.6739	10.9889	0.0788	6.8131	0.5992	489.17	32.09	523.11	44.95	671.44	188.26	489.17	32.09
1BTB285-365	0.0593	25.0530	0.6468	26.1205	0.0789	5.9789	0.2893	489.58	28.19	506.48	104.53	578.64	544.32	489.58	28.19
1BTB285-122	0.0573	7.6338	0.6235	9.3198	0.0790	5.4902	0.5739	490.45	25.93	492.07	36.36	504.87	167.96	490.45	25.93
1BTB285-159	0.0560	6.5498	0.6152	8.0820	0.0797	5.3949	0.5909	494.21	25.67	486.84	31.27	450.66	145.44	494.21	25.67
1BTB285-103	0.0582	17.4582	0.6429	18.2021	0.0802	6.5021	0.2907	497.51	31.13	504.07	72.44	537.00	382.00	497.51	31.13
1BTB285-114	0.0622	10.2872	0.6901	14.0819	0.0804	9.7408	0.6829	498.45	46.72	532.89	58.45	681.61	219.70	498.45	46.72
1BTB285-095	0.0642	9.2084	0.7127	10.6890	0.0804	5.9586	0.5100	498.53	28.59	546.33	45.19	749.45	194.50	498.53	28.59
1BTB285-283	0.0606	10.2447	0.6748	12.2242	0.0804	6.2701	0.5466	498.66	30.09	523.65	50.05	625.69	220.83	498.66	30.09
1BTB285-099	0.0779	32.9043	0.8644	33.3087	0.0805	6.4426	0.1591	499.30	30.95	632.50	158.07	1145.09	653.85	499.30	30.95
1BTB285-073	0.0618	19.5704	0.6874	19.7946	0.0806	3.8430	0.1551	499.69	18.48	531.22	82.05	667.42	418.94	499.69	18.48
1BTB285-063	0.0720	15.6393	0.8026	16.7151	0.0807	6.1808	0.3533	500.50	29.76	598.29	75.71	987.19	318.24	500.50	29.76
1BTB285-244	0.0652	4.1503	0.7285	5.9520	0.0808	4.7621	0.7211	501.15	22.96	555.65	25.48	781.73	87.21	501.15	22.96
1BTB285-245	0.0599	6.1415	0.6694	7.4838	0.0809	4.7712	0.5749	501.72	23.03	520.33	30.48	598.66	132.98	501.72	23.03
1BTB285-035	0.0620	11.7854	0.6944	16.7344	0.0811	11.9764	0.7100	502.80	57.93	535.47	69.75	675.18	251.96	502.80	57.93
1BTB285-065	0.0626	9.3129	0.7040	11.8705	0.0815	7.5687	0.6203	504.84	36.75	541.15	49.84	694.28	198.48	504.84	36.75
1BTB285-274	0.0584	14.0695	0.6589	15.6545	0.0815	6.1463	0.4411	504.97	29.85	513.96	63.22	546.33	307.36	504.97	29.85
1BTB285-178	0.0614	5.1580	0.6910	6.0061	0.0815	3.2015	0.5127	505.17	15.56	533.40	24.93	654.32	110.65	505.17	15.56
1BTB285-251	0.0596	13.3235	0.6719	14.2349	0.0816	5.0074	0.3521	505.89	24.36	521.88	58.15	587.36	289.05	505.89	24.36
1BTB285-168	0.0577	8.5776	0.6479	11.1484	0.0817	6.6784	0.6401	506.28	32.52	507.19	44.53	517.25	188.32	506.28	32.52
1BTB285-152	0.0635	6.4228	0.7163	10.1723	0.0818	8.1788	0.7760	506.93	39.87	548.50	43.13	723.57	136.23	506.93	39.87
1BTB285-046	0.0601	17.5106	0.6823	22.5851	0.0822	14.2145	0.6316	509.44	69.63	528.19	93.27	608.17	378.56	509.44	69.63
1BTB285-172	0.0567	12.2717	0.6422	14.6357	0.0823	8.1370	0.5450	509.99	39.90	503.69	58.18	480.88	271.12	509.99	39.90

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 ACCEPTED															
1BTB285-048	0.0577	8.8486	0.6573	10.3822	0.0824	7.5722	0.5523	510.71	37.18	512.98	41.84	517.48	194.26	510.71	37.18
1BTB285-015	0.0598	15.8826	0.6824	18.4814	0.0825	10.0675	0.5124	511.17	49.48	528.22	76.26	595.47	344.10	511.17	49.48
1BTB285-043	0.0592	5.9408	0.6811	9.0678	0.0833	8.5061	0.7733	515.56	42.15	527.44	37.32	573.11	129.19	515.56	42.15
1BTB285-124	0.0598	8.7190	0.6876	11.2258	0.0834	7.0234	0.6299	516.16	34.84	531.35	46.47	595.55	188.89	516.16	34.84
1BTB285-062	0.0564	9.4907	0.6543	11.1027	0.0840	6.0491	0.5196	520.01	30.22	511.15	44.62	469.95	210.03	520.01	30.22
1BTB285-312	0.0621	12.0442	0.7227	14.6590	0.0840	8.2530	0.5701	520.07	41.24	552.26	62.52	678.11	257.37	520.07	41.24
1BTB285-298	0.0597	9.0870	0.6945	10.8700	0.0840	5.8357	0.5489	520.13	29.16	535.50	45.27	592.30	196.98	520.13	29.16
1BTB285-132	0.0606	10.6859	0.6999	14.7987	0.0841	10.5125	0.6920	520.28	52.55	538.73	61.94	623.58	230.42	520.28	52.55
1BTB285-081	0.0648	12.6094	0.7536	16.9443	0.0843	11.5535	0.6681	521.51	57.88	570.33	74.07	768.44	265.53	521.51	57.88
1BTB285-383	0.0630	14.1258	0.7330	16.8450	0.0843	9.2266	0.5448	521.89	46.26	558.29	72.47	707.65	300.40	521.89	46.26
1BTB285-142	0.0565	9.4988	0.6614	12.6062	0.0848	8.5205	0.6577	524.87	42.95	515.48	51.00	472.46	210.12	524.87	42.95
1BTB285-373	0.0703	7.4736	0.8268	9.6664	0.0852	6.2047	0.6343	526.95	31.40	611.86	44.45	936.81	153.27	526.95	31.40
1BTB285-173	0.0560	9.8600	0.6588	12.6476	0.0852	8.0607	0.6264	527.30	40.81	513.85	51.04	452.78	218.86	527.30	40.81
1BTB285-087	0.0576	8.5569	0.6792	11.4856	0.0855	8.0256	0.6678	528.97	40.76	526.31	47.21	513.13	188.00	528.97	40.76
1BTB285-059	0.0583	5.9816	0.6952	8.1687	0.0865	5.9392	0.6825	534.63	30.47	535.89	34.03	539.50	130.83	534.63	30.47
1BTB285-153	0.0415	100.8826	0.4935	101.0230	0.0865	6.1019	0.0532	534.76	31.31	407.31	352.46	0.00	2431.72	534.76	31.31
1BTB285-123	0.0584	6.4553	0.6973	8.6911	0.0865	5.8132	0.6696	535.07	29.85	537.19	36.27	544.59	141.06	535.07	29.85
1BTB285-271	0.0571	11.5017	0.6839	12.5164	0.0866	4.5888	0.3955	535.55	23.58	529.12	51.66	493.85	253.54	535.55	23.58
1BTB285-310	0.0566	28.9195	0.6795	29.6694	0.0867	6.4980	0.2235	536.09	33.43	526.46	122.47	475.36	639.40	536.09	33.43
1BTB285-128	0.0579	9.1044	0.6934	11.3122	0.0868	6.6637	0.5935	536.58	34.31	534.84	47.07	525.80	199.60	536.58	34.31
1BTB285-170	0.0820	8.9487	0.9823	15.4045	0.0868	12.7469	0.8141	536.65	65.64	694.77	77.66	1245.55	175.25	536.65	65.64
1BTB285-187	0.0546	12.7565	0.6558	15.4987	0.0871	8.8428	0.5679	538.39	45.68	512.07	62.41	394.38	286.07	538.39	45.68
1BTB285-060	0.0549	23.8916	0.6618	25.2900	0.0873	8.0311	0.3281	539.66	41.58	515.69	102.61	406.74	534.62	539.66	41.58
1BTB285-171	0.0598	10.6803	0.7199	14.7466	0.0876	10.2953	0.6896	541.17	53.44	550.62	62.75	595.54	231.39	541.17	53.44
1BTB285-340	0.0653	8.3124	0.7939	9.5544	0.0878	4.6124	0.4931	542.70	24.01	593.38	42.96	784.45	174.60	542.70	24.01
1BTB285-189	0.0586	10.0250	0.7182	14.0793	0.0888	9.9217	0.7021	548.44	52.17	549.61	59.83	552.65	218.77	548.44	52.17
1BTB285-289	0.0670	7.5268	0.8249	9.4652	0.0889	4.9622	0.6128	549.21	26.12	610.76	43.47	837.70	156.77	549.21	26.12
1BTB285-073	0.0647	9.9572	0.7944	12.2835	0.0890	7.2905	0.5856	549.86	38.43	593.66	55.27	763.09	209.86	549.86	38.43
1BTB285-254	0.0771	11.1502	0.9494	15.9867	0.0891	11.4749	0.7166	550.08	60.50	677.82	79.22	1124.07	222.26	550.08	60.50
1BTB285-033	0.0571	20.3334	0.7033	22.0673	0.0891	8.0299	0.3894	550.26	42.35	540.77	92.78	493.96	448.22	550.26	42.35
1BTB285-385	0.0592	25.8083	0.7281	26.9925	0.0892	7.9651	0.2930	550.80	42.05	555.42	115.98	572.76	561.28	550.80	42.05
1BTB285-381	0.0576	9.9283	0.7111	13.2086	0.0895	8.7642	0.6596	552.30	46.39	545.42	55.80	514.50	218.08	552.30	46.39
1BTB285-387	0.0696	19.4713	0.8590	22.7151	0.0895	11.7369	0.5150	552.70	62.17	629.60	106.97	915.22	400.63	552.70	62.17
1BTB285-053	0.0685	11.4132	0.8471	17.2513	0.0896	13.1024	0.7499	553.24	69.47	623.07	80.50	883.85	236.02	553.24	69.47
1BTB285-056	0.0579	12.8846	0.7199	16.7278	0.0899	10.6378	0.6377	555.07	56.58	550.63	71.21	527.81	282.37	555.07	56.58
1BTB285-275	0.0610	6.3854	0.7665	8.4554	0.0909	4.6243	0.6663	560.73	24.83	577.76	37.27	637.53	137.37	560.73	24.83
1BTB285-038	0.0582	10.9511	0.7326	15.6371	0.0910	10.6394	0.7146	561.37	57.20	558.10	67.24	538.20	239.57	561.37	57.20
1BTB285-055	0.0684	6.4485	0.8614	8.1047	0.0913	5.3319	0.6078	563.05	28.75	630.90	38.10	880.53	133.42	563.05	28.75
1BTB285-151	0.0592	6.4773	0.7505	7.7559	0.0922	5.2032	0.5609	568.49	28.31	568.54	33.78	575.21	140.81	568.49	28.31
1BTB285-005	0.0684	10.5843	0.8750	13.6098	0.0925	7.9703	0.6302	570.33	43.50	638.30	64.58	880.87	218.98	570.33	43.50
1BTB285-098	0.0597	5.9788	0.7638	8.0155	0.0928	5.8777	0.6691	571.87	32.17	576.20	35.26	591.71	129.61	571.87	32.17
1BTB285-093	0.0590	9.1085	0.7546	9.8369	0.0928	5.2387	0.4002	572.35	28.69	570.91	42.98	566.90	198.29	572.35	28.69
1BTB285-238	0.0733	6.6431	0.9432	9.8970	0.0932	7.4294	0.7413	574.69	40.85	674.58	48.82	1021.27	134.50	574.69	40.85
1BTB285-031	0.0601	6.8473	0.7750	9.3894	0.0934	6.3657	0.6843	575.61	35.05	582.63	41.65	608.02	148.03	575.61	35.05
1BTB285-169	0.0621	9.2446	0.7985	10.7042	0.0936	4.7966	0.5076	576.58	26.46	595.97	48.29	676.24	197.61	576.58	26.46
1BTB285-371	0.0616	5.5026	0.7977	7.2801	0.0937	4.3255	0.6578	577.26	23.88	595.52	32.81	661.93	117.90	577.26	23.88
1BTB285-241	0.0642	14.0157	0.8364	16.4158	0.0943	8.7037	0.5207	580.97	48.35	617.16	76.06	748.62	296.08	580.97	48.35
1BTB285-009	0.0642	7.5299	0.8404	10.6947	0.0947	6.9285	0.7131	583.09	38.63	619.36	49.63	747.70	159.09	583.09	38.63
1BTB285-092	0.0704	9.5802	0.9241	12.1349	0.0952	7.6754	0.6141	586.10	43.00	664.51	59.24	938.94	196.41	586.10	43.00
1BTB285-174	0.0602	10.3926	0.7910	12.8062	0.0952	7.6305	0.5844	586.31	42.76	591.72	57.49	610.83	224.58	586.31	42.76

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 ACCEPTED															
1BTB285-189	0.0642	8.9212	0.8419	11.3663	0.0953	6.7753	0.6201	586.65	37.99	620.18	52.80	748.58	188.46	586.65	37.99
1BTB285-083	0.0611	7.7958	0.8050	10.4458	0.0955	7.3288	0.6665	587.85	41.18	599.66	47.34	642.98	167.56	587.85	41.18
1BTB285-200	0.0616	4.1975	0.8134	6.0761	0.0957	4.4911	0.7232	589.44	25.30	604.37	27.68	658.87	89.98	589.44	25.30
1BTB285-208	0.0585	14.8120	0.7715	19.7913	0.0958	13.0505	0.6632	589.75	73.55	580.64	87.74	546.70	323.57	589.75	73.55
1BTB285-374	0.0608	7.3071	0.8052	8.3346	0.0958	4.1214	0.4812	589.89	23.23	599.76	37.77	633.86	157.29	589.89	23.23
1BTB285-075	0.0643	9.1121	0.8508	12.7880	0.0958	7.6474	0.7106	590.00	43.12	625.10	59.76	752.80	192.37	590.00	43.12
1BTB285-168	0.0564	13.2949	0.7463	18.3236	0.0959	12.8627	0.6883	590.60	72.59	566.08	79.68	467.07	294.37	590.60	72.59
1BTB285-017	0.0631	7.3065	0.8356	7.5697	0.0960	2.8566	0.2792	590.78	16.13	616.74	35.00	711.07	155.29	590.78	16.13
1BTB285-219	0.0637	6.4353	0.8437	8.4442	0.0960	4.9876	0.6502	591.09	28.17	621.21	39.26	732.19	136.31	591.09	28.17
1BTB285-105	0.0622	11.2064	0.8229	15.4683	0.0960	11.1449	0.6900	591.11	62.95	609.67	71.02	682.45	239.30	591.11	62.95
1BTB285-297	0.0615	11.0136	0.8217	14.1978	0.0964	8.8742	0.6311	593.54	50.32	609.01	65.12	657.86	236.14	593.54	50.32
1BTB285-025	0.0672	4.9231	0.8971	7.5369	0.0968	5.6406	0.7572	595.50	32.09	650.17	36.20	842.81	102.46	595.50	32.09
1BTB285-008	0.0665	10.6240	0.8916	16.4850	0.0969	12.2151	0.7650	596.17	69.56	647.22	79.06	823.23	221.79	596.17	69.56
1BTB285-173	0.0630	8.0210	0.8405	9.9316	0.0971	6.0747	0.5901	597.15	34.65	619.42	46.08	707.09	170.59	597.15	34.65
1BTB285-128	0.0605	6.8333	0.8082	9.5337	0.0972	6.6101	0.6973	597.96	37.75	601.46	43.29	620.32	147.43	597.96	37.75
1BTB285-037	0.0599	8.2636	0.8054	13.0397	0.0973	9.5054	0.7749	598.38	54.32	599.89	59.13	599.00	178.92	598.38	54.32
1BTB285-052	0.0601	6.2756	0.8152	9.8122	0.0981	7.5003	0.7687	603.54	43.21	605.39	44.77	607.33	135.69	603.54	43.21
1BTB285-313	0.0633	9.6455	0.8619	11.0381	0.0983	5.2049	0.4864	604.49	30.03	631.16	51.93	718.77	204.75	604.49	30.03
1BTB285-248	0.0606	11.6498	0.8240	12.5068	0.0985	5.0178	0.3655	605.56	29.00	610.29	57.43	623.32	251.22	605.56	29.00
1BTB285-234	0.0620	12.1908	0.8438	19.1980	0.0986	14.7367	0.7725	606.47	85.30	621.26	89.44	672.95	260.73	606.47	85.30
1BTB285-257	0.0628	9.8013	0.8567	10.8806	0.0987	4.7693	0.4342	606.65	27.61	628.34	51.02	701.60	208.64	606.65	27.61
1BTB285-188	0.0623	7.1044	0.8474	9.1365	0.0989	5.4132	0.6299	608.02	31.41	623.20	42.58	682.91	151.69	608.02	31.41
1BTB285-121	0.0614	5.6878	0.8485	7.7572	0.1001	5.2680	0.6800	615.14	30.91	623.84	36.17	653.93	122.03	615.14	30.91
1BTB285-126	0.0614	8.7281	0.8588	10.6612	0.1014	6.0672	0.5743	622.85	36.02	629.46	50.05	651.68	187.33	622.85	36.02
1BTB285-107	0.0597	13.7616	0.8365	15.1721	0.1017	7.1650	0.4238	624.53	42.65	617.24	70.28	594.05	298.22	624.53	42.65
1BTB285-122	0.0599	6.5346	0.8459	9.3933	0.1024	6.7425	0.7184	628.50	40.38	622.41	43.74	598.72	141.49	628.50	40.38
1BTB285-038	0.0630	11.4704	0.8923	15.1482	0.1026	10.0092	0.6532	629.56	60.04	647.59	72.65	709.02	243.87	629.56	60.04
1BTB285-352	0.0624	10.3522	0.8888	12.8550	0.1031	7.4579	0.5930	632.29	44.92	645.74	61.50	686.54	220.91	632.29	44.92
1BTB285-089	0.0622	10.4033	0.8852	14.4061	0.1031	10.2480	0.6920	632.46	61.74	643.78	68.79	682.13	222.16	632.46	61.74
1BTB285-094	0.0615	8.8832	0.8760	10.9096	0.1032	6.7937	0.5819	633.29	40.98	638.81	51.77	656.78	190.49	633.29	40.98
1BTB285-011	0.0604	8.6223	0.8637	11.6145	0.1034	7.4122	0.6708	634.30	44.78	632.14	54.71	617.51	186.11	634.30	44.78
1BTB285-105	0.0622	7.1620	0.8912	9.4041	0.1038	6.5356	0.6497	636.79	39.63	647.02	45.03	681.32	152.96	636.79	39.63
1BTB285-384	0.0633	12.9561	0.9092	14.3099	0.1042	6.1503	0.4246	638.80	37.40	656.65	69.30	716.69	275.12	638.80	37.40
1BTB285-110	0.0618	5.3251	0.8931	5.6934	0.1050	3.8189	0.4287	643.76	23.40	648.05	27.28	666.77	114.00	643.76	23.40
1BTB285-115	0.0610	11.4484	0.8815	19.5195	0.1051	15.8336	0.8099	644.02	97.05	641.79	93.12	638.28	246.26	644.02	97.05
1BTB285-013	0.0634	5.5772	0.9321	11.1147	0.1062	7.9070	0.8816	650.71	48.94	668.74	54.50	723.07	118.31	650.71	48.94
1BTB285-201	0.0612	7.4535	0.8973	9.9261	0.1064	6.8460	0.6610	651.80	42.44	650.28	47.70	647.52	160.08	651.80	42.44
1BTB285-075	0.0614	5.0576	0.9034	5.0948	0.1067	2.5137	0.2614	653.55	15.62	653.56	24.56	651.94	108.55	653.55	15.62
1BTB285-047	0.0617	7.3345	0.9203	7.3166	0.1078	5.2520	0.3555	660.08	32.95	662.53	35.62	665.28	157.06	660.08	32.95
1BTB285-165	0.0619	9.3838	0.9302	14.2808	0.1089	11.0606	0.7541	666.20	70.01	667.74	69.99	671.33	200.75	666.20	70.01
1BTB285-027	0.0655	8.1078	0.9910	12.4223	0.1094	10.0767	0.7594	669.36	64.07	699.24	62.86	789.53	170.16	669.36	64.07
1BTB285-023	0.0647	6.0826	0.9890	14.8661	0.1105	14.0345	0.9130	675.65	90.03	698.23	75.20	764.55	128.17	675.65	90.03
1BTB285-131	0.0621	6.1719	0.9431	9.0390	0.1105	7.0223	0.7320	675.83	45.06	674.49	44.57	675.90	131.94	675.83	45.06
1BTB285-307	0.0643	7.3020	0.9985	9.3180	0.1121	5.6379	0.6214	684.91	36.63	703.06	47.31	752.34	154.16	684.91	36.63
1BTB285-007	0.0658	8.7427	1.0289	11.7293	0.1131	7.1740	0.6691	690.90	47.00	718.37	60.47	798.85	183.22	690.90	47.00
1BTB285-076	0.0656	11.2138	1.0514	17.0406	0.1163	11.9421	0.7549	708.98	80.18	729.58	88.91	792.07	235.25	708.98	80.18
1BTB285-144	0.0655	11.6138	1.0763	18.6798	0.1195	14.5788	0.7832	727.93	100.36	741.85	98.63	790.32	243.71	727.93	100.36
1BTB285-130	0.0669	6.8960	1.1188	8.6550	0.1212	5.6876	0.6064	737.56	39.64	762.40	46.44	834.39	143.71	737.56	39.64
1BTB285-036	0.0685	8.1755	1.1774	14.9346	0.1246	12.5894	0.8369	757.16	89.94	790.12	82.18	882.38	169.11	757.16	89.94
1BTB285-147	0.0699	14.9460	1.2015	19.7455	0.1251	13.2205	0.6537	759.96	94.78	801.27	109.85	924.03	307.11	759.96	94.78

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 ACCEPTED															
1BTB285-252	0.0669	6.6911	1.1578	8.9579	0.1253	5.9525	0.6649	760.82	42.72	780.93	48.84	833.84	139.45	760.82	42.72
1BTB285-136	0.0649	4.5129	1.1238	4.6767	0.1255	3.0132	0.3756	761.99	21.66	764.79	25.13	771.41	94.99	761.99	21.66
1BTB285-034	0.0685	12.6886	1.1897	18.0859	0.1258	12.9764	0.7126	763.78	93.47	795.84	100.10	884.78	262.36	763.78	93.47
1BTB285-084	0.0653	11.4481	1.1375	16.0822	0.1263	11.5303	0.7025	766.65	83.35	771.31	87.11	783.25	240.51	766.65	83.35
1BTB285-042	0.0663	13.2921	1.1884	19.0344	0.1297	14.5276	0.7173	785.92	107.50	795.22	105.33	815.50	277.82	785.92	107.50
1BTB285-070	0.0690	13.0211	1.2356	14.7633	0.1297	7.0581	0.4713	786.17	52.24	816.89	83.04	899.25	268.64	786.17	52.24
1BTB285-215	0.0705	6.8522	1.2647	8.0016	0.1301	3.4723	0.5242	788.32	25.77	830.03	45.40	943.55	140.38	788.32	25.77
1BTB285-379	0.0721	8.6078	1.3021	12.0182	0.1308	8.4414	0.6979	792.64	62.96	846.63	69.13	988.37	175.13	792.64	62.96
1BTB285-020	0.0676	4.2230	1.2834	7.0696	0.1373	6.7163	0.8135	829.45	52.27	838.37	40.37	855.13	87.72	855.13	87.72
1BTB285-012	0.0683	8.7158	1.4716	13.1033	0.1557	9.4717	0.7471	932.96	82.28	918.78	79.38	878.21	180.40	878.21	180.40
1BTB285-137	0.0719	9.3087	1.5771	12.1021	0.1590	8.2086	0.6402	951.08	72.59	961.24	75.34	983.04	189.54	983.04	189.54
1BTB285-167	0.0721	9.5585	1.6423	11.5482	0.1656	5.9905	0.5629	987.62	54.86	986.59	73.01	989.85	194.43	989.85	194.43
1BTB285-186	0.0722	7.1969	1.4009	9.8921	0.1411	6.5084	0.6867	850.89	51.88	889.32	58.67	990.29	146.38	990.29	146.38
1BTB285-192	0.0723	6.2183	1.5239	9.3588	0.1532	6.1790	0.7531	918.82	52.92	940.06	57.44	993.69	126.41	993.69	126.41
1BTB285-023	0.0726	7.1669	1.6488	9.9343	0.1647	7.1336	0.6929	982.59	65.02	989.09	62.87	1001.52	145.53	1001.52	145.53
1BTB285-091	0.0726	7.0545	1.7086	9.6828	0.1706	6.8867	0.6855	1015.45	64.70	1011.78	62.10	1002.31	143.23	1002.31	143.23
1BTB285-116	0.0728	9.9719	1.7797	13.2959	0.1773	8.8141	0.6614	1052.05	85.56	1038.08	86.65	1007.26	202.32	1007.26	202.32
1BTB285-206	0.0729	13.8903	1.4186	20.2027	0.1413	14.6022	0.7261	851.96	116.55	896.79	120.89	1010.80	281.67	1010.80	281.67
1BTB285-177	0.0729	7.6086	1.5424	10.4539	0.1538	7.2772	0.6858	922.12	62.53	947.45	64.48	1011.71	154.27	1011.71	154.27
1BTB285-211	0.0730	10.2769	1.6804	15.2271	0.1669	11.1771	0.7379	995.16	103.08	1001.12	97.23	1014.81	208.27	1014.81	208.27
1BTB285-001	0.0735	5.3850	1.6416	7.5843	0.1619	5.3979	0.7042	967.22	48.48	986.33	47.89	1027.25	108.93	1027.25	108.93
1BTB285-175	0.0736	4.3640	1.8333	6.2852	0.1804	4.6086	0.7198	1069.15	45.40	1057.45	41.32	1031.81	88.20	1031.81	88.20
1BTB285-072	0.0737	9.2642	1.8331	12.6334	0.1803	8.6711	0.6799	1068.87	85.41	1057.39	83.18	1031.99	187.23	1031.99	187.23
1BTB285-191	0.0737	6.7125	1.6243	7.4787	0.1597	3.4042	0.4411	955.17	30.22	979.65	47.03	1033.24	135.63	1033.24	135.63
1BTB285-319	0.0738	7.8535	1.6887	10.4006	0.1652	6.6491	0.6558	985.62	60.77	1004.26	66.42	1036.60	158.61	1036.60	158.61
1BTB285-292	0.0739	6.3697	1.6663	8.0075	0.1628	4.3216	0.6101	972.08	39.00	995.78	50.86	1039.91	128.58	1039.91	128.58
1BTB285-342	0.0741	7.0924	1.7831	8.4770	0.1739	4.5433	0.5478	1033.80	43.40	1039.30	55.20	1043.65	143.08	1043.65	143.08
1BTB285-391	0.0742	9.1739	1.7998	11.6797	0.1760	7.2916	0.6189	1045.03	70.35	1045.40	76.38	1045.81	185.02	1045.81	185.02
1BTB285-039	0.0742	5.1721	1.5836	10.2695	0.1544	8.2047	0.8666	925.31	70.72	963.77	64.00	1046.55	104.30	1046.55	104.30
1BTB285-138	0.0746	6.6756	1.6031	10.9551	0.1562	8.2456	0.7940	935.75	71.82	971.41	68.61	1058.76	134.37	1058.76	134.37
1BTB285-294	0.0747	9.2152	1.6601	10.7112	0.1606	4.9939	0.5118	960.04	44.55	993.43	67.98	1059.42	185.47	1059.42	185.47
1BTB285-044	0.0747	9.3298	1.8156	11.8201	0.1757	8.9731	0.6279	1043.71	86.47	1051.09	77.54	1060.96	187.73	1060.96	187.73
1BTB285-109	0.0748	7.9780	1.6696	9.8527	0.1621	6.6296	0.5923	968.32	59.61	997.04	62.65	1064.17	160.45	1064.17	160.45
1BTB285-303	0.0750	7.3575	1.8119	10.2381	0.1744	7.0553	0.6954	1036.36	67.55	1049.76	67.08	1069.05	147.87	1069.05	147.87
1BTB285-180	0.0751	12.3026	1.9211	17.8534	0.1853	12.9681	0.7247	1095.66	130.68	1088.44	119.77	1072.43	247.12	1072.43	247.12
1BTB285-138	0.0752	8.6295	2.0535	11.5506	0.1978	8.1560	0.6659	1163.59	86.84	1133.45	79.03	1074.68	173.28	1074.68	173.28
1BTB285-030	0.0753	6.9942	1.7130	7.6145	0.1648	2.8826	0.3957	983.62	26.30	1013.41	48.86	1076.42	140.41	1076.42	140.41
1BTB285-272	0.0755	4.8296	1.6407	5.9349	0.1571	2.9301	0.5890	940.61	25.64	986.00	37.46	1081.41	96.88	1081.41	96.88
1BTB285-026	0.0756	6.7075	1.5115	11.7351	0.1446	10.2804	0.8223	870.46	83.71	935.03	71.83	1083.76	134.51	1083.76	134.51
1BTB285-199	0.0756	6.2074	1.6984	8.2179	0.1631	5.9443	0.6585	973.96	53.74	1007.92	52.57	1085.33	124.45	1085.33	124.45
1BTB285-003	0.0757	9.5286	1.7365	15.4807	0.1659	11.7976	0.7886	989.69	108.25	1022.15	100.07	1086.64	191.00	1086.64	191.00
1BTB285-226	0.0757	6.2079	1.5828	8.9477	0.1515	6.0418	0.7217	909.13	51.23	963.49	55.73	1088.34	124.40	1088.34	124.40
1BTB285-250	0.0759	6.5327	1.6486	7.8573	0.1573	4.3610	0.5556	941.61	38.21	989.02	49.70	1091.30	130.85	1091.30	130.85
1BTB285-129	0.0759	6.4125	1.9968	9.1955	0.1906	6.5395	0.7168	1124.85	67.50	1114.43	62.29	1092.68	128.42	1092.68	128.42
1BTB285-057	0.0760	8.6546	1.8100	11.2848	0.1723	7.1974	0.6418	1024.90	68.20	1049.08	73.94	1095.79	173.24	1095.79	173.24
1BTB285-277	0.0760	8.9303	1.7678	10.6865	0.1680	5.0117	0.5561	1000.96	46.47	1033.70	69.41	1096.25	178.75	1096.25	178.75
1BTB285-363	0.0761	7.7430	1.6948	10.0724	0.1611	5.9193	0.6419	962.96	52.95	1006.58	64.41	1098.06	154.94	1098.06	154.94
1BTB285-092	0.0765	6.1245	1.8172	7.7031	0.1725	5.9560	0.6245	1025.71	56.48	1051.67	50.49	1107.43	122.38	1107.43	122.38
1BTB285-239	0.0766	6.0179	1.8403	8.4420	0.1740	6.0354	0.7014	1034.11	57.67	1059.98	55.59	1110.68	120.19	1110.68	120.19
1BTB285-392	0.0766	14.8069	1.8662	16.3268	0.1767	6.9452	0.4214	1048.70	67.22	1069.20	108.35	1111.03	295.72	1111.03	295.72

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 ACCEPTED															
1BTB285-194	0.0767	8.3455	1.7971	10.1036	0.1703	6.2263	0.5659	1013.49	58.39	1044.41	66.01	1112.97	166.63	1112.97	166.63
1BTB285-093	0.0767	9.6144	2.2010	12.8813	0.2080	8.7708	0.6657	1218.17	97.36	1181.36	90.17	1113.08	191.96	1113.08	191.96
1BTB285-054	0.0768	11.5594	1.7846	16.2855	0.1684	11.6586	0.7045	1003.05	108.31	1039.86	106.36	1116.42	230.68	1116.42	230.68
1BTB285-328	0.0768	6.2439	1.6987	8.0153	0.1597	4.9073	0.6272	954.99	43.56	1008.03	51.27	1117.01	124.59	1117.01	124.59
1BTB285-302	0.0770	7.2325	1.8110	9.9097	0.1698	6.7071	0.6836	1011.05	62.76	1049.43	64.91	1121.59	144.22	1121.59	144.22
1BTB285-161	0.0771	9.2187	2.0103	13.1056	0.1889	9.5249	0.7110	1115.49	97.57	1119.00	89.09	1124.33	183.75	1124.33	183.75
1BTB285-061	0.0773	11.9980	1.7402	18.1732	0.1630	13.7735	0.7511	973.67	124.49	1023.56	117.71	1130.23	238.94	1130.23	238.94
1BTB285-036	0.0774	7.1229	1.7411	12.1861	0.1626	9.2936	0.8129	971.16	83.79	1023.87	78.75	1132.18	141.81	1132.18	141.81
1BTB285-181	0.0775	11.0442	2.0193	15.6327	0.1888	11.0991	0.7077	1114.99	113.65	1122.03	106.55	1134.08	219.82	1134.08	219.82
1BTB285-187	0.0777	11.2554	2.0252	70.8035	0.1895	69.8767	0.9873	1118.41	720.45	1124.00	523.13	1138.79	223.87	1138.79	223.87
1BTB285-090	0.0778	5.7413	1.9245	7.7749	0.1794	6.4134	0.6881	1063.95	62.90	1089.64	52.00	1142.19	114.14	1142.19	114.14
1BTB285-106	0.0780	9.5902	1.9268	13.0684	0.1791	9.1861	0.6797	1062.13	89.96	1090.45	87.57	1145.96	190.55	1145.96	190.55
1BTB285-353	0.0780	10.7408	1.7878	12.2293	0.1657	5.6328	0.4785	988.54	51.62	1041.03	79.80	1146.99	213.37	1146.99	213.37
1BTB285-037	0.0782	9.7110	1.9587	13.4866	0.1814	9.4801	0.6940	1074.89	93.86	1101.45	90.90	1152.49	192.76	1152.49	192.76
1BTB285-236	0.0783	9.8648	2.1221	11.0034	0.1963	5.0134	0.4432	1155.20	53.02	1156.03	76.08	1154.96	195.74	1154.96	195.74
1BTB285-125	0.0785	6.2882	1.8893	9.7505	0.1749	7.4181	0.7643	1039.04	71.19	1077.33	64.83	1160.57	124.67	1160.57	124.67
1BTB285-064	0.0787	7.5723	2.0123	10.9982	0.1851	8.1687	0.7254	1094.93	82.26	1119.68	74.74	1165.17	150.03	1165.17	150.03
1BTB285-110	0.0792	9.7994	2.1217	13.7386	0.1941	9.7535	0.7009	1143.67	102.22	1155.89	95.09	1177.39	193.81	1177.39	193.81
1BTB285-336	0.0797	10.3043	2.1838	13.9402	0.1980	9.3399	0.6735	1164.82	99.54	1175.89	97.39	1188.77	203.46	1188.77	203.46
1BTB285-033	0.0797	10.5838	2.2733	14.4421	0.2068	9.7881	0.6804	1211.52	108.12	1204.05	102.19	1188.82	208.97	1188.82	208.97
1BTB285-004	0.0797	5.6655	1.9043	8.3940	0.1731	6.2431	0.7379	1029.26	59.39	1082.58	55.94	1189.66	111.85	1189.66	111.85
1BTB285-227	0.0797	7.0458	2.2427	9.5438	0.2039	6.0349	0.6759	1196.07	65.88	1194.50	67.12	1190.23	139.09	1190.23	139.09
1BTB285-347	0.0800	9.1124	1.9070	11.5839	0.1723	6.6942	0.6188	1024.88	63.43	1083.55	77.31	1196.87	179.71	1196.87	179.71
1BTB285-299	0.0802	9.8782	2.2790	14.0851	0.2053	9.9641	0.7129	1203.92	109.43	1205.82	99.72	1200.80	194.70	1200.80	194.70
1BTB285-218	0.0804	9.1824	2.0123	11.2358	0.1816	6.0756	0.5775	1075.62	60.19	1119.65	76.36	1205.94	180.85	1205.94	180.85
1BTB285-164	0.0806	6.1942	2.1256	8.3094	0.1918	4.9566	0.6707	1131.26	51.43	1157.16	57.44	1211.48	121.90	1211.48	121.90
1BTB285-295	0.0808	5.8215	2.1861	8.0840	0.1953	5.4711	0.6941	1150.22	57.64	1176.63	56.38	1217.22	114.47	1217.22	114.47
1BTB285-265	0.0811	7.3922	1.9640	10.1334	0.1752	6.9354	0.6840	1040.56	66.65	1103.27	68.28	1223.08	145.23	1223.08	145.23
1BTB285-157	0.0813	6.9050	2.1385	8.3417	0.1914	5.5480	0.5692	1128.95	57.46	1161.33	57.77	1227.96	135.57	1227.96	135.57
1BTB285-321	0.0814	7.1319	2.3903	8.3968	0.2121	4.4180	0.5278	1240.22	49.85	1239.69	60.18	1230.50	139.97	1230.50	139.97
1BTB285-186	0.0815	12.8457	2.5165	17.9633	0.2237	12.5851	0.6990	1301.42	148.34	1276.81	131.25	1234.01	251.98	1234.01	251.98
1BTB285-097	0.0816	7.0626	2.2329	10.3712	0.1986	8.5095	0.7370	1167.86	90.90	1191.41	72.86	1236.38	138.49	1236.38	138.49
1BTB285-117	0.0816	13.9683	2.3287	19.6672	0.2067	13.8576	0.7040	1211.37	153.07	1221.09	140.60	1236.86	273.89	1236.86	273.89
1BTB285-140	0.0820	7.6755	2.3125	11.5423	0.2052	8.5322	0.7469	1203.44	93.67	1216.13	82.00	1244.44	150.34	1244.44	150.34
1BTB285-316	0.0821	7.1246	2.2449	9.2409	0.1974	5.6875	0.6372	1161.46	60.45	1195.21	65.00	1248.37	139.47	1248.37	139.47
1BTB285-085	0.0823	6.8868	2.4678	9.8314	0.2174	7.4122	0.7147	1268.09	85.33	1262.66	71.16	1251.95	134.74	1251.95	134.74
1BTB285-263	0.0824	9.4900	2.1222	13.4732	0.1862	9.5610	0.7098	1100.56	96.74	1156.06	93.25	1255.82	185.57	1255.82	185.57
1BTB285-081	0.0827	6.8914	2.2393	11.3019	0.1964	8.4349	0.7940	1155.70	89.25	1193.45	79.49	1262.04	134.64	1262.04	134.64
1BTB285-221	0.0827	6.8414	2.5966	8.4617	0.2275	4.6501	0.5899	1321.42	55.56	1299.68	62.11	1263.22	133.64	1263.22	133.64
1BTB285-264	0.0828	6.9903	2.1511	9.0398	0.1879	5.7271	0.6341	1110.11	58.41	1165.41	62.74	1263.78	136.54	1263.78	136.54
1BTB285-286	0.0828	6.5147	2.1841	8.6871	0.1906	4.9710	0.6685	1124.40	51.29	1175.99	60.58	1264.39	127.24	1264.39	127.24
1BTB285-204	0.0828	11.0936	2.4279	15.5885	0.2129	11.1277	0.7026	1244.03	125.91	1250.91	112.57	1264.74	216.66	1264.74	216.66
1BTB285-396	0.0838	7.2424	2.1993	9.1488	0.1905	5.6849	0.6111	1123.90	58.63	1180.83	63.94	1287.02	141.00	1287.02	141.00
1BTB285-346	0.0838	6.5900	2.1365	7.8200	0.1843	3.3745	0.5516	1090.43	33.85	1160.69	54.14	1287.68	128.28	1287.68	128.28
1BTB285-202	0.0838	6.8513	2.3947	9.0012	0.2074	6.1625	0.6495	1214.93	68.24	1241.01	64.56	1288.74	133.35	1288.74	133.35
1BTB285-183	0.0839	9.5960	2.0677	13.2834	0.1791	9.1526	0.6915	1061.86	89.61	1138.18	91.15	1290.94	186.71	1290.94	186.71
1BTB285-065	0.0840	7.1317	2.6046	9.0150	0.2246	6.0593	0.6144	1306.06	71.64	1301.94	66.24	1293.62	138.71	1293.62	138.71
1BTB285-343	0.0844	6.0426	2.2040	8.0766	0.1888	5.2729	0.6636	1114.91	53.99	1182.31	56.47	1300.98	117.41	1300.98	117.41
1BTB285-032	0.0844	10.5392	2.3966	13.6626	0.2054	8.1582	0.6377	1204.10	89.61	1241.58	98.19	1301.00	204.77	1301.00	204.77
1BTB285-192	0.0844	4.3357	2.4179	5.6897	0.2075	3.7802	0.6478	1215.66	41.88	1247.93	40.89	1302.42	84.23	1302.42	84.23

