

Auxiliary Material for Paper 2009TC002637R

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Using isotopic and chronologic data to fingerprint strata: Challenges and
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Introduction

This auxiliary material contains U-Pb geochronologic analyses of both igneous and detrital samples collected from the western Bhutan Himalaya described in detail in the file "2009tc002637-txts01.txt" as well as in the paper. These analyses were conducted on individual zircon grains using laser-ablation multicollector inductively coupled plasma-mass spectrometry (LA-MC-ICP-MS) at the University of Arizona LaserChron Center. Analyses results are given in the data set "2009tc002637-ds01.txt" and total averaged systematic errors and cut-off ages for each sample (along with standard deviation of each standards run) in the table "2009tc002637-ts01.txt". Pb/U concordia plots of samples are shown in the postscript file "2009tc002637-fs01.eps". The determination of crystallization age two granite samples that constrains the minimum deposition age as Ordovician is highlighted in the figure "2009tc002637-fs02.eps". The figure "2009tc002637-fs03.eps" shows plots of age versus U concentration, U-Th ratio, and percentage concordance for a sample that contained zircon grains as young as Cambrian (500 Ma).

The file "2009tc002637-txts01.txt" also contains a section that describes the Neodymium isotopic analyses at the University of Arizona, Tucson.

1. 2009tc002637-ds01.txt

U-Pb geochronologic analyses of this study

- 1.1. Column "Analysis", sample number and the number of grains analyzed.
- 1.2. Column "U (ppm)", concentration of Uranium in each zircon grain.
- 1.3. Column "206Pb/204Pb", 206Pb corrected for common Pb from 204Pb with composition interpreted from Stacey and Kramers (1975).
- 1.4. Column "U/Th", Uranium and Thorium ratios in individual zircon grain.
- 1.5. Column "206Pb*/207Pb*", their ratio after common Pb correction.
- 1.6. Column "+ or - (%)", error percentage for 206Pb and 207Pb ratio.

1.7. Column "207Pb/235U*", ratio of 207Pb and 235U after common Pb correction and calibration of U concentration and U/Th relative to our Sri Lanka standard zircon.
1.8. Column "+ or - (%)", error percentage of column 1.7.
1.9. Column "206Pb*/238U", ratio of 206Pb and 238U concentration.
1.10. Column "+ or - (%)", error percentage in column 1.9.
1.11. Column "error corr.", error correction of isotopic ratios.
1.12. Column "206Pb*/238U*", age of zircon calculated from 206Pb and 238U ratio.
1.13. Column "+ or - (Ma)", error margin of age calculated in column 2.2.
1.14. Column "207Pb*/235U", age of zircon calculated from Pb206 and 235U ratio.
1.15. Column "+ or - (Ma)", error margin of age calculated in column 2.4.
1.16. Column "206Pb*/207Pb*", age calculated using Pb 206 and 207 ratio.
1.17. Column "+ or - (Ma)", error margin of age in column 2.6.
1.18. Column "Best age (Ma)", best age of zircon grain.
1.19. Column "+ or - (Ma)", error margin in column 2.8.
1.20. Column "Conc. (%)", percent concordance that is calculated as the ratio of 206Pb/238U age and 206Pb/207Pb age.
1.21. Column "Null", zircon grains that are younger than 500 Ma are marked as "NA".

2. 2009tc002637-ts01.txt

Total average systematic errors (s.e.), average ages, standard deviations, and cutoff ages.

2.1. Column "Sample", sample number.
2.2. Column "206Pb/238U s.e (%)", total systematic error for 206Pb/238U for each sample (2-sigma).
2.3. Column "206Pb/207Pb s.e (%)", total systematic error for 206Pb/207Pb for each sample (2s).
2.4. Column "206Pb/238U standard ave. age (Ma)", average 206Pb/238U ages calculated for standards run for each sample.
2.5. Column "206Pb/238U standard std.dev (Ma)", standard deviation of ages for standards run for each sample.
2.6. Column "Age cutoff (Ma)", cutoff ages for each sample; 206Pb/207Pb ages were considered the best age for grains older than the cutoff age, and 206Pb/238U ages were considered the best age for grains younger than the cutoff.

3. 2009tc002637-fs01.eps

Pb/U concordia plots of Paro Formation samples. Includes all analyses with concordance greater than 70%.