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 ACCEPTED															
1BTB285-148	0.0846	8.1451	2.6169	11.3255	0.2243	8.2176	0.6955	1304.43	97.05	1305.40	83.39	1305.57	158.16	1305.57	158.16
1BTB285-090	0.0850	13.8793	2.6969	19.7138	0.2301	14.1222	0.7102	1334.84	170.31	1327.60	147.04	1314.48	269.16	1314.48	269.16
1BTB285-183	0.0851	8.5929	2.7075	12.1355	0.2306	8.6146	0.7061	1337.66	104.07	1330.50	90.22	1317.44	166.57	1317.44	166.57
1BTB285-118	0.0851	5.7441	2.6250	8.2865	0.2236	6.0015	0.7208	1300.67	70.69	1307.65	61.00	1317.68	111.35	1317.68	111.35
1BTB285-104	0.0852	8.3885	2.6799	11.7820	0.2281	8.6034	0.7027	1324.50	103.02	1322.94	87.34	1318.96	162.58	1318.96	162.58
1BTB285-181	0.0852	6.5869	2.5889	9.2391	0.2209	6.4327	0.7012	1286.50	75.02	1297.51	67.77	1320.07	127.64	1320.07	127.64
1BTB285-006	0.0852	8.2412	2.3321	12.0969	0.1979	8.2912	0.7336	1164.08	88.31	1222.13	86.17	1320.34	159.69	1320.34	159.69
1BTB285-212	0.0853	13.2384	2.6141	19.1198	0.2222	13.7474	0.7215	1293.62	161.16	1304.61	141.33	1323.22	256.42	1323.22	256.42
1BTB285-039	0.0858	9.6816	2.4283	14.1647	0.2052	10.4497	0.7300	1203.14	114.70	1251.01	102.22	1332.60	187.28	1332.60	187.28
1BTB285-380	0.0858	5.5412	2.6034	7.6274	0.2197	5.3278	0.6873	1280.29	61.87	1301.58	56.01	1334.57	107.16	1334.57	107.16
1BTB285-194	0.0859	4.2305	2.5176	5.7696	0.2123	4.0325	0.6802	1241.22	45.53	1277.13	41.95	1336.43	81.79	1336.43	81.79
1BTB285-102	0.0861	5.8725	2.7212	7.0913	0.2296	5.6170	0.5944	1332.41	67.62	1334.26	52.70	1339.83	113.48	1339.83	113.48
1BTB285-188	0.0861	6.7585	2.7537	8.9341	0.2318	5.9040	0.6541	1343.79	71.62	1343.10	66.64	1340.40	130.59	1340.40	130.59
1BTB285-358	0.0862	10.6302	2.6117	15.5467	0.2192	11.0561	0.7299	1277.72	128.16	1303.95	114.64	1342.02	205.36	1342.02	205.36
1BTB285-184	0.0863	8.4051	2.6088	11.8498	0.2196	8.1285	0.7052	1279.77	94.36	1303.13	87.19	1345.88	162.29	1345.88	162.29
1BTB285-011	0.0864	5.1864	2.6214	6.3975	0.2198	4.0975	0.5879	1280.91	47.60	1306.65	47.06	1347.23	100.12	1347.23	100.12
1BTB285-217	0.0866	6.2825	2.5508	8.7151	0.2136	5.6096	0.6950	1248.23	63.66	1286.68	63.65	1351.37	121.21	1351.37	121.21
1BTB285-044	0.0868	6.7743	2.5996	9.8244	0.2170	7.0153	0.7243	1266.06	80.64	1300.52	72.16	1356.14	130.61	1356.14	130.61
1BTB285-143	0.0872	5.1625	2.6819	9.2200	0.2238	7.5394	0.8286	1302.16	88.90	1323.49	68.29	1363.91	99.43	1363.91	99.43
1BTB285-049	0.0873	7.3710	2.6746	8.5560	0.2215	6.8351	0.5608	1289.89	79.91	1321.47	63.32	1368.20	141.88	1368.20	141.88
1BTB285-196	0.0874	6.2428	2.3233	7.5101	0.1930	4.8746	0.5626	1137.75	50.84	1219.43	53.36	1370.00	120.13	1370.00	120.13
1BTB285-118	0.0877	8.4437	2.4849	12.7454	0.2060	9.5867	0.7491	1207.61	105.58	1267.66	92.53	1375.13	162.37	1375.13	162.37
1BTB285-041	0.0877	5.7528	2.7517	8.6552	0.2273	6.5420	0.7472	1320.23	78.10	1342.55	64.55	1376.59	110.60	1376.59	110.60
1BTB285-270	0.0878	6.4912	2.8952	8.6900	0.2384	5.4834	0.6658	1378.46	68.05	1380.66	65.68	1377.64	124.78	1377.64	124.78
1BTB285-045	0.0881	6.0699	2.7161	8.5065	0.2233	5.8399	0.7007	1299.52	68.73	1332.87	63.21	1385.19	116.56	1385.19	116.56
1BTB285-063	0.0882	5.9042	2.3658	9.7126	0.1944	7.4298	0.7946	1144.94	77.94	1232.34	69.43	1385.77	113.37	1385.77	113.37
1BTB285-095	0.0883	14.2832	2.6898	20.8019	0.2211	15.6026	0.7274	1287.92	182.20	1325.66	155.17	1388.90	274.15	1388.90	274.15
1BTB285-230	0.0883	10.2541	2.7745	13.8439	0.2276	9.1505	0.6719	1322.06	109.39	1348.69	103.69	1389.47	196.80	1389.47	196.80
1BTB285-200	0.0883	5.5734	2.7593	7.1856	0.2269	4.9461	0.6336	1318.09	58.96	1344.61	53.60	1389.58	106.96	1389.58	106.96
1BTB285-010	0.0890	5.8259	2.4157	11.4954	0.1966	9.9407	0.8621	1156.91	105.28	1247.28	82.73	1405.01	111.57	1405.01	111.57
1BTB285-199	0.0892	5.9515	3.3013	8.1080	0.2682	5.5848	0.6792	1531.71	76.14	1481.36	63.27	1408.30	113.93	1408.30	113.93
1BTB285-348	0.0896	5.2619	2.8451	8.0639	0.2295	5.9056	0.7582	1331.95	71.07	1367.51	60.66	1417.24	100.60	1417.24	100.60
1BTB285-355	0.0899	7.2166	2.8796	8.9931	0.2315	4.5973	0.6039	1342.41	55.71	1376.59	67.88	1424.47	137.84	1424.47	137.84
1BTB285-195	0.0902	10.5519	2.9481	12.7575	0.2376	7.5988	0.5630	1373.95	94.04	1394.36	97.02	1428.79	201.43	1428.79	201.43
1BTB285-024	0.0904	4.8014	3.1562	7.8247	0.2524	7.1509	0.7980	1450.87	92.91	1446.51	60.41	1433.71	91.60	1433.71	91.60
1BTB285-349	0.0904	6.2498	2.9235	8.4646	0.2338	5.4888	0.6749	1354.41	67.05	1388.02	64.13	1433.87	119.22	1433.87	119.22
1BTB285-030	0.0904	7.9577	2.6778	12.6141	0.2141	9.3142	0.7768	1250.87	105.91	1322.35	93.52	1433.87	151.80	1433.87	151.80
1BTB285-056	0.0904	9.4992	2.8674	13.3856	0.2298	9.6574	0.7047	1333.44	116.34	1373.40	101.10	1434.52	181.20	1434.52	181.20
1BTB285-216	0.0905	5.5333	3.0248	7.8735	0.2424	5.1341	0.7141	1399.02	64.57	1413.89	60.15	1436.40	105.52	1436.40	105.52
1BTB285-003	0.0906	7.1418	3.1382	10.1220	0.2510	7.2155	0.7087	1443.81	93.34	1442.11	78.09	1437.82	136.17	1437.82	136.17
1BTB285-021	0.0910	9.1692	2.6264	13.0526	0.2091	9.4796	0.7119	1224.24	105.71	1308.05	96.27	1446.33	174.62	1446.33	174.62
1BTB285-059	0.0911	6.6325	3.1148	22.8069	0.2476	21.8065	0.9568	1426.18	279.18	1436.35	177.07	1447.87	126.29	1447.87	126.29
1BTB285-050	0.0916	5.1466	3.0919	7.2544	0.2447	5.5195	0.7068	1411.00	69.95	1430.68	55.71	1458.46	97.85	1458.46	97.85
1BTB285-040	0.0919	6.6743	2.7912	10.0420	0.2197	9.0398	0.7602	1280.19	104.97	1353.19	75.21	1464.91	126.79	1464.91	126.79
1BTB285-260	0.0924	12.1830	2.5791	13.6755	0.2020	6.2081	0.4543	1185.82	67.25	1294.72	100.39	1474.85	231.13	1474.85	231.13
1BTB285-368	0.0927	8.0765	3.2302	14.9937	0.2522	11.8619	0.8442	1449.86	154.04	1464.45	116.77	1481.83	153.08	1481.83	153.08
1BTB285-382	0.0938	7.0156	3.2107	9.5195	0.2479	6.5051	0.6760	1427.54	83.30	1459.74	73.83	1505.09	132.56	1505.09	132.56
1BTB285-043	0.0940	3.6457	3.0917	4.6280	0.2383	3.0177	0.6170	1377.84	37.44	1430.62	35.52	1508.37	68.86	1508.37	68.86
1BTB285-315	0.0941	9.1083	2.8986	10.6479	0.2225	5.3038	0.5183	1295.10	62.23	1381.54	80.55	1509.64	172.00	1509.64	172.00
1BTB285-171	0.0949	7.1442	3.0007	10.5473	0.2291	7.9840	0.7360	1329.98	95.96	1407.79	80.49	1526.18	134.62	1526.18	134.62

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 ACCEPTED															
1BTB285-375	0.0954	8.3288	3.8069	10.5148	0.2891	6.4890	0.6104	1637.16	93.82	1594.21	84.75	1535.04	156.76	1535.04	156.76
1BTB285-159	0.0955	5.7734	3.5212	7.2542	0.2681	5.3072	0.6163	1531.32	72.34	1531.98	57.43	1538.33	108.62	1538.33	108.62
1BTB285-184	0.0956	8.6598	3.4187	12.0892	0.2593	8.4776	0.6978	1486.14	112.53	1508.70	95.25	1538.99	162.90	1538.99	162.90
1BTB285-326	0.0962	6.9657	3.0227	8.8400	0.2270	5.3336	0.6158	1318.65	63.61	1413.36	67.55	1551.41	130.82	1551.41	130.82
1BTB285-209	0.0962	11.3470	3.3462	15.5575	0.2525	10.5498	0.6842	1451.12	137.10	1491.90	122.21	1551.56	213.10	1551.56	213.10
1BTB285-101	0.0963	8.6351	2.9428	11.0931	0.2219	8.0151	0.6340	1292.15	93.85	1393.00	84.26	1553.44	162.13	1553.44	162.13
1BTB285-130	0.0964	6.1090	3.5257	12.2767	0.2659	10.9133	0.8677	1520.17	147.82	1533.00	97.41	1555.78	114.67	1555.78	114.67
1BTB285-068	0.0964	3.8412	3.4675	4.4474	0.2606	3.3662	0.5463	1492.84	44.86	1519.86	35.06	1556.23	72.10	1556.23	72.10
1BTB285-047	0.0964	2.0321	3.3981	3.3859	0.2553	2.4335	0.8045	1465.94	31.91	1503.95	26.57	1556.31	38.14	1556.31	38.14
1BTB285-074	0.0968	5.6095	3.4631	9.4030	0.2594	5.9100	0.8267	1486.77	78.48	1518.84	74.22	1562.42	105.20	1562.42	105.20
1BTB285-120	0.0971	6.1376	3.4752	8.0546	0.2601	5.3633	0.6478	1490.35	71.37	1521.60	63.59	1569.49	115.00	1569.49	115.00
1BTB285-167	0.0974	4.8407	3.1564	6.8955	0.2349	5.5286	0.7172	1360.31	67.80	1446.56	53.22	1574.28	90.64	1574.28	90.64
1BTB285-267	0.0974	6.0436	3.0207	9.4049	0.2242	7.2100	0.7662	1303.96	85.12	1412.87	71.86	1575.15	113.15	1575.15	113.15
1BTB285-306	0.0978	11.9148	3.0853	14.7046	0.2278	8.5173	0.5861	1322.84	101.87	1429.05	113.23	1582.90	222.86	1582.90	222.86
1BTB285-367	0.0981	6.7061	3.3825	10.0113	0.2496	6.0314	0.7588	1436.54	77.67	1500.35	78.61	1587.68	125.36	1587.68	125.36
1BTB285-253	0.0983	8.7317	3.4296	12.5978	0.2525	9.0786	0.7208	1451.52	118.01	1511.20	99.35	1591.28	163.14	1591.28	163.14
1BTB285-240	0.0984	7.1606	3.6849	9.8571	0.2712	6.9717	0.6875	1547.01	95.89	1568.11	78.88	1593.77	133.75	1593.77	133.75
1BTB285-323	0.0987	6.2188	3.5146	8.3464	0.2571	5.5557	0.6670	1475.23	73.26	1530.50	66.07	1599.96	116.06	1599.96	116.06
1BTB285-061	0.0991	6.4388	3.7730	10.3188	0.2758	7.7939	0.7819	1570.30	108.63	1587.02	83.01	1606.31	120.07	1606.31	120.07
1BTB285-080	0.0999	2.9100	3.7593	4.2541	0.2726	3.8731	0.7474	1554.05	53.49	1584.11	34.13	1622.95	54.15	1622.95	54.15
1BTB285-399	0.1001	7.7487	3.8889	10.8294	0.2819	7.6356	0.6986	1601.05	108.26	1611.38	87.69	1625.79	144.14	1625.79	144.14
1BTB285-112	0.1006	4.9217	3.7766	6.3237	0.2727	5.1275	0.6485	1554.56	70.83	1587.79	50.81	1635.72	91.43	1635.72	91.43
1BTB285-082	0.1015	9.0256	3.7748	14.6850	0.2696	11.8135	0.7890	1538.90	161.76	1587.40	118.41	1651.03	167.31	1651.03	167.31
1BTB285-191	0.1019	8.0838	3.9277	11.0373	0.2801	6.7629	0.6847	1591.63	95.39	1619.41	89.56	1659.01	149.70	1659.01	149.70
1BTB285-162	0.1032	5.2033	3.9669	8.3105	0.2786	6.7781	0.7805	1584.28	95.21	1627.46	67.49	1682.34	96.07	1682.34	96.07
1BTB285-237	0.1038	14.1317	3.9087	22.6136	0.2728	17.6931	0.7807	1555.11	244.59	1615.48	184.85	1692.53	260.59	1692.53	260.59
1BTB285-225	0.1049	5.5001	4.4614	7.5107	0.3081	4.5978	0.6849	1731.47	69.82	1723.82	62.38	1713.42	101.16	1713.42	101.16
1BTB285-136	0.1053	4.9689	4.1504	9.8055	0.2868	7.9998	0.8634	1625.49	114.95	1664.29	80.40	1718.82	91.33	1718.82	91.33
1BTB285-139	0.1059	5.0476	4.4586	6.2966	0.3051	4.6629	0.6116	1716.35	70.27	1723.31	52.27	1730.41	92.64	1730.41	92.64
1BTB285-111	0.1069	5.9960	3.6206	7.6675	0.2461	5.7763	0.6345	1418.16	73.54	1554.08	61.08	1747.46	109.82	1747.46	109.82
1BTB285-016	0.1078	14.3178	4.7991	20.4539	0.3218	15.0138	0.7144	1798.44	235.73	1784.75	173.54	1762.74	261.74	1762.74	261.74
1BTB285-156	0.1080	5.2744	4.3305	9.8742	0.2917	8.8632	0.8469	1650.26	129.06	1699.19	81.63	1765.43	96.39	1765.43	96.39
1BTB285-114	0.1080	5.7729	4.5627	7.8530	0.3071	6.2346	0.6864	1726.29	94.43	1742.48	65.49	1765.59	105.50	1765.59	105.50
1BTB285-214	0.1089	5.0185	4.4865	7.5470	0.2987	5.1727	0.7496	1684.90	76.70	1728.47	62.74	1781.87	91.53	1781.87	91.53
1BTB285-224	0.1099	5.3051	4.4926	7.2877	0.2963	4.4661	0.6899	1673.05	65.81	1729.61	60.60	1797.74	96.57	1797.74	96.57
1BTB285-247	0.1107	6.6989	4.4909	11.2583	0.2935	9.2924	0.8040	1659.21	135.96	1729.29	93.76	1811.41	121.71	1811.41	121.71
1BTB285-157	0.1110	10.6208	4.3821	13.9546	0.2862	9.4136	0.6491	1622.68	135.06	1708.98	115.87	1815.09	192.89	1815.09	192.89
1BTB285-397	0.1111	6.4728	5.2614	8.6783	0.3437	5.8725	0.6662	1904.25	96.83	1862.63	74.18	1817.09	117.53	1817.09	117.53
1BTB285-172	0.1111	10.0695	5.2170	14.2364	0.3403	10.1988	0.7070	1887.98	166.95	1855.39	121.88	1817.66	182.82	1817.66	182.82
1BTB285-119	0.1114	7.8064	5.1292	10.7185	0.3348	7.3961	0.6853	1861.63	119.60	1840.95	91.32	1821.60	141.67	1821.60	141.67
1BTB285-014	0.1124	4.9222	4.7046	6.7430	0.3026	5.7699	0.7008	1703.94	86.40	1768.06	56.52	1838.73	89.15	1838.73	89.15
1BTB285-109	0.1127	7.4507	5.1089	10.6047	0.3285	7.9068	0.7124	1831.27	126.06	1837.59	90.29	1843.40	134.81	1843.40	134.81
1BTB285-372	0.1128	6.5897	4.8869	8.3779	0.3137	5.2556	0.6176	1758.69	80.90	1799.99	70.73	1845.11	119.20	1845.11	119.20
1BTB285-150	0.1142	6.4597	5.1728	8.9901	0.3284	6.6154	0.6966	1830.58	105.43	1848.16	76.64	1866.67	116.56	1866.67	116.56
1BTB285-165	0.1142	9.4279	5.1108	13.3752	0.3254	9.1598	0.7098	1816.19	145.00	1837.90	114.06	1867.58	170.10	1867.58	170.10
1BTB285-051	0.1143	14.0422	4.3268	18.2950	0.2739	11.6996	0.6410	1560.73	162.21	1698.49	152.02	1868.71	253.31	1868.71	253.31
1BTB285-345	0.1147	6.9677	4.8914	9.1178	0.3083	5.3149	0.6483	1732.36	80.74	1800.78	77.01	1874.75	125.61	1874.75	125.61
1BTB285-162	0.1147	8.0603	5.5754	20.8184	0.3536	19.2170	0.9220	1951.81	323.89	1912.30	181.14	1874.82	145.30	1874.82	145.30
1BTB285-266	0.1153	7.3374	4.9174	10.6144	0.3084	7.6737	0.7226	1732.61	116.60	1805.25	89.80	1884.50	132.12	1884.50	132.12
1BTB285-069	0.1155	9.9551	4.5625	14.8703	0.2863	11.1860	0.7429	1622.92	160.52	1742.45	124.47	1886.98	179.20	1886.98	179.20

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 ACCEPTED															
1BTB285-009	0.1155	4.1650	4.9607	5.7613	0.3113	4.0570	0.6910	1747.11	62.09	1812.64	48.72	1887.07	74.97	1887.07	74.97
1BTB285-185	0.1172	5.3874	5.4548	7.8154	0.3373	5.7247	0.7245	1873.57	93.08	1893.52	67.16	1913.99	96.68	1913.99	96.68
1BTB285-285	0.1177	9.1073	5.0970	12.4845	0.3128	8.0377	0.6852	1754.64	123.48	1835.61	106.36	1921.56	163.29	1921.56	163.29
1BTB285-361	0.1189	5.7257	5.5882	8.3454	0.3401	5.5138	0.7309	1886.96	90.20	1914.29	72.00	1939.59	102.45	1939.59	102.45
1BTB285-108	0.1198	6.1070	5.5376	7.8842	0.3357	5.9490	0.6423	1865.87	96.39	1906.46	67.91	1953.86	109.09	1953.86	109.09
1BTB285-231	0.1200	4.2903	4.8638	6.5334	0.2937	4.6372	0.7556	1659.90	67.86	1796.00	55.08	1956.07	76.62	1956.07	76.62
1BTB285-117	0.1236	4.1386	6.0288	5.2549	0.3545	3.3529	0.6166	1956.12	56.57	1980.01	45.80	2008.77	73.46	2008.77	73.46
1BTB285-284	0.1240	5.8706	5.4577	9.9699	0.3180	7.5247	0.8102	1779.96	117.05	1893.97	85.76	2014.32	104.13	2014.32	104.13
1BTB285-154	0.1254	5.7817	5.9734	8.2992	0.3453	6.4910	0.7201	1912.00	107.41	1971.97	72.31	2034.17	102.31	2034.17	102.31
1BTB285-060	0.1255	4.8011	6.2656	6.4576	0.3619	4.6953	0.6711	1991.23	80.44	2013.65	56.60	2035.30	84.95	2035.30	84.95
1BTB285-195	0.1258	5.7644	6.1230	8.6172	0.3528	6.4728	0.7434	1947.89	108.83	1993.53	75.35	2039.66	101.94	2039.66	101.94
1BTB285-390	0.1267	6.8091	6.6029	9.3090	0.3779	6.4193	0.6819	2066.69	113.51	2059.73	82.27	2052.03	120.24	2052.03	120.24
1BTB285-210	0.1270	8.4194	6.0852	12.2001	0.3478	8.7542	0.7237	1924.05	145.65	1988.13	106.79	2056.50	148.60	2056.50	148.60
1BTB285-123	0.1273	4.5494	6.6013	6.8276	0.3771	5.2418	0.7460	2062.93	92.55	2059.52	60.28	2060.39	80.26	2060.39	80.26
1BTB285-091	0.1277	3.5896	6.0061	5.9845	0.3414	6.0477	0.8220	1893.56	99.24	1976.73	52.14	2066.09	63.29	2066.09	63.29
1BTB285-228	0.1282	5.7849	6.2425	8.3863	0.3528	5.6431	0.7259	1947.78	94.87	2010.42	73.52	2074.01	101.90	2074.01	101.90
1BTB285-193	0.1300	6.4508	6.3814	9.8301	0.3566	6.6542	0.7590	1966.27	112.78	2029.71	86.50	2097.81	113.31	2097.81	113.31
1BTB285-034	0.1310	5.4847	6.6728	10.6378	0.3682	8.4668	0.8592	2020.83	146.90	2069.03	94.21	2111.87	96.19	2111.87	96.19
1BTB285-100	0.1323	6.8176	6.5232	9.3263	0.3582	7.5001	0.6916	1973.41	127.51	2049.04	82.29	2128.10	119.34	2128.10	119.34
1BTB285-332	0.1330	11.5090	5.7385	14.6172	0.3118	8.9458	0.6165	1749.60	137.09	1937.19	127.05	2137.35	201.25	2137.35	201.25
1BTB285-235	0.1398	5.0485	7.3075	7.1296	0.3786	5.1690	0.7064	2069.84	91.52	2149.72	63.76	2224.76	87.44	2224.76	87.44
1BTB285-335	0.1434	9.5000	7.8657	12.5469	0.3964	8.1399	0.6532	2152.24	148.97	2215.75	113.50	2268.37	163.74	2268.37	163.74
1BTB285-395	0.1462	6.1690	7.9040	8.6834	0.3920	6.1980	0.7038	2132.16	112.53	2220.14	78.42	2302.50	105.98	2302.50	105.98
1BTB285-146	0.1580	6.2635	9.4110	8.3065	0.4332	6.1681	0.6618	2320.31	120.21	2378.91	76.39	2434.54	106.14	2434.54	106.14
1BTB285-331	0.1696	4.9756	10.8224	7.0352	0.4610	4.8539	0.7072	2444.15	98.75	2507.99	65.48	2553.45	83.31	2553.45	83.31
1BTB285-046	0.1712	7.2379	9.3235	23.5469	0.3940	23.0198	0.9519	2141.43	420.03	2370.34	219.28	2569.06	121.00	2569.06	121.00
1BTB285-140	0.1729	3.7248	11.0409	4.7385	0.4627	3.5340	0.6291	2451.33	72.06	2526.59	44.15	2586.38	62.16	2586.38	62.16
1BTB285-035	0.1760	4.1630	10.9862	9.6544	0.4514	8.0301	0.9052	2401.52	161.03	2521.96	90.09	2615.18	69.28	2615.18	69.28
1BTB285-242	0.1780	6.0190	11.0778	8.5910	0.4507	6.3476	0.7140	2398.18	127.14	2529.70	80.18	2633.99	99.99	2633.99	99.99
1BTB285-083	0.1836	9.4238	13.6774	26.3499	0.5403	24.4216	0.9339	2784.53	553.56	2727.63	254.52	2685.78	155.78	2685.78	155.78
1BTB285-398	0.1863	5.9814	13.6625	8.2858	0.5322	5.8263	0.6921	2750.58	130.47	2726.60	78.55	2709.55	98.66	2709.55	98.66
1BTB285-288	0.1928	5.9258	13.0176	7.9715	0.4877	4.4850	0.6789	2560.60	94.78	2680.93	75.30	2766.33	97.23	2766.33	97.23
1BTB285-008	0.2447	7.3522	18.3489	9.5738	0.5434	6.1819	0.6405	2797.62	140.33	3008.21	92.44	3150.57	116.72	3150.57	116.72
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 REJECTED															
1BTB285-338	0.1107	65.5656	0.2078	67.5737	0.0136	16.3232	0.2420	86.85	14.08	191.67	118.57	1810.50	1191.38	86.85	14.08
1BTB285-156	0.0557	151.8307	0.2087	152.9317	0.0272	18.4995	0.1198	172.80	31.54	192.45	274.62	439.20	3378.14	172.80	31.54
1BTB285-050	0.1799	14.8117	0.9321	20.1396	0.0375	13.6226	0.6776	237.17	31.72	668.72	98.96	2652.29	245.62	237.17	31.72
1BTB285-190	0.1045	5.5181	0.5822	9.0473	0.0405	6.3769	0.7979	255.70	15.99	465.87	33.82	1706.41	101.58	255.70	15.99
1BTB285-028	0.1921	10.5886	1.1682	14.4252	0.0440	10.4371	0.6805	277.32	28.33	785.80	79.08	2760.24	173.83	277.32	28.33
1BTB285-155	0.0369	59.3842	0.2279	68.3259	0.0449	33.9237	0.4946	283.02	93.94	208.50	129.48	0.00	1431.43	283.02	93.94
1BTB285-317	0.0931	8.1720	0.6216	9.5282	0.0482	4.6603	0.5149	303.67	13.82	490.85	37.10	1489.24	154.74	303.67	13.82
1BTB285-196	0.1072	24.1702	0.7667	32.8277	0.0518	22.2335	0.6767	325.67	70.61	577.85	145.64	1752.62	442.40	325.67	70.61
1BTB285-099	0.0834	6.6871	0.6135	11.1904	0.0533	9.3034	0.8023	335.01	30.37	485.76	43.23	1277.44	130.36	335.01	30.37
1BTB285-126	0.0467	37.1375	0.3606	46.7241	0.0561	28.3452	0.6068	351.95	97.09	312.65	126.38	35.03	889.24	351.95	97.09
1BTB285-022	0.0581	17.6544	0.5331	23.9887	0.0665	16.3507	0.6771	415.10	65.74	433.88	84.90	532.65	386.58	415.10	65.74
1BTB285-190	0.0578	16.3549	0.5380	23.3491	0.0675	16.6857	0.7137	421.16	68.03	437.14	83.12	520.33	358.88	421.16	68.03
1BTB285-071	0.0676	24.1115	0.6745	34.9917	0.0723	25.4754	0.7247	450.12	110.77	523.46	144.08	856.09	500.77	450.12	110.77
1BTB285-066	0.0569	18.4995	0.5683	25.2736	0.0724	17.4020	0.6814	450.73	75.76	456.93	93.26	486.51	408.32	450.73	75.76
1BTB285-176	0.0599	18.6884	0.6182	27.5848	0.0750	20.3281	0.7355	466.48	91.48	488.71	107.40	599.64	404.60	466.48	91.48

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 REJECTED															
1BTB285-108	0.1066	8.8394	1.2080	17.0687	0.0821	14.7912	0.8555	508.84	72.37	804.27	95.10	1741.92	162.00	508.84	72.37
1BTB285-197	0.0628	17.5802	0.7200	28.7481	0.0833	22.8849	0.7912	515.55	113.40	550.65	122.78	701.85	374.21	515.55	113.40
1BTB285-308	0.1106	16.2787	1.2773	17.4781	0.0834	6.2264	0.3641	516.41	30.90	835.67	99.86	1809.22	295.84	516.41	30.90
1BTB285-144	0.0588	16.3320	0.6822	22.5474	0.0841	15.6704	0.6895	520.73	78.40	528.08	93.10	558.37	356.06	520.73	78.40
1BTB285-022	0.1031	12.0707	1.2982	29.5196	0.0910	27.1785	0.9126	561.66	146.21	844.94	170.91	1680.33	222.93	561.66	146.21
1BTB285-067	0.1063	6.2432	1.3530	16.1696	0.0922	15.1257	0.9225	568.82	82.36	868.86	94.68	1736.78	114.49	568.82	82.36
1BTB285-132	0.0605	18.9778	0.7827	25.5425	0.0937	17.2412	0.6693	577.62	95.26	587.01	114.35	621.87	409.34	577.62	95.26
1BTB285-145	0.0969	3.5142	1.2648	6.1463	0.0949	5.8056	0.8286	584.49	32.44	830.05	34.87	1566.06	65.87	584.49	32.44
1BTB285-012	0.0656	7.5081	0.8866	8.2079	0.0980	3.7826	0.4075	602.68	21.76	644.56	39.19	792.11	157.51	602.68	21.76
1BTB285-356	0.0685	37.4179	0.9324	38.9052	0.0985	10.2884	0.2740	605.43	59.46	668.91	192.90	883.17	773.87	605.43	59.46
1BTB285-160	0.0590	16.6620	0.8045	20.2241	0.0992	11.4999	0.5668	609.81	66.92	599.37	91.80	566.32	362.77	609.81	66.92
1BTB285-072	0.0569	27.5178	0.7799	29.5905	0.0993	11.1494	0.3678	610.39	64.93	585.42	132.40	488.01	607.21	610.39	64.93
1BTB285-179	0.0610	21.4338	0.8347	30.5456	0.0995	21.7989	0.7125	611.25	127.14	616.19	142.02	639.51	460.95	611.25	127.14
1BTB285-080	0.0872	13.4259	1.2179	24.6084	0.1013	20.4016	0.8381	621.89	120.96	808.81	138.05	1364.50	258.56	621.89	120.96
1BTB285-273	0.0631	20.3995	0.8965	23.6345	0.1026	11.7956	0.5050	629.88	70.79	649.84	113.92	712.27	433.49	629.88	70.79
1BTB285-269	0.1160	5.4406	1.6506	9.0053	0.1028	7.1800	0.7969	631.08	43.16	989.76	57.00	1895.65	97.84	631.08	43.16
1BTB285-393	0.0861	37.5368	1.2305	38.9403	0.1036	10.4043	0.2661	635.65	62.98	814.58	221.58	1340.81	725.27	635.65	62.98
1BTB285-102	0.0553	12.0125	0.7982	12.5646	0.1045	4.1253	0.2951	640.91	25.17	595.82	56.69	426.01	267.89	640.91	25.17
1BTB285-096	0.0741	15.0617	1.0725	17.5269	0.1051	9.7502	0.5132	644.45	59.80	739.99	92.35	1043.03	303.89	644.45	59.80
1BTB285-134	0.0822	7.5511	1.2069	14.6565	0.1068	12.2610	0.8573	654.37	76.30	803.76	81.56	1249.32	147.80	654.37	76.30
1BTB285-041	0.0737	9.3914	1.0988	18.6629	0.1078	16.8975	0.8651	660.19	106.04	752.78	99.53	1032.99	189.77	660.19	106.04
1BTB285-031	0.0840	9.8494	1.2600	12.7524	0.1085	7.5217	0.6369	664.01	47.46	827.89	72.31	1291.51	191.63	664.01	47.46
1BTB285-141	0.0559	32.8017	0.8341	34.1524	0.1086	9.4297	0.2785	664.41	59.53	615.88	158.99	447.83	728.72	664.41	59.53
1BTB285-010	0.0629	15.8827	0.9826	22.8292	0.1130	16.1010	0.7184	690.34	105.42	694.96	115.38	703.27	338.00	690.34	105.42
1BTB285-213	0.0653	37.7108	1.0347	47.4380	0.1150	28.7565	0.6067	701.70	191.25	721.25	249.86	782.93	792.28	701.70	191.25
1BTB285-325	0.0705	5.2443	1.1472	8.5355	0.1175	6.6464	0.7891	716.17	45.05	775.93	46.34	943.47	107.44	716.17	45.05
1BTB285-220	0.0899	5.7061	1.4579	15.4156	0.1175	14.2095	0.9290	716.40	96.35	913.15	93.10	1424.25	108.99	716.40	96.35
1BTB285-364	0.0804	11.1672	1.3234	13.2491	0.1191	6.6611	0.5394	725.40	45.70	856.00	76.77	1206.83	219.92	725.40	45.70
1BTB285-127	0.1202	16.5068	1.9871	29.4388	0.1202	24.3652	0.8280	731.72	168.58	1111.14	201.45	1959.31	294.68	731.72	168.58
1BTB285-341	0.0706	7.6844	1.1851	9.8337	0.1213	6.0610	0.6240	737.85	42.26	793.68	54.21	946.47	157.36	737.85	42.26
1BTB285-147	0.0773	7.5768	1.3007	9.8491	0.1220	6.7233	0.6403	742.03	47.13	846.05	56.60	1128.26	150.94	742.03	47.13
1BTB285-255	0.0934	6.7076	1.6406	12.5478	0.1271	10.6244	0.8451	771.44	77.25	985.93	79.32	1495.18	126.91	771.44	77.25
1BTB285-086	0.0734	16.3468	1.2913	17.5613	0.1274	6.8477	0.3662	773.15	49.89	841.86	100.82	1026.14	330.74	773.15	49.89
1BTB285-079	0.0818	6.7278	1.4411	13.6868	0.1277	10.9565	0.8739	774.70	79.98	906.17	82.22	1241.01	131.84	774.70	79.98
1BTB285-098	0.0651	11.0816	1.3879	12.4478	0.1548	6.8466	0.4636	928.08	59.18	883.79	73.59	776.74	233.05	776.74	233.05
1BTB285-293	0.0730	13.9142	1.3267	19.2822	0.1312	13.1653	0.6924	794.77	98.45	857.43	112.09	1014.62	281.99	794.77	98.45
1BTB285-142	0.0681	16.1373	1.5206	18.9468	0.1624	9.8517	0.5240	969.88	88.71	938.71	116.57	872.38	334.31	872.38	334.31
1BTB285-071	0.0683	20.3327	1.7167	24.7140	0.1822	14.0986	0.5684	1079.12	140.11	1014.81	159.88	876.55	420.95	876.55	420.95
1BTB285-185	0.0701	16.9602	1.7095	23.8113	0.1772	16.6021	0.7019	1051.87	161.16	1012.11	153.71	931.31	348.11	931.31	348.11
1BTB285-166	0.0702	20.6189	1.5610	27.4627	0.1618	17.9708	0.6606	966.59	161.34	954.87	171.58	933.63	423.06	933.63	423.06
1BTB285-301	0.0712	18.5247	1.4922	21.0058	0.1513	9.8576	0.4715	908.08	83.50	927.20	128.38	964.14	378.35	964.14	378.35
1BTB285-389	0.0727	12.6160	1.9084	14.5430	0.1904	7.2971	0.4975	1123.57	75.24	1084.02	97.19	1004.37	256.07	1004.37	256.07
1BTB285-366	0.0727	20.5926	1.7074	23.3443	0.1701	10.1006	0.4727	1012.45	94.64	1011.31	150.58	1004.37	417.97	1004.37	417.97
1BTB285-018	0.0731	6.4060	1.3499	11.5323	0.1338	9.8083	0.8317	809.64	74.63	867.51	67.36	1016.30	129.80	1016.30	129.80
1BTB285-154	0.0761	17.4365	1.7012	24.7919	0.1626	17.8740	0.7109	971.07	161.16	1008.97	159.85	1098.09	348.91	1098.09	348.91
1BTB285-322	0.0763	6.7678	1.5192	8.7931	0.1439	5.6029	0.6384	866.57	45.43	938.17	53.89	1101.91	135.35	1101.91	135.35
1BTB285-087	0.0776	5.6661	1.5542	8.9200	0.1453	7.8820	0.7793	874.35	64.45	952.18	55.17	1137.15	112.72	1137.15	112.72
1BTB285-133	0.0792	20.8314	2.1257	30.1284	0.1953	21.8969	0.7225	1150.09	230.75	1157.19	211.03	1176.05	412.07	1176.05	412.07
1BTB285-243	0.0799	16.0332	2.2262	17.6240	0.2017	7.5003	0.4153	1184.50	81.16	1189.32	124.10	1194.47	316.31	1194.47	316.31
1BTB285-143	0.0806	17.4683	2.2237	24.6317	0.2000	17.4782	0.7050	1175.46	187.86	1188.53	174.21	1210.92	343.80	1210.92	343.80

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 REJECTED															
1BTB285-163	0.0811	8.5796	1.7493	12.8562	0.1569	9.6191	0.7448	939.41	84.09	1026.92	83.25	1223.93	168.54	1223.93	168.54
1BTB285-137	0.0821	4.7889	1.5168	11.1719	0.1344	9.7169	0.9041	812.78	74.20	937.17	68.47	1247.86	93.75	1247.86	93.75
1BTB285-016	0.0823	19.9781	2.0875	27.4492	0.1838	18.9362	0.6858	1087.85	189.61	1144.69	190.65	1252.08	390.88	1252.08	390.88
1BTB285-400	0.0827	6.4812	1.8404	7.3902	0.1616	3.6986	0.4809	965.42	33.16	1060.00	48.66	1261.34	126.64	1261.34	126.64
1BTB285-135	0.0829	11.5671	1.5235	20.6154	0.1336	16.8444	0.8278	808.54	128.02	939.88	127.03	1267.34	225.82	1267.34	225.82
1BTB285-362	0.0832	8.4469	1.7053	18.1177	0.1482	15.8254	0.8847	890.93	131.70	1010.51	116.47	1274.97	164.73	1274.97	164.73
1BTB285-155	0.0834	13.1780	1.5794	17.2293	0.1373	11.3963	0.6444	829.20	88.68	962.15	107.52	1278.34	256.87	1278.34	256.87
1BTB285-149	0.0840	4.8970	1.6805	7.0210	0.1455	5.7958	0.7238	875.81	47.46	1001.19	44.72	1292.70	95.26	1292.70	95.26
1BTB285-141	0.0842	5.6101	1.9306	7.5392	0.1661	5.4108	0.6698	990.82	49.70	1091.75	50.47	1297.52	109.06	1297.52	109.06
1BTB285-300	0.0850	16.2119	2.0918	22.9625	0.1777	16.2340	0.7082	1054.43	157.94	1146.11	159.03	1315.70	314.34	1315.70	314.34
1BTB285-256	0.0869	6.7883	2.1444	9.8117	0.1786	7.1142	0.7220	1059.36	69.50	1163.25	68.04	1357.22	130.86	1357.22	130.86
1BTB285-021	0.0873	15.9089	2.9970	22.3146	0.2481	16.0565	0.7015	1428.77	205.84	1406.85	171.50	1367.32	306.26	1367.32	306.26
1BTB285-104	0.0875	7.8858	2.1283	10.8205	0.1766	8.0885	0.6874	1048.30	78.26	1158.02	74.88	1372.35	151.70	1372.35	151.70
1BTB285-179	0.0878	10.7299	1.9233	18.5679	0.1588	15.1795	0.8161	950.25	134.14	1089.22	124.66	1377.17	206.28	1377.17	206.28
1BTB285-094	0.0884	4.9774	2.1548	10.8874	0.1770	10.4159	0.8917	1050.34	100.96	1166.60	75.65	1390.94	95.51	1390.94	95.51
1BTB285-150	0.0886	5.2105	2.1253	5.8293	0.1744	3.9631	0.4878	1036.52	37.95	1157.05	40.27	1396.10	99.91	1396.10	99.91
1BTB285-025	0.0889	3.4817	2.0778	6.1742	0.1690	6.2419	0.8428	1006.50	58.17	1141.50	42.35	1401.55	66.71	1401.55	66.71
1BTB285-121	0.0899	14.6518	1.8024	17.0807	0.1457	8.8675	0.5140	876.74	72.69	1046.33	112.00	1424.24	279.87	1424.24	279.87
1BTB285-077	0.0908	7.3324	2.2051	9.9197	0.1760	7.1118	0.6748	1045.05	68.61	1182.68	69.41	1442.52	139.71	1442.52	139.71
1BTB285-174	0.0910	8.6100	3.7166	50.7393	0.2968	50.0294	0.9855	1675.62	741.46	1574.94	429.94	1447.37	163.95	1447.37	163.95
1BTB285-175	0.0911	7.3874	1.9276	9.7277	0.1539	6.4515	0.6507	922.60	55.46	1090.70	65.12	1448.40	140.65	1448.40	140.65
1BTB285-027	0.0911	18.7745	2.7669	19.5904	0.2201	5.5271	0.2856	1282.19	64.27	1346.67	147.13	1448.77	357.43	1448.77	357.43
1BTB285-066	0.0914	8.0104	2.0172	10.9360	0.1599	7.6509	0.6810	956.00	67.98	1121.32	74.37	1454.90	152.38	1454.90	152.38
1BTB285-223	0.0925	10.5432	2.4884	16.7823	0.1951	12.9350	0.7781	1148.74	136.12	1268.66	122.14	1477.20	199.96	1477.20	199.96
1BTB285-018	0.0925	11.2706	1.8153	21.0185	0.1418	18.0777	0.8442	854.78	144.74	1051.00	138.46	1478.62	213.71	1478.62	213.71
1BTB285-314	0.0927	4.8969	2.3451	12.4500	0.1827	11.3463	0.9194	1081.79	113.01	1226.07	88.85	1481.48	92.82	1481.48	92.82
1BTB285-004	0.0948	5.6856	1.9918	12.9456	0.1520	11.2066	0.8990	911.97	95.31	1112.72	87.73	1523.80	107.17	1523.80	107.17
1BTB285-161	0.0949	4.8334	2.1458	6.3044	0.1644	4.1518	0.6422	981.35	37.79	1163.70	43.69	1526.44	91.07	1526.44	91.07
1BTB285-290	0.0974	6.9313	1.9435	14.9700	0.1441	13.0839	0.8864	867.67	106.23	1096.19	100.69	1575.51	129.77	1575.51	129.77
1BTB285-334	0.0975	4.1097	2.3460	6.2367	0.1739	4.5924	0.7523	1033.59	43.86	1226.35	44.43	1576.09	76.94	1576.09	76.94
1BTB285-089	0.0987	3.9617	2.8737	8.0663	0.2112	8.0022	0.8785	1235.40	89.97	1375.04	60.83	1599.77	73.94	1599.77	73.94
1BTB285-291	0.0988	6.7554	2.3016	8.7778	0.1683	5.1521	0.6408	1002.51	47.84	1212.79	62.21	1601.54	126.05	1601.54	126.05
1BTB285-028	0.1030	19.2448	3.8889	28.0490	0.2736	20.3871	0.7275	1558.89	282.48	1611.38	230.43	1678.87	355.49	1678.87	355.49
1BTB285-287	0.1036	10.5111	2.6728	16.9915	0.1864	13.0352	0.7859	1101.88	132.05	1320.96	126.20	1689.13	193.91	1689.13	193.91
1BTB285-097	0.1053	14.9520	2.3218	18.1680	0.1599	10.6094	0.5683	956.06	94.28	1218.98	129.64	1718.73	274.82	1718.73	274.82
1BTB285-350	0.1063	4.7543	2.5276	6.8777	0.1719	4.7156	0.7236	1022.52	44.59	1280.01	50.08	1737.05	87.19	1737.05	87.19
1BTB285-369	0.1071	15.2173	3.8499	18.0321	0.2601	9.1942	0.5372	1490.27	122.35	1603.25	146.35	1751.48	278.57	1751.48	278.57
1BTB285-002	0.1079	5.6196	5.2904	9.4888	0.3547	6.9846	0.8091	1956.87	117.90	1867.31	81.20	1763.94	102.71	1763.94	102.71
1BTB285-177	0.1080	6.2248	2.0891	13.7384	0.1402	12.2791	0.8915	845.52	97.31	1145.24	94.61	1766.38	113.74	1766.38	113.74
1BTB285-113	0.1081	15.5945	4.8708	38.4224	0.3275	35.2650	0.9139	1826.18	562.24	1797.22	335.37	1767.31	284.92	1767.31	284.92
1BTB285-026	0.1087	10.6502	3.1473	16.1254	0.2097	12.0768	0.7509	1227.21	134.97	1444.34	124.88	1778.52	194.32	1778.52	194.32
1BTB285-329	0.1105	17.8081	4.3923	24.4786	0.2871	16.7600	0.6861	1627.08	241.12	1710.90	205.21	1807.71	323.69	1807.71	323.69
1BTB285-337	0.1110	22.3557	2.7105	29.7376	0.1764	19.5866	0.6594	1047.22	189.38	1331.35	224.15	1816.32	405.95	1816.32	405.95
1BTB285-001	0.1117	6.5075	6.6139	9.6164	0.4284	6.3604	0.7405	2298.45	122.98	2061.21	85.02	1826.76	118.03	1826.76	118.03
1BTB285-086	0.1118	5.1997	2.2785	10.4759	0.1479	9.8677	0.8710	889.20	81.97	1205.66	74.06	1828.08	94.29	1828.08	94.29
1BTB285-258	0.1123	5.9111	3.5393	11.5727	0.2281	9.9705	0.8597	1324.34	119.38	1536.04	91.87	1836.17	107.09	1836.17	107.09
1BTB285-064	0.1146	4.3338	2.7849	5.8287	0.1762	4.6366	0.6788	1045.99	44.77	1351.50	43.57	1873.05	78.14	1873.05	78.14
1BTB285-088	0.1163	7.1584	3.0716	12.7932	0.1917	11.2733	0.8304	1130.44	116.90	1425.63	98.30	1899.49	128.67	1899.49	128.67
1BTB285-311	0.1190	16.9413	3.1516	21.0508	0.1912	12.4265	0.5936	1128.00	128.61	1445.39	163.66	1941.52	303.05	1941.52	303.05
1BTB285-152	0.1197	5.4330	2.6580	8.3820	0.1616	7.0438	0.7652	965.43	63.16	1316.87	61.92	1951.43	97.08	1951.43	97.08