Data for individual zircon analyses listed in 2009tc002637-ds01.txt. Error ellipses are shown at the 1s level (68.3% confidence).

4. 2009tc002637-fs02.eps

Pb/U zircon concordia plots with insets showing range of error for individual DZ analyses.

Refer Figure 2 for sample map locations, and Figure 3 for stratigraphic locations in the paper.

A) Sample BU07-83, orthogneiss from Paro Formation, near Betekha.

B) Sample BU08-128, orthogneiss at the base of Paro Formation exposed at Sisina.

5. 2009tc002637-fs03.eps

Plots of age versus U concentration, U-Th ratio, and percentage concordance for sample BU07-73.

Five 500 Ma grains define the 500 Ma peak for this sample. All have low U concentration and low U-Th ratio that suggest the young ages are unlikely from metamorphic rims or Pb loss. Two of the 5 grains are 100% concordant at 1-sigma.

Data Repository

Using isotopic and chronologic data to fingerprint strata: Challenges and benefits of variable sources to tectonic interpretations of the Paro Formation, Bhutan Himalaya

Discussion 1: Methods of Arizona LaserChron Center U/Pb zircon dating

Rock samples were crushed and pulverized to sand-size grains, separated by density on a Wilfley table, and then separated into dense and light fractions by a 3.32 g/cc

liquid separation. The dense fraction was passed through a Frantz magnetic separator, and the zircons were mounted in epoxy plugs and then polished to half-thickness.

Photographic images were made of all samples to keep track of which grains were dated.

Material was ablated from the sample surface using a DUV193 Excimer laser system from New Wave Instruments. The laser operates at a wavelength of 193 nm, and for all the

samples (BU07-59, -60, -73, -76, -77, -79, -83, -84, and BU08-128) in this study 35 micron-wide spot sizes were used, except for sample BU07-75 which contained smaller zircons

(80 grains) and was hit with a 25 micron-diameter beam (see notes below Data Set S1). For most analyses the laser was operated at minimum output energy (~40 mJ) with a repetition

rate of 8 pulses per second, which created a ~15 micron-deep pit for a typical 20 second analysis. The ablated material is carried in helium gas into the plasma source of a multicollector

inductively coupled plasma mass spectrometer (an Isoprobe, from GV Instruments). This instrument is equipped with nine moveable Faraday collectors and four low-side Channeltrons (ion counters).

Eight of the Faraday collectors use a 1011 ohm resistor, whereas the Faraday used for measuring ^{207}Pb is equipped with a 1012 ohm resistor. This configuration allows static-mode measurement of all isotopes, using 1011 Faraday detectors for ^{238}U , ^{232}Th , ^{208}Pb , and ^{206}Pb , a 1012 Faraday detector for ^{207}Pb , and an ion-counting channel for ^{204}Pb .

Each analysis consists of one 20-second integration on peaks with the laser off (for backgrounds), 20 or 12 one-second integrations with the laser firing, and a 30 second delay to purge the previous sample and prepare for the next analysis. Each analysis is evaluated for consistency of $^{206}\text{Pb}/^{238}\text{U}$ and $^{206}\text{Pb}/^{207}\text{Pb}$ ratios through the 20 seconds of data acquisition. If ratios display either a sudden change, or a gradual increase greater than ~5% for $^{206}\text{Pb}/^{238}\text{U}$, the analysis is discarded. This ensures that analyses are not compromised by crossing an age boundary.

The 893 U-Pb zircon analyses that yielded less than 30% isotopic discordance are shown for each sample in Figures 3b, 5, and 8 in relative age probability plots (1-sigma errors), and data

and measurement (analytical) errors (1-sigma) for individual analyses are listed in 2009tc002637-ds01.txt, and shown in Pb/U concordia plots for each sample in Figure S1.

This large range of accepted discordance is justified because we interpret clustering as a more powerful tool than concordance for determining the reliability of ages, given that both

Pb-loss and inheritance commonly move analyses along concordia. Therefore, single concordant analyses do not necessarily yield robust ages. In contrast, analyses that yield a cluster of

ages are more likely robust, even if slightly to moderately discordant, because Pb loss and inheritance will always tend to increase scatter.

Therefore, in this study we accept analyses with discordance up to 30%, and place the most significance on clusters (peaks) supported by at least three analyses. Peaks defined by only one or two analyses are interpreted as less significant.

Common Pb correction was accomplished by using the measured ^{204}Pb and assuming an initial Pb composition from Stacey and Kramers [1975]. Conservative uncertainties of 1.0 for $^{206}\text{Pb}/^{204}\text{Pb}$, 0.3 for $^{207}\text{Pb}/^{204}\text{Pb}$, and 2.0 for $^{208}\text{Pb}/^{204}\text{Pb}$ were used for the composition of the common Pb. ^{204}Hg present in the argon plasma gas, as well as any background ^{204}Pb or molecular 204 , was accounted for by first measuring backgrounds in the 204 mass position, then measuring the peak 204 intensity with the laser firing, and subtracting the background intensity from the peak intensity.

Fractionation of Pb/U and Pb/Th occurs primarily in the laser pit, and is highly sensitive to the rate of carrier gas flow across the sample surface. An optimal balance between signal intensity and stability occurs at a carrier gas flow rate of 0.45 ml/minute, which generates a Pb/U sensitivity of 0.9 (e.g., a 500 Ma zircon yields a $^{206}\text{Pb}/^{238}\text{U}$ age of 450 Ma). To correct for Pb/U and Th/U fractionation, standards were analyzed once every 5 unknowns. Fractionation standards for zircon are fragments of a large Sri Lanka zircon crystal that yields an age of 563.5 ± 3.2 Ma (2-sigma, ID-TIMS) [Gehrels et al., 2008]. The unknowns are corrected for the closest 6 standards using a sliding window average. The error on this fractionation factor is generally ~1% (2-sigma) for $^{206}\text{Pb}/^{238}\text{U}$ ages. Fractionation of Pb isotopes is minimal, with a maximum of ~3% fractionation of $^{206}\text{Pb}/^{207}\text{Pb}$. This fractionation is also removed by comparison with standards, using the same procedure described above. The error on this fractionation factor is generally ~1% (2-sigma) for $^{206}\text{Pb}/^{207}\text{Pb}$ ages. Pb/U and Pb/Th fractionation varies with depth during laser ablation, increasing by ~5% during a 20-second analysis that excavates to a depth of 15 microns. This was accounted for by monitoring the depth-related fractionation of standards, and then applying a sliding-window depth-related fractionation factor to the unknowns. Pb/U fractionation also varies by up to several percent depending on position on the mount surface, due to variations in the flow rate/pattern of the helium carrier gas across the sample surface. For this reason, all standards and unknowns are mounted close together in the central portion of the mount, and care was taken to analyze standards that are as close as possible to each unknown.

To determine accurate concentrations of U and Th, we compare intensities with the Sri Lanka standard, which has concentrations of U, Th, and Pb known to ~20%. For each zircon analysis, the errors in determination of $^{206}\text{Pb}/^{238}\text{U}$ and $^{206}\text{Pb}/^{204}\text{Pb}$ result in a measurement error of ~1-2% (at 2-sigma level) in the $^{206}\text{Pb}/^{238}\text{U}$ age. The errors in measurement of $^{206}\text{Pb}/^{207}\text{Pb}$ and $^{206}\text{Pb}/^{204}\text{Pb}$ also result in ~1-2% (at 2-sigma level) uncertainty in age for grains that are >1.0 Ga, but are substantially larger for younger grains due to low intensity of the ^{207}Pb signal. We refer to errors that arise from the measurement of $^{206}\text{Pb}/^{238}\text{U}$, $^{206}\text{Pb}/^{207}\text{Pb}$, and $^{206}\text{Pb}/^{204}\text{Pb}$ as random (or measurement) errors, because they are different for each analysis within a session. For most analyses, the cross-over in precision of these random errors for $^{206}\text{Pb}/^{238}\text{U}$ and $^{206}\text{Pb}/^{207}\text{Pb}$ ages occurs at ~1.0 Ga. For this reason, $^{206}\text{Pb}/^{238}\text{U}$ ratios were considered the most representative, and were used for analyses younger than ~1.0 Ga, and $^{207}\text{Pb}^*/^{206}\text{Pb}^*$ ratios were considered the most representative, and were used for ages older than ~1.0 Ga. Table S1 shows the cutoff ages used for individual samples.