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB285, PALEOCENE?, MUÑANI FORMATION, LATITUDE: -14.593530, LONGITUDE: -70.093600 REJECTED															
1BTB285-378	0.1200	5.1352	4.2852	7.7594	0.2586	5.8951	0.7497	1482.52	78.08	1690.52	63.96	1956.79	91.70	1956.79	91.70
1BTB285-074	0.1224	16.0255	2.5903	18.5528	0.1533	9.6607	0.5041	919.67	82.80	1297.91	136.73	1991.84	285.01	1991.84	285.01
1BTB285-229	0.1258	6.0444	4.0822	8.8640	0.2352	6.0840	0.7329	1361.60	74.68	1650.75	72.42	2039.85	106.89	2039.85	106.89
1BTB285-134	0.1260	7.3156	4.5456	10.3144	0.2614	7.7745	0.7065	1497.02	103.87	1739.36	86.05	2043.25	129.32	2043.25	129.32
1BTB285-394	0.1261	16.8054	6.3954	24.1194	0.3678	17.3319	0.7173	2018.86	300.63	2031.64	214.94	2044.70	297.03	2044.70	297.03
1BTB285-339	0.1293	4.9446	2.9434	11.1936	0.1645	9.9966	0.8972	981.90	91.05	1393.14	85.03	2087.98	86.96	2087.98	86.96
1BTB285-330	0.1331	9.2523	2.9418	10.6998	0.1596	5.2634	0.5024	954.64	46.70	1392.74	81.26	2139.68	161.75	2139.68	161.75
1BTB285-106	0.1342	9.9128	4.4415	12.5352	0.2404	8.3303	0.6142	1388.85	104.09	1720.11	104.25	2153.60	173.02	2153.60	173.02
1BTB285-354	0.1411	8.9347	6.1647	13.1534	0.3160	9.5247	0.7340	1770.39	147.48	1999.46	115.41	2240.16	154.51	2240.16	154.51
1BTB285-113	0.1692	14.2193	5.0017	20.6359	0.2142	15.0354	0.7247	1251.24	171.04	1819.62	176.37	2549.91	238.15	2549.91	238.15
1BTB285-124	0.1798	4.6571	7.8210	10.6032	0.3163	9.4992	0.8984	1771.79	147.18	2210.62	95.74	2650.61	77.24	2650.61	77.24
1BTB285-305	0.1877	6.7419	10.1584	14.5839	0.3909	12.8654	0.8867	2126.92	233.18	2449.30	135.61	2721.87	111.07	2721.87	111.07
1BTB285-193	0.1973	5.3408	9.0558	14.5515	0.3327	13.5623	0.9302	1851.25	218.32	2343.65	133.83	2803.73	87.34	2803.73	87.34
1BTB285-158	0.5476	28.7490	25.6747	32.3069	0.3410	15.0368	0.4563	1891.70	246.64	3334.23	326.55	4374.73	420.56	4374.73	420.56
1BTB285-376	0.7985	10.1803	16.8526	13.7078	0.1529	9.2293	0.6697	916.94	78.89	2926.48	132.13	4919.01	145.82	4919.01	145.82
1BTB375, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.593680, LONGITUDE: -70.092350 ACCEPTED															
1BTB375-070	0.0577	42.1882	0.1340	43.2242	0.0168	9.2673	0.2177	107.61	9.89	127.70	51.91	517.84	926.16	107.61	9.89
1BTB375-134	0.0507	24.1212	0.1367	24.9195	0.0196	6.1155	0.2512	124.83	7.56	130.12	30.44	225.07	557.57	124.83	7.56
1BTB375-055	0.0459	9.5405	0.1285	11.9085	0.0203	6.1499	0.6050	129.51	7.89	122.72	13.77	0.00	229.97	129.51	7.89
1BTB375-140	0.0490	13.9231	0.1545	15.9066	0.0228	7.5773	0.4836	145.42	10.90	145.85	21.61	150.15	326.30	145.42	10.90
1BTB375-144	0.0441	30.9668	0.1641	31.6172	0.0270	6.2410	0.2018	171.44	10.56	154.31	45.29	0.00	746.44	171.44	10.56
1BTB375-052	0.0511	7.4844	0.2594	9.5426	0.0368	5.3694	0.6233	232.75	12.27	234.20	19.96	246.54	172.33	232.75	12.27
1BTB375-096	0.0520	8.4267	0.2707	9.1781	0.0377	4.4354	0.4041	238.71	10.39	243.21	19.85	284.45	192.69	238.71	10.39
1BTB375-009	0.0513	12.4309	0.2711	12.8855	0.0382	3.4688	0.2633	241.93	8.24	243.53	27.91	256.53	285.70	241.93	8.24
1BTB375-028	0.0454	24.1706	0.2522	25.4675	0.0402	8.0784	0.3151	254.10	20.13	228.38	52.13	0.00	582.62	254.10	20.13
1BTB375-087	0.0534	8.9003	0.3435	12.3990	0.0466	8.3157	0.6967	293.39	23.85	299.80	32.20	347.74	201.26	293.39	23.85
1BTB375-139	0.0521	9.1100	0.3469	12.4795	0.0483	8.4258	0.6835	303.87	25.01	302.41	32.65	288.51	208.16	303.87	25.01
1BTB375-107	0.0546	11.8800	0.3935	13.4856	0.0522	6.6717	0.4737	328.29	21.35	336.90	38.68	394.12	266.43	328.29	21.35
1BTB375-085	0.0604	13.2998	0.5942	17.8643	0.0713	11.6996	0.6678	443.83	50.18	473.53	67.71	617.98	287.05	443.83	50.18
1BTB375-136	0.0566	5.0374	0.5684	6.4850	0.0728	3.8639	0.6307	453.05	16.90	456.99	23.87	474.22	111.40	453.05	16.90
1BTB375-097	0.0583	13.0984	0.5859	17.9920	0.0728	12.5932	0.6857	453.27	55.12	468.26	67.59	540.06	286.46	453.27	55.12
1BTB375-050	0.0595	5.4758	0.6048	7.8197	0.0736	4.9952	0.7183	457.97	22.08	480.28	29.93	586.06	118.82	457.97	22.08
1BTB375-130	0.0544	7.6357	0.5569	8.3868	0.0742	3.2071	0.4149	461.43	14.28	449.54	30.47	386.40	171.48	461.43	14.28
1BTB375-064	0.0576	10.1392	0.5967	14.7349	0.0751	10.0669	0.7269	466.84	45.34	475.16	55.97	513.45	222.75	466.84	45.34
1BTB375-032	0.0558	10.8900	0.5785	15.5942	0.0752	11.2014	0.7158	467.27	50.49	463.51	58.09	442.49	242.16	467.27	50.49
1BTB375-098	0.0562	8.5945	0.5877	11.3405	0.0758	7.8221	0.6534	470.84	35.52	469.41	42.65	460.01	190.53	470.84	35.52
1BTB375-024	0.0565	8.3905	0.5950	11.1865	0.0764	7.4902	0.6614	474.35	34.25	474.08	42.40	470.28	185.67	474.35	34.25
1BTB375-036	0.0551	8.5310	0.5824	11.3931	0.0766	7.6316	0.6629	476.07	35.02	466.01	42.60	414.39	190.64	476.07	35.02
1BTB375-121	0.0586	5.5685	0.6203	7.6654	0.0767	5.0218	0.6880	476.17	23.05	490.01	29.80	552.61	121.52	476.17	23.05
1BTB375-006	0.0555	4.9378	0.5920	6.8104	0.0772	4.7458	0.6888	479.63	21.94	472.15	25.72	433.64	109.97	479.63	21.94
1BTB375-015	0.0557	6.3591	0.5987	8.9087	0.0779	6.2851	0.7004	483.32	29.27	476.38	33.89	440.61	141.45	483.32	29.27
1BTB375-093	0.0607	9.0604	0.6748	12.4742	0.0806	8.2551	0.6878	499.68	39.69	523.61	51.08	627.13	195.25	499.68	39.69
1BTB375-113	0.0594	6.2083	0.6828	7.5374	0.0832	4.2566	0.5671	515.37	21.08	528.47	31.06	582.83	134.79	515.37	21.08
1BTB375-034	0.0591	5.6825	0.6794	7.2753	0.0833	4.6747	0.6247	515.71	23.17	526.39	29.89	570.64	123.63	515.71	23.17
1BTB375-021	0.0627	5.4179	0.7231	6.8853	0.0835	4.4066	0.6175	517.14	21.90	552.49	29.35	698.62	115.39	517.14	21.90
1BTB375-049	0.0580	14.7347	0.6711	21.1606	0.0839	14.9816	0.7178	519.11	74.73	521.41	86.50	529.29	322.83	519.11	74.73
1BTB375-027	0.0587	8.9073	0.6882	12.3321	0.0849	8.5805	0.6916	525.28	43.28	531.71	51.09	556.98	194.24	525.28	43.28
1BTB375-014	0.0585	11.9204	0.6878	17.1137	0.0852	12.3028	0.7175	527.30	62.29	531.47	70.93	547.00	260.38	527.30	62.29
1BTB375-117	0.0589	10.2971	0.6974	14.3357	0.0858	9.8463	0.6958	530.42	50.14	537.24	59.88	563.66	224.29	530.42	50.14

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB375, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.593680, LONGITUDE: -70.092350 ACCEPTED															
1BTB375-023	0.0596	8.6493	0.7144	11.6514	0.0868	7.8936	0.6701	536.48	40.63	547.36	49.34	590.50	187.54	536.48	40.63
1BTB375-125	0.0575	8.3315	0.6921	11.0932	0.0872	7.2039	0.6603	539.04	37.25	534.03	46.10	510.03	183.15	539.04	37.25
1BTB375-005	0.0646	7.6420	0.7783	11.2886	0.0872	8.3400	0.7360	539.17	43.14	584.50	50.21	762.60	161.08	539.17	43.14
1BTB375-017	0.0599	7.8232	0.7249	10.4666	0.0877	6.9944	0.6643	541.77	36.35	553.57	44.69	600.01	169.36	541.77	36.35
1BTB375-082	0.0588	7.1364	0.7142	8.9426	0.0880	5.1068	0.6035	543.73	26.63	547.25	37.85	559.78	155.55	543.73	26.63
1BTB375-099	0.0622	5.5321	0.7707	7.3396	0.0898	5.2012	0.6590	554.09	27.62	580.16	32.45	681.26	118.15	554.09	27.62
1BTB375-115	0.0606	6.4567	0.7690	8.1244	0.0919	4.8275	0.6071	566.89	26.20	579.19	35.88	625.11	139.19	566.89	26.20
1BTB375-039	0.0614	9.1357	0.7833	14.3200	0.0924	11.0023	0.7701	569.59	59.98	587.38	63.95	654.50	195.98	569.59	59.98
1BTB375-081	0.0649	7.5849	0.8432	11.7165	0.0941	8.7626	0.7623	579.59	48.57	620.92	54.48	772.49	159.62	579.59	48.57
1BTB375-086	0.0642	8.8554	0.8783	13.9632	0.0991	10.5444	0.7734	608.85	61.26	640.04	66.39	749.60	187.04	608.85	61.26
1BTB375-069	0.0620	8.9255	0.8530	12.9120	0.0997	9.1896	0.7227	612.93	53.73	626.27	60.42	672.72	190.90	612.93	53.73
1BTB375-060	0.0604	6.0994	0.8482	9.5191	0.1018	6.3593	0.7752	624.82	37.87	623.66	44.39	617.38	131.66	624.82	37.87
1BTB375-002	0.0610	3.2711	0.8634	4.1630	0.1025	2.6747	0.6190	629.01	16.03	631.98	19.59	640.48	70.34	629.01	16.03
1BTB375-013	0.0612	6.1001	0.8920	7.0143	0.1056	3.5136	0.4937	647.18	21.64	647.43	33.59	645.96	131.05	647.18	21.64
1BTB375-079	0.0607	5.6348	0.8888	7.3336	0.1062	4.3667	0.6417	650.37	27.01	645.73	35.05	627.41	121.43	650.37	27.01
1BTB375-089	0.0619	8.6785	0.9577	12.3940	0.1120	8.5396	0.7144	684.59	55.47	682.10	61.64	671.69	185.65	684.59	55.47
1BTB375-101	0.0676	4.7838	1.1597	6.1292	0.1242	4.2976	0.6293	754.78	30.61	781.80	33.43	857.41	99.33	754.78	30.61
1BTB375-091	0.0652	10.9495	1.1300	16.6354	0.1256	12.3076	0.7530	762.88	88.56	767.74	89.84	779.72	230.16	762.88	88.56
1BTB375-124	0.0652	9.9409	1.1583	11.1526	0.1286	4.7987	0.4539	779.97	35.25	781.16	60.85	782.01	208.88	779.97	35.25
1BTB375-120	0.0697	10.4100	1.2403	14.3382	0.1289	9.7306	0.6877	781.46	71.62	819.03	80.77	919.99	214.04	781.46	71.62
1BTB375-066	0.0680	12.7048	1.2279	19.2383	0.1308	14.3379	0.7509	792.41	106.92	813.37	108.07	869.19	263.33	792.41	106.92
1BTB375-068	0.0653	7.1002	1.1796	10.2873	0.1310	7.2312	0.7239	793.46	53.99	791.12	56.59	782.55	149.18	793.46	53.99
1BTB375-141	0.0693	13.6498	1.5072	19.2501	0.1576	13.5093	0.7051	943.27	118.56	933.29	118.03	907.44	281.25	907.44	281.25
1BTB375-056	0.0709	6.8446	1.5901	10.4916	0.1625	7.0891	0.7629	970.63	63.88	966.34	65.49	954.62	139.99	954.62	139.99
1BTB375-132	0.0720	12.4861	1.5476	13.7864	0.1557	5.6932	0.4241	933.07	49.46	949.55	85.24	985.51	254.14	985.51	254.14
1BTB375-118	0.0721	5.6556	1.5958	7.7380	0.1603	5.0359	0.6833	958.51	44.85	968.56	48.34	988.99	115.05	988.99	115.05
1BTB375-131	0.0725	7.1535	1.7473	10.3615	0.1747	7.3782	0.7235	1037.95	70.74	1026.16	67.01	998.66	145.32	998.66	145.32
1BTB375-047	0.0734	12.5298	1.7069	18.0726	0.1685	12.8735	0.7207	1003.62	119.66	1011.11	116.22	1025.31	253.54	1025.31	253.54
1BTB375-048	0.0735	6.9466	1.7329	10.5292	0.1707	7.6624	0.7519	1016.18	72.04	1020.82	67.89	1028.72	140.49	1028.72	140.49
1BTB375-035	0.0735	3.2483	1.7743	4.2340	0.1748	2.9308	0.6433	1038.55	28.11	1036.09	27.50	1028.73	65.70	1028.73	65.70
1BTB375-046	0.0737	6.3624	1.6726	8.5256	0.1643	5.3207	0.6670	980.83	48.41	998.19	54.23	1034.46	128.54	1034.46	128.54
1BTB375-123	0.0741	4.3617	1.7568	6.2321	0.1717	4.1573	0.7159	1021.68	39.28	1029.66	40.35	1044.19	87.99	1044.19	87.99
1BTB375-143	0.0741	8.8820	1.7360	11.4891	0.1697	7.1666	0.6344	1010.48	67.03	1021.99	74.15	1044.49	179.17	1044.49	179.17
1BTB375-109	0.0742	4.6688	1.7898	5.9968	0.1747	3.7434	0.6276	1037.71	35.88	1041.76	39.08	1047.92	94.13	1047.92	94.13
1BTB375-094	0.0744	8.4081	1.7208	11.3523	0.1676	7.2669	0.6727	999.11	67.26	1016.31	73.03	1051.42	169.43	1051.42	169.43
1BTB375-108	0.0744	6.0992	1.7108	7.6396	0.1666	4.9950	0.6042	993.12	45.97	1012.57	48.99	1052.57	122.88	1052.57	122.88
1BTB375-090	0.0751	3.9949	1.7491	5.8747	0.1687	3.6309	0.7439	1005.16	33.79	1026.83	37.97	1071.23	80.26	1071.23	80.26
1BTB375-128	0.0754	11.7990	1.7366	16.9675	0.1669	12.1215	0.7186	995.16	111.79	1022.22	109.76	1078.16	236.80	1078.16	236.80
1BTB375-102	0.0758	7.3522	1.8159	9.9449	0.1734	6.9738	0.6739	1031.04	66.45	1051.21	65.21	1091.11	147.27	1091.11	147.27
1BTB375-041	0.0762	3.9625	1.9615	6.7636	0.1864	5.4309	0.8104	1102.01	55.01	1102.39	45.52	1101.05	79.26	1101.05	79.26
1BTB375-088	0.0763	8.0199	1.8447	11.8536	0.1753	8.4154	0.7369	1041.06	80.91	1061.53	78.20	1101.81	160.39	1101.81	160.39
1BTB375-127	0.0763	7.5453	1.8733	10.7540	0.1779	7.5476	0.7126	1055.64	73.50	1071.71	71.31	1102.12	150.89	1102.12	150.89
1BTB375-008	0.0764	4.1068	2.1374	5.6186	0.2026	3.9021	0.6826	1189.50	42.38	1160.99	38.89	1106.08	82.08	1106.08	82.08
1BTB375-001	0.0764	5.6001	1.7614	7.4674	0.1670	4.9923	0.6615	995.59	46.06	1031.37	48.40	1106.10	111.93	1106.10	111.93
1BTB375-122	0.0775	4.8505	1.8809	6.6130	0.1757	4.2039	0.6812	1043.57	40.50	1074.38	43.87	1135.00	96.53	1135.00	96.53
1BTB375-077	0.0777	7.8082	2.1044	11.1212	0.1962	7.7528	0.7122	1155.11	81.99	1150.24	76.69	1139.13	155.30	1139.13	155.30
1BTB375-053	0.0780	5.7490	2.0743	8.8809	0.1926	6.2934	0.7642	1135.52	65.52	1140.36	60.92	1147.62	114.20	1147.62	114.20
1BTB375-084	0.0789	13.8632	2.0899	20.0957	0.1919	14.4459	0.7240	1131.53	149.95	1145.48	138.87	1170.02	274.47	1170.02	274.47
1BTB375-105	0.0790	8.5248	1.7637	9.7095	0.1618	5.0387	0.4802	966.69	45.23	1032.22	63.00	1171.54	168.74	1171.54	168.74
1BTB375-045	0.0792	8.3892	2.1615	12.4493	0.1977	8.9838	0.7391	1162.99	95.61	1168.75	86.63	1177.43	165.92	1177.43	165.92

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB375, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.593680, LONGITUDE: -70.092350 ACCEPTED															
1BTB375-042	0.0811	6.7579	2.3207	9.5709	0.2073	6.7366	0.7081	1214.39	74.57	1218.65	68.02	1224.17	132.75	1224.17	132.75
1BTB375-071	0.0812	8.5881	2.2822	12.4515	0.2038	8.8701	0.7242	1195.52	96.80	1206.80	88.13	1225.16	168.68	1225.16	168.68
1BTB375-062	0.0816	4.2370	2.3574	7.3584	0.2094	4.8191	0.8378	1225.75	53.80	1229.79	52.51	1234.99	83.10	1234.99	83.10
1BTB375-133	0.0818	5.7398	2.3280	8.2234	0.2061	5.7384	0.7164	1208.18	63.22	1220.87	58.47	1241.02	112.48	1241.02	112.48
1BTB375-076	0.0846	6.1522	2.3425	8.0007	0.2006	4.8533	0.6402	1178.61	52.28	1225.28	56.99	1306.52	119.44	1306.52	119.44
1BTB375-059	0.0854	4.7611	2.7757	8.1383	0.2355	5.5312	0.8237	1363.30	67.97	1349.02	60.82	1324.56	92.20	1324.56	92.20
1BTB375-080	0.0854	3.7356	2.6248	5.1627	0.2226	3.1202	0.6964	1295.86	36.63	1307.60	37.98	1325.02	72.34	1325.02	72.34
1BTB375-106	0.0858	5.0505	2.6978	6.0247	0.2278	3.8179	0.5514	1323.00	45.67	1327.86	44.66	1333.49	97.68	1333.49	97.68
1BTB375-044	0.0859	9.0776	2.8516	13.0629	0.2404	9.1837	0.7193	1388.79	114.75	1369.24	98.51	1336.89	175.49	1336.89	175.49
1BTB375-033	0.0863	10.3480	2.7464	14.7114	0.2305	10.4990	0.7108	1336.91	126.78	1341.12	109.93	1345.76	199.80	1345.76	199.80
1BTB375-074	0.0865	11.3876	2.7668	16.5826	0.2317	11.9457	0.7270	1343.43	144.89	1346.63	124.29	1349.86	219.75	1349.86	219.75
1BTB375-012	0.0876	5.4492	2.8685	7.6885	0.2373	5.4463	0.7055	1372.58	67.34	1373.68	57.95	1373.30	104.82	1373.30	104.82
1BTB375-022	0.0893	5.7172	2.9718	7.9256	0.2412	5.6118	0.6927	1392.74	70.29	1400.43	60.28	1410.01	109.42	1410.01	109.42
1BTB375-092	0.0903	4.6272	2.9027	6.8194	0.2329	4.4412	0.7399	1349.88	54.09	1382.62	51.54	1431.54	88.30	1431.54	88.30
1BTB375-142	0.0916	5.4891	3.2304	7.8969	0.2556	5.5209	0.7192	1467.29	72.45	1464.49	61.30	1458.28	104.37	1458.28	104.37
1BTB375-040	0.0922	8.8674	3.0657	12.2449	0.2410	8.4117	0.6896	1391.95	105.32	1424.15	94.02	1470.64	168.32	1470.64	168.32
1BTB375-058	0.0931	4.7113	3.2264	7.5227	0.2512	4.6287	0.8015	1444.64	59.91	1463.53	58.38	1489.22	89.21	1489.22	89.21
1BTB375-025	0.0955	7.7651	3.4158	12.4049	0.2592	9.7194	0.7799	1485.76	128.99	1508.05	97.73	1537.39	146.10	1537.39	146.10
1BTB375-114	0.0956	6.9970	3.4515	9.8153	0.2616	6.8790	0.7013	1498.19	91.97	1516.22	77.42	1539.24	131.62	1539.24	131.62
1BTB375-020	0.0964	9.9078	3.5903	14.2165	0.2699	10.2620	0.7172	1540.23	140.62	1547.38	113.37	1555.07	185.99	1555.07	185.99
1BTB375-030	0.0965	6.8355	3.6459	9.5058	0.2736	6.6724	0.6950	1559.12	92.41	1559.61	75.89	1558.22	128.26	1558.22	128.26
1BTB375-100	0.0968	8.0170	3.2489	10.9875	0.2433	7.7614	0.6842	1403.63	97.91	1468.91	85.51	1562.51	150.35	1562.51	150.35
1BTB375-037	0.0969	5.8705	3.5211	7.9801	0.2634	5.5167	0.6775	1506.99	74.14	1531.97	63.19	1564.63	110.06	1564.63	110.06
1BTB375-129	0.0974	3.4037	3.5185	4.8534	0.2618	3.1970	0.7151	1498.79	42.75	1531.37	38.39	1574.40	63.73	1574.40	63.73
1BTB375-051	0.0974	5.5046	3.5218	8.8408	0.2620	6.4534	0.7844	1500.11	86.38	1532.13	70.03	1574.75	103.07	1574.75	103.07
1BTB375-067	0.0990	5.8292	3.6008	9.7535	0.2636	7.6174	0.8020	1508.40	102.46	1549.71	77.66	1604.72	108.73	1604.72	108.73
1BTB375-072	0.1000	4.2495	3.7167	6.5191	0.2693	4.6727	0.7595	1537.23	63.91	1574.97	52.21	1624.12	79.07	1624.12	79.07
1BTB375-110	0.1064	7.2015	3.7059	10.8337	0.2523	8.0842	0.7471	1450.35	105.00	1572.64	86.84	1738.71	132.04	1738.71	132.04
1BTB375-095	0.1073	4.7665	3.7089	5.4599	0.2504	3.6791	0.5134	1440.45	47.49	1573.29	43.69	1754.39	87.22	1754.39	87.22
1BTB375-043	0.1121	7.7948	5.0902	11.2946	0.3290	8.1400	0.7237	1833.45	129.91	1834.47	96.14	1833.76	141.26	1833.76	141.26
1BTB375-016	0.1123	13.1430	5.1803	18.9467	0.3342	13.6680	0.7203	1858.71	220.79	1849.38	162.63	1836.89	238.10	1836.89	238.10
1BTB375-104	0.1125	4.2994	4.4809	5.8854	0.2885	4.4654	0.6867	1634.01	64.45	1727.43	48.89	1840.50	77.86	1840.50	77.86
1BTB375-083	0.1126	4.8657	4.8790	7.0210	0.3140	4.7598	0.7223	1760.24	73.32	1798.64	59.23	1841.65	88.05	1841.65	88.05
1BTB375-007	0.1130	8.9986	5.3716	12.6941	0.3443	8.9827	0.7053	1907.52	148.35	1880.34	109.08	1848.57	162.71	1848.57	162.71
1BTB375-029	0.1138	6.1565	5.2021	8.7803	0.3312	6.3306	0.7130	1844.39	101.55	1852.96	74.91	1860.60	111.17	1860.60	111.17
1BTB375-073	0.1146	9.7612	5.2480	14.1887	0.3319	10.1701	0.7258	1847.61	163.41	1860.46	121.59	1873.11	176.00	1873.11	176.00
1BTB375-126	0.1151	8.7817	5.2379	12.5298	0.3296	8.8391	0.7133	1836.47	141.28	1858.81	107.23	1881.68	158.18	1881.68	158.18
1BTB375-038	0.1152	11.8719	5.3774	16.8511	0.3383	12.0097	0.7097	1878.64	195.78	1881.26	145.26	1882.25	213.82	1882.25	213.82
1BTB375-075	0.1166	5.5052	5.1488	8.6871	0.3199	6.5232	0.7739	1789.05	101.92	1844.20	73.99	1905.27	98.89	1905.27	98.89
1BTB375-135	0.1210	12.1131	5.6725	17.6314	0.3395	12.7431	0.7266	1884.07	208.26	1927.18	153.35	1971.75	215.94	1971.75	215.94
1BTB375-119	0.1321	11.2305	6.0189	16.9602	0.3301	12.6093	0.7494	1838.82	201.79	1978.58	148.73	2125.87	196.64	2125.87	196.64
1BTB375-054	0.1617	4.0420	10.2179	6.9844	0.4579	5.1217	0.8201	2430.23	103.71	2454.70	64.68	2473.38	68.22	2473.38	68.22
1BTB375, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.593680, LONGITUDE: -70.092350 REJECTED															
1BTB375-004	0.0540	28.7778	0.1021	33.1614	0.0137	16.4936	0.4969	87.70	14.37	98.72	31.20	371.47	647.99	87.70	14.37
1BTB375-063	0.0502	20.8427	0.2592	29.4914	0.0374	20.5514	0.7076	236.52	47.73	233.99	61.71	206.43	483.44	236.52	47.73
1BTB375-031	0.0545	18.1519	0.3090	25.6878	0.0411	18.2004	0.7076	259.74	46.33	273.42	61.65	389.78	407.40	259.74	46.33
1BTB375-078	0.0639	20.5459	0.7396	29.1274	0.0838	20.5831	0.7088	518.87	102.62	562.16	126.39	739.44	434.68	518.87	102.62
1BTB375-116	0.0605	22.1408	0.7252	31.3906	0.0868	22.2373	0.7089	536.82	114.55	553.74	134.77	621.37	477.60	536.82	114.55
1BTB375-138	0.0607	18.3092	0.7986	27.1409	0.0953	19.9913	0.7382	586.96	112.17	596.02	122.96	628.11	394.50	586.96	112.17

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB375, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.593680, LONGITUDE: -70.092350 REJECTED															
1BTB375-112	0.2235	7.6776	2.9794	12.3447	0.0966	9.6589	0.7831	594.30	54.84	1402.38	94.12	3006.00	123.34	594.30	54.84
1BTB375-011	0.1178	9.5923	1.6874	13.5209	0.1038	9.5528	0.7048	636.53	57.90	1003.80	86.41	1923.09	171.95	636.53	57.90
1BTB375-111	0.0813	8.9452	1.3431	12.5097	0.1196	8.7364	0.6991	728.30	60.17	864.59	72.94	1229.88	175.57	728.30	60.17
1BTB375-137	0.0695	23.7836	1.1627	29.0284	0.1212	16.5903	0.5733	737.28	115.59	783.21	159.77	913.98	489.45	737.28	115.59
1BTB375-026	0.0746	12.7302	1.2927	18.4340	0.1256	13.3656	0.7233	762.53	96.13	842.48	105.92	1057.22	256.30	762.53	96.13
1BTB375-019	0.0671	15.8575	1.1868	17.7731	0.1281	8.0622	0.4516	776.76	59.00	794.47	98.25	842.16	330.06	776.76	59.00
1BTB375-057	0.0797	15.0723	2.1709	22.4486	0.1974	16.2418	0.7413	1161.14	172.62	1171.78	157.30	1189.57	297.56	1189.57	297.56
1BTB375-003	0.0857	15.9679	2.6752	22.7032	0.2262	16.1551	0.7109	1314.44	192.16	1321.62	169.35	1331.35	308.93	1331.35	308.93
1BTB375-010	0.0882	6.5866	2.2580	9.9411	0.1856	7.4752	0.7490	1097.32	75.43	1199.27	70.07	1385.87	126.47	1385.87	126.47
1BTB375-018	0.0900	3.8324	2.2355	8.9166	0.1799	8.0866	0.9029	1066.26	79.47	1192.26	62.63	1426.39	73.18	1426.39	73.18
1BTB375-103	0.0904	4.2006	1.8559	7.8374	0.1488	6.8969	0.8450	894.08	57.58	1065.53	51.76	1433.45	80.14	1433.45	80.14
1BTB375-061	0.1017	10.0749	2.5018	14.6163	0.1782	9.9580	0.7259	1057.27	97.11	1272.56	106.42	1655.58	186.65	1655.58	186.65
1BTB375-065	0.1171	10.4781	3.8852	18.0287	0.2404	14.5643	0.8138	1388.97	182.03	1610.61	146.60	1912.17	188.07	1912.17	188.07
1BTB643, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.592370, LONGITUDE: -70.086750 ACCEPTED															
1BTB643-348	0.0553	15.6962	0.1285	16.1583	0.0169	3.5410	0.2382	107.77	3.78	122.72	18.68	423.57	350.19	107.77	3.78
1BTB643-186	0.0480	10.8188	0.1219	13.6491	0.0184	8.6631	0.6102	117.62	10.10	116.79	15.06	99.99	255.91	117.62	10.10
1BTB643-261	0.0503	8.9177	0.1384	11.1488	0.0200	6.3358	0.6010	127.43	7.99	131.61	13.76	207.22	206.81	127.43	7.99
1BTB643-171	0.0492	9.3244	0.1389	10.1983	0.0205	4.9259	0.4113	130.58	6.37	132.07	12.63	159.29	218.16	130.58	6.37
1BTB643-323	0.0477	28.8406	0.1448	29.4068	0.0220	5.9104	0.1954	140.41	8.21	137.35	37.79	84.57	684.19	140.41	8.21
1BTB643-164	0.0449	45.4405	0.1537	45.9729	0.0248	6.9470	0.1517	158.07	10.85	145.15	62.26	0.00	1095.32	158.07	10.85
1BTB643-119	0.0619	10.5633	0.2910	14.1065	0.0341	9.1817	0.6629	216.17	19.52	259.36	32.30	671.30	225.98	216.17	19.52
1BTB643-214	0.0510	11.7238	0.2450	14.7739	0.0349	8.8651	0.6086	220.97	19.26	222.55	29.53	238.90	270.31	220.97	19.26
1BTB643-347	0.0556	27.3651	0.2847	28.1020	0.0371	6.2200	0.2276	235.13	14.36	254.35	63.31	435.94	609.20	235.13	14.36
1BTB643-207	0.0587	19.4493	0.3009	21.1463	0.0372	8.9916	0.3938	235.27	20.77	267.10	49.70	556.15	424.18	235.27	20.77
1BTB643-028	0.0527	9.0554	0.2729	9.4153	0.0376	3.7604	0.2936	238.05	8.79	245.04	20.50	314.83	205.93	238.05	8.79
1BTB643-282	0.0558	14.7341	0.2931	17.0490	0.0381	7.4057	0.5086	241.01	17.52	260.98	39.26	443.88	327.56	241.01	17.52
1BTB643-105	0.0535	10.4545	0.2811	11.2898	0.0381	3.7677	0.3804	241.24	8.92	251.50	25.16	349.40	236.33	241.24	8.92
1BTB643-279	0.0493	22.8051	0.2611	24.4320	0.0384	6.6317	0.3729	243.04	15.82	235.55	51.41	160.96	533.39	243.04	15.82
1BTB643-267	0.0525	10.9645	0.2792	14.3323	0.0385	7.2338	0.6632	243.76	17.30	250.03	31.77	308.76	249.62	243.76	17.30
1BTB643-037	0.0537	7.8041	0.2906	8.5856	0.0393	4.4636	0.4271	248.51	10.88	259.00	19.63	356.92	176.18	248.51	10.88
1BTB643-151	0.0488	9.1773	0.2674	10.7927	0.0398	5.9246	0.5267	251.52	14.61	240.65	23.13	136.43	215.62	251.52	14.61
1BTB643-117	0.0532	11.7006	0.2961	12.6244	0.0404	4.4004	0.3765	255.05	11.00	263.37	29.30	339.06	264.99	255.05	11.00
1BTB643-344	0.0514	6.1790	0.2940	7.2887	0.0415	3.5724	0.5321	261.98	9.17	261.67	16.81	259.25	141.94	261.98	9.17
1BTB643-103	0.0520	6.3636	0.2976	8.4525	0.0415	5.6047	0.6582	262.15	14.40	264.53	19.69	286.67	145.46	262.15	14.40
1BTB643-385	0.0485	16.1236	0.2792	20.2835	0.0418	13.3449	0.6087	263.77	34.49	250.00	44.98	124.24	379.69	263.77	34.49
1BTB643-079	0.0545	10.5657	0.3172	13.3539	0.0422	8.3525	0.6117	266.49	21.80	279.78	32.67	393.63	236.97	266.49	21.80
1BTB643-300	0.0546	9.6981	0.3214	10.3470	0.0427	3.6078	0.3486	269.39	9.52	282.99	25.56	396.53	217.40	269.39	9.52
1BTB643-375	0.0499	11.5803	0.2944	11.9403	0.0428	5.0772	0.2824	270.15	13.43	262.02	27.58	191.10	269.35	270.15	13.43
1BTB643-120	0.0547	14.3396	0.3230	17.4342	0.0428	9.7865	0.5688	270.31	25.91	284.23	43.25	401.26	321.18	270.31	25.91
1BTB643-245	0.0556	16.7546	0.3297	22.0952	0.0430	14.8598	0.6522	271.49	39.51	289.33	55.68	435.50	373.02	271.49	39.51
1BTB643-149	0.0524	17.2571	0.3108	18.0879	0.0431	5.8152	0.3003	271.75	15.47	274.81	43.58	301.58	393.39	271.75	15.47
1BTB643-180	0.0535	9.2298	0.3188	12.3652	0.0433	8.4094	0.6656	272.97	22.48	281.00	30.36	348.50	208.68	272.97	22.48
1BTB643-152	0.0548	8.1145	0.3274	10.4540	0.0434	6.8032	0.6308	273.57	18.22	287.60	26.19	403.82	181.67	273.57	18.22
1BTB643-225	0.0544	13.7655	0.3281	15.9271	0.0438	8.2315	0.5032	276.07	22.25	288.09	39.97	386.38	309.14	276.07	22.25
1BTB643-124	0.0562	13.2388	0.3417	14.1544	0.0441	5.1330	0.3539	278.46	13.99	298.43	36.62	458.59	293.56	278.46	13.99
1BTB643-303	0.0540	11.0246	0.3371	13.0169	0.0453	6.9215	0.5317	285.45	19.33	295.00	33.34	371.08	248.26	285.45	19.33
1BTB643-314	0.0532	4.6338	0.4080	4.6585	0.0556	2.9521	0.3252	348.65	10.02	347.41	13.71	338.99	104.95	348.65	10.02
1BTB643-097	0.0527	37.8144	0.4120	39.1263	0.0567	10.0365	0.2568	355.52	34.72	350.33	116.43	317.19	859.58	355.52	34.72
1BTB643-023	0.0542	9.2177	0.4246	12.6741	0.0568	8.9187	0.6865	356.43	30.93	359.32	38.37	380.52	207.22	356.43	30.93

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB643, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.592370, LONGITUDE: -70.086750 ACCEPTED															
1BTB643-358	0.0570	17.4734	0.4977	21.0752	0.0634	12.6378	0.5605	395.97	48.54	410.17	71.23	491.56	385.33	395.97	48.54
1BTB643-142	0.0554	6.5063	0.5175	7.2276	0.0677	3.7045	0.4413	422.43	15.15	423.46	25.03	429.71	145.00	422.43	15.15
1BTB643-359	0.0570	12.4037	0.5524	14.3182	0.0703	7.9143	0.5021	438.11	33.52	446.55	51.78	490.90	273.57	438.11	33.52
1BTB643-014	0.0585	14.4880	0.5830	20.7469	0.0724	14.8637	0.7158	450.47	64.67	466.39	77.74	548.42	316.39	450.47	64.67
1BTB643-373	0.0526	8.2901	0.5289	8.9021	0.0730	5.2755	0.4083	454.11	23.13	431.08	31.28	310.88	188.66	454.11	23.13
1BTB643-030	0.0745	25.7168	0.7512	27.8436	0.0732	10.8536	0.3834	455.51	47.73	568.92	121.86	1054.61	517.96	455.51	47.73
1BTB643-021	0.0561	9.8483	0.5697	10.9397	0.0737	5.1544	0.4368	458.34	22.80	457.83	40.34	457.79	218.41	458.34	22.80
1BTB643-032	0.0623	4.8692	0.6419	5.3904	0.0748	3.0387	0.4451	464.71	13.62	503.51	21.40	685.81	103.92	464.71	13.62
1BTB643-123	0.0622	26.3285	0.6495	30.2119	0.0758	14.7315	0.4905	471.06	66.92	508.19	121.37	679.80	562.46	471.06	66.92
1BTB643-380	0.0554	11.1012	0.5809	12.9113	0.0761	7.7957	0.5178	472.84	35.54	465.04	48.21	427.94	247.48	472.84	35.54
1BTB643-114	0.0785	26.1164	0.8239	27.4663	0.0761	8.3933	0.3097	473.10	38.29	610.23	126.63	1159.70	517.86	473.10	38.29
1BTB643-253	0.0584	7.8067	0.6148	9.5772	0.0763	6.2080	0.5829	473.94	28.37	486.60	37.04	546.15	170.55	473.94	28.37
1BTB643-250	0.0523	13.5250	0.5547	16.0028	0.0768	8.9957	0.5352	477.21	41.38	448.07	58.04	300.53	308.37	477.21	41.38
1BTB643-004	0.0584	8.6354	0.6305	9.1337	0.0785	6.1989	0.4175	487.04	29.08	496.42	35.88	543.59	188.74	487.04	29.08
1BTB643-060	0.0631	3.9067	0.6847	5.8167	0.0787	4.0810	0.7420	488.30	19.19	529.61	24.01	713.16	83.00	488.30	19.19
1BTB643-187	0.0558	6.4717	0.6075	7.4080	0.0789	4.3350	0.4949	489.55	20.44	482.01	28.44	446.32	143.81	489.55	20.44
1BTB643-319	0.0561	7.4534	0.6125	8.9454	0.0792	5.7403	0.5591	491.11	27.14	485.16	34.52	457.08	165.32	491.11	27.14
1BTB643-256	0.0572	9.4003	0.6302	12.0784	0.0799	8.4180	0.6313	495.79	40.17	496.23	47.45	497.72	207.08	495.79	40.17
1BTB643-020	0.0579	14.7585	0.6383	20.9403	0.0800	14.9854	0.7094	496.16	71.57	501.27	83.03	527.28	323.47	496.16	71.57
1BTB643-374	0.0567	9.5828	0.6257	10.7813	0.0800	6.4589	0.4748	496.41	30.86	493.42	42.16	480.63	211.73	496.41	30.86
1BTB643-065	0.0589	8.0419	0.6572	9.2638	0.0810	4.3904	0.4969	501.91	21.20	512.92	37.32	563.55	175.17	501.91	21.20
1BTB643-017	0.0653	12.5325	0.7282	15.5975	0.0810	9.3067	0.5953	502.14	44.96	555.49	66.83	783.26	263.29	502.14	44.96
1BTB643-036	0.0603	11.9985	0.6735	12.5070	0.0810	4.4242	0.2894	502.33	21.38	522.87	51.15	615.42	259.08	502.33	21.38
1BTB643-039	0.0615	8.1782	0.6878	9.2582	0.0811	5.0938	0.4748	502.91	24.64	531.46	38.33	657.76	175.35	502.91	24.64
1BTB643-092	0.0578	8.3051	0.6468	9.5742	0.0813	5.1175	0.4988	503.63	24.79	506.53	38.20	520.75	182.23	503.63	24.79
1BTB643-378	0.0533	8.5318	0.5973	8.9651	0.0814	4.9890	0.3630	504.41	24.21	475.49	34.05	339.46	193.21	504.41	24.21
1BTB643-053	0.0573	15.2470	0.6469	21.2566	0.0819	14.9919	0.6968	507.43	73.16	506.55	84.98	504.06	335.51	507.43	73.16
1BTB643-056	0.0599	9.1134	0.6759	12.2043	0.0819	8.0825	0.6651	507.57	39.45	524.29	50.02	599.22	197.32	507.57	39.45
1BTB643-045	0.0608	11.0309	0.6885	13.3016	0.0822	8.1892	0.5614	509.45	40.11	531.89	55.13	630.93	237.57	509.45	40.11
1BTB643-035	0.0577	7.5569	0.6548	8.9143	0.0824	5.4289	0.5355	510.37	26.64	511.42	35.83	518.02	165.89	510.37	26.64
1BTB643-246	0.0589	8.7838	0.6710	10.6480	0.0826	7.0397	0.5722	511.72	34.63	521.30	43.44	563.02	191.35	511.72	34.63
1BTB643-201	0.0583	9.8201	0.6670	12.5326	0.0830	7.8379	0.6213	513.90	38.72	518.87	50.96	540.66	214.74	513.90	38.72
1BTB643-216	0.0572	9.1492	0.6552	10.0997	0.0830	4.0084	0.4244	514.14	19.81	511.70	40.62	500.52	201.45	514.14	19.81
1BTB643-016	0.0569	8.9709	0.6530	9.8806	0.0834	4.1890	0.4192	516.27	20.78	510.33	39.65	486.63	198.00	516.27	20.78
1BTB643-352	0.0608	9.6780	0.7041	10.8979	0.0841	5.6130	0.4627	520.27	28.06	541.23	45.75	631.04	208.43	520.27	28.06
1BTB643-075	0.0584	8.1536	0.6801	11.3374	0.0845	8.0701	0.6950	523.08	40.55	526.83	46.63	544.34	178.19	523.08	40.55
1BTB643-138	0.0585	4.9466	0.6828	5.7352	0.0847	3.8555	0.5266	524.36	19.42	528.49	23.63	547.02	108.05	524.36	19.42
1BTB643-248	0.0593	10.8227	0.6939	11.4008	0.0849	5.1167	0.3345	525.02	25.80	535.16	47.46	578.12	235.16	525.02	25.80
1BTB643-353	0.0581	6.8680	0.6810	7.4284	0.0851	3.7969	0.3976	526.25	19.19	527.35	30.56	532.64	150.39	526.25	19.19
1BTB643-337	0.0604	9.0300	0.7109	12.0987	0.0854	7.5602	0.6669	528.18	38.34	545.26	51.09	617.52	194.91	528.18	38.34
1BTB643-281	0.0596	7.6651	0.7072	9.9621	0.0860	4.6647	0.6698	531.66	23.81	543.05	41.92	590.72	166.20	531.66	23.81
1BTB643-068	0.0582	6.0273	0.6898	7.7239	0.0861	4.6326	0.6259	532.30	23.67	532.69	32.03	535.63	131.92	532.30	23.67
1BTB643-243	0.0558	8.5595	0.6630	8.9411	0.0861	4.4731	0.3336	532.55	22.86	516.48	36.21	445.46	190.24	532.55	22.86
1BTB643-317	0.0573	13.0269	0.6830	17.5570	0.0865	12.1257	0.6707	534.73	62.23	528.61	72.47	502.15	286.75	534.73	62.23
1BTB643-289	0.0605	9.2688	0.7218	11.5207	0.0865	4.0071	0.6810	534.99	20.57	551.72	49.08	620.95	199.95	534.99	20.57
1BTB643-209	0.0602	11.3760	0.7196	14.7277	0.0867	9.9723	0.6364	536.21	51.31	550.46	62.66	609.64	245.88	536.21	51.31
1BTB643-247	0.0583	7.4125	0.6973	9.2112	0.0868	6.5751	0.6038	536.50	33.85	537.15	38.44	539.41	162.13	536.50	33.85
1BTB643-305	0.0575	9.8548	0.6915	11.3213	0.0872	7.1628	0.5078	538.67	37.02	533.71	47.03	512.32	216.55	538.67	37.02
1BTB643-026	0.0538	17.3829	0.6461	21.6896	0.0872	13.2577	0.5982	539.22	68.58	506.09	86.65	361.32	392.12	539.22	68.58
1BTB643-302	0.0611	9.6590	0.7349	10.6005	0.0873	4.3684	0.4120	539.43	22.61	559.42	45.62	641.34	207.66	539.43	22.61

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB643, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.592370, LONGITUDE: -70.086750 ACCEPTED															
1BTB643-205	0.0551	15.1025	0.6626	20.7370	0.0873	14.6252	0.6856	539.45	75.69	516.22	84.11	414.46	337.49	539.45	75.69
1BTB643-122	0.0584	5.5071	0.7039	7.5011	0.0874	4.8360	0.6799	539.98	25.05	541.09	31.47	546.63	120.30	539.98	25.05
1BTB643-050	0.0584	5.2474	0.7054	6.6630	0.0876	4.7165	0.6222	541.31	24.49	542.02	27.99	546.56	114.63	541.31	24.49
1BTB643-232	0.0591	7.5763	0.7143	8.6626	0.0877	4.6059	0.4869	542.00	23.94	547.30	36.67	568.98	164.88	542.00	23.94
1BTB643-252	0.0592	5.9673	0.7162	7.5565	0.0878	5.4085	0.6208	542.51	28.14	548.45	32.03	572.66	129.78	542.51	28.14
1BTB643-041	0.0592	4.9321	0.7183	5.0224	0.0881	3.3358	0.3589	544.46	17.42	549.68	21.32	573.06	107.26	544.46	17.42
1BTB643-078	0.0642	11.0132	0.7813	12.2975	0.0883	5.7453	0.4455	545.24	30.04	586.21	54.82	749.38	232.63	545.24	30.04
1BTB643-173	0.0585	7.5015	0.7121	8.4894	0.0883	4.7958	0.4765	545.55	25.09	545.99	35.87	548.01	163.83	545.55	25.09
1BTB643-208	0.0596	9.9391	0.7275	12.5842	0.0886	8.4578	0.6159	547.13	44.37	555.07	53.86	587.55	215.62	547.13	44.37
1BTB643-161	0.0604	6.2433	0.7390	7.8661	0.0887	4.7174	0.6084	547.92	24.78	561.84	33.96	619.01	134.73	547.92	24.78
1BTB643-316	0.0599	6.8116	0.7352	8.4805	0.0890	5.8315	0.6018	549.78	30.73	559.59	36.50	599.58	147.47	549.78	30.73
1BTB643-077	0.0590	4.6973	0.7253	5.5797	0.0892	3.4840	0.5454	550.69	18.39	553.82	23.82	567.86	102.24	550.69	18.39
1BTB643-367	0.0583	12.6333	0.7177	16.3133	0.0893	11.1280	0.6345	551.63	58.83	549.29	69.32	540.45	276.27	551.63	58.83
1BTB643-263	0.0581	13.0979	0.7198	17.4500	0.0898	11.3279	0.6609	554.09	60.15	550.54	74.29	535.35	286.68	554.09	60.15
1BTB643-116	0.0606	7.0305	0.7498	9.6839	0.0898	6.4221	0.6881	554.35	34.11	568.10	42.16	624.48	151.58	554.35	34.11
1BTB643-276	0.0591	10.2383	0.7383	12.2258	0.0905	3.4320	0.6724	558.68	18.37	561.41	52.77	572.01	222.69	558.68	18.37
1BTB643-024	0.0582	6.2036	0.7278	7.5838	0.0908	4.7861	0.5777	560.00	25.67	555.28	32.45	538.35	135.71	560.00	25.67
1BTB643-172	0.0593	6.8635	0.7462	9.2072	0.0913	6.6983	0.6691	563.02	36.11	566.02	39.97	578.35	149.13	563.02	36.11
1BTB643-362	0.0572	7.1003	0.7218	7.7284	0.0916	4.5596	0.4271	564.74	24.65	551.74	32.91	499.19	156.37	564.74	24.65
1BTB643-228	0.0643	8.7189	0.8132	11.3462	0.0917	7.5027	0.6403	565.34	40.61	604.23	51.71	752.55	184.07	565.34	40.61
1BTB643-227	0.0591	9.1683	0.7484	10.6409	0.0918	5.7225	0.5084	566.04	31.01	567.29	46.28	571.93	199.42	566.04	31.01
1BTB643-312	0.0597	7.2649	0.7561	9.0376	0.0919	6.1143	0.5998	566.64	33.17	571.73	39.53	591.87	157.49	566.64	33.17
1BTB643-321	0.0682	15.0897	0.8668	16.5809	0.0922	7.0127	0.4146	568.45	38.16	633.83	78.33	874.44	312.50	568.45	38.16
1BTB643-335	0.0876	61.8561	1.1138	62.1456	0.0922	5.3121	0.0971	568.83	28.92	760.02	345.21	1373.21	1189.81	568.83	28.92
1BTB643-260	0.0662	10.3350	0.8508	11.7532	0.0932	5.1669	0.4777	574.28	28.39	625.07	54.91	812.95	216.10	574.28	28.39
1BTB643-130	0.0598	5.6007	0.7715	7.2675	0.0936	5.0137	0.6393	576.74	27.66	580.65	32.15	596.76	121.31	576.74	27.66
1BTB643-199	0.0588	10.8926	0.7598	15.2296	0.0936	10.6813	0.6989	577.08	58.96	573.90	66.86	561.20	237.36	577.08	58.96
1BTB643-277	0.0590	11.5071	0.7670	13.8580	0.0943	5.1734	0.6025	580.75	28.73	578.02	61.15	566.81	250.51	580.75	28.73
1BTB643-007	0.0604	7.7180	0.7854	8.2239	0.0944	6.1349	0.4529	581.63	34.12	588.54	36.75	618.66	166.56	581.63	34.12
1BTB643-311	0.0595	8.0524	0.7777	10.2944	0.0948	7.0440	0.6258	583.60	39.30	584.17	45.76	586.20	174.73	583.60	39.30
1BTB643-091	0.0584	6.2703	0.7647	8.7190	0.0950	6.3405	0.6956	584.84	35.45	576.72	38.38	545.97	136.99	584.84	35.45
1BTB643-325	0.0604	7.2882	0.7911	8.3440	0.0950	4.5966	0.4906	585.14	25.71	591.82	37.44	617.48	157.32	585.14	25.71
1BTB643-369	0.0591	8.6605	0.7737	8.7510	0.0950	4.3458	0.2690	585.27	24.31	581.88	38.78	569.52	188.45	585.27	24.31
1BTB643-163	0.0581	8.4880	0.7662	10.3857	0.0957	5.9306	0.5763	589.02	33.38	577.59	45.78	533.25	185.85	589.02	33.38
1BTB643-011	0.0601	9.2213	0.7924	11.2262	0.0957	8.4650	0.5927	589.08	47.66	592.55	50.44	608.91	199.33	589.08	47.66
1BTB643-197	0.0596	8.4128	0.7885	10.1338	0.0959	5.7200	0.5576	590.36	32.27	590.30	45.39	589.98	182.43	590.36	32.27
1BTB643-127	0.0591	7.8391	0.7822	9.9599	0.0960	6.2460	0.6169	590.75	35.26	586.75	44.42	572.14	170.51	590.75	35.26
1BTB643-081	0.0593	8.3322	0.7854	11.7595	0.0961	8.2915	0.7057	591.28	46.85	588.58	52.57	579.30	181.01	591.28	46.85
1BTB643-360	0.0585	13.9681	0.7743	18.8839	0.0961	13.1518	0.6734	591.53	74.34	582.22	83.87	546.74	305.13	591.53	74.34
1BTB643-383	0.0570	12.9334	0.7573	16.8228	0.0964	11.5344	0.6410	593.11	65.36	572.46	73.74	492.60	285.16	593.11	65.36
1BTB643-240	0.0659	7.5618	0.8772	8.6426	0.0965	5.5538	0.5037	593.66	31.50	639.44	41.03	804.27	158.33	593.66	31.50
1BTB643-365	0.0575	7.8045	0.7645	8.0118	0.0965	4.5374	0.3283	593.87	25.74	576.59	35.26	509.86	171.57	593.87	25.74
1BTB643-096	0.0589	7.9870	0.7847	9.6012	0.0967	5.3092	0.5550	594.76	30.16	588.17	42.89	563.92	173.96	594.76	30.16
1BTB643-237	0.0628	8.6414	0.8387	8.0406	0.0968	5.3519	0.2163	595.57	30.45	618.45	37.26	702.64	183.92	595.57	30.45
1BTB643-200	0.0607	7.5260	0.8105	9.9307	0.0968	6.5404	0.6525	595.76	37.22	602.74	45.17	628.95	162.14	595.76	37.22
1BTB643-087	0.0595	4.2875	0.8048	6.5135	0.0981	5.3664	0.7559	603.42	30.91	599.54	29.50	586.03	93.04	603.42	30.91
1BTB643-082	0.0590	6.0496	0.8004	8.9631	0.0985	6.6051	0.7379	605.33	38.16	597.03	40.48	566.76	131.70	605.33	38.16
1BTB643-066	0.0631	7.8534	0.8604	9.0719	0.0990	4.3306	0.5012	608.32	25.14	630.35	42.63	711.41	166.91	608.32	25.14
1BTB643-219	0.0606	6.4931	0.8293	8.2854	0.0993	4.9253	0.6218	610.13	28.67	613.22	38.16	624.32	139.99	610.13	28.67
1BTB643-223	0.0621	14.2836	0.8566	15.1836	0.1000	5.2874	0.3393	614.50	30.99	628.27	71.25	677.80	305.24	614.50	30.99

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB643, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.592370, LONGITUDE: -70.086750 ACCEPTED															
1BTB643-182	0.0598	14.1215	0.8333	19.8085	0.1011	13.9989	0.7013	620.99	82.88	615.47	91.67	595.30	305.95	620.99	82.88
1BTB643-299	0.0613	12.8047	0.8557	14.1089	0.1012	6.0324	0.4200	621.52	35.74	627.80	66.15	650.15	274.89	621.52	35.74
1BTB643-155	0.0611	5.2984	0.8650	7.3062	0.1027	5.3009	0.6895	630.45	31.84	632.85	34.42	641.92	113.90	630.45	31.84
1BTB643-306	0.0623	6.8262	0.8831	6.8860	0.1028	4.5902	0.3463	630.75	27.58	642.63	32.80	684.35	145.72	630.75	27.58
1BTB643-193	0.0600	7.9870	0.8517	11.8491	0.1030	8.8562	0.7387	632.10	53.32	625.58	55.39	602.06	172.85	632.10	53.32
1BTB643-008	0.0595	8.1204	0.8508	7.4571	0.1038	4.3864	0.1362	636.76	26.60	625.08	34.82	586.40	176.20	636.76	26.60
1BTB643-293	0.0616	9.6574	0.8871	11.3217	0.1044	6.0477	0.5221	640.23	36.86	644.83	54.09	660.63	206.96	640.23	36.86
1BTB643-340	0.0625	6.5891	0.9130	7.6701	0.1060	3.2127	0.5222	649.38	19.85	658.64	37.19	690.73	140.51	649.38	19.85
1BTB643-291	0.0623	8.3736	0.9120	8.9968	0.1062	3.5333	0.3666	650.46	21.86	658.12	43.60	684.08	178.76	650.46	21.86
1BTB643-330	0.0617	6.3466	0.9080	7.0413	0.1067	3.7317	0.4420	653.59	23.19	655.97	34.04	664.23	135.93	653.59	23.19
1BTB643-012	0.0615	7.8043	0.9055	8.4873	0.1070	6.4643	0.4822	655.40	40.29	654.67	40.97	655.12	167.40	655.40	40.29
1BTB643-125	0.0664	6.6742	0.9874	10.3610	0.1079	8.0044	0.7649	660.51	50.25	697.39	52.31	818.96	139.42	660.51	50.25
1BTB643-285	0.0653	9.5619	0.9790	11.9022	0.1087	4.4129	0.6636	665.21	27.89	693.08	59.85	784.18	200.85	665.21	27.89
1BTB643-280	0.0652	7.6017	1.0082	9.9966	0.1122	4.8389	0.6777	685.52	31.47	707.94	51.00	779.27	159.80	685.52	31.47
1BTB643-177	0.0619	4.7948	0.9594	6.2136	0.1125	4.5807	0.6430	687.30	29.86	682.99	30.90	669.00	102.61	687.30	29.86
1BTB643-137	0.0632	6.8588	1.0300	8.0369	0.1182	4.8979	0.5276	720.25	33.38	718.92	41.43	715.44	145.67	720.25	33.38
1BTB643-174	0.0670	7.9767	1.1043	9.1880	0.1195	5.2910	0.5018	727.48	36.40	755.42	49.00	839.25	166.10	727.48	36.40
1BTB643-296	0.0674	12.6986	1.1239	14.6660	0.1209	7.4247	0.5003	735.89	51.64	764.82	78.96	849.96	263.99	735.89	51.64
1BTB643-210	0.0684	13.3477	1.1426	17.5752	0.1211	11.7177	0.6507	736.84	81.59	773.74	95.45	881.56	276.12	736.84	81.59
1BTB643-133	0.0676	4.1591	1.1513	5.7052	0.1235	4.3521	0.6885	750.73	30.84	777.87	31.01	857.27	86.36	750.73	30.84
1BTB643-102	0.0671	13.9832	1.1464	17.6058	0.1239	10.7190	0.6076	753.20	76.20	775.56	95.76	841.47	291.08	753.20	76.20
1BTB643-047	0.0633	12.0049	1.1005	16.4177	0.1262	11.7148	0.6828	766.01	84.61	753.61	87.56	718.50	254.84	766.01	84.61
1BTB643-062	0.0709	10.7180	1.2570	15.7243	0.1287	11.4220	0.7317	780.48	83.97	826.55	89.15	953.80	219.25	780.48	83.97
1BTB643-076	0.0656	7.5947	1.2886	8.7969	0.1425	4.7724	0.5060	858.89	38.38	840.67	50.33	793.99	159.28	793.99	159.28
1BTB643-224	0.0674	11.3984	1.2781	12.6363	0.1375	5.7730	0.4324	830.41	44.98	836.02	72.11	850.61	236.93	850.61	236.93
1BTB643-322	0.0682	9.6505	1.3933	13.2997	0.1482	9.2574	0.6881	890.84	77.03	886.09	78.77	874.21	199.87	874.21	199.87
1BTB643-018	0.0695	8.7715	1.2839	11.4203	0.1342	7.3405	0.6404	812.00	56.00	838.61	65.28	912.28	180.56	912.28	180.56
1BTB643-176	0.0697	9.4230	1.6206	10.0685	0.1686	4.2364	0.3579	1004.61	39.41	978.21	63.30	919.58	193.75	919.58	193.75
1BTB643-162	0.0699	10.5992	1.6216	15.7149	0.1684	11.5747	0.7383	1003.16	107.54	978.62	99.01	924.28	217.78	924.28	217.78
1BTB643-183	0.0706	5.5541	1.5805	7.5967	0.1624	5.4653	0.6832	970.04	49.22	962.56	47.28	945.60	113.75	945.60	113.75
1BTB643-218	0.0710	6.0493	1.5361	7.5335	0.1568	4.2343	0.5970	939.15	37.01	944.93	46.36	958.13	123.66	958.13	123.66
1BTB643-003	0.0711	9.8455	1.4007	9.9690	0.1431	5.6585	0.3055	862.35	45.67	889.24	59.13	960.24	201.20	960.24	201.20
1BTB643-366	0.0713	7.8546	1.7035	8.4247	0.1734	5.1566	0.4129	1030.96	49.13	1009.85	53.95	965.09	160.40	965.09	160.40
1BTB643-071	0.0717	14.9191	1.5245	17.5606	0.1543	9.2963	0.5275	925.26	80.13	940.29	108.08	976.80	304.13	976.80	304.13
1BTB643-372	0.0718	10.5276	1.7672	12.7421	0.1786	8.2969	0.5693	1059.52	81.07	1033.50	82.81	979.78	214.46	979.78	214.46
1BTB643-027	0.0719	6.7489	1.5525	7.2423	0.1567	3.7941	0.3876	938.46	33.14	951.47	44.76	983.75	137.40	983.75	137.40
1BTB643-339	0.0720	6.3295	1.6468	8.0528	0.1660	4.1360	0.6289	989.84	37.95	988.31	50.92	985.13	128.84	985.13	128.84
1BTB643-370	0.0721	8.6109	1.8053	9.2441	0.1818	5.3493	0.4037	1076.66	53.04	1047.37	60.47	987.62	175.21	987.62	175.21
1BTB643-349	0.0723	4.8996	1.7853	6.5390	0.1791	4.0704	0.6635	1061.81	39.85	1040.11	42.58	995.19	99.58	995.19	99.58
1BTB643-336	0.0725	5.7332	1.6097	7.9257	0.1609	4.7189	0.6980	962.00	42.17	973.99	49.68	1001.30	116.42	1001.30	116.42
1BTB643-384	0.0726	8.6442	1.7119	8.7629	0.1712	4.4018	0.2779	1018.73	41.48	1013.00	56.22	1001.90	175.52	1001.90	175.52
1BTB643-364	0.0726	10.3014	1.7991	12.6198	0.1797	8.3935	0.5834	1065.19	82.42	1045.14	82.54	1004.19	209.09	1004.19	209.09
1BTB643-044	0.0728	6.0688	1.7596	6.9980	0.1755	4.8944	0.5270	1042.62	47.12	1030.70	45.34	1007.03	123.13	1007.03	123.13
1BTB643-061	0.0729	6.2528	1.7316	9.0237	0.1723	6.3571	0.7212	1024.68	60.23	1020.35	58.15	1012.30	126.77	1012.30	126.77
1BTB643-132	0.0730	5.5119	1.7700	6.8265	0.1758	4.4620	0.5931	1044.15	43.01	1034.53	44.32	1014.95	111.70	1014.95	111.70
1BTB643-361	0.0735	8.7486	1.6421	9.3542	0.1622	4.7370	0.3769	968.95	42.62	986.53	59.10	1026.53	177.00	1026.53	177.00
1BTB643-031	0.0736	9.1287	1.5819	11.7580	0.1561	7.6685	0.6306	935.02	66.75	963.13	73.28	1029.74	184.55	1029.74	184.55
1BTB643-055	0.0736	13.9735	1.9469	19.0721	0.1919	12.9585	0.6806	1131.59	134.51	1097.38	128.62	1031.46	282.43	1031.46	282.43
1BTB643-064	0.0736	4.0062	1.7256	5.5610	0.1701	3.6063	0.6951	1012.40	33.79	1018.13	35.76	1031.68	80.97	1031.68	80.97
1BTB643-136	0.0737	8.2262	1.6462	10.3665	0.1621	6.7997	0.6102	968.33	61.14	988.09	65.57	1032.89	166.23	1032.89	166.23

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB643, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.592370, LONGITUDE: -70.086750 ACCEPTED															
1BTB643-233	0.0739	6.2375	1.7357	7.2667	0.1703	4.1801	0.5164	1013.62	39.21	1021.86	46.85	1039.15	125.92	1039.15	125.92
1BTB643-175	0.0741	6.4441	1.8004	8.0410	0.1763	5.3381	0.6014	1046.50	51.57	1045.61	52.54	1043.93	130.00	1043.93	130.00
1BTB643-145	0.0741	4.3938	1.8651	4.9595	0.1825	3.1212	0.4856	1080.65	31.05	1068.78	32.79	1045.21	88.62	1045.21	88.62
1BTB643-179	0.0743	5.7920	1.5109	8.9106	0.1475	7.1565	0.7611	887.02	59.31	934.82	54.50	1049.38	116.75	1049.38	116.75
1BTB643-156	0.0743	11.0453	1.6733	16.0128	0.1633	11.7133	0.7241	975.27	106.02	998.43	102.11	1050.07	222.62	1050.07	222.62
1BTB643-154	0.0744	8.1182	1.9139	11.3358	0.1866	8.0861	0.6981	1102.79	81.97	1085.93	75.74	1052.72	163.56	1052.72	163.56
1BTB643-229	0.0746	5.6949	1.8058	6.1041	0.1756	2.8986	0.3739	1042.98	27.91	1047.55	39.91	1056.70	114.67	1056.70	114.67
1BTB643-115	0.0746	9.6905	1.8981	13.4867	0.1846	9.2129	0.6956	1092.06	92.56	1080.42	89.92	1057.91	195.08	1057.91	195.08
1BTB643-128	0.0747	6.9930	1.7244	8.2819	0.1675	4.5773	0.5360	998.29	42.33	1017.68	53.28	1060.37	140.72	1060.37	140.72
1BTB643-318	0.0749	5.4905	1.8431	6.6280	0.1785	4.7190	0.5763	1059.04	46.09	1060.98	43.66	1064.86	110.41	1064.86	110.41
1BTB643-217	0.0752	5.8835	1.7927	7.2624	0.1729	3.9872	0.5875	1028.29	37.90	1042.81	47.37	1073.07	118.17	1073.07	118.17
1BTB643-310	0.0753	11.9025	1.8257	16.1778	0.1757	11.3375	0.6777	1043.68	109.26	1054.75	106.52	1077.52	238.90	1077.52	238.90
1BTB643-195	0.0755	5.5484	1.8512	7.0376	0.1777	4.4208	0.6153	1054.59	43.01	1063.84	46.43	1082.81	111.28	1082.81	111.28
1BTB643-005	0.0756	9.2563	1.8396	11.0564	0.1768	8.1325	0.5711	1049.35	78.76	1059.71	72.85	1084.41	185.60	1084.41	185.60
1BTB643-257	0.0756	5.9732	1.8600	7.0393	0.1784	5.2165	0.5594	1058.21	50.91	1066.98	46.52	1084.46	119.77	1084.46	119.77
1BTB643-029	0.0757	10.5407	1.7601	14.2940	0.1688	10.0351	0.6759	1005.62	93.44	1030.88	92.81	1086.85	211.28	1086.85	211.28
1BTB643-150	0.0758	4.9968	1.9481	5.5094	0.1865	2.8682	0.4307	1102.62	29.07	1097.81	36.98	1088.78	100.13	1088.78	100.13
1BTB643-109	0.0759	9.3624	1.9509	14.2367	0.1866	10.5386	0.7535	1102.81	106.83	1098.77	95.85	1091.68	187.52	1091.68	187.52
1BTB643-204	0.0759	10.0321	1.9466	13.7385	0.1859	9.4287	0.6832	1099.28	95.30	1097.27	92.41	1093.13	200.89	1093.13	200.89
1BTB643-274	0.0761	8.5571	1.9033	10.7200	0.1814	2.9711	0.7931	1074.70	29.41	1082.26	71.48	1097.06	171.25	1097.06	171.25
1BTB643-160	0.0764	6.4474	1.8778	7.8764	0.1782	4.4526	0.5745	1057.40	43.42	1073.29	52.23	1106.09	128.86	1106.09	128.86
1BTB643-170	0.0765	7.3049	1.9322	9.7201	0.1832	6.9515	0.6619	1084.46	69.39	1092.31	65.13	1108.25	145.95	1108.25	145.95
1BTB643-238	0.0766	7.7849	1.9692	6.7997	0.1865	4.9291	0.1481	1102.40	49.95	1105.04	45.82	1109.80	155.51	1109.80	155.51
1BTB643-273	0.0766	10.6491	1.6476	15.2483	0.1560	9.2865	0.7251	934.60	80.80	988.62	96.64	1110.08	212.71	1110.08	212.71
1BTB643-235	0.0766	9.9972	1.8652	11.4070	0.1766	8.2970	0.5231	1048.12	80.27	1068.85	75.54	1110.97	199.66	1110.97	199.66
1BTB643-165	0.0768	8.8258	2.0597	12.9014	0.1946	9.3885	0.7294	1146.32	98.60	1135.53	88.41	1115.27	176.16	1115.27	176.16
1BTB643-220	0.0768	10.2450	1.9559	14.2207	0.1847	9.9350	0.6935	1092.74	99.87	1100.47	95.83	1115.49	204.47	1115.49	204.47
1BTB643-101	0.0769	11.8415	2.0092	17.1891	0.1897	12.4783	0.7249	1119.59	128.26	1118.63	117.05	1117.70	236.26	1117.70	236.26
1BTB643-139	0.0772	5.6009	2.0071	6.9108	0.1886	4.7782	0.5939	1113.80	48.88	1117.93	46.87	1126.57	111.60	1126.57	111.60
1BTB643-272	0.0773	9.4701	1.8194	12.0400	0.1708	4.7340	0.6815	1016.30	44.51	1052.47	79.05	1127.85	188.66	1127.85	188.66
1BTB643-234	0.0779	7.2561	1.8778	8.9326	0.1747	5.5420	0.5843	1037.91	53.13	1073.30	59.25	1145.53	144.18	1145.53	144.18
1BTB643-106	0.0780	12.9931	2.3112	17.5893	0.2151	11.6874	0.6741	1255.73	133.37	1215.73	125.29	1146.32	258.14	1146.32	258.14
1BTB643-086	0.0781	7.4581	1.8847	9.5943	0.1751	6.4174	0.6303	1040.05	61.64	1075.70	63.73	1149.72	148.10	1149.72	148.10
1BTB643-192	0.0784	8.4407	2.0519	11.8634	0.1898	8.4449	0.7028	1120.09	86.83	1132.94	81.16	1157.61	167.42	1157.61	167.42
1BTB643-099	0.0784	5.0415	2.1377	7.5201	0.1977	5.5615	0.7420	1163.10	59.19	1161.07	52.07	1158.26	99.99	1158.26	99.99
1BTB643-049	0.0785	5.6541	1.9951	6.6729	0.1845	4.9368	0.5605	1091.59	49.57	1113.85	45.16	1158.93	112.13	1158.93	112.13
1BTB643-327	0.0786	5.7153	1.9609	6.3858	0.1810	3.5690	0.4574	1072.61	35.27	1102.19	42.97	1161.07	113.30	1161.07	113.30
1BTB643-354	0.0788	7.2494	2.1711	7.8636	0.2000	3.9608	0.4009	1175.08	42.55	1171.85	54.72	1166.36	143.61	1166.36	143.61
1BTB643-194	0.0790	5.9411	2.2200	8.0042	0.2039	5.4378	0.6702	1196.04	59.36	1187.38	56.09	1171.61	117.60	1171.61	117.60
1BTB643-063	0.0791	5.1115	2.0616	7.0834	0.1892	4.7043	0.6929	1117.16	48.25	1136.16	48.47	1173.83	101.15	1173.83	101.15
1BTB643-043	0.0793	6.0420	2.1328	7.0138	0.1952	4.7872	0.5302	1149.48	50.40	1159.49	48.52	1179.74	119.45	1179.74	119.45
1BTB643-094	0.0798	5.9102	2.2526	8.7292	0.2049	6.4081	0.7359	1201.72	70.26	1197.61	61.46	1191.17	116.65	1191.17	116.65
1BTB643-190	0.0800	6.4266	2.1525	9.0812	0.1952	6.5566	0.7067	1149.26	69.02	1165.86	63.04	1196.83	126.74	1196.83	126.74
1BTB643-308	0.0800	6.5696	2.1178	6.0868	0.1920	3.7603	0.1754	1131.95	39.04	1154.63	42.01	1197.25	129.55	1197.25	129.55
1BTB643-184	0.0801	5.2926	2.0927	6.2198	0.1895	4.0585	0.5377	1118.69	41.68	1146.41	42.76	1199.28	104.34	1199.28	104.34
1BTB643-368	0.0802	14.5586	2.0931	19.2689	0.1893	13.2908	0.6560	1117.52	136.39	1146.55	133.16	1202.67	286.88	1202.67	286.88
1BTB643-239	0.0806	8.4378	2.2311	7.9844	0.2007	5.5874	0.2664	1179.18	60.21	1190.85	56.04	1211.69	166.05	1211.69	166.05
1BTB643-331	0.0806	10.9328	2.1443	15.6644	0.1928	11.4224	0.7163	1136.75	119.05	1163.21	108.88	1212.91	215.11	1212.91	215.11
1BTB643-098	0.0811	4.8618	2.1514	6.7428	0.1924	4.6502	0.6929	1134.46	48.37	1165.49	46.77	1224.57	95.50	1224.57	95.50
1BTB643-301	0.0812	8.6838	2.1638	9.5299	0.1933	3.9268	0.4119	1139.05	41.00	1169.49	66.27	1226.03	170.54	1226.03	170.54

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB643, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.592370, LONGITUDE: -70.086750 ACCEPTED															
1BTB643-147	0.0812	4.5266	2.2215	4.7233	0.1984	2.5043	0.3420	1166.96	26.73	1187.84	33.08	1226.57	88.89	1226.57	88.89
1BTB643-258	0.0818	5.9159	1.9321	8.2201	0.1712	6.7759	0.7046	1018.92	63.86	1092.28	55.05	1241.11	115.93	1241.11	115.93
1BTB643-230	0.0819	6.1596	1.9127	7.2579	0.1693	4.2792	0.5320	1008.32	39.94	1085.53	48.43	1243.56	120.66	1243.56	120.66
1BTB643-343	0.0829	5.6784	2.4802	8.5587	0.2171	5.9928	0.7499	1266.29	68.90	1266.27	62.01	1266.53	110.87	1266.53	110.87
1BTB643-084	0.0832	6.4744	2.5585	9.5562	0.2233	7.0207	0.7355	1299.04	82.60	1288.88	69.87	1273.01	126.30	1273.01	126.30
1BTB643-188	0.0833	13.5336	2.1214	14.1799	0.1847	4.8690	0.3014	1092.66	48.94	1155.80	98.16	1276.21	263.88	1276.21	263.88
1BTB643-054	0.0833	6.5928	2.4675	8.9141	0.2148	6.4329	0.6747	1254.60	73.34	1262.55	64.50	1277.41	128.52	1277.41	128.52
1BTB643-185	0.0834	10.9042	2.0831	17.9108	0.1811	14.4115	0.7934	1072.87	142.46	1143.26	123.48	1279.45	212.51	1279.45	212.51
1BTB643-254	0.0839	5.6142	2.4033	6.4379	0.2078	4.8236	0.5345	1217.00	53.50	1243.57	46.19	1289.44	109.26	1289.44	109.26
1BTB643-167	0.0842	4.5015	2.5147	5.4406	0.2166	2.9883	0.5618	1263.74	34.29	1276.30	39.55	1297.78	87.50	1297.78	87.50
1BTB643-040	0.0845	13.1328	2.2103	16.9161	0.1899	11.1316	0.6309	1121.04	114.55	1184.30	118.80	1303.31	255.08	1303.31	255.08
1BTB643-112	0.0852	12.1913	2.9405	17.8374	0.2504	12.9485	0.7300	1440.44	167.18	1392.40	135.96	1320.41	236.23	1320.41	236.23
1BTB643-143	0.0853	4.3615	2.4651	4.9648	0.2097	3.0732	0.4939	1227.37	34.35	1261.86	35.88	1321.73	84.50	1321.73	84.50
1BTB643-189	0.0857	7.1494	2.7301	9.2545	0.2311	6.3504	0.6369	1340.35	76.85	1336.68	68.88	1330.82	138.33	1330.82	138.33
1BTB643-013	0.0857	7.6931	2.8590	10.4220	0.2422	7.0593	0.6746	1398.13	88.73	1371.17	78.56	1332.05	148.82	1332.05	148.82
1BTB643-338	0.0860	6.3588	2.4798	8.2486	0.2091	4.4639	0.6454	1223.85	49.76	1266.15	59.75	1338.93	122.90	1338.93	122.90
1BTB643-342	0.0864	14.2681	2.7699	20.5813	0.2325	14.6600	0.7207	1347.44	178.30	1347.45	154.73	1347.74	275.42	1347.74	275.42
1BTB643-329	0.0869	6.1838	2.6616	6.8468	0.2222	3.6419	0.4392	1293.64	42.69	1317.87	50.58	1357.53	119.20	1357.53	119.20
1BTB643-019	0.0870	7.2180	2.5092	8.8543	0.2094	5.1669	0.5792	1225.72	57.68	1274.71	64.37	1360.64	139.08	1360.64	139.08
1BTB643-015	0.0873	6.3609	2.6887	8.0203	0.2237	4.9256	0.6091	1301.34	58.04	1325.34	59.43	1366.87	122.46	1366.87	122.46
1BTB643-211	0.0875	9.8836	2.8239	13.4977	0.2340	9.5436	0.6815	1355.67	116.69	1361.90	101.55	1371.45	190.16	1371.45	190.16
1BTB643-202	0.0883	5.7462	2.5953	7.1348	0.2133	4.3227	0.5929	1246.15	48.98	1299.30	52.34	1388.06	110.30	1388.06	110.30
1BTB643-287	0.0888	9.0039	2.7187	11.1620	0.2219	3.5724	0.7057	1292.01	41.82	1333.57	83.04	1400.56	172.54	1400.56	172.54
1BTB643-309	0.0891	14.4854	2.8660	19.6307	0.2332	13.9924	0.6759	1351.44	170.63	1373.03	148.83	1406.58	277.36	1406.58	277.36
1BTB643-221	0.0892	9.6542	2.6034	11.9683	0.2116	7.1743	0.5911	1237.13	80.76	1301.61	88.02	1409.24	184.78	1409.24	184.78
1BTB643-268	0.0894	13.4394	2.8350	15.6209	0.2301	5.5251	0.5441	1334.82	66.62	1364.85	117.78	1411.74	257.15	1411.74	257.15
1BTB643-371	0.0896	7.4686	3.1924	7.3148	0.2586	3.8776	0.2250	1482.81	51.36	1455.32	56.62	1416.26	142.82	1416.26	142.82
1BTB643-226	0.0898	6.9925	3.1083	8.6562	0.2511	5.4414	0.5907	1444.24	70.41	1434.75	66.59	1420.37	133.64	1420.37	133.64
1BTB643-215	0.0926	6.8010	3.0489	9.4192	0.2389	6.3433	0.6921	1380.87	78.85	1419.96	72.14	1478.82	128.96	1478.82	128.96
1BTB643-255	0.0931	4.6218	3.2313	4.3185	0.2517	3.2601	0.2811	1447.27	42.26	1464.71	33.50	1489.64	87.51	1489.64	87.51
1BTB643-198	0.0931	6.1832	3.1367	8.0730	0.2443	5.2670	0.6430	1408.97	66.66	1441.74	62.23	1490.34	117.06	1490.34	117.06
1BTB643-290	0.0932	9.0243	3.2528	10.3675	0.2532	5.2638	0.4925	1454.87	68.56	1469.86	80.69	1491.21	170.83	1491.21	170.83
1BTB643-241	0.0936	5.2641	3.1178	5.7247	0.2416	4.2887	0.4777	1395.15	53.80	1437.08	44.04	1499.29	99.54	1499.29	99.54
1BTB643-231	0.0962	7.1234	3.4884	8.9406	0.2629	5.7241	0.6053	1504.51	76.81	1524.59	70.67	1552.20	133.77	1552.20	133.77
1BTB643-169	0.1001	9.6853	3.9867	14.5955	0.2890	10.9003	0.7481	1636.43	157.57	1631.49	119.02	1625.36	180.17	1625.36	180.17
1BTB643-307	0.1032	5.2310	4.1432	7.3721	0.2911	6.8727	0.7324	1646.95	99.90	1662.86	60.37	1682.80	96.58	1682.80	96.58
1BTB643-259	0.1036	4.8256	4.2274	5.0703	0.2958	3.9701	0.4517	1670.30	58.42	1679.35	41.66	1690.24	89.01	1690.24	89.01
1BTB643-324	0.1050	4.9710	3.9529	6.0406	0.2729	3.7052	0.5698	1555.61	51.21	1624.58	48.99	1715.08	91.41	1715.08	91.41
1BTB643-069	0.1053	5.5542	4.0453	8.0842	0.2789	5.7128	0.7269	1585.76	80.31	1643.35	65.91	1718.89	102.08	1718.89	102.08
1BTB643-346	0.1057	5.3094	4.4743	7.2057	0.3071	4.6420	0.6769	1726.60	70.31	1726.21	59.87	1726.06	97.50	1726.06	97.50
1BTB643-249	0.1057	9.2790	3.5030	11.4906	0.2403	7.6984	0.5946	1388.11	96.15	1527.89	91.01	1726.77	170.38	1726.77	170.38
1BTB643-108	0.1064	4.7278	4.5336	6.7917	0.3092	4.4507	0.7209	1736.83	67.76	1737.16	56.56	1738.38	86.69	1738.38	86.69
1BTB643-141	0.1103	5.2062	4.8640	6.5519	0.3199	4.4317	0.6107	1789.19	69.24	1796.05	55.24	1804.56	94.67	1804.56	94.67
1BTB643-126	0.1115	11.5176	4.8600	15.9300	0.3162	11.0623	0.6908	1770.91	171.34	1795.35	134.94	1824.54	208.95	1824.54	208.95
1BTB643-042	0.1121	7.0859	4.8851	9.1432	0.3162	6.6043	0.6376	1771.17	102.29	1799.69	77.21	1834.28	128.41	1834.28	128.41
1BTB643-090	0.1132	10.6723	5.0925	14.3468	0.3264	9.7689	0.6684	1820.87	154.99	1834.86	122.35	1851.69	192.91	1851.69	192.91
1BTB643-357	0.1133	6.3600	4.9901	6.0600	0.3196	4.1406	0.2674	1787.84	64.65	1817.65	51.30	1852.47	114.95	1852.47	114.95
1BTB643-135	0.1135	7.7767	5.7576	10.7620	0.3680	7.8604	0.6923	2020.17	136.34	1940.06	93.37	1856.18	140.49	1856.18	140.49
1BTB643-328	0.1138	6.6994	5.5797	8.3583	0.3556	5.4410	0.6001	1961.18	92.01	1912.98	72.09	1861.14	120.96	1861.14	120.96
1BTB643-146	0.1139	6.2246	5.1898	8.3638	0.3305	5.9714	0.6694	1840.93	95.63	1850.95	71.32	1862.71	112.37	1862.71	112.37