Data 2009tc002637-ds01.txt reports analytical data at 1-sigma uncertainties based on the analytical (or measurement) errors. The uncertainty of the weighted mean is based on the scatter and precision of the set of concordant ages, weighted according to their measurement errors. The systematic errors are then added to this measurement error quadratically. Systematic errors include contributions from the fractionation correction, composition of common Pb, age of the calibration standard, and U decay constants. Total average systematic errors are listed for individual samples in 2009tc002637-ts01.txt.

For detrital zircon samples, approximately 100 randomly-selected zircon crystals were analyzed from each sample, to identify each of the main age groups present. Data were filtered according to precision (typically 10% cutoff) and discordance (typically 30% cutoff) and plotted on Pb/U concordia diagrams or relative age-probability plots using algorithms of Ludwig [2003] (2009tc002637-fs01.eps). Relative age probability curves (Figure 5) were constructed by: (1) calculating a normal distribution for each analysis based on the reported age and uncertainty, (2) summing the probability distributions of all acceptable analyses into a single curve, and (3) if normalized, dividing the area under the curve by the number of analyses.

Interpretations of U/Pb detrital zircon data are based on the view that only clusters of ages record robust sources ages. This is because a single age determination may be compromised by Pb loss or inheritance (even if concordant), whereas it is unlikely that two or more grains that have experienced Pb loss or inheritance would yield the same age. We accordingly attach age significance only to clusters defined by three or more overlapping analyses; this has particular importance for determination of the youngest age component in a detrital zircon sample,

which is commonly used as a maximum depositional age.

For further discussion of the analytical methods of the University of Arizona LaserChron Center, refer to Gehrels et al. [2006; 2008].

2009tc002637-ds01.txt:

Data Set S1: U-Pb geochronologic analyses.

2009tc002637-ts01.txt:

Table S1: Total average systematic errors (s.e.) for $^{206}\text{Pb}/^{238}\text{U}$ and $^{206}\text{Pb}/^{207}\text{Pb}$ for each sample (2-sigma), and average $^{206}\text{Pb}/^{238}\text{U}$ ages and standard deviation calculated for all standards run for each sample (n=24 for a typical 100-analysis DZ sample). Also shown are cutoff ages for each sample; $^{206}\text{Pb}/^{207}\text{Pb}$ ages were considered the best age for grains older than the cutoff age, and $^{206}\text{Pb}/^{238}\text{U}$ ages were considered the best age for grains younger than the cutoff age (listed in 2009tc002637-ds01.txt). Systematic errors not available for sample BU07-73 due to corrupt file.

Insert 2009tc002637-fs01.eps:

Figure S1: Pb/U concordia plots of Paro Formation samples. Includes all analyses greater with concordance >70%. Data for individual zircon analyses listed in Data Set S1. Error ellipses are shown at the 1-sigma level (68.3% confidence).

Discussion 2: Determination of crystallization ages of intrusive bodies

The determination of the crystallization ages of our two granite samples (BU07-83 and BU08-128) is problematic, as concordant zircon ages for these samples are widely spread over ca. 200 Ma for BU07-83 and ca. 100 Ma for BU08-128 (Figure S2). As the weighted mean of all the grains may not necessarily represent the true crystallization age of these intrusive bodies, we only report their likely ages ranging between 400 and 500 Ma. From sample BU07-83, eight grains including BU0783-50, -60, -81, -70, -45, 83, -73, and -84 were considered discordant because they had % concordance less than 70. From sample BU08-128, only three grains including BU08128-2, -10, and -17 had % concordance less than 70. These discordant grains were eventually discarded.

Regrettably, no CL imaging was used to differentiate cores from rims for these two samples, and as a result, we interpret many of the older ages as the result of mixing and/or inheritance.

Also, it is uncertain whether young ages may be a result of Pb. However, despite these issues, note that these samples intrude strata with a maximum deposition age of Cambrian, and the ages we obtain, though not ideal, do give constraint on the youngest permissible deposition age.

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Figure S2: Pb/U zircon concordia plots with insets showing range of error for individual DZ analyses. Refer to Figure 2 for sample map locations, and Figure 3a for stratigraphic locations in the paper. Data for individual zircon analyses listed in Table 2. A) Sample BU07-83, orthogneiss from Paro Formation, near Betekha. B) Sample BU08-128, orthogneiss at the base of Paro Formation exposed at Sisina.

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Figure S3: Plots of age versus U concentration, U-Th ratio, and percentage concordance for sample BU07-73. Five 500 Ma grains define the 500 Ma peak for this sample.