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB643, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.592370, LONGITUDE: -70.086750 ACCEPTED															
1BTB643-212	0.1154	6.3517	5.2304	8.2257	0.3287	5.8222	0.6391	1832.04	92.85	1857.58	70.23	1886.06	114.35	1886.06	114.35
1BTB643-158	0.1161	4.8780	5.3593	7.0749	0.3349	5.3899	0.7252	1862.29	87.18	1878.38	60.61	1896.57	87.71	1896.57	87.71
1BTB643-283	0.1168	10.7520	4.7243	14.1495	0.2932	8.1163	0.6552	1657.65	118.65	1771.56	119.12	1908.21	193.07	1908.21	193.07
1BTB643-178	0.1184	5.4146	5.6456	7.6540	0.3459	5.8847	0.7093	1914.78	97.49	1923.09	66.12	1932.20	96.96	1932.20	96.96
1BTB643-038	0.1185	6.1693	5.4113	7.4744	0.3316	4.9921	0.5725	1845.97	80.14	1886.64	64.14	1933.17	110.46	1933.17	110.46
1BTB643-010	0.1193	11.7498	5.2324	16.5180	0.3185	12.6022	0.7052	1782.46	196.31	1857.91	141.72	1946.08	210.08	1946.08	210.08
1BTB643-006	0.1234	8.5042	6.0184	9.9813	0.3543	7.5417	0.5592	1954.91	127.19	1978.50	87.12	2006.11	150.99	2006.11	150.99
1BTB643-264	0.1238	10.4411	5.9838	13.5325	0.3506	8.3356	0.6365	1937.23	139.50	1973.50	118.26	2011.30	185.27	2011.30	185.27
1BTB643-294	0.1243	14.2117	6.2410	18.3426	0.3640	11.6678	0.6322	2001.05	200.78	2010.22	161.88	2019.34	251.93	2019.34	251.93
1BTB643-271	0.1253	9.7282	6.2093	12.8849	0.3593	6.2060	0.6872	1979.03	105.77	2005.76	113.15	2032.99	172.18	2032.99	172.18
1BTB643-033	0.1258	6.8569	5.8634	7.8236	0.3383	4.2519	0.4850	1878.41	69.29	1955.84	67.97	2040.38	121.25	2040.38	121.25
1BTB643-242	0.1258	5.9277	6.4127	6.6962	0.3695	4.7992	0.5093	2027.07	83.48	2034.00	58.89	2040.65	104.82	2040.65	104.82
1BTB643-244	0.1269	4.9802	6.2182	5.5411	0.3552	4.3856	0.5172	1959.57	74.11	2007.01	48.51	2055.80	87.91	2055.80	87.91
1BTB643-213	0.1290	4.7837	6.5655	5.6937	0.3690	4.0141	0.5611	2024.54	69.75	2054.73	50.21	2084.94	84.16	2084.94	84.16
1BTB643-341	0.1299	5.5768	6.8165	8.2447	0.3805	5.6375	0.7386	2078.82	100.18	2087.87	73.13	2097.04	97.97	2097.04	97.97
1BTB643-134	0.1350	4.5553	7.2256	5.2336	0.3882	3.6169	0.5209	2114.56	65.21	2139.67	46.71	2164.46	79.41	2164.46	79.41
1BTB643-222	0.1426	7.0433	6.6953	9.5491	0.3405	6.5584	0.6754	1889.07	107.40	2072.01	84.55	2258.88	121.58	2258.88	121.58
1BTB643-191	0.1462	9.2877	8.3151	12.3230	0.4124	8.2108	0.6573	2226.02	154.59	2265.97	112.15	2302.20	159.56	2302.20	159.56
1BTB643-080	0.1602	3.5006	10.0978	5.5503	0.4574	4.2941	0.7760	2428.28	86.89	2443.77	51.32	2457.60	59.18	2457.60	59.18
1BTB643-046	0.1755	3.6853	9.8651	3.3206	0.4079	3.0426	0.3317	2205.30	56.83	2422.26	30.62	2611.15	61.36	2611.15	61.36
1BTB643-350	0.1897	8.6361	11.2131	13.2764	0.4288	10.3964	0.7599	2300.25	201.20	2541.01	124.39	2739.58	142.05	2739.58	142.05
1BTB643-313	0.1898	4.6748	12.3790	6.1204	0.4730	4.9082	0.6607	2496.55	101.60	2633.58	57.56	2740.52	76.88	2740.52	76.88
1BTB643-298	0.1902	11.5597	11.1413	12.4146	0.4248	4.6675	0.3648	2282.07	89.71	2535.02	116.18	2743.92	190.06	2743.92	190.06
1BTB643-022	0.2432	5.4647	19.3359	6.8502	0.5772	4.5760	0.6061	2937.17	107.96	3058.73	66.23	3141.35	86.82	3141.35	86.82
1BTB643, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.592370, LONGITUDE: -70.086750 REJECTED															
1BTB643-048	0.1742	35.6965	0.3820	39.9019	0.0159	18.1585	0.4469	101.79	18.34	328.48	112.44	2598.18	595.04	101.79	18.34
1BTB643-157	0.0822	8.4073	0.3368	11.5563	0.0297	8.1029	0.6863	188.93	15.09	294.77	29.57	1249.20	164.56	188.93	15.09
1BTB643-345	0.0942	9.3823	0.4766	12.6687	0.0367	8.3836	0.6720	232.45	19.14	395.76	41.54	1511.47	177.13	232.45	19.14
1BTB643-270	0.1249	14.5942	0.6676	16.9412	0.0388	6.4146	0.5299	245.22	15.43	519.27	68.97	2026.71	258.49	245.22	15.43
1BTB643-203	0.1013	9.0171	0.7466	13.8866	0.0535	10.5986	0.7605	335.73	34.67	566.22	60.34	1647.60	167.22	335.73	34.67
1BTB643-034	0.1432	37.8984	1.1123	44.6991	0.0564	23.8503	0.5302	353.67	82.08	759.27	243.56	2265.90	653.75	353.67	82.08
1BTB643-025	0.1199	15.3711	1.0783	21.4330	0.0653	15.1854	0.6970	407.65	59.99	742.83	113.38	1955.27	274.53	407.65	59.99
1BTB643-089	0.0640	28.3977	0.6254	34.1952	0.0709	19.1739	0.5571	441.50	81.82	493.20	134.37	742.12	600.54	441.50	81.82
1BTB643-355	0.0578	30.5831	0.7202	38.5321	0.0904	24.1451	0.6086	557.67	129.01	550.80	165.25	523.04	670.79	557.67	129.01
1BTB643-382	0.0582	9.2821	0.7911	10.6361	0.0986	6.6543	0.5033	606.12	38.50	591.82	47.74	538.67	203.04	606.12	38.50
1BTB643-073	0.0576	7.0608	0.7871	8.8905	0.0992	5.4602	0.6077	609.90	31.78	589.52	39.78	513.03	155.13	609.90	31.78
1BTB643-363	0.0572	6.7588	0.7862	7.0899	0.0997	4.0077	0.3633	612.89	23.43	589.01	31.70	498.84	148.86	612.89	23.43
1BTB643-085	0.0907	9.3981	1.2466	12.6374	0.0997	8.7255	0.6689	612.91	51.02	821.86	71.32	1440.10	179.13	612.91	51.02
1BTB643-334	0.0674	13.0576	0.9340	14.5209	0.1006	5.7162	0.4399	617.71	33.67	669.76	71.32	849.20	271.48	617.71	33.67
1BTB643-059	0.0660	9.4333	0.9145	13.4786	0.1006	9.5981	0.7143	618.09	56.57	659.43	65.46	804.84	197.50	618.09	56.57
1BTB643-266	0.0765	12.3939	1.0835	16.2149	0.1027	8.7434	0.6551	630.19	52.49	745.36	85.83	1108.30	247.63	630.19	52.49
1BTB643-332	0.0573	14.5947	0.8208	19.9917	0.1038	13.8307	0.6835	636.93	83.88	608.50	91.76	504.15	321.15	636.93	83.88
1BTB643-001	0.0796	21.7125	1.1525	21.5223	0.1052	4.6204	0.0660	644.57	28.34	778.42	117.53	1187.82	428.77	644.57	28.34
1BTB643-168	0.1277	7.0352	1.8592	10.0768	0.1056	7.1861	0.7159	646.95	44.23	1066.71	66.63	2067.24	124.02	646.95	44.23
1BTB643-356	0.0849	17.3262	1.2381	18.9495	0.1058	8.9308	0.4096	648.11	55.07	818.01	106.83	1313.74	336.04	648.11	55.07
1BTB643-093	0.0590	6.6822	0.8594	8.6002	0.1058	5.7280	0.6305	648.20	35.32	629.79	40.38	565.32	145.51	648.20	35.32
1BTB643-067	0.0598	11.8347	0.8806	16.1468	0.1069	10.8991	0.6803	654.92	67.88	641.32	76.92	594.96	256.42	654.92	67.88
1BTB643-111	0.0596	12.9902	0.9038	17.9149	0.1100	12.2604	0.6887	672.61	78.31	653.76	86.57	590.20	281.68	672.61	78.31
1BTB643-113	0.0602	5.1874	0.9185	6.6373	0.1107	3.9067	0.6249	676.95	25.11	661.56	32.28	610.40	112.10	676.95	25.11

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB643, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.592370, LONGITUDE: -70.086750 REJECTED															
1BTB643-159	0.0983	7.2292	1.5181	8.1100	0.1120	4.0376	0.4552	684.27	26.21	937.73	49.69	1592.90	135.04	684.27	26.21
1BTB643-288	0.1105	17.0187	1.7961	21.0483	0.1179	11.0743	0.5921	718.46	75.29	1044.04	138.13	1807.12	309.36	718.46	75.29
1BTB643-166	0.2043	16.4869	3.4885	18.3591	0.1238	8.0518	0.4399	752.65	57.20	1524.61	145.88	2861.07	268.26	752.65	57.20
1BTB643-095	0.1275	36.6190	2.1864	40.8667	0.1244	18.1366	0.4439	756.04	129.40	1176.71	292.56	2063.71	645.79	756.04	129.40
1BTB643-320	0.0897	5.6390	1.5544	6.7387	0.1257	3.9449	0.5487	763.04	28.39	952.23	41.66	1419.40	107.78	763.04	28.39
1BTB643-148	0.0804	10.2157	1.3955	12.5659	0.1259	7.6153	0.5828	764.66	54.91	887.02	74.46	1206.44	201.19	764.66	54.91
1BTB643-196	0.0711	17.8250	1.2578	26.8420	0.1283	20.0888	0.7477	778.40	147.32	826.92	152.98	959.63	364.31	778.40	147.32
1BTB643-107	0.1216	10.6720	2.1608	14.6964	0.1289	9.9058	0.6877	781.63	72.92	1168.52	102.36	1980.24	190.06	781.63	72.92
1BTB643-351	0.0630	13.1070	1.1474	15.1039	0.1321	7.9208	0.4977	799.72	59.57	776.00	82.12	708.83	278.68	799.72	59.57
1BTB643-379	0.0676	14.4683	1.6764	15.2714	0.1801	6.4183	0.3320	1067.31	63.13	999.61	97.42	855.08	300.54	855.08	300.54
1BTB643-251	0.0678	23.5925	1.4008	24.6172	0.1498	7.5606	0.2863	900.05	63.51	889.28	146.86	862.07	489.53	862.07	489.53
1BTB643-381	0.0688	8.7931	1.7064	8.8124	0.1801	4.2012	0.2430	1067.48	41.33	1010.93	56.48	891.54	181.62	891.54	181.62
1BTB643-002	0.0693	16.8457	1.7366	17.8374	0.1820	7.9980	0.3447	1077.90	79.39	1022.20	115.43	908.39	347.06	908.39	347.06
1BTB643-297	0.0697	20.9225	1.6730	21.9749	0.1741	6.8144	0.3058	1034.58	65.14	998.32	140.54	919.20	430.23	919.20	430.23
1BTB643-284	0.0710	11.6571	1.7702	14.5581	0.1808	6.7301	0.6193	1071.38	66.43	1034.61	94.73	957.26	238.33	957.26	238.33
1BTB643-009	0.0713	44.5858	1.4319	45.2159	0.1458	9.2820	0.1700	877.51	76.15	902.34	277.00	966.73	910.27	966.73	910.27
1BTB643-376	0.0716	12.1558	1.7912	15.1738	0.1814	9.9895	0.6012	1074.78	98.90	1042.27	99.19	975.74	247.84	975.74	247.84
1BTB643-295	0.0735	16.7618	1.4733	21.1436	0.1453	12.9377	0.6095	874.55	105.82	919.47	128.57	1028.53	339.01	1028.53	339.01
1BTB643-181	0.0737	22.3626	1.9002	31.3076	0.1870	21.9792	0.6999	1105.11	223.30	1081.16	211.28	1033.29	451.86	1033.29	451.86
1BTB643-153	0.0740	19.9815	1.7799	28.7302	0.1746	20.7125	0.7185	1037.39	198.53	1038.14	188.93	1040.17	403.33	1040.17	403.33
1BTB643-052	0.0742	20.2779	1.7401	27.8959	0.1702	19.2971	0.6868	1013.46	181.02	1023.48	181.79	1046.33	408.93	1046.33	408.93
1BTB643-377	0.0760	19.7240	2.1272	27.3130	0.2031	19.3461	0.6919	1191.74	210.57	1157.68	190.87	1095.52	394.83	1095.52	394.83
1BTB643-278	0.0766	18.7112	1.9454	26.1670	0.1843	17.3705	0.7000	1090.21	174.27	1096.87	177.27	1109.67	373.77	1109.67	373.77
1BTB643-100	0.0778	22.4307	2.3832	30.1982	0.2223	20.2302	0.6695	1293.83	237.26	1237.56	219.34	1141.82	445.94	1141.82	445.94
1BTB643-286	0.0785	15.9384	2.1073	21.4498	0.1948	13.2402	0.6714	1147.13	139.16	1151.18	148.76	1158.44	316.10	1158.44	316.10
1BTB643-110	0.0801	21.0352	2.3861	29.2773	0.2162	20.3175	0.6955	1261.89	232.95	1238.44	212.53	1198.75	414.73	1198.75	414.73
1BTB643-070	0.0810	7.3467	1.7716	12.1113	0.1587	9.6611	0.7950	949.37	85.29	1035.10	78.76	1222.05	144.36	1222.05	144.36
1BTB643-292	0.0814	10.6674	1.5867	12.9048	0.1413	7.3757	0.5628	851.81	58.85	965.01	80.55	1232.29	209.30	1232.29	209.30
1BTB643-104	0.0820	6.9669	1.7073	10.9769	0.1510	8.2455	0.7731	906.71	69.75	1011.28	70.40	1246.21	136.42	1246.21	136.42
1BTB643-083	0.0897	3.8263	2.3026	6.3130	0.1862	5.0101	0.7954	1100.62	50.69	1213.08	44.72	1420.15	73.13	1420.15	73.13
1BTB643-262	0.0903	9.5989	1.7869	11.7312	0.1435	6.3918	0.5757	864.44	51.71	1040.69	76.52	1431.64	183.17	1431.64	183.17
1BTB643-051	0.0999	10.9449	2.7104	13.0683	0.1969	7.5082	0.5471	1158.38	79.61	1331.31	97.23	1622.75	203.67	1622.75	203.67
1BTB643-140	0.1038	3.8359	3.3053	5.3685	0.2310	4.2337	0.7046	1339.89	51.22	1482.31	41.87	1693.07	70.73	1693.07	70.73
1BTB643-304	0.1127	9.9329	3.6435	14.1619	0.2345	11.0520	0.7157	1358.11	135.36	1559.09	113.30	1842.88	179.73	1842.88	179.73
1BTB643-206	0.1134	6.5022	3.2076	13.5883	0.2051	12.4226	0.8788	1202.42	136.29	1458.99	105.56	1855.25	117.48	1855.25	117.48
1BTB643-118	0.1148	16.4502	5.6979	21.8557	0.3601	14.2813	0.6584	1982.81	243.88	1931.05	191.01	1876.71	296.48	1876.71	296.48
1BTB643-058	0.1158	7.3228	3.3184	12.3969	0.2079	9.9747	0.8069	1217.82	110.70	1485.40	97.02	1892.64	131.73	1892.64	131.73
1BTB643-269	0.1198	9.8100	3.4466	16.4813	0.2086	11.9386	0.8079	1221.54	132.87	1515.09	130.43	1952.99	175.25	1952.99	175.25
1BTB643-144	0.1215	5.4466	4.1365	7.5247	0.2469	5.5474	0.6915	1422.46	70.81	1661.54	61.61	1979.01	97.01	1979.01	97.01
1BTB643-121	0.1533	27.2362	6.6007	35.1700	0.3125	22.1939	0.6327	1752.77	340.92	2059.44	320.35	2382.81	464.03	2382.81	464.03
1BTB643-265	0.2419	34.0928	5.1560	36.4308	0.1546	11.4898	0.3546	926.47	99.16	1845.39	320.01	3132.45	541.98	3132.45	541.98
1BTB643-057	0.4752	139.1020	419.2279	255.0036	6.4025	213.7216	0.8381	12904.56	65535.00	6133.72	65535.00	4166.06	2059.08	4166.06	2059.08
1BTB643-275	0.5306	134.8484	239.7272	215.0129	3.2759	167.3726	0.7789	9366.60	65535.00	5568.02	65535.00	4328.62	1978.05	4328.62	1978.05
1BTB643-333	0.6297	88.2972	217.9182	138.1231	2.5102	106.2366	0.7690	8094.63	6417.69	5471.59	65535.00	4577.98	1279.82	4577.98	1279.82
1BTB643-129	0.6417	90.8186	745.1796	131.7817	8.4256	95.4970	0.7246	14462.07	8183.51	6716.72	65535.00	4605.34	1314.96	4605.34	1314.96
1BTB643-072	0.6607	26.3220	34.6440	31.1715	0.3805	16.7165	0.5357	2078.64	297.23	3628.55	317.60	4647.54	380.51	4647.54	380.51
1BTB643-236	0.6659	125.2751	152.0521	154.4449	1.6556	90.5431	0.5849	6296.09	4121.76	5108.17	65535.00	4658.93	1810.19	4658.93	1810.19
1BTB643-326	0.7545	75.5735	3024.0560	220.1813	29.0678	206.8165	0.9393	21940.08	65535.00	8137.98	65535.00	4838.24	1085.23	4838.24	1085.23
1BTB643-088	0.7859	66.4603	68523.7658	424.6734	632.6697	419.4464	0.9877	41589.22	65535.00	11306.24	65535.00	4896.46	952.61	4896.46	952.61
1BTB643-074	0.8553	70.8186	1894.9249	161.1001	16.0777	144.7102	0.8982	18293.46	65535.00	7663.57	65535.00	5016.70	1011.53	5016.70	1011.53

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB643, EARLY EOCENE?, MUÑANI FORMATION, LATITUDE: -14.592370, LONGITUDE: -70.086750 REJECTED															
1BTB643-315	1.2099	88.8492	560.1184	153.0728	3.3574	124.6820	0.8143	9488.39	12600.88	6427.31	65535.00	5503.68	1256.26	5503.68	1256.26
1BTB643-131	1.4069	75.9294	348.4016	121.6870	1.7966	95.1113	0.7814	6629.60	4580.49	5946.31	65535.00	5712.73	1071.10	5712.73	1071.10
1BTB1040, MIDDLE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.588390, LONGITUDE: -70.081750 ACCEPTED															
1BTB1040-139	0.0823	52.7062	0.0768	54.0456	0.0068	11.9728	0.2213	43.41	5.18	75.11	39.15	1253.64	1030.98	43.41	5.18
1BTB1040-120	0.0469	13.0582	0.0852	13.5219	0.0132	3.7801	0.2604	84.33	3.17	83.06	10.79	44.76	312.10	84.33	3.17
1BTB1040-027	0.0538	59.7196	0.1480	61.4501	0.0199	14.5983	0.2357	127.19	18.39	140.12	80.59	362.92	1346.76	127.19	18.39
1BTB1040-136	0.0497	22.3550	0.1513	23.7462	0.0221	8.0308	0.3373	140.75	11.18	143.02	31.69	178.95	521.13	140.75	11.18
1BTB1040-149	0.0452	20.4958	0.1385	21.0915	0.0222	4.9686	0.2360	141.60	6.96	131.69	26.05	0.00	494.04	141.60	6.96
1BTB1040-134	0.0585	14.9433	0.2283	15.7593	0.0283	5.0409	0.3176	179.74	8.94	208.79	29.75	548.88	326.31	179.74	8.94
1BTB1040-042	0.0569	10.7380	0.2961	14.3798	0.0377	9.4711	0.6651	238.49	22.18	263.36	33.37	488.73	236.92	238.49	22.18
1BTB1040-129	0.0533	9.9531	0.2846	11.2509	0.0387	5.2289	0.4663	244.63	12.55	254.29	25.31	342.44	225.28	244.63	12.55
1BTB1040-066	0.0484	13.0724	0.2630	14.3495	0.0394	5.5623	0.4132	249.08	13.59	237.10	30.35	117.39	308.23	249.08	13.59
1BTB1040-015	0.0522	13.8734	0.2855	14.5349	0.0396	4.4576	0.2984	250.63	10.96	255.01	32.79	293.10	316.74	250.63	10.96
1BTB1040-099	0.0486	14.6891	0.2747	20.3897	0.0409	14.2198	0.6936	258.71	36.06	246.48	44.65	128.99	345.60	258.71	36.06
1BTB1040-095	0.0506	11.4453	0.2910	12.8011	0.0416	5.9251	0.4481	262.97	15.27	259.37	29.31	224.38	264.60	262.97	15.27
1BTB1040-086	0.0545	8.6747	0.3181	9.5784	0.0423	4.2317	0.4244	266.79	11.06	280.44	23.48	393.26	194.58	266.79	11.06
1BTB1040-025	0.0496	16.0153	0.2908	16.6427	0.0425	4.8905	0.2728	268.02	12.84	259.15	38.08	177.45	373.45	268.02	12.84
1BTB1040-016	0.0519	10.1279	0.3207	11.6269	0.0448	5.8041	0.4912	282.28	16.03	282.47	28.68	281.75	231.70	282.28	16.03
1BTB1040-096	0.0525	12.6315	0.3274	17.6990	0.0452	12.4872	0.7005	284.80	34.79	287.61	44.36	308.04	287.61	284.80	34.79
1BTB1040-142	0.0503	5.9734	0.3165	6.5570	0.0456	2.7695	0.4125	287.29	7.78	279.23	16.01	210.27	138.45	287.29	7.78
1BTB1040-034	0.0535	10.7395	0.3488	14.6046	0.0472	9.8875	0.6777	297.48	28.75	303.79	38.36	350.47	242.73	297.48	28.75
1BTB1040-010	0.0521	5.2141	0.3785	5.9765	0.0526	2.7166	0.4900	330.38	8.75	325.91	16.66	291.56	119.07	330.38	8.75
1BTB1040-085	0.0521	7.4190	0.4089	9.2652	0.0569	5.6758	0.5992	356.52	19.69	348.11	27.31	289.74	169.49	356.52	19.69
1BTB1040-053	0.0606	7.7242	0.4804	11.5967	0.0574	8.4879	0.7460	359.97	29.72	398.35	38.23	625.38	166.51	359.97	29.72
1BTB1040-137	0.0561	5.5262	0.5702	6.3168	0.0737	3.1179	0.4845	458.19	13.79	458.11	23.29	455.91	122.59	458.19	13.79
1BTB1040-114	0.0570	9.4537	0.5854	12.4099	0.0744	8.1245	0.6479	462.67	36.27	467.95	46.56	491.86	208.47	462.67	36.27
1BTB1040-140	0.0556	11.3660	0.5720	16.0465	0.0746	11.3430	0.7059	463.76	50.76	459.29	59.35	435.16	253.06	463.76	50.76
1BTB1040-009	0.0557	10.3101	0.5747	14.1626	0.0747	9.4877	0.6858	464.41	42.51	461.03	52.53	441.72	229.29	464.41	42.51
1BTB1040-029	0.0561	9.5385	0.5812	12.6944	0.0751	8.5786	0.6600	466.56	38.61	465.25	47.41	456.73	211.58	466.56	38.61
1BTB1040-090	0.0561	8.0858	0.5885	10.0001	0.0760	6.0259	0.5886	472.03	27.43	469.89	37.63	456.90	179.35	472.03	27.43
1BTB1040-017	0.0779	10.0338	0.8167	12.3593	0.0760	7.2905	0.5839	472.04	33.18	606.20	56.47	1143.96	199.42	472.04	33.18
1BTB1040-030	0.0565	5.8155	0.5923	6.3240	0.0760	2.8877	0.3973	472.25	13.15	472.33	23.89	470.68	128.68	472.25	13.15
1BTB1040-122	0.0542	13.0100	0.5692	16.7765	0.0761	10.6843	0.6314	472.81	48.71	457.48	61.86	379.20	292.55	472.81	48.71
1BTB1040-069	0.0565	9.3423	0.5966	12.2621	0.0765	7.6811	0.6481	474.99	35.17	475.09	46.56	473.08	206.64	474.99	35.17
1BTB1040-111	0.0533	8.1911	0.5641	10.5425	0.0767	6.7396	0.6296	476.52	30.96	454.16	38.62	340.28	185.47	476.52	30.96
1BTB1040-107	0.0562	8.9076	0.5983	11.5069	0.0772	7.3087	0.6331	479.36	33.76	476.15	43.76	458.45	197.52	479.36	33.76
1BTB1040-112	0.0564	9.5254	0.6215	12.9377	0.0799	8.8331	0.6767	495.59	42.14	490.79	50.39	466.26	210.93	495.59	42.14
1BTB1040-011	0.0592	14.4426	0.6566	20.2012	0.0803	14.0240	0.6992	498.06	67.22	512.53	81.47	575.27	313.97	498.06	67.22
1BTB1040-048	0.0564	11.0342	0.6312	15.2827	0.0810	10.3237	0.6921	502.18	49.88	496.83	60.12	470.09	244.18	502.18	49.88
1BTB1040-080	0.0554	9.2569	0.6285	11.5203	0.0822	6.6870	0.5955	509.14	32.74	495.19	45.18	428.61	206.34	509.14	32.74
1BTB1040-138	0.0555	11.9106	0.6302	14.8899	0.0823	8.9556	0.6001	509.88	43.90	496.24	58.51	431.94	265.34	509.88	43.90
1BTB1040-077	0.0692	5.8194	0.8018	8.6878	0.0839	6.0103	0.7444	519.62	30.01	597.84	39.27	904.51	119.96	519.62	30.01
1BTB1040-055	0.0661	11.7182	0.7689	15.7377	0.0843	10.3405	0.6676	521.52	51.81	579.15	69.57	810.02	245.14	521.52	51.81
1BTB1040-097	0.0587	8.7390	0.6830	9.7633	0.0843	4.6027	0.4466	522.01	23.08	528.56	40.25	554.53	190.65	522.01	23.08
1BTB1040-035	0.0569	12.0263	0.6643	15.3780	0.0846	9.5738	0.6232	523.47	48.14	517.26	62.40	487.82	265.38	523.47	48.14
1BTB1040-004	0.0605	17.7694	0.7067	18.4056	0.0847	4.3302	0.2620	523.94	21.79	542.76	77.53	620.01	383.39	523.94	21.79
1BTB1040-020	0.0579	12.0549	0.6792	16.6848	0.0849	11.6391	0.6914	525.53	58.74	526.31	68.63	527.49	264.20	525.53	58.74
1BTB1040-043	0.0581	12.9965	0.6834	17.6715	0.0852	11.8996	0.6776	527.37	60.26	528.80	72.97	532.91	284.58	527.37	60.26
1BTB1040-063	0.0562	10.3160	0.6622	14.2321	0.0853	9.6560	0.6890	527.89	48.94	515.95	57.63	460.95	228.65	527.89	48.94

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB1040, MIDDLE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.588390, LONGITUDE: -70.081750 ACCEPTED															
1BTB1040-041	0.0592	6.4458	0.6989	7.7347	0.0855	4.0627	0.5534	528.76	20.62	538.14	32.32	576.02	140.11	528.76	20.62
1BTB1040-144	0.0582	9.0825	0.6871	12.6321	0.0856	8.7998	0.6950	529.46	44.73	531.04	52.28	535.99	198.77	529.46	44.73
1BTB1040-019	0.0574	9.4157	0.6799	12.2539	0.0857	7.9109	0.6400	530.33	40.28	526.71	50.40	508.81	207.02	530.33	40.28
1BTB1040-084	0.0542	7.5323	0.6437	8.8858	0.0861	4.4622	0.5313	532.46	22.80	504.58	35.35	377.48	169.42	532.46	22.80
1BTB1040-143	0.0586	7.6937	0.7020	9.5263	0.0868	5.6493	0.5897	536.54	29.08	540.01	39.92	552.83	167.89	536.54	29.08
1BTB1040-079	0.0589	11.1030	0.7283	15.8238	0.0895	11.0285	0.7127	552.69	58.42	555.55	67.81	564.76	241.80	552.69	58.42
1BTB1040-145	0.0590	13.9396	0.7412	14.9553	0.0911	5.4098	0.3622	562.04	29.12	563.11	64.73	565.56	303.53	562.04	29.12
1BTB1040-059	0.0627	9.9255	0.7917	12.0191	0.0915	6.5200	0.5644	564.18	35.22	592.16	53.98	698.61	211.39	564.18	35.22
1BTB1040-141	0.0603	7.4287	0.7629	10.6139	0.0917	7.6044	0.7142	565.42	41.17	575.66	46.67	614.50	160.43	565.42	41.17
1BTB1040-088	0.0592	7.4936	0.7510	9.0338	0.0920	5.1834	0.5587	567.07	28.14	568.79	39.36	573.20	162.96	567.07	28.14
1BTB1040-045	0.0574	5.6403	0.7296	7.4397	0.0922	4.2789	0.6573	568.34	23.28	556.32	31.88	505.30	124.09	568.34	23.28
1BTB1040-094	0.0563	7.3569	0.7217	9.2443	0.0928	5.7936	0.6059	572.01	31.71	551.67	39.37	466.11	162.92	572.01	31.71
1BTB1040-127	0.0596	7.0204	0.7646	11.2248	0.0929	8.7560	0.7803	572.93	48.00	576.64	49.42	589.43	152.25	572.93	48.00
1BTB1040-071	0.0588	11.6694	0.7568	16.4833	0.0933	11.5313	0.7063	574.93	63.43	572.15	72.22	558.64	254.40	574.93	63.43
1BTB1040-044	0.0580	5.1232	0.7543	5.9709	0.0943	2.0438	0.5565	580.69	11.35	570.69	26.07	528.96	112.26	580.69	11.35
1BTB1040-081	0.0578	11.9338	0.7559	16.2717	0.0948	10.9564	0.6798	583.92	61.17	571.64	71.24	520.54	261.86	583.92	61.17
1BTB1040-135	0.0570	10.3601	0.7463	14.1039	0.0949	9.5889	0.6786	584.61	53.59	566.05	61.27	490.33	228.52	584.61	53.59
1BTB1040-061	0.0577	6.0565	0.7595	7.5348	0.0954	4.1469	0.5967	587.12	23.27	573.74	33.04	518.73	132.94	587.12	23.27
1BTB1040-102	0.0597	9.1598	0.7902	10.2373	0.0959	4.5588	0.4466	590.40	25.72	591.27	45.91	592.29	198.55	590.40	25.72
1BTB1040-006	0.0596	16.7404	0.7933	18.3731	0.0964	7.2846	0.4124	593.03	41.27	593.06	82.71	590.61	362.98	593.03	41.27
1BTB1040-008	0.0604	9.6663	0.8086	13.3897	0.0970	9.0324	0.6922	596.54	51.47	601.66	60.86	618.52	208.61	596.54	51.47
1BTB1040-152	0.0612	5.9668	0.8236	6.9929	0.0974	3.6351	0.5215	599.39	20.81	610.08	32.08	648.00	128.14	599.39	20.81
1BTB1040-058	0.0599	8.6164	0.8142	11.7266	0.0985	7.7356	0.6786	605.61	44.72	604.80	53.49	599.51	186.55	605.61	44.72
1BTB1040-123	0.0633	9.2859	0.8614	12.3622	0.0986	8.2800	0.6602	606.48	47.93	630.90	58.15	717.54	197.16	606.48	47.93
1BTB1040-087	0.0597	9.8260	0.8410	12.3246	0.1020	7.5338	0.6037	626.09	44.95	619.69	57.23	593.90	212.94	626.09	44.95
1BTB1040-018	0.0613	5.2722	0.8822	6.0539	0.1043	3.1513	0.4923	639.64	19.19	642.16	28.82	648.88	113.21	639.64	19.19
1BTB1040-039	0.0678	9.9281	1.2225	13.3289	0.1306	8.8825	0.6672	791.50	66.16	810.92	74.58	862.67	205.98	791.50	66.16
1BTB1040-082	0.0680	8.4574	1.3777	11.0257	0.1468	6.9083	0.6417	883.01	57.01	879.46	64.96	868.12	175.32	868.12	175.32
1BTB1040-076	0.0685	5.6076	1.5321	6.6375	0.1620	2.6685	0.5570	967.62	23.98	943.36	40.80	884.78	115.95	884.78	115.95
1BTB1040-119	0.0688	8.0733	1.4009	15.4642	0.1476	13.2971	0.8529	887.33	110.24	889.33	91.87	892.40	166.73	892.40	166.73
1BTB1040-125	0.0693	6.5582	1.5462	9.4542	0.1618	6.7330	0.7203	966.56	60.44	948.96	58.36	906.56	135.15	906.56	135.15
1BTB1040-050	0.0706	7.6179	1.3139	9.8621	0.1349	6.0377	0.6355	815.76	46.27	851.84	56.92	944.98	156.04	944.98	156.04
1BTB1040-028	0.0708	6.1517	1.4068	8.2085	0.1441	5.7412	0.6631	867.66	46.61	891.82	48.76	950.26	125.91	950.26	125.91
1BTB1040-109	0.0715	9.4759	1.6944	12.9107	0.1718	8.7890	0.6792	1021.79	83.05	1006.41	82.62	971.02	193.34	971.02	193.34
1BTB1040-148	0.0715	9.6023	1.6421	13.8895	0.1664	10.0316	0.7225	992.31	92.27	986.52	87.87	971.90	195.89	971.90	195.89
1BTB1040-046	0.0718	5.8751	1.6968	7.1322	0.1712	3.3353	0.5775	1018.82	31.43	1007.32	45.60	980.42	119.67	980.42	119.67
1BTB1040-153	0.0725	11.1278	1.4905	14.9042	0.1489	9.9107	0.6652	894.81	82.81	926.54	90.81	1000.95	225.98	1000.95	225.98
1BTB1040-012	0.0731	7.9657	1.7322	11.1015	0.1717	7.3461	0.6974	1021.44	69.40	1020.56	71.58	1016.51	161.39	1016.51	161.39
1BTB1040-130	0.0740	7.9627	1.8554	10.3925	0.1816	6.6649	0.6426	1075.65	66.03	1065.36	68.67	1042.64	160.67	1042.64	160.67
1BTB1040-013	0.0745	6.9979	1.8148	8.8248	0.1764	4.8041	0.6131	1047.51	46.45	1050.82	57.83	1055.57	140.93	1055.57	140.93
1BTB1040-037	0.0750	9.1256	1.8808	12.1947	0.1816	8.0772	0.6633	1075.98	80.05	1074.33	81.01	1069.12	183.40	1069.12	183.40
1BTB1040-124	0.0756	10.7721	2.0808	15.3686	0.1995	10.8909	0.7133	1172.75	116.79	1142.49	105.78	1083.74	216.01	1083.74	216.01
1BTB1040-146	0.0767	5.5815	1.9174	7.4521	0.1811	4.9292	0.6626	1072.92	48.72	1087.18	49.77	1114.16	111.42	1114.16	111.42
1BTB1040-026	0.0767	10.4359	2.0128	15.5427	0.1900	11.6659	0.7411	1121.55	120.10	1119.83	105.82	1114.60	208.31	1114.60	208.31
1BTB1040-049	0.0791	12.6916	1.7450	17.6816	0.1598	12.0969	0.6964	955.60	107.45	1025.33	114.62	1175.32	251.08	1175.32	251.08
1BTB1040-060	0.0821	7.6371	1.8974	12.3576	0.1675	9.5650	0.7863	998.45	88.48	1080.18	82.35	1246.90	149.53	1246.90	149.53
1BTB1040-024	0.0825	8.0891	2.4361	11.0040	0.2138	7.6197	0.6781	1249.23	86.54	1253.31	79.38	1258.46	158.12	1258.46	158.12
1BTB1040-033	0.0842	5.3262	2.5739	6.7427	0.2216	4.3888	0.6143	1290.35	51.32	1293.24	49.35	1296.23	103.56	1296.23	103.56
1BTB1040-147	0.0845	4.1771	2.6856	6.1984	0.2303	4.5704	0.7388	1336.23	55.16	1324.50	45.89	1303.93	81.13	1303.93	81.13
1BTB1040-065	0.0850	8.5549	2.7501	11.4035	0.2344	7.2645	0.6617	1357.70	88.94	1342.11	85.11	1315.20	165.89	1315.20	165.89

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB1040, MIDDLE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.588390, LONGITUDE: -70.081750 ACCEPTED															
1BTB1040-036	0.0862	5.6337	2.5943	7.0587	0.2181	4.2301	0.6025	1271.72	48.82	1299.04	51.78	1342.66	108.83	1342.66	108.83
1BTB1040-022	0.0897	8.0854	2.7776	11.5908	0.2243	8.4487	0.7166	1304.65	99.80	1349.52	86.75	1419.51	154.54	1419.51	154.54
1BTB1040-056	0.0909	6.6508	3.1872	9.2212	0.2541	6.1127	0.6933	1459.74	79.85	1454.06	71.39	1443.80	126.70	1443.80	126.70
1BTB1040-101	0.0923	5.2369	3.1849	6.5419	0.2501	3.9057	0.5993	1439.13	50.38	1453.51	50.59	1472.58	99.38	1472.58	99.38
1BTB1040-108	0.0928	7.4847	3.2205	9.8663	0.2515	6.4559	0.6516	1446.27	83.64	1462.11	76.59	1483.26	141.84	1483.26	141.84
1BTB1040-001	0.0947	6.0267	3.5465	9.0085	0.2713	6.3692	0.7442	1547.32	87.62	1537.65	71.47	1522.01	113.62	1522.01	113.62
1BTB1040-105	0.0978	7.1297	3.7351	10.4772	0.2767	7.7002	0.7328	1574.50	107.58	1578.93	84.11	1582.91	133.36	1582.91	133.36
1BTB1040-083	0.1058	5.0336	4.6452	6.0090	0.3180	2.9084	0.5502	1779.91	45.24	1757.43	50.25	1728.69	92.40	1728.69	92.40
1BTB1040-068	0.1110	5.3572	5.0802	7.0619	0.3315	4.1341	0.6553	1845.89	66.36	1832.81	59.98	1815.96	97.28	1815.96	97.28
1BTB1040-072	0.1112	5.2643	4.2450	7.1245	0.2766	4.5269	0.6750	1574.21	63.23	1682.77	58.61	1818.82	95.57	1818.82	95.57
1BTB1040-121	0.1137	8.0487	4.4909	10.5318	0.2862	6.9354	0.6451	1622.49	99.49	1729.29	87.68	1859.47	145.35	1859.47	145.35
1BTB1040-014	0.1141	6.6480	5.1457	8.0978	0.3267	4.7389	0.5712	1822.21	75.22	1843.68	68.95	1866.10	119.96	1866.10	119.96
1BTB1040-133	0.1151	3.3838	4.3474	5.3031	0.2738	4.0614	0.7700	1560.11	56.28	1702.40	43.80	1880.80	60.96	1880.80	60.96
1BTB1040-154	0.1160	8.7838	4.4099	11.1454	0.2754	6.8541	0.6155	1568.19	95.42	1714.20	92.51	1895.83	157.96	1895.83	157.96
1BTB1040-047	0.1179	10.5132	5.2854	13.9617	0.3249	8.8980	0.6584	1813.72	140.69	1866.50	119.76	1924.05	188.44	1924.05	188.44
1BTB1040-054	0.1202	5.0277	5.0162	8.3076	0.3022	6.4002	0.7965	1702.45	95.77	1822.06	70.45	1959.83	89.75	1959.83	89.75
1BTB1040-078	0.1243	5.9940	5.7676	7.8468	0.3361	4.4894	0.6500	1868.08	72.81	1941.56	68.00	2018.85	106.26	2018.85	106.26
1BTB1040-106	0.1292	7.5961	6.8593	9.8441	0.3846	6.2897	0.6361	2097.95	112.65	2093.41	87.45	2087.15	133.60	2087.15	133.60
1BTB1040-151	0.1301	5.1417	5.9759	6.9305	0.3328	4.6381	0.6705	1851.85	74.66	1972.35	60.35	2099.61	90.30	2099.61	90.30
1BTB1040, MIDDLE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.588390, LONGITUDE: -70.081750 REJECTED															
1BTB1040-005	0.0804	9.6729	0.3988	16.2829	0.0359	12.9346	0.8045	227.61	28.93	340.81	47.17	1206.67	190.49	227.61	28.93
1BTB1040-117	0.0752	11.6400	0.4204	12.1518	0.0405	3.8766	0.2888	256.13	9.73	356.36	36.54	1072.78	233.80	256.13	9.73
1BTB1040-103	0.1125	12.0326	0.9785	15.0373	0.0630	9.0121	0.5998	393.85	34.43	692.85	75.65	1840.70	217.89	393.85	34.43
1BTB1040-002	0.0583	18.9858	0.5900	27.2012	0.0734	19.3695	0.7161	456.43	85.36	470.89	102.84	539.26	415.27	456.43	85.36
1BTB1040-064	0.0588	19.8151	0.6338	27.5046	0.0781	18.9680	0.6935	484.84	88.60	498.49	108.76	559.26	431.93	484.84	88.60
1BTB1040-128	0.0586	15.2137	0.7336	22.7956	0.0907	16.9707	0.7447	559.76	90.99	558.64	98.25	552.25	332.03	559.76	90.99
1BTB1040-031	0.0570	17.3219	0.7683	23.5276	0.0976	15.9896	0.6767	600.45	91.68	578.77	104.16	492.50	381.93	600.45	91.68
1BTB1040-067	0.0595	15.3392	0.8263	23.0855	0.1006	17.1339	0.7474	617.89	100.96	611.58	106.45	585.86	332.86	617.89	100.96
1BTB1040-113	0.0805	7.2442	1.1250	9.3631	0.1012	6.0467	0.6337	621.66	35.83	765.38	50.37	1209.73	142.60	621.66	35.83
1BTB1040-126	0.0568	7.8701	0.7958	10.6756	0.1015	7.1714	0.6757	622.92	42.58	594.43	48.07	485.28	173.75	622.92	42.58
1BTB1040-091	0.0571	5.3827	0.8010	6.2047	0.1016	3.3490	0.4991	623.57	19.90	597.41	28.03	496.78	118.60	623.57	19.90
1BTB1040-038	0.0590	10.3063	0.8336	14.0387	0.1023	9.5222	0.6790	628.02	56.98	615.62	64.89	568.23	224.32	628.02	56.98
1BTB1040-040	0.0656	6.4654	0.9374	8.1382	0.1035	4.7599	0.6077	634.83	28.78	671.51	40.00	794.64	135.58	634.83	28.78
1BTB1040-074	0.0834	6.4568	1.1995	8.4135	0.1042	4.8587	0.6446	638.96	29.56	800.33	46.62	1278.43	125.85	638.96	29.56
1BTB1040-070	0.0731	12.8357	1.0675	20.1095	0.1057	15.3975	0.7698	647.91	94.92	737.49	105.81	1017.85	260.01	647.91	94.92
1BTB1040-150	0.0589	21.1824	0.8643	22.1917	0.1063	6.6101	0.2981	651.20	40.94	632.45	104.83	564.10	461.36	651.20	40.94
1BTB1040-021	0.0754	7.7821	1.1900	9.7888	0.1144	6.1373	0.6069	698.19	40.61	795.96	54.06	1078.55	156.18	698.19	40.61
1BTB1040-104	0.0598	7.5539	0.9772	9.3861	0.1184	5.6028	0.5936	721.52	38.25	692.15	47.14	595.56	163.65	721.52	38.25
1BTB1040-051	0.0713	17.8027	1.1710	22.8196	0.1190	14.1783	0.6256	724.77	97.20	787.11	125.62	966.05	363.50	724.77	97.20
1BTB1040-115	0.0702	16.6084	1.1875	19.5188	0.1225	10.3921	0.5254	745.21	73.14	794.80	107.99	934.57	340.72	745.21	73.14
1BTB1040-089	0.0625	20.9413	1.1319	29.1759	0.1313	20.3497	0.6963	795.26	152.28	768.65	158.56	689.62	446.65	795.26	152.28
1BTB1040-132	0.0690	7.4033	1.6183	10.9400	0.1699	8.0435	0.7362	1011.38	75.29	977.33	68.76	899.86	152.72	899.86	152.72
1BTB1040-057	0.0702	5.9599	1.7157	7.7366	0.1770	4.5719	0.6395	1050.73	44.33	1014.43	49.67	934.72	122.27	934.72	122.27
1BTB1040-098	0.0704	23.8317	1.6660	33.0640	0.1713	22.9677	0.6932	1019.51	216.66	995.66	212.86	941.23	488.42	941.23	488.42
1BTB1040-110	0.0709	18.4704	1.6190	26.4214	0.1655	18.9291	0.7151	987.06	173.28	977.61	167.34	954.40	377.79	954.40	377.79
1BTB1040-131	0.0727	17.2107	1.8298	24.3419	0.1823	17.2088	0.7072	1079.35	171.07	1056.20	161.16	1006.96	349.20	1006.96	349.20
1BTB1040-100	0.0746	18.2534	1.7898	25.5382	0.1738	17.8577	0.6994	1032.86	170.47	1041.74	167.87	1058.23	367.44	1058.23	367.44
1BTB1040-032	0.0750	17.8460	1.9842	24.4540	0.1918	16.7835	0.6837	1131.24	174.18	1110.15	166.57	1067.18	358.76	1067.18	358.76
1BTB1040-118	0.0793	13.0006	1.5664	18.2977	0.1432	12.9863	0.7037	862.48	104.84	957.00	113.87	1179.25	257.05	1179.25	257.05

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB1040, MIDDLE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.588390, LONGITUDE: -70.081750 REJECTED															
1BTB1040-007	0.0807	15.2353	2.2896	22.0963	0.2055	15.8704	0.7243	1204.88	174.45	1209.08	157.41	1214.32	299.70	1214.32	299.70
1BTB1040-073	0.0907	8.4806	2.4173	14.3714	0.1930	11.4920	0.8074	1137.55	119.86	1247.76	103.58	1441.17	161.62	1441.17	161.62
1BTB1040-052	0.0943	5.4895	1.7827	9.0162	0.1370	6.9557	0.7936	827.76	54.03	1039.15	58.71	1513.45	103.61	1513.45	103.61
1BTB1040-116	0.0951	9.0353	2.4310	10.9820	0.1852	6.4667	0.5688	1095.29	65.14	1251.83	79.17	1530.38	170.16	1530.38	170.16
1BTB1040-003	0.1018	15.3590	3.1338	17.5023	0.2229	8.1342	0.4797	1297.26	95.59	1441.04	135.52	1657.88	284.46	1657.88	284.46
1BTB1040-092	0.1120	8.2352	3.4234	10.8824	0.2214	7.2318	0.6538	1289.52	84.53	1509.78	85.72	1832.01	149.27	1832.01	149.27
1BTB1040-023	0.1124	15.6835	3.8832	18.7264	0.2503	10.3495	0.5465	1440.17	133.59	1610.19	152.34	1838.54	284.07	1838.54	284.07
1BTB1040-093	0.1190	18.1804	6.3431	26.2516	0.3860	18.9818	0.7214	2104.29	341.11	2024.44	234.33	1941.97	325.20	1941.97	325.20
1BTB1040-062	0.1682	6.9335	4.2532	12.8156	0.1832	10.6429	0.8411	1084.31	106.23	1684.35	105.74	2539.96	116.24	2539.96	116.24
1BTB1040-075	0.1740	12.9448	6.7769	19.2738	0.2821	14.0862	0.7410	1601.96	199.87	2082.71	172.17	2596.77	215.81	2596.77	215.81
1BTB1110, LATE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.587990, LONGITUDE: -70.081490 ACCEPTED															
1BTB1110-106	0.0572	14.0858	0.2433	15.7575	0.0308	7.1579	0.4483	195.64	13.79	221.11	31.32	500.17	310.17	195.64	13.79
1BTB1110-227	0.0597	7.7087	0.3103	8.7580	0.0377	4.3902	0.4753	238.30	10.27	274.45	21.06	593.41	167.07	238.30	10.27
1BTB1110-151	0.0654	15.3786	0.3529	20.2777	0.0391	13.2801	0.6518	247.32	32.22	306.89	53.76	786.81	322.90	247.32	32.22
1BTB1110-178	0.0638	5.0038	0.3466	6.7784	0.0394	4.5670	0.6746	249.04	11.16	302.19	17.72	734.17	105.95	249.04	11.16
1BTB1110-122	0.0551	10.9590	0.3002	12.5094	0.0395	6.0985	0.4822	249.62	14.93	266.53	29.33	416.23	244.82	249.62	14.93
1BTB1110-193	0.0546	5.6314	0.3005	7.3224	0.0399	4.8943	0.6398	252.06	12.10	266.78	17.18	396.20	126.25	252.06	12.10
1BTB1110-207	0.0468	19.6580	0.2580	20.1715	0.0399	4.9086	0.2249	252.34	12.15	233.09	42.04	41.21	470.16	252.34	12.15
1BTB1110-363	0.0544	4.1278	0.3062	4.6920	0.0407	2.3476	0.4760	257.48	5.93	271.23	11.17	389.38	92.65	257.48	5.93
1BTB1110-150	0.0581	8.9534	0.3287	10.0414	0.0410	4.7269	0.4531	258.99	12.00	288.55	25.23	533.63	196.02	258.99	12.00
1BTB1110-273	0.0527	10.6830	0.3038	14.5762	0.0418	10.0065	0.6804	263.93	25.88	269.40	34.50	315.13	242.93	263.93	25.88
1BTB1110-049	0.0541	6.3523	0.3227	7.0185	0.0432	3.1763	0.4261	272.63	8.48	283.97	17.39	376.81	142.90	272.63	8.48
1BTB1110-107	0.0619	10.0800	0.3731	10.9417	0.0437	4.4114	0.3892	275.51	11.90	321.96	30.20	671.69	215.63	275.51	11.90
1BTB1110-399	0.0554	15.5435	0.3597	21.2553	0.0471	14.4815	0.6821	296.54	41.97	311.98	57.15	426.78	346.59	296.54	41.97
1BTB1110-337	0.0607	5.8190	0.4035	7.0330	0.0482	4.1250	0.5622	303.49	12.23	344.21	20.53	627.00	125.40	303.49	12.23
1BTB1110-015	0.0509	12.0516	0.3480	15.0302	0.0495	9.1478	0.5977	311.42	27.81	303.23	39.42	238.42	277.90	311.42	27.81
1BTB1110-181	0.0545	10.8929	0.3862	15.0783	0.0514	10.5064	0.6915	323.00	33.10	331.59	42.68	390.49	244.45	323.00	33.10
1BTB1110-217	0.0582	4.7473	0.4392	5.1423	0.0546	2.4789	0.3943	342.97	8.28	369.72	15.94	539.15	103.84	342.97	8.28
1BTB1110-345	0.0750	15.0081	0.5893	21.2063	0.0569	14.9998	0.7065	356.85	52.07	470.43	80.01	1069.01	301.62	356.85	52.07
1BTB1110-257	0.0737	9.3351	0.5925	10.1494	0.0582	3.8112	0.3929	364.78	13.52	472.45	38.36	1034.51	188.59	364.78	13.52
1BTB1110-259	0.0625	10.8212	0.5061	11.4201	0.0586	3.4611	0.3200	367.35	12.36	415.84	38.99	692.71	230.69	367.35	12.36
1BTB1110-182	0.0527	13.0630	0.4265	13.6383	0.0587	4.1287	0.2878	367.57	14.75	360.70	41.43	314.81	297.07	367.57	14.75
1BTB1110-387	0.0549	4.9813	0.4758	6.5858	0.0628	4.3772	0.6542	392.86	16.68	395.18	21.56	406.54	111.47	392.86	16.68
1BTB1110-190	0.0573	16.7255	0.5126	17.3154	0.0649	4.7040	0.2591	405.23	18.48	420.20	59.65	501.39	368.22	405.23	18.48
1BTB1110-152	0.0781	9.7142	0.7750	17.5626	0.0719	14.6887	0.8331	447.50	63.50	582.63	78.02	1150.20	192.89	447.50	63.50
1BTB1110-246	0.0591	4.1577	0.5927	6.0469	0.0727	4.2735	0.7264	452.44	18.67	472.59	22.85	569.76	90.47	452.44	18.67
1BTB1110-274	0.0566	7.7308	0.5721	9.4858	0.0732	5.7908	0.5803	455.39	25.46	459.37	35.06	477.36	170.87	455.39	25.46
1BTB1110-187	0.0732	4.0617	0.7411	5.3983	0.0734	3.9993	0.6632	456.67	17.63	563.03	23.33	1018.20	82.27	456.67	17.63
1BTB1110-066	0.0557	11.1419	0.5722	12.1592	0.0744	4.8394	0.4004	462.75	21.61	459.44	44.96	441.48	247.80	462.75	21.61
1BTB1110-088	0.0590	10.0083	0.6102	13.4541	0.0749	9.0153	0.6683	465.80	40.51	483.71	51.82	568.01	217.84	465.80	40.51
1BTB1110-200	0.0593	5.7132	0.6132	6.9542	0.0749	4.5113	0.5749	465.81	20.27	485.55	26.85	577.99	124.14	465.81	20.27
1BTB1110-039	0.0614	10.5960	0.6379	14.5019	0.0752	10.1159	0.6829	467.67	45.63	501.02	57.41	654.81	227.30	467.67	45.63
1BTB1110-052	0.0591	5.8745	0.6185	8.0959	0.0759	5.6322	0.6881	471.40	25.60	488.93	31.43	570.48	127.81	471.40	25.60
1BTB1110-255	0.0620	12.1439	0.6585	16.8956	0.0769	11.6895	0.6953	477.77	53.83	513.70	68.22	675.09	259.63	477.77	53.83
1BTB1110-294	0.0586	7.2800	0.6254	9.9409	0.0773	6.8932	0.6811	479.77	31.87	493.20	38.85	554.08	158.83	479.77	31.87
1BTB1110-365	0.0638	11.1759	0.6844	11.7133	0.0777	3.6866	0.2998	482.32	17.13	529.44	48.36	735.98	236.58	482.32	17.13
1BTB1110-138	0.0640	10.0504	0.6952	10.9699	0.0788	4.2443	0.4010	488.82	19.98	535.93	45.71	740.19	212.60	488.82	19.98
1BTB1110-176	0.0735	5.2870	0.8074	5.9535	0.0797	2.7277	0.4597	494.08	12.97	600.99	27.01	1026.43	106.96	494.08	12.97
1BTB1110-146	0.0800	10.2993	0.8811	15.0951	0.0798	11.0625	0.7311	495.12	52.72	641.58	71.91	1196.63	203.13	495.12	52.72

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB1110, LATE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.587990, LONGITUDE: -70.081490 ACCEPTED															
1BTB1110-340	0.0667	10.4256	0.7351	14.5212	0.0799	10.1743	0.6961	495.36	48.51	559.53	62.55	827.87	217.49	495.36	48.51
1BTB1110-058	0.0567	6.0516	0.6335	6.8182	0.0810	3.2651	0.4610	502.30	15.78	498.30	26.86	478.48	133.76	502.30	15.78
1BTB1110-155	0.0592	6.0574	0.6644	7.3453	0.0813	4.4511	0.5670	504.00	21.58	517.29	29.78	574.73	131.69	504.00	21.58
1BTB1110-166	0.0572	12.6408	0.6453	17.1276	0.0817	11.5548	0.6748	506.46	56.28	505.56	68.31	499.70	278.37	506.46	56.28
1BTB1110-232	0.0586	9.2782	0.6617	10.9642	0.0819	5.9136	0.5329	507.16	28.84	515.67	44.36	551.69	202.51	507.16	28.84
1BTB1110-221	0.0579	7.2156	0.6582	9.6446	0.0824	6.5567	0.6637	510.69	32.19	513.50	38.89	524.13	158.23	510.69	32.19
1BTB1110-162	0.0617	13.7603	0.7017	16.9256	0.0824	9.8895	0.5823	510.72	48.56	539.79	70.98	662.81	294.79	510.72	48.56
1BTB1110-355	0.0601	9.5086	0.6860	12.6007	0.0827	8.3199	0.6562	512.44	40.98	530.39	52.10	606.21	205.63	512.44	40.98
1BTB1110-210	0.0571	11.1417	0.6520	11.5634	0.0828	3.4370	0.2691	512.72	16.94	509.73	46.37	494.45	245.58	512.72	16.94
1BTB1110-252	0.0861	11.3517	0.9893	12.1636	0.0833	4.1470	0.3597	515.64	20.55	698.34	61.49	1340.01	219.36	515.64	20.55
1BTB1110-041	0.0596	6.2490	0.6890	7.3996	0.0838	4.2627	0.5370	518.52	21.24	532.18	30.66	589.64	135.52	518.52	21.24
1BTB1110-008	0.0780	5.3662	0.9031	6.8709	0.0839	4.2846	0.6245	519.40	21.38	653.37	33.12	1146.23	106.62	519.40	21.38
1BTB1110-016	0.0593	11.4659	0.6870	13.0096	0.0840	6.3873	0.4728	519.96	31.91	530.97	53.84	576.51	249.21	519.96	31.91
1BTB1110-102	0.0614	12.2607	0.7153	15.7387	0.0844	9.9507	0.6270	522.44	49.94	547.86	66.74	653.55	263.06	522.44	49.94
1BTB1110-222	0.0608	8.0331	0.7090	9.8851	0.0844	5.9349	0.5830	522.53	29.79	544.13	41.66	633.83	172.92	522.53	29.79
1BTB1110-278	0.0659	6.0419	0.7688	7.5759	0.0845	4.9202	0.6049	523.12	24.72	579.09	33.45	803.33	126.53	523.12	24.72
1BTB1110-195	0.0649	8.0648	0.7581	11.1257	0.0847	7.6999	0.6889	524.14	38.76	572.93	48.75	769.79	169.79	524.14	38.76
1BTB1110-139	0.0780	6.3153	0.9116	8.6225	0.0847	5.7576	0.6810	524.40	29.00	657.93	41.78	1145.83	125.48	524.40	29.00
1BTB1110-159	0.0695	4.7952	0.8132	5.5715	0.0848	3.2556	0.5140	524.94	16.41	604.24	25.38	912.49	98.70	524.94	16.41
1BTB1110-081	0.0700	8.6737	0.8210	10.1624	0.0850	5.3267	0.5211	525.72	26.89	608.61	46.55	929.28	178.09	525.72	26.89
1BTB1110-223	0.0658	5.7810	0.7713	8.3293	0.0850	6.1640	0.7202	525.87	31.13	580.50	36.84	798.67	121.15	525.87	31.13
1BTB1110-174	0.0722	5.5199	0.8479	7.0710	0.0851	4.4134	0.6250	526.38	22.31	623.47	32.95	992.02	112.24	526.38	22.31
1BTB1110-028	0.0617	5.8892	0.7253	8.3982	0.0852	6.2371	0.7135	526.81	31.55	553.80	35.86	664.60	126.13	526.81	31.55
1BTB1110-379	0.0573	4.7778	0.6750	6.5042	0.0853	4.4536	0.6786	527.84	22.57	523.73	26.62	503.60	105.14	527.84	22.57
1BTB1110-076	0.0611	8.1106	0.7195	9.8851	0.0854	5.7591	0.5718	528.20	29.21	550.38	42.02	641.82	174.36	528.20	29.21
1BTB1110-215	0.0679	14.0163	0.8024	16.7172	0.0857	9.2329	0.5451	529.99	46.98	598.18	75.71	864.17	290.74	529.99	46.98
1BTB1110-351	0.0608	4.9121	0.7198	6.4939	0.0858	4.3080	0.6541	530.76	21.95	550.53	27.60	631.03	105.79	530.76	21.95
1BTB1110-035	0.0602	8.0006	0.7149	9.4329	0.0861	5.4106	0.5314	532.49	27.65	547.66	39.95	609.63	172.92	532.49	27.65
1BTB1110-334	0.0643	3.9967	0.7707	5.2891	0.0868	3.6625	0.6560	536.82	18.86	580.18	23.38	751.79	84.39	536.82	18.86
1BTB1110-003	0.0614	7.5251	0.7405	10.7925	0.0874	7.7328	0.7168	540.33	40.08	562.70	46.66	651.74	161.51	540.33	40.08
1BTB1110-045	0.0622	6.4388	0.7515	7.0456	0.0875	3.0597	0.4069	540.95	15.88	569.08	30.70	681.61	137.51	540.95	15.88
1BTB1110-056	0.0609	6.5592	0.7366	9.1399	0.0876	6.4273	0.6964	541.36	33.37	560.41	39.38	637.10	141.12	541.36	33.37
1BTB1110-036	0.0691	5.2032	0.8378	5.8949	0.0879	3.4613	0.4817	542.95	18.02	617.91	27.29	901.53	107.31	542.95	18.02
1BTB1110-057	0.0615	5.4916	0.7487	6.9056	0.0883	4.2808	0.6064	545.46	22.39	567.44	30.03	655.12	117.80	545.46	22.39
1BTB1110-220	0.0616	5.2540	0.7507	6.6711	0.0884	4.3516	0.6172	545.80	22.77	568.64	29.05	659.23	112.62	545.80	22.77
1BTB1110-356	0.0627	7.6201	0.7654	10.3867	0.0884	7.1184	0.6796	546.27	37.28	577.14	45.76	698.46	162.29	546.27	37.28
1BTB1110-309	0.0620	6.5215	0.7576	8.5307	0.0885	5.3885	0.6448	546.66	28.24	572.64	37.35	675.21	139.43	546.66	28.24
1BTB1110-269	0.0679	13.2252	0.8297	15.3715	0.0886	8.0423	0.5098	547.00	42.18	613.44	70.89	865.18	274.28	547.00	42.18
1BTB1110-125	0.0602	8.2639	0.7413	9.8362	0.0892	5.2236	0.5425	550.77	27.58	563.15	42.54	611.89	178.54	550.77	27.58
1BTB1110-103	0.0797	11.5288	0.9810	15.8520	0.0893	10.9548	0.6864	551.11	57.87	694.12	79.87	1188.61	227.64	551.11	57.87
1BTB1110-400	0.0605	4.5746	0.7458	6.3845	0.0893	4.4000	0.6976	551.64	23.26	565.78	27.70	620.94	98.69	551.64	23.26
1BTB1110-020	0.0603	13.0622	0.7443	17.7942	0.0894	12.1576	0.6791	551.78	64.29	564.90	77.24	616.10	282.02	551.78	64.29
1BTB1110-148	0.0606	4.8948	0.7529	6.2328	0.0901	3.9348	0.6192	556.15	20.97	569.91	27.19	623.51	105.55	556.15	20.97
1BTB1110-310	0.0703	11.1710	0.8766	17.3895	0.0903	13.3139	0.7664	557.34	71.09	639.16	82.66	938.28	229.05	557.34	71.09
1BTB1110-167	0.0653	3.6594	0.8169	5.1230	0.0906	3.5781	0.6998	559.03	19.16	606.33	23.39	785.62	76.85	559.03	19.16
1BTB1110-164	0.0592	12.9157	0.7420	18.4955	0.0908	13.2369	0.7158	560.12	71.02	563.56	80.16	575.71	280.75	560.12	71.02
1BTB1110-241	0.0589	5.2993	0.7431	7.0760	0.0914	4.4705	0.6634	564.11	24.15	564.23	30.64	562.85	115.44	564.11	24.15
1BTB1110-135	0.0698	9.3396	0.8841	13.8819	0.0917	10.2062	0.7399	565.77	55.28	643.18	66.23	923.83	191.91	565.77	55.28
1BTB1110-069	0.0617	6.3356	0.7827	7.4184	0.0919	3.8221	0.5202	566.63	20.73	587.04	33.08	665.36	135.67	566.63	20.73
1BTB1110-027	0.0619	5.7690	0.7848	7.2477	0.0919	4.7226	0.6070	566.88	25.63	588.19	32.37	669.53	123.45	566.88	25.63

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB1110, LATE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.587990, LONGITUDE: -70.081490 ACCEPTED															
1BTB1110-185	0.0679	13.9593	0.8631	19.9443	0.0922	14.3618	0.7142	568.30	78.13	631.80	94.08	864.37	289.55	568.30	78.13
1BTB1110-094	0.0624	7.7270	0.7953	10.4965	0.0924	7.2251	0.6769	569.66	39.39	594.16	47.25	687.39	164.87	569.66	39.39
1BTB1110-134	0.0613	3.0167	0.7823	4.2780	0.0925	2.8082	0.7112	570.45	15.33	586.81	19.07	649.00	64.77	570.45	15.33
1BTB1110-201	0.0637	10.4094	0.8186	14.3180	0.0931	10.0639	0.6868	574.11	55.28	607.25	65.53	731.14	220.52	574.11	55.28
1BTB1110-157	0.0605	5.9804	0.7795	8.4367	0.0934	6.1614	0.7058	575.79	33.94	585.18	37.54	620.06	129.03	575.79	33.94
1BTB1110-349	0.0720	6.0050	0.9289	7.5241	0.0935	4.5914	0.6026	576.15	25.31	667.07	36.81	985.69	122.22	576.15	25.31
1BTB1110-001	0.0600	3.9031	0.7747	5.3694	0.0936	3.6798	0.6867	576.68	20.30	582.48	23.80	602.57	84.46	576.68	20.30
1BTB1110-216	0.0584	9.0591	0.7581	11.5529	0.0941	7.3240	0.6207	579.67	40.60	572.94	50.63	544.43	197.97	579.67	40.60
1BTB1110-354	0.0699	4.4651	0.9102	5.1017	0.0944	2.5705	0.4841	581.52	14.29	657.17	24.69	924.22	91.75	581.52	14.29
1BTB1110-302	0.0601	4.1140	0.7865	5.8542	0.0947	3.8461	0.7137	583.56	21.46	589.18	26.18	608.90	88.93	583.56	21.46
1BTB1110-032	0.0608	8.5852	0.8007	11.7855	0.0955	8.2007	0.6852	587.88	46.08	597.24	53.26	631.27	184.89	587.88	46.08
1BTB1110-177	0.0656	4.2252	0.8645	4.9174	0.0955	2.5056	0.5116	588.01	14.08	632.57	23.15	793.50	88.62	588.01	14.08
1BTB1110-051	0.0620	9.7350	0.8185	12.4874	0.0957	7.8647	0.6263	588.96	44.27	607.20	57.13	674.39	208.15	588.96	44.27
1BTB1110-119	0.0682	12.8903	0.9033	15.5549	0.0959	8.7726	0.5597	590.59	49.51	653.48	75.09	875.62	266.91	590.59	49.51
1BTB1110-127	0.0602	5.1983	0.8029	7.1959	0.0967	4.8565	0.6917	595.19	27.61	598.46	32.55	609.24	112.36	595.19	27.61
1BTB1110-237	0.0616	6.5079	0.8256	9.5342	0.0970	6.8445	0.7309	597.04	39.03	611.15	43.81	661.94	139.44	597.04	39.03
1BTB1110-044	0.0732	20.2910	0.9823	20.8457	0.0972	4.8987	0.2292	598.24	27.99	694.77	105.26	1019.72	410.92	598.24	27.99
1BTB1110-098	0.0582	6.2160	0.7810	7.8459	0.0973	4.9650	0.6106	598.68	28.39	586.04	34.95	535.85	136.04	598.68	28.39
1BTB1110-250	0.0704	6.8930	0.9464	8.0893	0.0975	4.0037	0.5242	599.50	22.92	676.21	39.96	939.03	141.32	599.50	22.92
1BTB1110-128	0.0731	7.4594	0.9835	8.5083	0.0975	3.9466	0.4813	599.53	22.59	695.40	42.86	1017.61	151.11	599.53	22.59
1BTB1110-202	0.0666	5.5772	0.8956	7.6277	0.0975	5.6309	0.6843	599.62	32.24	649.39	36.61	824.70	116.40	599.62	32.24
1BTB1110-038	0.0616	7.3456	0.8353	9.8659	0.0982	6.9051	0.6683	604.08	39.82	616.58	45.63	661.15	157.41	604.08	39.82
1BTB1110-233	0.0616	6.2888	0.8356	7.0516	0.0983	3.3194	0.4527	604.17	19.14	616.71	32.60	661.15	134.76	604.17	19.14
1BTB1110-265	0.0627	11.2287	0.8512	15.2949	0.0983	10.5429	0.6791	604.47	60.83	625.30	71.53	699.55	239.10	604.47	60.83
1BTB1110-287	0.0596	6.0262	0.8093	7.6268	0.0984	4.9686	0.6141	605.03	28.69	602.09	34.65	589.06	130.70	605.03	28.69
1BTB1110-059	0.0610	10.7085	0.8454	12.1318	0.1004	5.7711	0.4700	617.03	33.96	622.14	56.49	639.33	230.30	617.03	33.96
1BTB1110-282	0.0614	7.8454	0.8527	10.2275	0.1007	6.7046	0.6417	618.49	39.54	626.15	47.83	652.01	168.37	618.49	39.54
1BTB1110-085	0.0622	4.3513	0.8720	5.7522	0.1017	3.8187	0.6541	624.12	22.72	636.63	27.21	679.86	92.96	624.12	22.72
1BTB1110-325	0.0634	5.1040	0.8955	7.1148	0.1023	5.0806	0.6969	627.77	30.39	649.32	34.14	722.94	108.27	627.77	30.39
1BTB1110-068	0.0647	7.9670	0.9163	9.7851	0.1027	5.6560	0.5806	630.17	33.96	660.42	47.54	763.71	167.90	630.17	33.96
1BTB1110-173	0.0632	8.6164	0.8997	9.6054	0.1032	4.2392	0.4420	632.97	25.56	651.55	46.22	714.72	183.02	632.97	25.56
1BTB1110-053	0.0620	3.6393	0.8863	5.2403	0.1036	3.8606	0.7197	635.58	23.37	644.39	25.01	673.94	77.82	635.58	23.37
1BTB1110-184	0.0598	12.1327	0.8561	17.4204	0.1037	12.6339	0.7176	635.88	76.51	627.97	81.76	597.79	262.75	635.88	76.51
1BTB1110-104	0.0629	6.4668	0.9055	7.8001	0.1043	4.5132	0.5595	639.84	27.49	654.68	37.65	704.67	137.59	639.84	27.49
1BTB1110-079	0.0656	8.8288	0.9467	9.3725	0.1046	3.3359	0.3362	641.08	20.36	676.36	46.31	794.28	185.15	641.08	20.36
1BTB1110-191	0.0624	4.4326	0.9024	6.8264	0.1047	5.3852	0.7610	642.05	32.91	653.00	32.89	689.25	94.55	642.05	32.91
1BTB1110-344	0.0627	9.0992	0.9072	12.2056	0.1049	8.1675	0.6665	643.16	50.00	655.57	59.02	696.45	193.86	643.16	50.00
1BTB1110-060	0.0627	4.6326	0.9110	5.9338	0.1053	3.7023	0.6249	645.38	22.74	657.60	28.73	698.33	98.67	645.38	22.74
1BTB1110-291	0.0639	5.3055	0.9401	6.1723	0.1066	3.4119	0.5126	653.25	21.20	672.95	30.38	737.52	112.28	653.25	21.20
1BTB1110-097	0.0648	6.2199	0.9559	8.2600	0.1069	5.5921	0.6583	654.87	34.82	681.19	41.01	767.74	130.99	654.87	34.82
1BTB1110-352	0.0613	5.2856	0.9242	6.9068	0.1093	4.5037	0.6438	668.64	28.60	664.57	33.70	648.69	113.50	668.64	28.60
1BTB1110-203	0.0669	5.9143	1.0165	7.9024	0.1102	5.6657	0.6652	673.77	36.25	712.17	40.47	833.41	123.27	673.77	36.25
1BTB1110-305	0.0674	8.5047	1.0378	9.4301	0.1116	3.9231	0.4323	682.05	25.39	722.82	48.80	849.57	176.81	682.05	25.39
1BTB1110-376	0.0664	8.5929	1.0765	11.7900	0.1175	8.0946	0.6847	716.02	54.86	741.92	62.14	818.79	179.51	716.02	54.86
1BTB1110-093	0.0661	6.2307	1.1693	8.7704	0.1281	6.2688	0.7039	777.13	45.90	786.32	48.04	811.06	130.32	777.13	45.90
1BTB1110-301	0.0694	4.8913	1.2388	5.9741	0.1293	3.0350	0.5785	783.99	22.40	818.35	33.58	911.07	100.73	783.99	22.40
1BTB1110-289	0.0678	10.4604	1.3458	14.8049	0.1437	10.6113	0.7077	865.80	85.98	865.75	86.45	863.75	216.99	863.75	216.99
1BTB1110-348	0.0700	6.7964	1.5135	7.4348	0.1566	3.1008	0.4056	938.10	27.07	935.84	45.49	928.50	139.56	928.50	139.56
1BTB1110-067	0.0719	11.5154	1.4935	17.0337	0.1505	12.5403	0.7369	903.74	105.76	927.76	103.96	983.93	234.44	983.93	234.44
1BTB1110-168	0.0719	5.3008	1.6253	7.7507	0.1637	5.6501	0.7296	977.53	51.25	980.04	48.76	983.98	107.92	983.98	107.92

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB1110, LATE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.587990, LONGITUDE: -70.081490 ACCEPTED															
1BTB1110-283	0.0725	4.9058	1.6108	5.9457	0.1609	3.6313	0.5667	961.90	32.45	974.40	37.26	1000.89	99.62	1000.89	99.62
1BTB1110-071	0.0727	5.5468	1.7392	7.0780	0.1734	4.4669	0.6213	1031.07	42.56	1023.15	45.66	1004.93	112.57	1004.93	112.57
1BTB1110-120	0.0731	4.6492	1.6123	6.2897	0.1598	4.3305	0.6737	955.62	38.46	975.01	39.44	1017.48	94.18	1017.48	94.18
1BTB1110-234	0.0731	4.4208	1.6741	5.7240	0.1659	3.7500	0.6355	989.41	34.40	998.74	36.40	1017.54	89.56	1017.54	89.56
1BTB1110-275	0.0733	12.7183	1.7038	19.6622	0.1683	15.1052	0.7626	1003.01	140.33	1009.95	126.46	1023.24	257.43	1023.24	257.43
1BTB1110-266	0.0733	8.1749	1.5053	9.6353	0.1487	5.4140	0.5302	893.81	45.19	932.55	58.85	1023.50	165.46	1023.50	165.46
1BTB1110-231	0.0734	3.9783	1.6302	5.2413	0.1610	3.5336	0.6514	962.36	31.59	981.93	33.00	1024.22	80.51	1024.22	80.51
1BTB1110-192	0.0740	2.8323	1.7202	4.3487	0.1686	3.5968	0.7616	1004.18	33.45	1016.08	27.93	1040.12	57.17	1040.12	57.17
1BTB1110-054	0.0741	6.9632	1.7811	9.9918	0.1743	7.2137	0.7172	1035.59	69.02	1038.59	65.06	1043.54	140.48	1043.54	140.48
1BTB1110-116	0.0742	8.3968	1.7539	11.3714	0.1714	7.7437	0.6744	1019.90	73.05	1028.62	73.67	1045.74	169.35	1045.74	169.35
1BTB1110-024	0.0746	6.9243	1.8536	9.7661	0.1801	7.0161	0.7053	1067.55	69.03	1064.72	64.50	1057.23	139.41	1057.23	139.41
1BTB1110-312	0.0746	10.6994	1.6859	12.6799	0.1637	6.7794	0.5366	977.45	61.49	1003.21	80.99	1058.07	215.38	1058.07	215.38
1BTB1110-006	0.0746	5.3084	1.7676	6.8360	0.1716	4.3007	0.6301	1021.09	40.61	1033.66	44.36	1058.12	106.86	1058.12	106.86
1BTB1110-065	0.0747	5.1765	1.8455	7.4761	0.1792	5.3677	0.7215	1062.45	52.58	1061.84	49.27	1059.26	104.19	1059.26	104.19
1BTB1110-011	0.0747	7.2468	1.9966	9.1779	0.1937	5.6858	0.6137	1141.61	59.49	1114.35	62.17	1059.52	145.85	1059.52	145.85
1BTB1110-109	0.0747	4.1298	1.6638	6.3291	0.1613	4.9345	0.7581	964.18	44.19	994.81	40.16	1061.55	83.09	1061.55	83.09
1BTB1110-389	0.0749	5.2350	1.8049	7.3185	0.1745	5.1726	0.6989	1037.11	49.55	1047.23	47.85	1066.37	105.25	1066.37	105.25
1BTB1110-331	0.0752	4.5759	1.7951	5.7633	0.1729	3.6438	0.6084	1028.21	34.63	1043.68	37.60	1074.27	91.89	1074.27	91.89
1BTB1110-388	0.0754	8.3099	1.8109	11.2521	0.1740	7.6260	0.6742	1034.09	72.86	1049.42	73.74	1079.44	166.75	1079.44	166.75
1BTB1110-247	0.0756	3.9898	1.8896	5.9045	0.1812	4.2343	0.7374	1073.52	41.87	1077.43	39.22	1083.60	80.01	1083.60	80.01
1BTB1110-225	0.0756	11.9665	1.8054	17.1634	0.1730	12.3846	0.7169	1028.37	117.73	1047.41	112.61	1085.60	239.90	1085.60	239.90
1BTB1110-123	0.0757	2.9689	1.8476	3.9464	0.1768	2.7510	0.6599	1049.58	26.65	1062.56	26.00	1087.85	59.50	1087.85	59.50
1BTB1110-142	0.0760	8.6119	1.5396	9.0670	0.1469	2.8536	0.3128	883.43	23.56	946.36	55.87	1094.23	172.42	1094.23	172.42
1BTB1110-253	0.0761	5.4293	1.5672	7.7368	0.1493	5.3373	0.7128	896.80	44.69	957.33	47.99	1097.38	108.65	1097.38	108.65
1BTB1110-316	0.0765	4.5461	1.7692	7.1276	0.1676	5.4508	0.7702	998.79	50.44	1034.22	46.27	1108.04	90.83	1108.04	90.83
1BTB1110-304	0.0767	3.7885	1.8690	4.7311	0.1766	2.6123	0.6010	1048.20	25.27	1070.18	31.30	1113.42	75.64	1113.42	75.64
1BTB1110-009	0.0769	8.2645	1.9425	12.1869	0.1830	8.9534	0.7349	1083.52	89.30	1095.85	81.87	1118.31	164.88	1118.31	164.88
1BTB1110-030	0.0770	12.6315	2.0528	17.3326	0.1932	11.9550	0.6848	1138.81	124.81	1133.21	118.88	1120.90	251.90	1120.90	251.90
1BTB1110-228	0.0771	9.6685	1.7428	13.6680	0.1639	9.7636	0.7069	978.27	88.63	1024.50	88.41	1122.89	192.76	1122.89	192.76
1BTB1110-194	0.0774	6.3096	1.7646	9.3623	0.1652	6.9563	0.7388	985.73	63.59	1032.55	60.75	1131.41	125.63	1131.41	125.63
1BTB1110-078	0.0774	6.6941	1.7101	8.0731	0.1601	4.6472	0.5592	957.26	41.34	1012.31	51.77	1132.11	133.28	1132.11	133.28
1BTB1110-398	0.0776	10.4381	1.8011	14.5373	0.1681	10.0948	0.6960	1001.78	93.67	1045.85	95.19	1137.13	207.66	1137.13	207.66
1BTB1110-245	0.0779	11.8026	1.6709	13.7201	0.1553	6.9227	0.5099	930.87	60.01	997.54	87.37	1145.41	234.52	1145.41	234.52
1BTB1110-063	0.0780	8.7704	2.0154	11.7140	0.1874	7.7625	0.6629	1107.05	78.96	1120.72	79.66	1145.99	174.26	1145.99	174.26
1BTB1110-161	0.0780	10.1701	1.9910	14.8352	0.1850	10.8317	0.7280	1094.33	109.03	1112.46	100.60	1146.47	202.05	1146.47	202.05
1BTB1110-196	0.0782	3.0873	1.9285	4.5396	0.1788	3.4096	0.7334	1060.44	33.34	1091.01	30.36	1150.87	61.30	1150.87	61.30
1BTB1110-046	0.0783	5.2807	2.0147	7.6254	0.1864	5.6073	0.7215	1101.74	56.79	1120.46	51.79	1155.55	104.77	1155.55	104.77
1BTB1110-285	0.0786	5.3052	1.8856	6.2540	0.1739	3.7150	0.5330	1033.65	35.48	1076.02	41.52	1161.11	105.17	1161.11	105.17
1BTB1110-050	0.0786	4.2192	2.1830	5.9582	0.2013	4.2880	0.7062	1182.31	46.32	1175.62	41.51	1161.96	83.63	1161.96	83.63
1BTB1110-040	0.0786	5.3699	2.1186	7.0086	0.1954	4.7698	0.6437	1150.31	50.25	1154.89	48.38	1162.03	106.44	1162.03	106.44
1BTB1110-395	0.0786	8.1246	1.8631	11.9092	0.1717	8.6802	0.7312	1021.72	82.02	1068.09	78.85	1162.04	161.05	1162.04	161.05
1BTB1110-083	0.0788	3.8767	2.1603	5.3902	0.1988	3.7893	0.6948	1168.75	40.51	1168.38	37.43	1166.38	76.79	1166.38	76.79
1BTB1110-224	0.0788	5.7832	1.9178	6.9416	0.1764	4.0909	0.5542	1047.27	39.54	1087.32	46.36	1166.73	114.56	1166.73	114.56
1BTB1110-140	0.0788	4.9927	1.8009	6.2602	0.1656	3.7896	0.6033	988.06	34.72	1045.77	40.89	1166.85	98.89	1166.85	98.89
1BTB1110-189	0.0790	4.3479	2.0631	5.5113	0.1892	3.8498	0.6196	1117.22	39.49	1136.63	37.71	1172.22	86.05	1172.22	86.05
1BTB1110-366	0.0790	4.5314	2.0451	5.8051	0.1875	3.8022	0.6257	1107.73	38.70	1130.66	39.61	1172.96	89.68	1172.96	89.68
1BTB1110-268	0.0791	4.7914	2.0009	5.5456	0.1833	3.3313	0.5113	1084.72	33.26	1115.83	37.56	1175.20	94.79	1175.20	94.79
1BTB1110-131	0.0795	4.3992	1.9579	6.6749	0.1784	4.9018	0.7523	1058.47	47.85	1101.15	44.89	1185.00	86.91	1185.00	86.91
1BTB1110-392	0.0797	11.0740	1.7649	13.5047	0.1604	7.7681	0.5724	959.16	69.23	1032.63	87.75	1189.70	218.62	1189.70	218.62
1BTB1110-105	0.0797	5.2065	1.9040	6.5293	0.1731	4.1074	0.6040	1028.97	39.06	1082.49	43.49	1190.48	102.78	1190.48	102.78

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB1110, LATE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.587990, LONGITUDE: -70.081490 ACCEPTED															
1BTB1110-353	0.0798	5.6268	2.1728	7.0604	0.1974	4.3250	0.6041	1161.37	45.97	1172.39	49.13	1190.82	111.07	1190.82	111.07
1BTB1110-145	0.0798	5.6536	2.1123	8.1826	0.1919	5.9654	0.7230	1131.66	61.92	1152.82	56.45	1191.29	111.59	1191.29	111.59
1BTB1110-249	0.0801	8.3579	1.8275	11.4437	0.1653	7.7516	0.6831	986.10	70.88	1055.40	75.24	1199.96	164.76	1199.96	164.76
1BTB1110-297	0.0803	4.3643	2.2178	5.9657	0.2002	3.8585	0.6827	1176.48	41.49	1186.67	41.77	1203.50	85.99	1203.50	85.99
1BTB1110-113	0.0809	4.3435	2.2774	6.2346	0.2040	4.5297	0.7174	1196.88	49.48	1205.32	44.02	1219.06	85.39	1219.06	85.39
1BTB1110-117	0.0810	5.4072	2.3473	6.9112	0.2100	4.4374	0.6231	1228.65	49.64	1226.74	49.25	1221.95	106.25	1221.95	106.25
1BTB1110-101	0.0814	4.9042	2.3310	7.0410	0.2075	5.2115	0.7179	1215.65	57.74	1221.78	50.07	1231.26	96.24	1231.26	96.24
1BTB1110-158	0.0816	4.5389	2.0845	5.8756	0.1852	4.0586	0.6373	1095.41	40.89	1143.70	40.34	1234.92	89.02	1234.92	89.02
1BTB1110-290	0.0817	11.2833	2.4254	16.0279	0.2150	11.4575	0.7102	1255.60	130.73	1250.17	115.73	1239.07	221.17	1239.07	221.17
1BTB1110-153	0.0819	8.8244	2.1742	11.7594	0.1923	7.8798	0.6610	1133.69	81.92	1172.82	81.96	1244.21	172.85	1244.21	172.85
1BTB1110-396	0.0826	4.5240	2.4158	6.7515	0.2119	4.9639	0.7423	1238.72	55.94	1247.31	48.52	1260.23	88.41	1260.23	88.41
1BTB1110-300	0.0827	4.9907	1.9468	6.7443	0.1706	4.2455	0.6741	1015.63	39.89	1097.34	45.27	1261.40	97.51	1261.40	97.51
1BTB1110-262	0.0827	7.3460	1.9792	10.7316	0.1734	7.9255	0.7291	1030.86	75.51	1108.45	72.51	1262.29	143.52	1262.29	143.52
1BTB1110-108	0.0830	2.5949	2.2374	3.0107	0.1954	1.9176	0.5203	1150.43	20.20	1192.84	21.13	1269.14	50.65	1269.14	50.65
1BTB1110-286	0.0844	7.2490	2.2502	9.7705	0.1932	6.7638	0.6708	1138.81	70.61	1196.85	68.79	1301.48	140.84	1301.48	140.84
1BTB1110-089	0.0859	2.3863	2.5747	3.1049	0.2172	2.0916	0.6406	1267.23	24.06	1293.46	22.71	1335.98	46.14	1335.98	46.14
1BTB1110-091	0.0864	9.3630	2.8083	13.3682	0.2356	9.6042	0.7138	1363.72	118.06	1357.76	100.42	1347.09	180.75	1347.09	180.75
1BTB1110-359	0.0865	4.3799	2.5772	6.5685	0.2158	4.9816	0.7453	1259.67	57.00	1294.19	48.09	1349.99	84.52	1349.99	84.52
1BTB1110-115	0.0871	7.6940	2.4923	10.8535	0.2075	7.7308	0.7054	1215.46	85.64	1269.79	78.81	1361.62	148.23	1361.62	148.23
1BTB1110-047	0.0874	8.8249	2.9752	10.5180	0.2466	5.8248	0.5442	1421.05	74.29	1401.31	80.10	1370.06	169.82	1370.06	169.82
1BTB1110-014	0.0881	4.3145	2.7895	5.5749	0.2295	3.9345	0.6370	1331.97	47.35	1352.72	41.69	1383.78	82.87	1383.78	82.87
1BTB1110-110	0.0882	4.9760	2.4798	6.3716	0.2037	4.0437	0.6247	1195.21	44.12	1266.14	46.14	1387.39	95.53	1387.39	95.53
1BTB1110-240	0.0890	7.8720	2.7231	10.3179	0.2216	6.5184	0.6466	1290.29	76.23	1334.77	76.77	1405.18	150.76	1405.18	150.76
1BTB1110-295	0.0912	5.7378	3.0308	8.0755	0.2408	5.5349	0.7039	1391.11	69.26	1415.41	61.73	1450.44	109.21	1450.44	109.21
1BTB1110-143	0.0915	4.3537	2.7273	6.4555	0.2161	4.7766	0.7383	1261.36	54.72	1335.93	48.00	1456.03	82.81	1456.03	82.81
1BTB1110-314	0.0917	6.0969	3.0896	8.9092	0.2442	6.4636	0.7292	1408.24	81.77	1430.11	68.45	1461.02	115.88	1461.02	115.88
1BTB1110-380	0.0921	9.8151	2.8564	13.6526	0.2247	9.5087	0.6951	1306.50	112.46	1370.49	103.03	1469.73	186.33	1469.73	186.33
1BTB1110-296	0.0938	4.3975	2.8831	5.8651	0.2228	3.6615	0.6628	1296.42	43.00	1377.50	44.24	1503.79	83.11	1503.79	83.11
1BTB1110-324	0.0955	6.3974	3.5932	8.9414	0.2726	6.3062	0.6987	1554.11	87.09	1548.03	71.14	1537.96	120.36	1537.96	120.36
1BTB1110-086	0.0956	3.8235	3.1275	7.7906	0.2371	6.8193	0.8713	1371.62	84.26	1439.47	60.01	1539.95	71.92	1539.95	71.92
1BTB1110-384	0.0960	13.1157	3.3929	18.6845	0.2562	13.3209	0.7122	1470.15	175.15	1502.76	147.56	1547.13	246.46	1547.13	246.46
1BTB1110-226	0.0962	4.0196	3.5891	5.5515	0.2703	4.0813	0.6912	1542.12	55.98	1547.12	44.11	1552.34	75.48	1552.34	75.48
1BTB1110-288	0.0970	6.6577	3.6467	9.7240	0.2724	7.2846	0.7291	1552.76	100.53	1559.80	77.64	1567.65	124.77	1567.65	124.77
1BTB1110-372	0.0978	2.8023	3.6430	3.8779	0.2698	2.7652	0.6916	1539.95	37.88	1558.97	30.90	1582.94	52.41	1582.94	52.41
1BTB1110-160	0.0991	3.4061	3.4655	5.1002	0.2533	3.8838	0.7445	1455.46	50.60	1519.39	40.21	1608.12	63.50	1608.12	63.50
1BTB1110-311	0.1068	10.7901	4.6380	16.1053	0.3146	11.9421	0.7424	1763.30	184.28	1756.13	135.32	1745.90	197.66	1745.90	197.66
1BTB1110-099	0.1071	5.7871	4.5769	9.1290	0.3098	7.1818	0.7735	1739.66	109.51	1745.08	76.22	1750.32	105.95	1750.32	105.95
1BTB1110-394	0.1077	9.9380	4.7451	14.2414	0.3193	10.1773	0.7163	1786.19	158.81	1775.24	119.99	1760.56	181.72	1760.56	181.72
1BTB1110-090	0.1079	4.8489	4.2728	6.3154	0.2870	4.1918	0.6411	1626.70	60.27	1688.13	52.01	1764.08	88.63	1764.08	88.63
1BTB1110-147	0.1092	4.8755	4.7829	7.1212	0.3173	5.2474	0.7289	1776.55	81.48	1781.90	59.87	1786.75	88.87	1786.75	88.87
1BTB1110-341	0.1103	6.6372	4.6109	9.7194	0.3028	7.1944	0.7306	1704.98	107.79	1751.25	81.27	1805.15	120.68	1805.15	120.68
1BTB1110-002	0.1113	4.7844	4.6318	6.8137	0.3014	4.8456	0.7120	1698.11	72.34	1755.02	56.96	1821.35	86.83	1821.35	86.83
1BTB1110-343	0.1121	7.1171	4.8606	10.1138	0.3142	7.2788	0.7106	1761.22	112.19	1795.46	85.37	1833.69	128.98	1833.69	128.98
1BTB1110-197	0.1142	8.1644	5.2341	11.7150	0.3322	8.4340	0.7172	1849.19	135.61	1858.19	100.20	1866.75	147.31	1866.75	147.31
1BTB1110-209	0.1144	6.5878	5.4243	9.0558	0.3435	6.5001	0.6868	1903.72	107.15	1888.71	77.79	1870.70	118.81	1870.70	118.81
1BTB1110-280	0.1154	13.7108	5.6070	19.5745	0.3520	14.0383	0.7137	1944.26	235.73	1917.18	170.25	1886.40	246.83	1886.40	246.83
1BTB1110-021	0.1155	2.7425	5.3957	3.5756	0.3385	2.6569	0.6486	1879.62	43.32	1884.17	30.64	1887.60	49.37	1887.60	49.37
1BTB1110-080	0.1162	5.7919	5.0278	8.2687	0.3136	5.9295	0.7137	1758.18	91.25	1824.01	70.14	1898.85	104.12	1898.85	104.12
1BTB1110-272	0.1170	7.0194	5.5971	9.8705	0.3468	7.0671	0.7032	1919.22	117.32	1915.65	85.23	1910.21	126.02	1910.21	126.02
1BTB1110-075	0.1177	8.5684	5.8449	12.4131	0.3600	9.0499	0.7236	1982.29	154.46	1953.10	108.03	1921.11	153.63	1921.11	153.63

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB1110, LATE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.587990, LONGITUDE: -70.081490 ACCEPTED															
1BTB1110-333	0.1179	2.3349	5.4566	3.8307	0.3353	3.1972	0.7938	1864.22	51.76	1893.79	32.88	1924.63	41.85	1924.63	41.85
1BTB1110-277	0.1187	7.1413	4.5103	7.6802	0.2754	3.3623	0.3735	1567.97	46.80	1732.88	63.92	1936.60	127.82	1936.60	127.82
1BTB1110-336	0.1208	4.0315	6.2491	5.9584	0.3747	4.5455	0.7368	2051.50	79.87	2011.35	52.20	1968.64	71.89	1968.64	71.89
1BTB1110-205	0.1222	4.4186	5.7837	5.8610	0.3429	4.2976	0.6609	1900.63	70.74	1943.97	50.78	1988.95	78.61	1988.95	78.61
1BTB1110-121	0.1240	4.5007	5.6006	6.2085	0.3274	4.3701	0.6890	1825.83	69.49	1916.19	53.54	2014.14	79.83	2014.14	79.83
1BTB1110-242	0.1241	8.2820	5.4914	11.8721	0.3208	8.3878	0.7166	1793.49	131.34	1899.26	102.32	2015.35	146.88	2015.35	146.88
1BTB1110-299	0.1247	7.5547	5.9040	11.2414	0.3432	8.2244	0.7406	1902.00	135.48	1961.83	97.91	2023.93	133.85	2023.93	133.85
1BTB1110-347	0.1252	3.8716	5.4293	6.0768	0.3143	4.7399	0.7708	1761.80	73.07	1889.49	52.15	2031.11	68.54	2031.11	68.54
1BTB1110-204	0.1256	6.5869	5.0382	12.6086	0.2906	10.9645	0.8529	1644.38	159.17	1825.76	107.22	2037.92	116.51	2037.92	116.51
1BTB1110-124	0.1262	7.3408	5.4381	10.2289	0.3122	7.0406	0.6965	1751.66	108.00	1890.88	87.95	2046.08	129.72	2046.08	129.72
1BTB1110-198	0.1264	5.7440	5.9142	9.2486	0.3391	7.2864	0.7838	1882.30	118.96	1963.32	80.49	2048.33	101.48	2048.33	101.48
1BTB1110-236	0.1269	4.3741	6.3474	6.6274	0.3624	4.8049	0.7517	1993.45	82.39	2025.03	58.20	2055.84	77.21	2055.84	77.21
1BTB1110-251	0.1289	7.9804	6.8514	11.6556	0.3851	8.3829	0.7289	2100.02	150.27	2092.39	103.63	2083.36	140.42	2083.36	140.42
1BTB1110-313	0.1295	3.4615	6.6295	5.3298	0.3710	4.0103	0.7604	2034.24	69.96	2063.28	47.06	2090.76	60.85	2090.76	60.85
1BTB1110-199	0.1298	6.0177	5.9025	9.5324	0.3295	7.4299	0.7756	1836.11	118.73	1961.60	82.95	2095.23	105.74	2095.23	105.74
1BTB1110-358	0.1319	6.4480	7.1920	9.4691	0.3952	6.9959	0.7324	2146.89	127.76	2135.51	84.61	2122.83	112.94	2122.83	112.94
1BTB1110-322	0.1321	8.8240	7.1494	12.6876	0.3923	9.1574	0.7186	2133.41	166.36	2130.21	113.49	2125.48	154.51	2125.48	154.51
1BTB1110-037	0.1324	11.4639	7.1233	16.3324	0.3899	11.8165	0.7124	2122.13	213.74	2126.97	146.43	2130.33	200.62	2130.33	200.62
1BTB1110-172	0.1380	4.0169	6.7172	6.1450	0.3527	4.6449	0.7568	1947.26	78.07	2074.89	54.36	2202.66	69.73	2202.66	69.73
1BTB1110-238	0.1394	5.7807	6.1621	9.0389	0.3204	6.8252	0.7689	1791.46	106.76	1999.08	79.12	2219.59	100.17	2219.59	100.17
1BTB1110-137	0.1459	5.0886	7.4650	7.0759	0.3708	4.7812	0.6951	2033.07	83.37	2168.80	63.44	2298.52	87.45	2298.52	87.45
1BTB1110-170	0.1649	6.8900	8.3151	10.4981	0.3653	7.9176	0.7545	2007.42	136.59	2265.96	95.43	2506.90	115.90	2506.90	115.90
1BTB1110-111	0.1780	4.4344	11.2437	7.0948	0.4578	5.5844	0.7806	2429.69	113.06	2543.55	66.25	2634.45	73.66	2634.45	73.66
1BTB1110-326	0.1821	10.0517	11.6097	15.1490	0.4619	11.3885	0.7482	2448.00	232.07	2573.46	142.55	2672.23	166.37	2672.23	166.37
1BTB1110-118	0.1844	6.5371	10.4659	9.0860	0.4113	6.4020	0.6946	2220.92	120.29	2476.90	84.41	2692.95	107.99	2692.95	107.99
1BTB1110-007	0.1919	5.1853	13.0843	8.2601	0.4939	6.4255	0.7784	2587.50	136.96	2685.75	78.07	2758.77	85.14	2758.77	85.14
1BTB1110-381	0.1926	2.9350	11.9713	3.8075	0.4503	2.4981	0.6373	2396.80	50.00	2602.16	35.70	2764.47	48.17	2764.47	48.17
1BTB1110-171	0.2363	1.7642	17.1203	2.9280	0.5250	2.3259	0.7981	2720.30	51.62	2941.60	28.10	3095.36	28.13	3095.36	28.13
1BTB1110, LATE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.587990, LONGITUDE: -70.081490 REJECTED															
1BTB1110-239	0.1347	15.9771	0.4748	17.5394	0.0255	7.1176	0.4126	162.60	11.43	394.49	57.39	2159.95	278.67	162.60	11.43
1BTB1110-010	0.2280	8.1512	0.9752	20.0149	0.0310	18.2860	0.9133	196.77	35.44	691.16	100.67	3037.84	130.61	196.77	35.44
1BTB1110-393	0.0559	17.6882	0.3197	24.4606	0.0414	16.9130	0.6907	261.66	43.37	281.65	60.23	448.83	392.89	261.66	43.37
1BTB1110-362	0.0779	12.1021	0.4552	14.0247	0.0423	7.1250	0.5054	267.19	18.65	380.92	44.57	1145.23	240.48	267.19	18.65
1BTB1110-129	0.0938	9.6020	0.5564	11.8616	0.0430	6.8792	0.5872	271.44	18.29	449.16	43.08	1503.19	181.48	271.44	18.29
1BTB1110-292	0.0781	4.5550	0.4685	5.4803	0.0435	3.3134	0.5580	274.21	8.90	390.15	17.75	1149.95	90.45	274.21	8.90
1BTB1110-391	0.2243	10.6855	1.3465	15.1980	0.0435	10.8351	0.7111	274.45	29.11	866.04	88.78	3011.87	171.58	274.45	29.11
1BTB1110-339	0.0945	12.7311	0.5697	14.6493	0.0437	7.3439	0.4948	275.57	19.81	457.79	54.03	1518.24	240.14	275.57	19.81
1BTB1110-373	0.2268	21.3367	1.4129	33.9850	0.0451	26.4579	0.7784	284.59	73.66	894.36	204.79	3029.58	342.12	284.59	73.66
1BTB1110-074	0.2534	6.5277	1.6240	9.9952	0.0465	7.6501	0.7573	292.73	21.89	979.53	62.89	3205.93	103.15	292.73	21.89
1BTB1110-308	0.0837	9.7626	0.5590	12.5625	0.0484	7.8295	0.6294	304.65	23.30	450.86	45.77	1285.51	190.10	304.65	23.30
1BTB1110-328	0.2205	18.7309	1.4812	19.3533	0.0487	4.9944	0.2516	306.41	14.95	922.72	117.84	2984.13	301.44	306.41	14.95
1BTB1110-346	0.0823	8.8976	0.5558	13.6105	0.0489	10.3250	0.7567	307.98	31.05	448.77	49.41	1252.40	174.08	307.98	31.05
1BTB1110-258	0.1283	14.8231	1.0117	15.9172	0.0572	5.6827	0.3644	358.28	19.80	709.74	81.45	2074.46	261.08	358.28	19.80
1BTB1110-175	0.0553	15.0707	0.4472	21.4115	0.0586	15.2078	0.7103	366.98	54.25	375.28	67.27	425.02	336.15	366.98	54.25
1BTB1110-096	0.1133	9.7363	0.9657	10.4076	0.0618	3.9056	0.3540	386.44	14.65	686.24	51.96	1852.86	175.96	386.44	14.65
1BTB1110-130	0.0614	18.6925	0.5586	26.1629	0.0659	18.2734	0.6997	411.60	72.87	450.60	95.49	653.22	401.09	411.60	72.87
1BTB1110-254	0.1144	6.3205	1.0811	10.3918	0.0685	8.1670	0.7938	426.98	33.74	744.15	54.87	1870.43	114.00	426.98	33.74
1BTB1110-230	0.0586	15.3675	0.5955	21.6243	0.0736	15.2412	0.7035	457.95	67.38	474.39	82.13	552.86	335.35	457.95	67.38
1BTB1110-386	0.0757	4.0856	0.7776	5.2413	0.0744	3.3731	0.6266	462.52	15.05	584.12	23.28	1088.25	81.87	462.52	15.05

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB1110, LATE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.587990, LONGITUDE: -70.081490 REJECTED															
1BTB1110-149	0.0750	22.7187	0.8042	29.8507	0.0777	19.3783	0.6487	482.30	90.06	599.18	135.91	1068.96	456.59	482.30	90.06
1BTB1110-243	0.0931	7.5210	1.0038	10.6856	0.0781	7.4576	0.7105	484.75	34.83	705.75	54.41	1490.78	142.38	484.75	34.83
1BTB1110-350	0.0916	12.8583	1.0166	14.3422	0.0804	6.3938	0.4430	498.50	30.67	712.21	73.54	1459.46	244.44	498.50	30.67
1BTB1110-012	0.0880	11.4026	0.9857	11.8090	0.0812	3.2261	0.2604	503.17	15.62	696.52	59.59	1381.89	219.07	503.17	15.62
1BTB1110-095	0.0588	19.1910	0.6951	26.4366	0.0857	18.2298	0.6878	530.02	92.76	535.86	110.51	559.34	418.32	530.02	92.76
1BTB1110-061	0.1765	45.1861	2.1056	48.9081	0.0865	18.7130	0.3826	534.59	96.01	1150.63	349.92	2620.25	751.62	534.59	96.01
1BTB1110-323	0.1523	14.7144	1.8231	15.8925	0.0867	6.0668	0.3779	536.11	31.21	1053.81	104.58	2372.25	250.97	536.11	31.21
1BTB1110-100	0.0593	15.5230	0.7136	21.6654	0.0873	15.1678	0.6976	539.29	78.47	546.88	91.86	577.16	337.35	539.29	78.47
1BTB1110-062	0.0846	6.8134	1.0230	9.1175	0.0876	6.0552	0.6645	541.38	31.44	715.44	46.85	1307.23	132.27	541.38	31.44
1BTB1110-042	0.1209	10.6639	1.4646	12.3994	0.0878	6.5186	0.5105	542.65	33.93	915.90	74.95	1968.99	190.16	542.65	33.93
1BTB1110-208	0.0848	5.8678	1.0275	6.7598	0.0878	3.8608	0.5014	542.77	20.10	717.70	34.80	1310.20	113.86	542.77	20.10
1BTB1110-263	0.0986	7.5159	1.1958	8.6711	0.0879	4.5065	0.4991	542.86	23.46	798.64	47.98	1598.28	140.30	542.86	23.46
1BTB1110-082	0.1033	8.6388	1.3079	10.7392	0.0918	6.4058	0.5941	566.02	34.71	849.22	61.87	1684.15	159.47	566.02	34.71
1BTB1110-092	0.1258	9.3510	1.6730	10.0356	0.0964	3.8041	0.3634	593.25	21.56	998.31	63.86	2039.88	165.37	593.25	21.56
1BTB1110-320	0.0760	8.9564	1.0325	12.1865	0.0985	8.3091	0.6781	605.38	48.01	720.16	62.94	1094.57	179.31	605.38	48.01
1BTB1110-367	0.0664	8.0269	0.9074	11.5966	0.0990	8.4464	0.7218	608.67	49.06	655.66	56.07	818.79	167.68	608.67	49.06
1BTB1110-183	0.0780	6.4394	1.0673	9.1245	0.0992	6.5935	0.7086	609.44	38.34	737.44	47.87	1147.05	127.92	609.44	38.34
1BTB1110-244	0.0679	9.4364	0.9308	12.1887	0.0994	7.6487	0.6330	610.68	44.57	668.08	59.73	865.05	195.71	610.68	44.57
1BTB1110-306	0.0696	4.6063	0.9551	7.3162	0.0995	5.5769	0.7771	611.41	32.53	680.77	36.31	915.51	94.77	611.41	32.53
1BTB1110-141	0.0659	5.8899	0.9075	7.7722	0.0999	5.0808	0.6525	613.62	29.74	655.74	37.56	801.86	123.37	613.62	29.74
1BTB1110-364	0.0937	4.1735	1.3126	6.3685	0.1015	4.9427	0.7556	623.38	29.37	851.26	36.72	1501.40	78.90	623.38	29.37
1BTB1110-293	0.0674	8.0537	0.9463	9.1613	0.1017	4.5563	0.4771	624.55	27.12	676.18	45.26	850.27	167.42	624.55	27.12
1BTB1110-385	0.0722	3.6460	1.0165	4.4958	0.1020	2.7420	0.5856	625.96	16.36	712.13	23.02	992.17	74.14	625.96	16.36
1BTB1110-327	0.0576	13.3807	0.8123	16.6915	0.1021	10.0402	0.5978	626.99	59.99	603.77	76.11	515.43	293.87	626.99	59.99
1BTB1110-048	0.0733	8.8891	1.0473	9.5107	0.1036	3.5520	0.3560	635.41	21.49	727.53	49.44	1021.47	179.97	635.41	21.49
1BTB1110-070	0.1524	14.4489	2.1852	15.1502	0.1039	4.6236	0.3008	637.32	28.06	1176.34	105.92	2373.17	246.42	637.32	28.06
1BTB1110-163	0.1175	8.4514	1.6851	9.3093	0.1040	3.9889	0.4194	637.57	24.21	1002.91	59.39	1917.99	151.59	637.57	24.21
1BTB1110-026	0.0743	4.4521	1.0719	7.9242	0.1046	6.7842	0.8277	641.28	41.41	739.69	41.65	1048.71	89.75	641.28	41.41
1BTB1110-022	0.1382	5.7520	2.0006	16.1232	0.1049	15.1218	0.9342	643.10	92.56	1115.71	109.58	2204.62	99.83	643.10	92.56
1BTB1110-383	0.0861	9.6154	1.2464	14.3936	0.1049	10.7274	0.7441	643.25	65.68	821.80	81.26	1339.61	185.82	643.25	65.68
1BTB1110-256	0.1393	14.2056	2.0210	19.1890	0.1051	12.8483	0.6723	644.44	78.80	1122.60	131.07	2218.45	246.20	644.44	78.80
1BTB1110-005	0.0674	9.5816	0.9815	13.4997	0.1055	9.5068	0.7044	646.71	58.50	694.35	68.00	849.51	199.20	646.71	58.50
1BTB1110-317	0.0672	4.4435	0.9796	5.6710	0.1055	3.4629	0.6214	646.84	21.31	693.40	28.50	845.49	92.44	646.84	21.31
1BTB1110-375	0.0772	5.1632	1.1320	7.2780	0.1062	5.1641	0.7048	650.90	31.97	768.70	39.26	1126.26	102.88	650.90	31.97
1BTB1110-335	0.0676	5.2390	0.9917	6.6734	0.1063	4.3012	0.6199	651.09	26.64	699.58	33.75	856.61	108.80	651.09	26.64
1BTB1110-270	0.1835	12.9455	2.7082	14.8490	0.1069	7.3957	0.4899	654.92	46.06	1330.71	110.55	2684.94	214.01	654.92	46.06
1BTB1110-374	0.0660	15.8691	0.9774	22.3486	0.1074	15.7476	0.7041	657.49	98.44	692.29	112.63	804.92	332.24	657.49	98.44
1BTB1110-281	0.0743	6.2575	1.1013	8.0434	0.1075	5.2384	0.6287	658.06	32.77	753.99	42.83	1048.40	126.15	658.06	32.77
1BTB1110-029	0.0958	11.1334	1.4247	17.2307	0.1077	13.2665	0.7633	659.59	83.18	899.33	103.16	1544.47	209.28	659.59	83.18
1BTB1110-087	0.0592	6.5741	0.8868	7.5043	0.1086	3.6777	0.4823	664.35	23.22	644.67	35.83	574.88	142.92	664.35	23.22
1BTB1110-261	0.0687	10.2694	1.0304	13.5544	0.1088	8.9371	0.6527	665.49	56.51	719.13	69.96	888.47	212.22	665.49	56.51
1BTB1110-267	0.0714	7.7513	1.0783	10.4403	0.1095	7.2263	0.6703	669.86	45.98	742.80	55.05	967.59	158.23	669.86	45.98
1BTB1110-034	0.1102	7.9233	1.7042	8.8051	0.1121	4.3652	0.4398	684.82	28.36	1010.10	56.40	1802.58	144.14	684.82	28.36
1BTB1110-361	0.0937	4.2903	1.4500	5.8338	0.1121	4.0202	0.6777	685.10	26.13	909.85	35.07	1501.89	81.10	685.10	26.13
1BTB1110-112	0.0746	28.0156	1.1550	28.5775	0.1123	5.6845	0.1973	685.94	36.99	779.62	156.76	1056.67	564.09	685.94	36.99
1BTB1110-319	0.1230	14.6168	1.9215	21.0130	0.1132	15.0823	0.7184	691.25	98.87	1088.60	141.24	2000.30	259.69	691.25	98.87
1BTB1110-330	0.1226	9.7908	1.9181	13.3604	0.1134	9.1456	0.6804	692.23	60.03	1087.41	89.40	1994.44	174.07	692.23	60.03
1BTB1110-072	0.0788	5.1296	1.2351	12.0759	0.1137	10.9607	0.9053	693.94	72.11	816.67	67.86	1166.23	101.62	693.94	72.11
1BTB1110-338	0.0692	5.1525	1.0983	6.2347	0.1150	3.7061	0.5639	701.87	24.65	752.51	33.15	904.15	106.22	701.87	24.65
1BTB1110-284	0.0930	4.3652	1.4828	5.6984	0.1156	4.0313	0.6457	705.09	26.93	923.39	34.57	1487.12	82.68	705.09	26.93

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB1110, LATE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.587990, LONGITUDE: -70.081490 REJECTED															
1BTB1110-276	0.0643	12.8208	1.2198	14.3945	0.1375	6.7932	0.4550	830.28	52.92	809.69	80.48	751.63	270.71	751.63	270.71
1BTB1110-229	0.2947	6.0469	5.0885	7.4049	0.1251	4.5013	0.5780	759.86	32.27	1834.20	62.92	3442.85	93.88	759.86	32.27
1BTB1110-235	0.0952	7.3117	1.6913	8.2717	0.1287	3.6412	0.4685	780.42	26.76	1005.24	52.83	1532.62	137.66	780.42	26.76
1BTB1110-144	0.0791	12.3953	1.4198	13.5623	0.1301	5.5126	0.4058	788.42	40.91	897.30	80.97	1174.44	245.25	788.42	40.91
1BTB1110-303	0.0853	8.3073	1.5359	11.4842	0.1305	7.7667	0.6906	790.50	57.78	944.88	70.74	1322.54	160.92	790.50	57.78
1BTB1110-033	0.0973	5.5647	1.7618	7.0623	0.1313	4.5792	0.6166	795.17	34.26	1031.53	45.78	1572.22	104.23	795.17	34.26
1BTB1110-279	0.1191	11.4744	2.1657	15.8326	0.1318	11.0602	0.6891	798.11	83.03	1170.10	110.41	1942.33	205.24	798.11	83.03
1BTB1110-332	0.0751	8.9887	2.0872	11.5993	0.2013	7.3991	0.6321	1182.24	79.93	1144.62	79.79	1072.07	180.57	1072.07	180.57
1BTB1110-179	0.0760	16.8963	1.7466	23.9668	0.1666	16.9962	0.7092	993.16	156.47	1025.90	155.97	1094.75	338.27	1094.75	338.27
1BTB1110-218	0.0784	4.4339	1.5850	6.6125	0.1465	5.1287	0.7426	881.46	42.25	964.33	41.19	1156.66	87.96	1156.66	87.96
1BTB1110-329	0.0788	16.5461	1.9386	23.6867	0.1783	16.9861	0.7156	1057.75	165.74	1094.50	159.98	1166.45	327.76	1166.45	327.76
1BTB1110-360	0.0793	11.1632	1.5509	16.4231	0.1417	12.0681	0.7335	854.30	96.57	950.86	101.72	1179.59	220.71	1179.59	220.71
1BTB1110-377	0.0794	6.8674	1.5283	8.5271	0.1394	5.0899	0.5928	841.54	40.16	941.82	52.38	1182.27	135.72	1182.27	135.72
1BTB1110-132	0.0801	2.4286	1.5520	3.4432	0.1405	2.1872	0.7131	847.43	17.37	951.30	21.27	1198.51	47.88	1198.51	47.88
1BTB1110-318	0.0817	18.3707	1.5535	21.0914	0.1378	10.3413	0.4913	832.32	80.75	951.88	131.01	1237.75	360.16	1237.75	360.16
1BTB1110-156	0.0840	9.9320	1.5647	13.8808	0.1350	9.8276	0.6987	816.27	75.35	956.32	86.19	1292.53	193.21	1292.53	193.21
1BTB1110-213	0.0866	7.6520	2.0576	9.5689	0.1722	5.9371	0.6008	1024.33	56.23	1134.83	65.47	1351.11	147.64	1351.11	147.64
1BTB1110-321	0.0874	7.8179	1.9656	11.5365	0.1630	8.5275	0.7354	973.50	77.05	1103.81	77.79	1368.67	150.47	1368.67	150.47
1BTB1110-126	0.0874	5.2970	1.9518	7.4318	0.1618	5.0990	0.7016	967.04	45.79	1099.08	49.94	1369.32	101.94	1369.32	101.94
1BTB1110-136	0.0887	7.0560	2.1842	8.6133	0.1785	4.8048	0.5737	1058.94	46.92	1176.00	60.06	1396.88	135.28	1396.88	135.28
1BTB1110-025	0.0897	10.1271	2.0612	13.1330	0.1665	8.5424	0.6368	992.73	78.60	1136.01	90.02	1419.47	193.57	1419.47	193.57
1BTB1110-368	0.0931	21.1686	2.1787	23.2805	0.1696	9.7552	0.4162	1009.81	91.19	1174.26	163.42	1489.59	400.81	1489.59	400.81
1BTB1110-084	0.0933	20.3267	2.6591	20.9055	0.2065	4.9190	0.2337	1210.27	54.28	1317.18	155.46	1494.41	384.63	1494.41	384.63
1BTB1110-206	0.0936	7.4058	2.1393	9.6872	0.1656	6.5298	0.6453	988.07	59.82	1161.58	67.13	1499.77	140.03	1499.77	140.03
1BTB1110-188	0.0945	3.4222	2.5902	5.6825	0.1986	4.8917	0.8006	1167.95	52.26	1297.88	41.65	1518.12	64.55	1518.12	64.55
1BTB1110-180	0.0965	4.9333	2.6670	6.6361	0.2002	4.6241	0.6694	1176.59	49.73	1319.37	49.04	1557.93	92.57	1557.93	92.57
1BTB1110-073	0.0971	15.3878	2.6088	15.8598	0.1947	3.9204	0.2422	1146.73	41.19	1303.13	116.93	1569.57	288.32	1569.57	288.32
1BTB1110-342	0.1002	6.0418	2.3526	7.0609	0.1702	3.8338	0.5181	1013.18	35.95	1228.33	50.35	1626.96	112.37	1626.96	112.37
1BTB1110-186	0.1015	8.6628	2.1684	10.1878	0.1548	5.6655	0.5271	927.86	48.96	1170.97	70.91	1651.80	160.57	1651.80	160.57
1BTB1110-013	0.1033	3.5112	2.8379	5.2492	0.1991	4.1216	0.7445	1170.44	44.12	1365.62	39.43	1683.87	64.82	1683.87	64.82
1BTB1110-214	0.1068	10.7728	2.7605	12.0122	0.1873	5.5209	0.4427	1107.00	56.16	1344.92	89.77	1745.03	197.36	1745.03	197.36
1BTB1110-154	0.1088	14.8044	2.6847	16.0656	0.1788	6.4408	0.3886	1060.39	62.98	1324.26	119.40	1779.70	270.08	1779.70	270.08
1BTB1110-031	0.1116	12.7182	2.7395	15.0790	0.1779	8.2270	0.5373	1055.40	80.10	1339.25	112.63	1825.79	230.69	1825.79	230.69
1BTB1110-315	0.1134	21.5509	2.3048	23.9210	0.1473	10.3610	0.4340	885.97	85.77	1213.77	170.99	1853.89	389.44	1853.89	389.44
1BTB1110-018	0.1139	3.9050	2.9520	4.5289	0.1878	2.8771	0.5196	1109.33	29.32	1395.37	34.36	1862.74	70.49	1862.74	70.49
1BTB1110-260	0.1154	17.2888	2.3004	18.3744	0.1445	6.3502	0.3387	869.92	51.68	1212.41	130.76	1885.82	311.26	1885.82	311.26
1BTB1110-378	0.1208	8.5087	3.4122	10.1051	0.2046	5.4837	0.5394	1200.14	60.05	1507.21	79.51	1968.32	151.74	1968.32	151.74
1BTB1110-397	0.1210	3.6919	4.1221	5.3620	0.2469	3.8270	0.7253	1422.62	48.86	1658.69	43.84	1970.30	65.83	1970.30	65.83
1BTB1110-211	0.1216	12.4974	3.5610	14.8185	0.2122	8.1020	0.5374	1240.55	91.44	1540.88	118.00	1979.87	222.58	1979.87	222.58
1BTB1110-017	0.1226	5.2591	2.5411	5.9757	0.1502	3.3265	0.4808	902.05	28.00	1283.88	43.57	1994.24	93.51	1994.24	93.51
1BTB1110-369	0.1248	4.0546	3.4177	5.8222	0.1985	4.3300	0.7181	1167.05	46.22	1508.47	45.77	2025.55	71.82	2025.55	71.82
1BTB1110-114	0.1251	12.4658	3.4547	22.2693	0.2002	18.4673	0.8286	1176.34	198.63	1516.94	177.13	2029.80	220.71	2029.80	220.71
1BTB1110-357	0.1308	13.1113	3.5621	16.9263	0.1973	10.7448	0.6324	1161.02	114.17	1541.12	134.98	2108.51	230.03	2108.51	230.03
1BTB1110-023	0.1316	11.2309	4.2829	15.4617	0.2358	10.7111	0.6873	1365.00	131.78	1690.07	127.95	2119.42	196.79	2119.42	196.79
1BTB1110-371	0.1327	4.8934	4.1100	7.7023	0.2245	5.9860	0.7723	1305.49	70.74	1656.29	62.98	2133.41	85.61	2133.41	85.61
1BTB1110-264	0.1344	8.4326	2.9196	11.3544	0.1574	7.7086	0.6697	942.59	67.60	1387.00	86.08	2155.83	147.15	2155.83	147.15
1BTB1110-271	0.1349	5.4381	5.4432	7.4820	0.2924	5.3100	0.6872	1653.27	77.44	1891.69	64.27	2162.94	94.82	2162.94	94.82
1BTB1110-077	0.1368	14.2638	4.5818	14.5796	0.2427	3.2157	0.2074	1400.92	40.49	1745.95	122.10	2187.15	248.03	2187.15	248.03
1BTB1110-165	0.1401	4.6383	2.7038	5.4458	0.1399	2.8447	0.5240	843.99	22.50	1329.51	40.39	2228.15	80.31	2228.15	80.31
1BTB1110-212	0.1433	3.7637	4.9281	5.0173	0.2492	3.6395	0.6641	1434.36	46.80	1807.08	42.38	2267.50	64.88	2267.50	64.88

Analysis ID	206Pb* 207Pb*	± (%)	207Pb* 235Pb*	± (%)	206Pb* 238U*	± (%)	Error Corr.	206Pb* 238U*	± (Ma)	207Pb* 235U*	± (Ma)	206Pb* 207Pb*	± (Ma)	Best age (Ma)	± (Ma)
1BTB1110, LATE EOCENE?, MUÑANI FORMATION, LATITUDE: -14.587990, LONGITUDE: -70.081490 REJECTED															
1BTB1110-169	0.1434	15.1536	4.2952	16.5085	0.2170	6.5457	0.3967	1266.25	75.26	1692.45	136.79	2268.78	261.18	2268.78	261.18
1BTB1110-298	0.1459	4.4206	5.0009	6.7060	0.2483	4.8759	0.7524	1429.84	62.53	1819.47	56.80	2298.70	75.97	2298.70	75.97
1BTB1110-219	0.1511	6.6790	4.2954	11.2361	0.2060	9.1585	0.8042	1207.58	100.86	1692.48	92.80	2358.22	114.09	2358.22	114.09
1BTB1110-004	0.1544	2.1126	3.0478	3.8183	0.1430	3.1719	0.8330	861.56	25.58	1419.69	29.20	2395.37	35.95	2395.37	35.95
1BTB1110-043	0.1614	10.0512	7.7035	16.8697	0.3460	13.6391	0.8031	1915.54	226.11	2197.01	152.75	2469.91	169.71	2469.91	169.71
1BTB1110-248	0.1680	4.4112	4.8740	5.5257	0.2103	3.1715	0.6029	1230.16	35.52	1797.78	46.59	2537.66	73.97	2537.66	73.97
1BTB1110-064	0.1704	11.6321	4.3180	12.9198	0.1837	5.5975	0.4352	1087.07	56.00	1696.81	106.91	2561.41	194.60	2561.41	194.60
1BTB1110-307	0.1823	5.8550	4.7370	7.1864	0.1883	4.0194	0.5802	1112.30	41.06	1773.80	60.32	2673.54	96.90	2673.54	96.90
1BTB1110-019	0.2303	8.7915	8.6345	12.7186	0.2716	9.3535	0.7227	1549.07	128.81	2300.20	116.24	3054.37	140.69	3054.37	140.69
1BTB1110-055	0.3064	16.1700	7.3963	17.3300	0.1749	6.2974	0.3597	1039.26	60.45	2160.53	156.23	3503.06	249.90	3503.06	249.90
1BTB1110-370	0.4388	7.5040	11.5538	9.3188	0.1908	5.6935	0.5932	1125.47	58.80	2568.94	87.30	4047.81	111.89	4047.81	111.89
1BTB1110-390	0.4530	15.9199	23.7659	17.7338	0.3801	7.8514	0.4406	2076.65	139.41	3258.84	174.49	4095.23	236.63	4095.23	236.63
1BTB1110-133	0.4957	52.6498	38.3652	59.0508	0.5609	26.7173	0.4528	2870.19	620.79	3729.38	665.81	4228.58	776.46	4228.58	776.46
1BTB1110-382	0.6655	26.9161	37.4592	32.5848	0.4078	18.3751	0.5636	2204.81	343.45	3705.74	333.78	4658.07	388.94	4658.07	388.94

Appendix 2: Mixing Model Results

Top-down Mixture Results

Cross-correlation Coefficient

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
1BTB285	0.766	0.016	Huancané	0.0257	0.0324
			Hualhuani	0.2667	0.1743
			Muni	0.0814	0.0977
			Labra	0.0824	0.1003
			Puente	0.058	0.0775
			Mitu	0.0668	0.0786
			Ambo	0.0285	0.047
			Lampa	0.0554	0.0659
			Cabanillas	0.0721	0.0759
			San Gaban	0.0094	0.0126
			Ollantaytambo	0.1971	0.0784
			Sandia	0.0424	0.0492
			Calapuja	0.014	0.0201
1BTB375	0.683	0.006	Huancané	0.0314	0.0386
			Hualhuani	0.0711	0.073
			Muni	0.2273	0.1684
			Labra	0.0722	0.0859
			Puente	0.0372	0.0446
			Mitu	0.096	0.1081
			Ambo	0.0747	0.0892
			Lampa	0.1532	0.1337
			Cabanillas	0.0415	0.0446
			San Gaban	0.009	0.0095
			Ollantaytambo	0.1415	0.0638
			Sandia	0.0203	0.024
			Calapuja	0.0246	0.0245
1BTB643	0.901	0.005	Huancané	0.1515	0.1442
			Hualhuani	0.361	0.1475
			Muni	0.055	0.0651
			Labra	0.0948	0.1043
			Puente	0.0645	0.0692
			Mitu	0.049	0.0571
			Ambo	0.0823	0.0817

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Lampa	0.0354	0.0444
1BTB643 continued…			Cabanillas	0.027	0.0308
			San Gaban	0.0185	0.0209
			Ollantaytambo	0.0213	0.0247
			Sandia	0.0193	0.0217
			Calapuja	0.0204	0.0226
1BTB1040	0.834	0.011	Huancané	0.029	0.0512
			Hualhuani	0.6813	0.1568
			Muni	0.0303	0.0525
			Labra	0.0456	0.0974
			Puente	0.051	0.0896
			Mitu	0.0242	0.0321
			Ambo	0.0244	0.0389
			Lampa	0.0232	0.0365
			Cabanillas	0.0291	0.0421
			San Gaban	0.0112	0.0151
			Ollantaytambo	0.0288	0.0379
			Sandia	0.0123	0.0181
			Calapuja	0.0098	0.0133
1BTB1110	0.871	0.005	Huancané	0.192	0.1623
			Hualhuani	0.274	0.1468
			Muni	0.0393	0.0462
			Labra	0.113	0.1146
			Puente	0.0436	0.0576
			Mitu	0.0482	0.053
			Ambo	0.1044	0.1047
			Lampa	0.0487	0.0562
			Cabanillas	0.0223	0.0273
			San Gaban	0.0237	0.0263
			Ollantaytambo	0.0132	0.0138
			Sandia	0.0673	0.0696
			Calapuja	0.0102	0.0122
1NAC1.2	0.874	0.003	Huancané	0.1148	0.101
			Hualhuani	0.0997	0.0918
			Muni	0.2229	0.1198
			Labra	0.1417	0.1258

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Puente	0.0681	0.061
			Mitu	0.0803	0.0679
1NAC1.2 continued…			Ambo	0.0416	0.0517
			Lampa	0.0872	0.0745
			Cabanillas	0.0246	0.0253
			San Gaban	0.0249	0.0231
			Ollantaytambo	0.038	0.033
			Sandia	0.0288	0.0286
			Calapuja	0.0275	0.024
20160813-06	0.879	0.005	Huancané	0.1044	0.1214
			Hualhuani	0.5043	0.1371
			Muni	0.084	0.0806
			Labra	0.0508	0.0664
			Puente	0.0409	0.0542
			Mitu	0.0356	0.0437
			Ambo	0.036	0.045
			Lampa	0.0371	0.0449
			Cabanillas	0.0217	0.03
			San Gaban	0.0198	0.0244
			Ollantaytambo	0.0184	0.0215
			Sandia	0.0187	0.0227
			Calapuja	0.0283	0.0316
2NAC265	0.776	0.005	Huancané	0.2327	0.157
			Hualhuani	0.1404	0.1143
			Muni	0.0355	0.0421
			Labra	0.0484	0.0542
			Puente	0.054	0.0592
			Mitu	0.166	0.1079
			Ambo	0.0338	0.0384
			Lampa	0.06	0.0575
			Cabanillas	0.0209	0.0193
			San Gaban	0.0221	0.021
			Ollantaytambo	0.0405	0.0317
			Sandia	0.0536	0.0563
			Calapuja	0.0922	0.061
20160813-07	0.741	0.004	Huancané	0.0453	0.0514

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Hualhuani	0.0403	0.045
			Muni	0.1193	0.1106
			Labra	0.405	0.1496
20160813-07 continued…			Puente	0.0275	0.0375
			Mitu	0.0958	0.0833
			Ambo	0.0466	0.0461
			Lampa	0.059	0.0629
			Cabanillas	0.0205	0.0272
			San Gaban	0.0173	0.0189
			Ollantaytambo	0.0238	0.0266
			Sandia	0.0477	0.0525
			Calapuja	0.0519	0.0454
3NAC658	0.846	0.005	Huancané	0.1199	0.1231
			Hualhuani	0.1698	0.1368
			Muni	0.2234	0.1389
			Labra	0.1342	0.1308
			Puente	0.0545	0.0631
			Mitu	0.0853	0.0742
			Ambo	0.0636	0.0726
			Lampa	0.0368	0.0477
			Cabanillas	0.0204	0.0219
			San Gaban	0.0168	0.0179
			Ollantaytambo	0.0165	0.0168
			Sandia	0.017	0.0191
			Calapuja	0.0419	0.0408
5NAC99.1	0.805	0.01	Huancané	0.1002	0.1305
			Hualhuani	0.2925	0.1992
			Muni	0.0354	0.0506
			Labra	0.1381	0.1711
			Puente	0.1152	0.1407
			Mitu	0.0278	0.0376
			Ambo	0.0347	0.0462
			Lampa	0.0473	0.065
			Cabanillas	0.0195	0.0226
			San Gaban	0.009	0.012
			Ollantaytambo	0.0276	0.0329
			Sandia	0.0158	0.0169

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Calapuja	0.1368	0.0642
5NAC658	0.847	0.004	Huancané	0.2109	0.147
			Hualhuani	0.0746	0.0745
5NAC658 continued…			Muni	0.1208	0.0941
			Labra	0.1894	0.1468
			Puente	0.0509	0.0606
			Mitu	0.0344	0.037
			Ambo	0.0848	0.0769
			Lampa	0.0907	0.0764
			Cabanillas	0.0181	0.0198
			San Gaban	0.0223	0.0241
			Ollantaytambo	0.0617	0.0469
			Sandia	0.0154	0.0168
			Calapuja	0.0259	0.0272
140816-03	0.837	0.005	Huancané	0.2894	0.1635
			Hualhuani	0.069	0.0811
			Muni	0.037	0.0436
			Labra	0.0721	0.0884
			Puente	0.036	0.0448
			Mitu	0.1872	0.1125
			Ambo	0.0662	0.0784
			Lampa	0.0557	0.0666
			Cabanillas	0.0197	0.0235
			San Gaban	0.0223	0.0208
			Ollantaytambo	0.0221	0.0226
			Sandia	0.0965	0.0795
			Calapuja	0.0268	0.0274
5SPUp11	0.82	0.006	Huancané	0.1595	0.1275
			Hualhuani	0.0463	0.0535
			Muni	0.0762	0.0725
			Labra	0.0578	0.0658
			Puente	0.0383	0.0377
			Mitu	0.1115	0.097
			Ambo	0.1187	0.1068
			Lampa	0.0587	0.0674
			Cabanillas	0.0165	0.017

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			San Gaban	0.0466	0.0384
			Ollantaytambo	0.0268	0.0263
			Sandia	0.0288	0.0293
			Calapuja	0.2142	0.0685
4SPU155	0.75	0.008	Huancané	0.1493	0.1356
			Hualhuani	0.0505	0.0603
			Muni	0.0347	0.0432
			Labra	0.0428	0.0527
			Puente	0.0414	0.0494
			Mitu	0.1223	0.1003
			Ambo	0.0441	0.0537
			Lampa	0.0933	0.0973
			Cabanillas	0.017	0.0209
			San Gaban	0.0715	0.0499
			Ollantaytambo	0.0184	0.0177
			Sandia	0.0583	0.061
			Calapuja	0.2564	0.0741
1SPU93	0.811	0.007	Huancané	0.0822	0.0946
			Hualhuani	0.0494	0.0573
			Muni	0.0836	0.09
			Labra	0.1106	0.1174
			Puente	0.1517	0.1278
			Mitu	0.1046	0.0962
			Ambo	0.0642	0.0645
			Lampa	0.0546	0.0683
			Cabanillas	0.0311	0.0305
			San Gaban	0.0105	0.0115
			Ollantaytambo	0.0125	0.0146
			Sandia	0.0396	0.0465
			Calapuja	0.2054	0.0602
100816-01	0.728	0.008	Huancané	0.1576	0.1375
			Hualhuani	0.0606	0.0702
			Muni	0.0336	0.0381
			Labra	0.0638	0.0634
			Puente	0.0514	0.0517
			Mitu	0.1259	0.1073
			Ambo	0.033	0.0357

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Lampa	0.1216	0.1085
			Cabanillas	0.0177	0.0199
			San Gaban	0.0629	0.0479
			Ollantaytambo	0.0215	0.0241
			Sandia	0.0315	0.0354
			Calapuja	0.219	0.0697
2SPU249	0.919	0.005	Huancané	0.1659	0.1502
			Hualhuani	0.2982	0.18
			Muni	0.075	0.073
			Labra	0.0871	0.1054
			Puente	0.1314	0.128
			Mitu	0.0233	0.0304
			Ambo	0.0942	0.093
			Lampa	0.0246	0.0353
			Cabanillas	0.0242	0.0305
			San Gaban	0.0234	0.0223
			Ollantaytambo	0.0185	0.022
			Sandia	0.0163	0.0216
			Calapuja	0.0179	0.0196
3SPU112	0.704	0.004	Huancané	0.2167	0.1651
			Hualhuani	0.179	0.1397
			Muni	0.0676	0.0682
			Labra	0.2054	0.1762
			Puente	0.0677	0.0792
			Mitu	0.0864	0.0747
			Ambo	0.0243	0.0318
			Lampa	0.0323	0.0449
			Cabanillas	0.012	0.0154
			San Gaban	0.0291	0.028
			Ollantaytambo	0.026	0.0281
			Sandia	0.013	0.0148
			Calapuja	0.0403	0.0436
130618-02	0.728	0.006	Huancané	0.1137	0.1166
			Hualhuani	0.1896	0.1492
			Muni	0.1692	0.1394
			Labra	0.1227	0.1475
			Puente	0.0521	0.064
			Mitu	0.053	0.0667

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Ambo	0.0585	0.0618
			Lampa	0.0523	0.0575
			Cabanillas	0.0134	0.0175
			San Gaban	0.0177	0.0167
			Ollantaytambo	0.0155	0.0187
			Sandia	0.0138	0.0183
			Calapuja	0.1286	0.064
120618-01	0.901	0.005	Huancané	0.0279	0.037
			Hualhuani	0.0808	0.0792
			Muni	0.2909	0.1313
			Labra	0.1363	0.1374
			Puente	0.0414	0.0475
			Mitu	0.1177	0.0953
			Ambo	0.0779	0.0797
			Lampa	0.0843	0.0766
			Cabanillas	0.0439	0.0445
			San Gaban	0.011	0.0108
			Ollantaytambo	0.0152	0.0155
			Sandia	0.046	0.0488
			Calapuja	0.0266	0.0307

Kuiper V Statistic

Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
1BTB285	0.178	0.006	Huancané	0.0187	0.0277
			Hualhuani	0.2288	0.214
			Muni	0.0295	0.0479
			Labra	0.0459	0.0636
			Puente	0.0251	0.0417
			Mitu	0.0419	0.0614
			Ambo	0.0133	0.0209
			Lampa	0.068	0.0907
			Cabanillas	0.3842	0.2748
			San Gaban	0.0129	0.0164
			Ollantaytambo	0.0871	0.0941
			Sandia	0.0347	0.0449
			Calapuja	0.01	0.0172

Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
1BTB375	0.157	0.004	Huancané	0.022	0.0288
			Hualhuani	0.0932	0.0938
			Muni	0.0387	0.0562
			Labra	0.0491	0.0662
			Puente	0.029	0.0443
			Mitu	0.1079	0.1345
			Ambo	0.0201	0.0307
			Lampa	0.3594	0.214
1BTB375 continued…			Cabanillas	0.1357	0.1372
			San Gaban	0.017	0.023
			Ollantaytambo	0.0731	0.1033
			Sandia	0.0392	0.0551
			Calapuja	0.0156	0.0191
1BTB643	0.088	0.005	Huancané	0.0736	0.0928
			Hualhuani	0.4296	0.1121
			Muni	0.0445	0.0589
			Labra	0.0472	0.0529
			Puente	0.0374	0.0511
			Mitu	0.04	0.0509
			Ambo	0.0517	0.0625
			Lampa	0.0733	0.0916
			Cabanillas	0.0538	0.0631
			San Gaban	0.0393	0.0422
			Ollantaytambo	0.0688	0.0784
			Sandia	0.0211	0.0269
			Calapuja	0.0195	0.0216
1BTB1040	0.175	0.006	Huancané	0.0246	0.0416
			Hualhuani	0.6668	0.1623
			Muni	0.0362	0.0579
			Labra	0.0379	0.0789
			Puente	0.0375	0.0712
			Mitu	0.0205	0.0308
			Ambo	0.0234	0.039
			Lampa	0.0217	0.0301
			Cabanillas	0.0678	0.0945
			San Gaban	0.013	0.0172
			Ollantaytambo	0.0293	0.0399
			Sandia	0.0132	0.0224

Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Calapuja	0.0082	0.0129
1BTB1110	0.126	0.005	Huancané	0.0664	0.0896
			Hualhuani	0.4761	0.1301
			Muni	0.0306	0.0445
			Labra	0.0366	0.0567
			Puente	0.0382	0.0499
			Mitu	0.0367	0.046
			Ambo	0.0265	0.0349
1BTB1110 continued…			Lampa	0.0861	0.0932
			Cabanillas	0.0418	0.0645
			San Gaban	0.0515	0.0503
			Ollantaytambo	0.0632	0.077
			Sandia	0.0292	0.0431
			Calapuja	0.017	0.0265
1NAC1.2	0.114	0.004	Huancané	0.0284	0.0341
			Hualhuani	0.2069	0.14
			Muni	0.0538	0.0669
			Labra	0.0508	0.0614
			Puente	0.044	0.0523
			Mitu	0.1251	0.1015
			Ambo	0.0302	0.0331
			Lampa	0.2421	0.1863
			Cabanillas	0.0394	0.0489
			San Gaban	0.0323	0.032
			Ollantaytambo	0.0781	0.0636
			Sandia	0.047	0.0564
			Calapuja	0.0217	0.0258
20160813-06	0.131	0.005	Huancané	0.0694	0.095
			Hualhuani	0.4984	0.1309
			Muni	0.0382	0.0456
			Labra	0.0282	0.0327
			Puente	0.036	0.0536
			Mitu	0.0354	0.0539
			Ambo	0.0262	0.0354
			Lampa	0.0668	0.081
			Cabanillas	0.0694	0.0946
			San Gaban	0.0355	0.036

Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Ollantaytambo	0.0524	0.0632
			Sandia	0.0217	0.0316
			Calapuja	0.0224	0.0296
2NAC265	0.133	0.005	Huancané	0.0454	0.0653
			Hualhuani	0.0423	0.0572
			Muni	0.029	0.0364
			Labra	0.023	0.0333
			Puente	0.0223	0.0355
			Mitu	0.5259	0.2092
2NAC265 continued…			Ambo	0.0219	0.0339
			Lampa	0.101	0.132
			Cabanillas	0.0265	0.0321
			San Gaban	0.0231	0.0276
			Ollantaytambo	0.0695	0.0812
			Sandia	0.0476	0.0573
			Calapuja	0.0227	0.0288
20160813-07	0.125	0.002	Huancané	0.0493	0.0731
			Hualhuani	0.0408	0.051
			Muni	0.0298	0.0396
			Labra	0.0397	0.0549
			Puente	0.0362	0.0482
			Mitu	0.2427	0.2054
			Ambo	0.0136	0.0193
			Lampa	0.3305	0.1819
			Cabanillas	0.0257	0.0354
			San Gaban	0.0164	0.023
			Ollantaytambo	0.0218	0.033
			Sandia	0.1102	0.1184
			Calapuja	0.0433	0.0522
3NAC658	0.125	0.004	Huancané	0.0367	0.0464
			Hualhuani	0.3506	0.1309
			Muni	0.0598	0.0686
			Labra	0.0617	0.0831
			Puente	0.0381	0.0504
			Mitu	0.1251	0.134
			Ambo	0.0365	0.0426
			Lampa	0.1159	0.1207

Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Cabanillas	0.0405	0.0453
			San Gaban	0.0464	0.0423
			Ollantaytambo	0.0275	0.0312
			Sandia	0.0358	0.0399
			Calapuja	0.0253	0.0303
5NAC99.1	0.117	0.004	Huancané	0.0778	0.0969
			Hualhuani	0.2633	0.1418
			Muni	0.0476	0.057
			Labra	0.0501	0.0689
			Puente	0.0588	0.0771
5NAC99.1 continued…			Mitu	0.0796	0.0733
			Ambo	0.0286	0.0388
			Lampa	0.1727	0.1641
			Cabanillas	0.0308	0.0361
			San Gaban	0.0265	0.0336
			Ollantaytambo	0.0776	0.074
			Sandia	0.0156	0.0187
			Calapuja	0.0709	0.0695
5NAC658	0.118	0.004	Huancané	0.0381	0.0442
			Hualhuani	0.2413	0.164
			Muni	0.0404	0.0614
			Labra	0.045	0.0597
			Puente	0.0346	0.0504
			Mitu	0.097	0.1101
			Ambo	0.0313	0.0375
			Lampa	0.2437	0.177
			Cabanillas	0.0479	0.0525
			San Gaban	0.0427	0.0455
			Ollantaytambo	0.0797	0.072
			Sandia	0.0323	0.0405
			Calapuja	0.026	0.0314
140816-03	0.105	0.004	Huancané	0.0628	0.0861
			Hualhuani	0.0443	0.0522
			Muni	0.0279	0.0375
			Labra	0.0349	0.0412
			Puente	0.0274	0.0416
			Mitu	0.3221	0.191

Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Ambo	0.0418	0.0573
			Lampa	0.2283	0.1877
			Cabanillas	0.0304	0.036
			San Gaban	0.035	0.0332
			Ollantaytambo	0.0703	0.0813
			Sandia	0.0516	0.0711
			Calapuja	0.0232	0.0267
5SPUp11	0.127	0.006	Huancané	0.0471	0.0669
			Hualhuani	0.0279	0.0395
			Muni	0.0315	0.0492
			Labra	0.0254	0.0327
5SPUp11 continued…			Puente	0.0308	0.0387
			Mitu	0.2385	0.1763
			Ambo	0.0318	0.0433
			Lampa	0.2038	0.2403
			Cabanillas	0.0258	0.0334
			San Gaban	0.1265	0.0771
			Ollantaytambo	0.063	0.065
			Sandia	0.0504	0.0739
			Calapuja	0.0974	0.0858
4SPU155	0.181	0.009	Huancané	0.0348	0.051
			Hualhuani	0.0581	0.0861
			Muni	0.0323	0.0448
			Labra	0.0329	0.0463
			Puente	0.0355	0.0453
			Mitu	0.3414	0.1801
			Ambo	0.0273	0.0426
			Lampa	0.1039	0.152
			Cabanillas	0.0178	0.0279
			San Gaban	0.1511	0.0762
			Ollantaytambo	0.04	0.0602
			Sandia	0.0626	0.0955
			Calapuja	0.0625	0.0799
1SPU93	0.126	0.005	Huancané	0.037	0.0432
			Hualhuani	0.0338	0.05
			Muni	0.0281	0.0314
			Labra	0.0343	0.0439

Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Puente	0.0345	0.0437
			Mitu	0.379	0.1686
			Ambo	0.034	0.0413
			Lampa	0.1222	0.1538
			Cabanillas	0.0272	0.0307
			San Gaban	0.0674	0.0602
			Ollantaytambo	0.0485	0.0653
			Sandia	0.0348	0.0448
			Calapuja	0.1193	0.0855
100816-01	0.177	0.005	Huancané	0.0219	0.0378
			Hualhuani	0.021	0.0282
			Muni	0.0141	0.023
100816-01 continued…			Labra	0.0146	0.0264
			Puente	0.0149	0.02
			Mitu	0.2698	0.2273
			Ambo	0.0135	0.02
			Lampa	0.4288	0.3574
			Cabanillas	0.0157	0.0266
			San Gaban	0.0481	0.059
			Ollantaytambo	0.0445	0.0602
			Sandia	0.029	0.0405
			Calapuja	0.064	0.0798
2SPU249	0.1	0.004	Huancané	0.046	0.0669
			Hualhuani	0.4563	0.1564
			Muni	0.0792	0.0983
			Labra	0.0378	0.0611
			Puente	0.0682	0.0871
			Mitu	0.0335	0.0438
			Ambo	0.05	0.0649
			Lampa	0.0438	0.0509
			Cabanillas	0.0498	0.0707
			San Gaban	0.0366	0.0343
			Ollantaytambo	0.067	0.0685
			Sandia	0.015	0.0214
			Calapuja	0.0167	0.0223
3SPU112	0.157	0.004	Huancané	0.0484	0.0656
			Hualhuani	0.2725	0.163

Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Muni	0.0334	0.0514
			Labra	0.096	0.1258
			Puente	0.0557	0.0773
			Mitu	0.1982	0.1431
			Ambo	0.0243	0.0336
			Lampa	0.0949	0.1413
			Cabanillas	0.0124	0.0173
			San Gaban	0.0315	0.0385
			Ollantaytambo	0.0304	0.0367
			Sandia	0.066	0.0816
			Calapuja	0.0363	0.0474
130618-02	0.157	0.005	Huancané	0.0409	0.0569
			Hualhuani	0.1067	0.12
130618-02 continued…			Muni	0.0452	0.0548
			Labra	0.0317	0.0447
			Puente	0.0331	0.0437
			Mitu	0.2231	0.1508
			Ambo	0.0185	0.0258
			Lampa	0.3378	0.2429
			Cabanillas	0.0303	0.0437
			San Gaban	0.0351	0.0351
			Ollantaytambo	0.0198	0.0294
			Sandia	0.0519	0.0594
			Calapuja	0.0257	0.0342
120618-01	0.073	0.004	Huancané	0.0618	0.0735
			Hualhuani	0.1775	0.1224
			Muni	0.2005	0.1558
			Labra	0.0712	0.0749
			Puente	0.0399	0.0521
			Mitu	0.087	0.0727
			Ambo	0.0633	0.0642
			Lampa	0.1118	0.0784
			Cabanillas	0.0688	0.078
			San Gaban	0.027	0.0253
			Ollantaytambo	0.0363	0.0348
			Sandia	0.0318	0.0338
			Calapuja	0.0231	0.0271

Bottom-up Mixture Results

Sample Name	Cross-correlation Value (R^2)	Kuiper V statistic	Source Name	Relative Contributions
1BTB285	0.938	0.068	Source 1	0.046624
			Source 2	0.359538
			Source 3	0.032605
			Source 4	0.140765
			Source 5	0.286709
			Source 6	0.133759
1BTB375	0.830	0.096	Source 1	0.038356
1BTB375 continued…			Source 2	0.272759
			Source 3	0.164603
			Source 4	0.190093
			Source 5	0.244176
			Source 6	0.090012
1BTB643	0.969	0.038	Source 1	0.076294
			Source 2	0.128296
			Source 3	0.173573
			Source 4	0.0555
			Source 5	0.376563
			Source 6	0.189773
1BTB1040	0.954	0.0379	Source 1	0
			Source 2	0.24111
			Source 3	0.096469
			Source 4	0.078609
			Source 5	0.487786
			Source 6	0.096025
1BTB1110	0.946	0.037	Source 1	0.106022
			Source 2	0.126672
			Source 3	0.083596
			Source 4	0.089139
			Source 5	0.403334
			Source 6	0.191237
1NAC1.2	0.939	0.037	Source 1	0.111132
			Source 2	0.144064
			Source 3	0.06031

Sample Name	Cross-correlation Value (R^2)	Kuiper V statistic	Source Name	Relative Contributions
			Source 4	0.196093
			Source 5	0.309758
			Source 6	0.178642
20160813-06	0.962	0.043	Source 1	0.075652
			Source 2	0.133831
			Source 3	0.026172
			Source 4	0.201212
			Source 5	0.419283
			Source 6	0.143849
2NAC265	0.826	0.117	Source 1	0.118549
			Source 2	0.106358
			Source 3	0.134155
			Source 4	0.180991
			Source 5	0.241758
			Source 6	0.21819
20160813-07	0.803	0.100	Source 1	0.070092
			Source 2	0.092884
			Source 3	0.198616
			Source 4	0.148686
			Source 5	0.224288
			Source 6	0.265434
3NAC658	0.926	0.073	Source 1	0.079229
			Source 2	0.112211
			Source 3	0.105551
			Source 4	0.227717
			Source 5	0.325116
			Source 6	0.150177
5NAC99.1	0.943	0.028	Source 1	0.070508
			Source 2	0.058635
			Source 3	0.189065
			Source 4	0.305091
			Source 5	0.321974
			Source 6	0.054727
5NAC658	0.933	0.039	Source 1	0.148575
			Source 2	0.135049

Sample Name	Cross-correlation Value (R^2)	Kuiper V statistic	Source Name	Relative Contributions
			Source 3	0.073314
			Source 4	0.202221
			Source 5	0.348368
			Source 6	0.092474
140816-03	0.909	0.096	Source 1	0.113152
			Source 2	0.075102
			Source 3	0.103072
			Source 4	0.185205
			Source 5	0.251935
			Source 6	0.271535
5SPUp11	0.919	0.076	Source 1	0.146686
			Source 2	0.047376
			Source 3	0.15403
			Source 4	0.317743
			Source 5	0.170942
			Source 6	0.163223
4SPU155	0.837	0.130	Source 1	0.196224
			Source 2	0.027208
			Source 3	0.197067
			Source 4	0.211358
			Source 5	0.16924
			Source 6	0.198903
1SPU93	0.929	0.087	Source 1	0.073704
			Source 2	0.046989
			Source 3	0.090572
			Source 4	0.380626
			Source 5	0.194338
			Source 6	0.213771
100816-01	0.870	0.106	Source 1	0.17266
			Source 2	0.079195
			Source 3	0.057125
			Source 4	0.369504
			Source 5	0.159159
			Source 6	0.162357
2SPU249	0.978	0.027	Source 1	0.099475

Sample Name	Cross-correlation Value (R^2)	Kuiper V statistic	Source Name	Relative Contributions
			Source 2	0.106034
			Source 3	0.153169
			Source 4	0.080208
			Source 5	0.432285
			Source 6	0.128829
3SPU112	0.855	0.080	Source 1	0.127516
			Source 2	0.136588
			Source 3	0.103685
			Source 4	0.214864
			Source 5	0.417347
			Source 6	0
130618-02	0.873	0.122	Source 1	0.081263
			Source 2	0.090779
			Source 3	0.236378
			Source 4	0.169037
			Source 5	0.344539
			Source 6	0.078003
120618-01	0.951	0.056	Source 1	0.052002
			Source 2	0.138036
			Source 3	0.259008
			Source 4	0.041773
			Source 5	0.227469
			Source 6	0.281711

Hybrid Mixture Results

Cross-correlation Coefficient

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
1BTB285	0.731	0.02	Western Cordillera Composite	0.5281	0.1217
			Ollantaytambo	0.2694	0.0711
			Calapuja	0.0247	0.0246
			Ambo	0.0643	0.0579
			San Gaban	0.0214	0.0222

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Sandia	0.0921	0.0988
1BTB375	0.641	0.008	Western Cordillera Composite	0.3695	0.1224
			Ollantaytambo	0.2304	0.0589
			Calapuja	0.0548	0.0494
			Ambo	0.2619	0.154
			San Gaban	0.0146	0.0146
			Sandia	0.0689	0.0586
1BTB643	0.889	0.005	Western Cordillera Composite	0.7308	0.0779
			Ollantaytambo	0.0385	0.0324
			Calapuja	0.0439	0.0367
			Ambo	0.1273	0.0893
1BTB643 continued…			San Gaban	0.0278	0.0257
			Sandia	0.0317	0.0349
1BTB1040	0.808	0.013	Western Cordillera Composite	0.8892	0.0739
			Ollantaytambo	0.0439	0.0525
			Calapuja	0.0127	0.015
			Ambo	0.0256	0.0352
			San Gaban	0.0114	0.0135
			Sandia	0.0172	0.0226
1BTB1110	0.856	0.006	Western Cordillera Composite	0.6229	0.1227
			Ollantaytambo	0.0316	0.0298
			Calapuja	0.0224	0.0181
			Ambo	0.1733	0.1137
			San Gaban	0.0527	0.038
			Sandia	0.0971	0.0842
1NAC1.2	0.847	0.005	Western Cordillera Composite	0.5676	0.0873

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Ollantaytambo	0.0838	0.041
			Calapuja	0.0523	0.0347
			Ambo	0.1657	0.099
			San Gaban	0.0546	0.035
			Sandia	0.0761	0.0558
20160813-06	0.852	0.005	Western Cordillera Composite	0.8047	0.0653
			Ollantaytambo	0.049	0.04
			Calapuja	0.0254	0.0244
			Ambo	0.0571	0.0604
			San Gaban	0.037	0.033
			Sandia	0.0268	0.0304
2NAC265	0.752	0.005	Western Cordillera Composite	0.4905	0.1045
2NAC265 continued…			Ollantaytambo	0.0656	0.0375
			Calapuja	0.1611	0.0492
			Ambo	0.065	0.0535
			San Gaban	0.0522	0.0315
			Sandia	0.1656	0.0843
20160813-07	0.711	0.004	Western Cordillera Composite	0.5179	0.1026
			Ollantaytambo	0.0369	0.0284
			Calapuja	0.1083	0.0561
			Ambo	0.164	0.0979
			San Gaban	0.0308	0.0234
			Sandia	0.1421	0.0849
3NAC658	0.813	0.005	Western Cordillera Composite	0.6389	0.0895
			Ollantaytambo	0.0395	0.0367
			Calapuja	0.0604	0.05
			Ambo	0.1892	0.1073
			San Gaban	0.033	0.031
			Sandia	0.039	0.0385

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
5NAC99.1	0.807	0.011	Western Cordillera Composite	0.685	0.0734
			Ollantaytambo	0.0452	0.041
			Calapuja	0.1581	0.0673
			Ambo	0.0602	0.0593
			San Gaban	0.0244	0.0214
			Sandia	0.0271	0.0252
5NAC658	0.831	0.005	Western Cordillera Composite	0.5392	0.0891
			Ollantaytambo	0.078	0.0484
			Calapuja	0.0481	0.0435
			Ambo	0.2497	0.13
			San Gaban	0.0542	0.039
			Sandia	0.0307	0.0283
140816-03	0.811	0.004	Western Cordillera Composite	0.3886	0.1047
			Ollantaytambo	0.0287	0.0203
			Calapuja	0.0601	0.0456
			Ambo	0.223	0.09
			San Gaban	0.0532	0.0366
			Sandia	0.2464	0.0814
5SPUp11	0.805	0.004	Western Cordillera Composite	0.2751	0.0976
			Ollantaytambo	0.0426	0.0325
			Calapuja	0.2394	0.051
			Ambo	0.3116	0.1261
			San Gaban	0.0674	0.0395
			Sandia	0.064	0.052
4SPU155	0.734	0.005	Western Cordillera Composite	0.2797	0.1143
			Ollantaytambo	0.0288	0.0234
			Calapuja	0.2992	0.0635
			Ambo	0.0989	0.0756

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			San Gaban	0.1228	0.0449
			Sandia	0.1708	0.0928
1SPU93	0.792	0.009	Western Cordillera Composite	0.4879	0.1208
			Ollantaytambo	0.0272	0.0243
			Calapuja	0.2508	0.0603
			Ambo	0.1339	0.1013
			San Gaban	0.023	0.0221
			Sandia	0.0772	0.0772
100816-01	0.702	0.007	Western Cordillera Composite	0.4081	0.0973
			Ollantaytambo	0.0445	0.0349
			Calapuja	0.2855	0.0587
			Ambo	0.062	0.0615
100816-01 continued…			San Gaban	0.1125	0.0472
			Sandia	0.0874	0.0673
2SPU249	0.916	0.007	Western Cordillera Composite	0.7436	0.0835
			Ollantaytambo	0.0403	0.038
			Calapuja	0.0248	0.026
			Ambo	0.1199	0.099
			San Gaban	0.0442	0.0384
			Sandia	0.0273	0.0303
3SPU112	0.693	0.005	Western Cordillera Composite	0.7424	0.0696
			Ollantaytambo	0.0411	0.0364
			Calapuja	0.0703	0.0521
			Ambo	0.0553	0.0568
			San Gaban	0.065	0.0402
			Sandia	0.0259	0.0264

Sample Name	Mean Cross-correlation Value (R^2)	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
130618-02	0.707	0.007	Western Cordillera Composite	0.5982	0.0872
			Ollantaytambo	0.0425	0.0353
			Calapuja	0.1622	0.0715
			Ambo	0.1333	0.1212
			San Gaban	0.0331	0.0263
			Sandia	0.0307	0.0299
120618-01	0.849	0.007	Western Cordillera Composite	0.4077	0.1095
			Ollantaytambo	0.0395	0.0376
			Calapuja	0.0627	0.0453
			Ambo	0.314	0.1114
			San Gaban	0.0208	0.0169
			Sandia	0.1553	0.1073

Kuiper V Statistic

Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
1BTB285	0.21	0.008	Western Cordillera Composite	0.5362	0.1774
			Ollantaytambo	0.2544	0.0961
			Calapuja	0.021	0.0206
			Ambo	0.0337	0.0328
			San Gaban	0.0188	0.0207
			Sandia	0.1359	0.1726
1BTB375	0.181	0.004	Western Cordillera Composite	0.3184	0.1969
			Ollantaytambo	0.3528	0.1021
			Calapuja	0.0286	0.0277
			Ambo	0.033	0.0359
			San Gaban	0.0319	0.0331
			Sandia	0.2354	0.1656

Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
1BTB643	0.106	0.005	Western Cordillera Composite	0.6766	0.0931
			Ollantaytambo	0.1469	0.105
			Calapuja	0.0302	0.0302
			Ambo	0.0656	0.0656
			San Gaban	0.0456	0.0445
			Sandia	0.0352	0.0373
1BTB1040	0.195	0.006	Western Cordillera Composite	0.9005	0.0588
			Ollantaytambo	0.0339	0.0455
			Calapuja	0.0116	0.0133
			Ambo	0.0204	0.0287
			San Gaban	0.0134	0.0169
			Sandia	0.0203	0.0275
1BTB1110	0.149	0.005	Western Cordillera Composite	0.69	0.0891
			Ollantaytambo	0.1248	0.1094
			Calapuja	0.018	0.0188
1BTB1110 continued…			Ambo	0.0343	0.0406
			San Gaban	0.0834	0.0581
			Sandia	0.0495	0.0579
1NAC1.2	0.134	0.004	Western Cordillera Composite	0.4322	0.1459
			Ollantaytambo	0.216	0.0595
			Calapuja	0.0503	0.0426
			Ambo	0.0777	0.0634
			San Gaban	0.0646	0.0428
			Sandia	0.1593	0.1156
20160813-06	0.155	0.006	Western Cordillera Composite	0.6971	0.0947
			Ollantaytambo	0.1429	0.0875

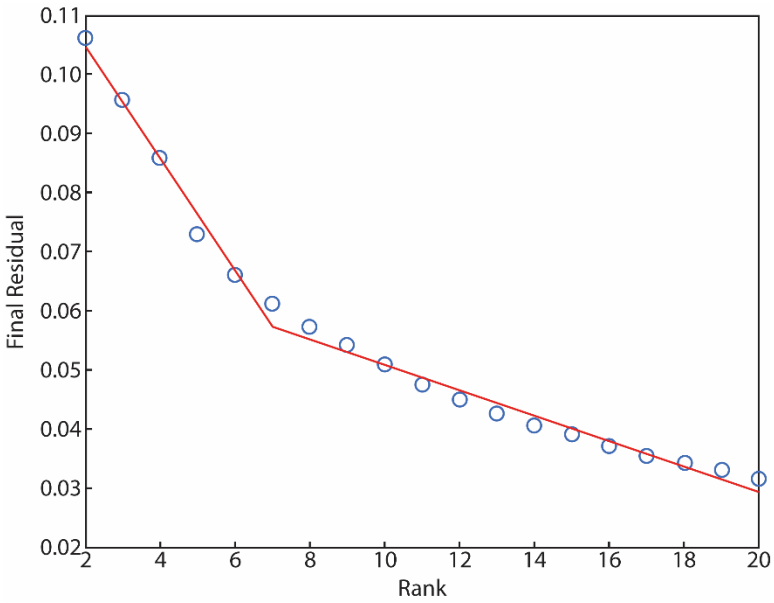
Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Calapuja	0.0253	0.0269
			Ambo	0.0401	0.0492
			San Gaban	0.0433	0.0366
			Sandia	0.0512	0.0581
2NAC265	0.155	0.004	Western Cordillera Composite	0.1491	0.1028
			Ollantaytambo	0.2026	0.091
			Calapuja	0.0805	0.0652
			Ambo	0.0501	0.0472
			San Gaban	0.0634	0.0521
			Sandia	0.4541	0.1135
20160813-07	0.135	0.002	Western Cordillera Composite	0.168	0.0844
			Ollantaytambo	0.09	0.0581
			Calapuja	0.1095	0.0596
			Ambo	0.0547	0.0477
			San Gaban	0.0711	0.0571
			Sandia	0.5067	0.0891
3NAC658	0.154	0.004	Western Cordillera Composite	0.6153	0.1223
			Ollantaytambo	0.0874	0.0529
			Calapuja	0.0547	0.0474
			Ambo	0.0631	0.0636
			San Gaban	0.0735	0.0462
			Sandia	0.106	0.1071
5NAC99.1	0.129	0.004	Western Cordillera Composite	0.5772	0.1032
			Ollantaytambo	0.1598	0.0895
			Calapuja	0.0819	0.0583
			Ambo	0.0484	0.0446
			San Gaban	0.0703	0.0518
			Sandia	0.0623	0.0488

Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
5NAC658	0.142	0.003	Western Cordillera Composite	0.4886	0.1538
			Ollantaytambo	0.1714	0.0787
			Calapuja	0.0691	0.0557
			Ambo	0.0473	0.0463
			San Gaban	0.0839	0.0457
			Sandia	0.1398	0.1124
140816-03	0.129	0.004	Western Cordillera Composite	0.2266	0.1091
			Ollantaytambo	0.1929	0.0855
			Calapuja	0.0639	0.0512
			Ambo	0.0666	0.0573
			San Gaban	0.0867	0.0473
			Sandia	0.3633	0.1236
5SPUp11	0.143	0.003	Western Cordillera Composite	0.1313	0.1003
			Ollantaytambo	0.0998	0.0608
			Calapuja	0.1972	0.11
			Ambo	0.0509	0.0488
			San Gaban	0.1651	0.0923
5SPUp11 continued…			Sandia	0.3558	0.115
4SPU155	0.200	0.003	Western Cordillera Composite	0.1823	0.1674
			Ollantaytambo	0.0467	0.0461
			Calapuja	0.1013	0.0855
			Ambo	0.0402	0.0428
			San Gaban	0.224	0.0635
			Sandia	0.4056	0.1477
1SPU93	0.149	0.002	Western Cordillera Composite	0.0931	0.0634
			Ollantaytambo	0.1997	0.1249
			Calapuja	0.1933	0.085

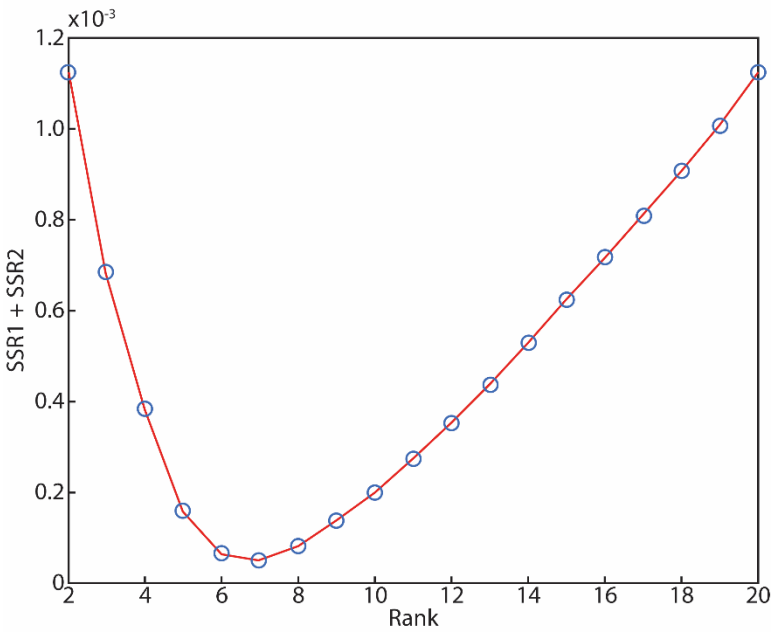
Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
			Ambo	0.0498	0.0447
			San Gaban	0.0767	0.0613
			Sandia	0.3874	0.0778
100816-01	0.202	0.003	Western Cordillera Composite	0.1015	0.0833
			Ollantaytambo	0.0991	0.0732
			Calapuja	0.1635	0.0894
			Ambo	0.0462	0.0407
			San Gaban	0.1392	0.0737
			Sandia	0.4505	0.0957
2SPU249	0.113	0.005	Western Cordillera Composite	0.7061	0.085
			Ollantaytambo	0.12	0.0954
			Calapuja	0.0276	0.0293
			Ambo	0.06	0.0593
			San Gaban	0.0485	0.0396
			Sandia	0.0379	0.0446
3SPU112	0.172	0.003	Western Cordillera Composite	0.3632	0.1392
			Ollantaytambo	0.079	0.0603
3SPU112 continued…			Calapuja	0.0832	0.0561
			Ambo	0.041	0.0447
			San Gaban	0.0704	0.0454
			Sandia	0.3633	0.1232
130618-02	0.195	0.003	Western Cordillera Composite	0.4093	0.2036
			Ollantaytambo	0.0862	0.0593
			Calapuja	0.0777	0.0709
			Ambo	0.0481	0.042
			San Gaban	0.1105	0.0531
			Sandia	0.2682	0.1754

Sample Name	Mean Kuiper V statistic	Mean Uncertainty	Source Name	Relative Contributions	Standard Deviation
120618-01	0.095	0.003	Western Cordillera Composite	0.542	0.1315
			Ollantaytambo	0.1116	0.0659
			Calapuja	0.0448	0.0345
			Ambo	0.0938	0.0803
			San Gaban	0.0872	0.0458
			Sandia	0.1206	0.09

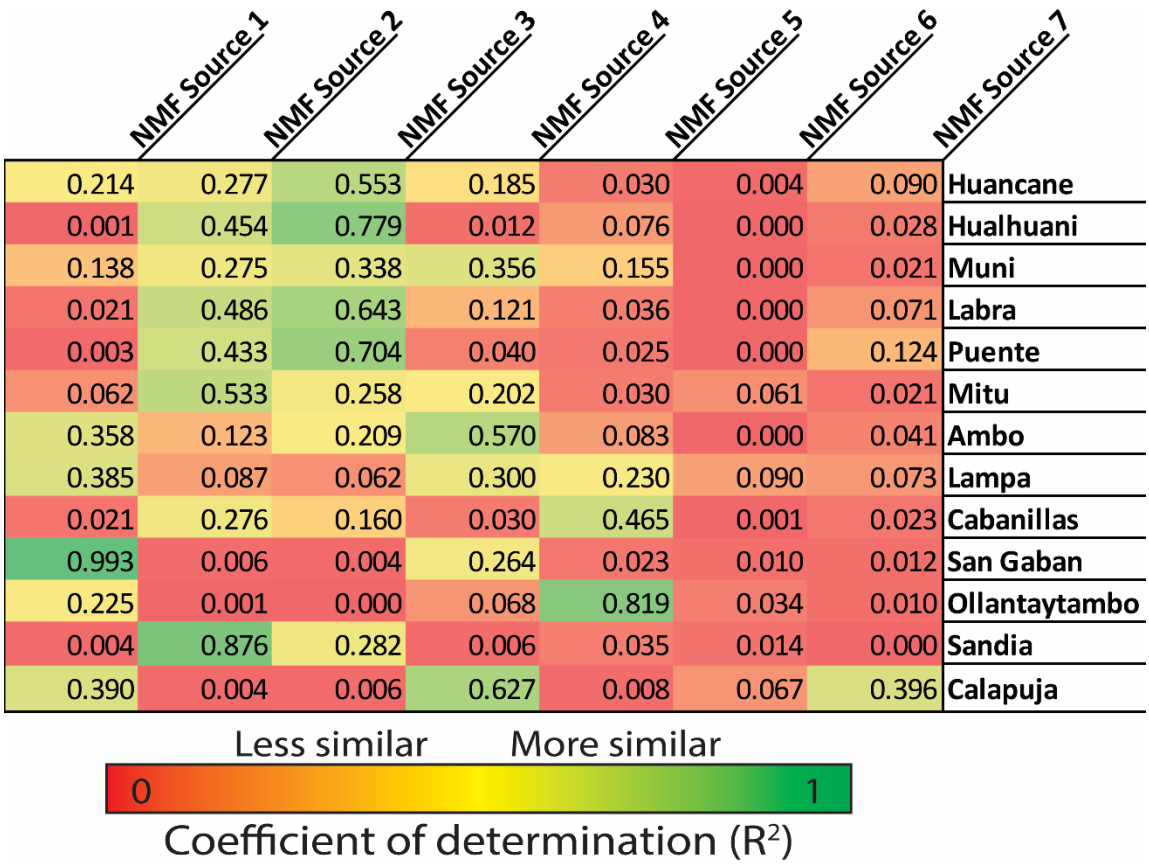
Appendix 3: Bottom-up Mixture Results Graphs



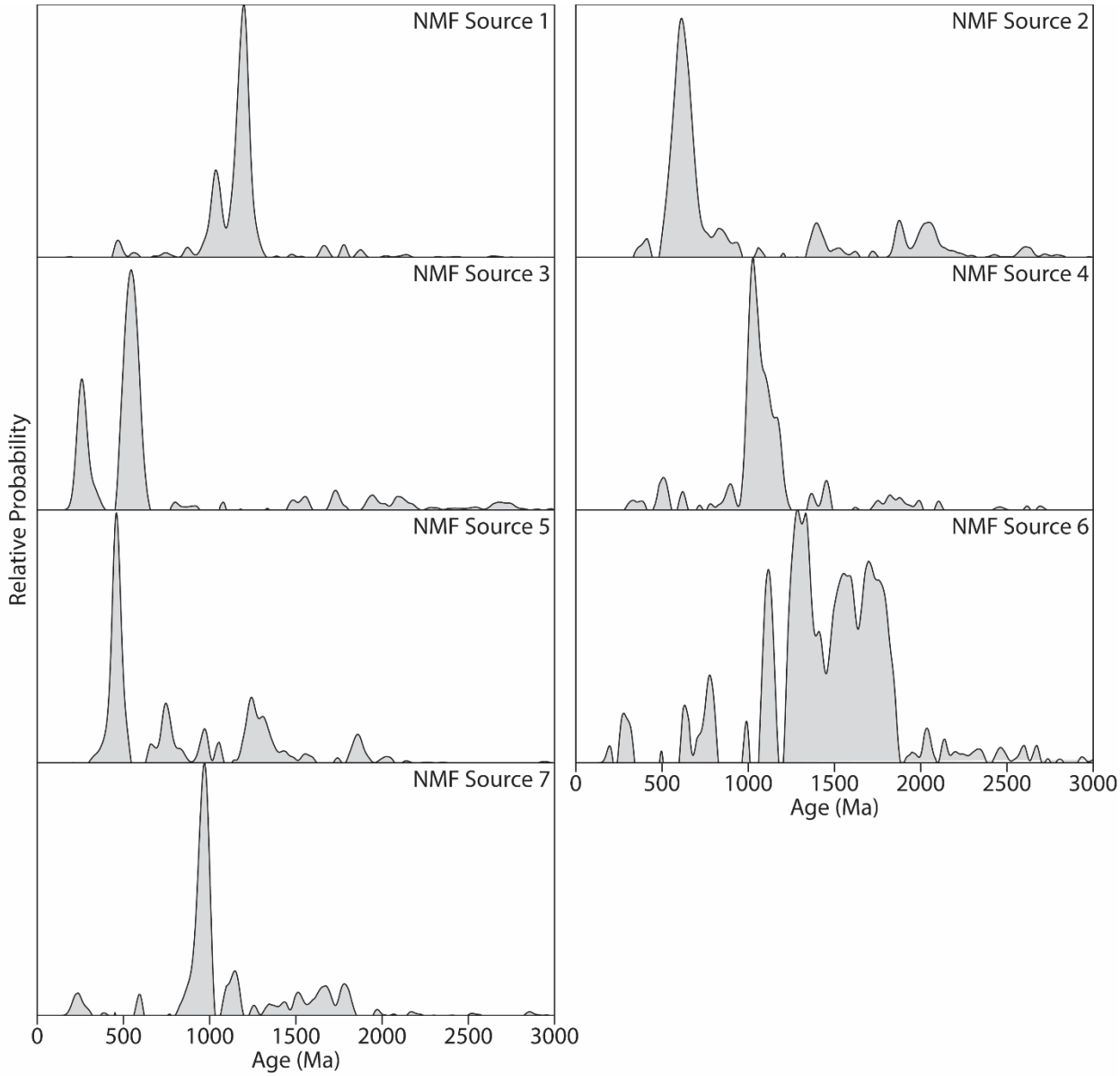
Appendix Figure 1: Segmented linear regression for the bottom-up mixture modelling approach. Blue circles indicate the final residual associated with specified rank, or modeled sources. The break in the red line indicates the optimum number of sources, in this case the optimal number is 7.



Appendix Figure 2: Summed sum of squared residuals for the bottom-up mixture modelling approach. Blue circles indicate the SSR1+SSR2 associated with specified rank, or modeled sources. The inflection point of the red line indicates the optimum number of sources, in this case the optimal number is 7.



Appendix Figure 3: Cross-correlation coefficient matrix comparing modeled and empirical sediment sources. Note for NMF Source 6 there are no correlations with empirical sources, suggesting the presence of an undocumented source.



Appendix Figure 4: Kernel density estimates (KDE) of synthetic source distributions from bottom-up mixture modelling. Note NMF Source 6, as it has poor Cross-correlation coefficient with empirical sources and suggests the presence of an undocumented source.