All have low U concentration and low U-Th ratio that suggest the young ages are unlikely from metamorphic rims or Pb loss. Two of the 5 grains are 100% concordant at 1-sigma.

Discussion 3: Details of Nd isotopic analyses

The isotopic ratios of $^{143}\text{Nd}/^{144}\text{Nd}$, and the trace element concentrations of Sm, and Nd were measured by thermal ionization mass spectrometry on whole rock samples. Rock powders were put in large Savillex vials and dissolved in mixtures of hot concentrated HF-HNO₃ or alternatively, mixtures of cold concentrated HF-HClO₄. The dissolved samples were spiked with the Caltech mixed 147Sm-150Nd spike [Wasserburg et al., 1981] after dissolution. The bulk of the REEs were separated in cation columns containing AG50W-X4 resin, using 4N HCl. Separation of Sm and Nd was achieved in anion column containing LN Spec resin, using 0.1N to 2.5N HCl. Sm and Nd were loaded onto single Re filaments using platinized carbon, and resin beads, respectively. Mass spectrometric analyses were carried out at the University of Arizona on an automated VG Sector multicollector instrument fitted with adjustable Faraday collectors and a Daly photomultiplier [Otamendi et al., 2009]. Concentrations of Sm and Nd were determined by isotope dilution, with isotopic compositions determined on the same spiked runs. An off-line manipulation programs was used for isotope dilution calculations. Typical runs consisted of acquisition of 100 isotopic ratios. The mean results of five analyses of the standard nSmB performed during the course of this study are:
 $^{148}\text{Sm}/^{147}\text{Sm} = 0.74880 \pm 21$, and $^{148}\text{Sm}/^{152}\text{Sm} = 0.42110 \pm 6$. Ten measurements of the LaJolla Nd standard were performed during the course of this study. The standard runs yielded the following isotopic ratios:

$^{142}\text{Nd}/^{144}\text{Nd} = 1.14184 \pm 2$, $^{143}\text{Nd}/^{144}\text{Nd} = 511853 \pm 2$, $^{145}\text{Nd}/^{144}\text{Nd} = 0.348390 \pm 2$, and $^{150}\text{Nd}/^{144}\text{Nd} = 0.23638 \pm 2$. Nd isotopic ratios were normalized to $^{146}\text{Nd}/^{144}\text{Nd} = 0.7219$. The estimated analytical ± 2 -sigma uncertainties for samples analyzed in this study are: $^{147}\text{Sm}/^{144}\text{Nd} = 0.4\%$, and $^{143}\text{Nd}/^{144}\text{Nd} = 0.0012\%$. Procedural blanks averaged from five determinations were 2.7 pg Sm, and 5.5 pg Nd.

References

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Analysis	Isotope ratios				Apparent ages (Ma)								
	U (ppm)	206Pb 204Pb	U/Th	206Pb* 207Pb* (%)	+/-	207Pb* 235U* (%)	+/-	206Pb* 238U (%)	+/-	error corr.	206Pb* 238U* (Ma)	+/-	207P 235U
BU0773-99	381	15700	0.6	16.3048	2.2	0.6469	2.7	0.0765	1.5	0.58	475.2	7.1	506
BU0773-24	153	12400	0.3	16.6077	2.5	0.6475	2.7	0.0780	1.0	0.37	484.1	4.7	506
BU0773-59	170	15570	0.3	17.2839	2.8	0.6633	3.3	0.0831	1.8	0.54	514.9	8.7	516
BU0773-41	736	58325	1.2	17.3792	1.2	0.6605	2.2	0.0833	1.8	0.83	515.5	9.0	514
BU0773-5	271	12905	0.9	15.4931	4.8	0.7596	5.1	0.0853	1.7	0.33	528.0	8.4	573
BU0773-1	249	5235	0.4	14.3929	3.9	0.8389	4.1	0.0876	1.4	0.34	541.1	7.2	618
BU0773-29	296	45125	1.1	13.2467	4.4	1.3580	5.4	0.1305	3.1	0.58	790.6	23.4	87
BU0773-89	423	80390	1.3	14.4712	3.4	1.2982	3.6	0.1363	1.1	0.31	823.4	8.4	844
BU0773-67	745	76055	3.1	13.9990	1.0	1.3518	5.8	0.1372	5.8	0.99	829.1	44.7	86
BU0773-81	917	65105	7.8	13.6079	3.1	1.5389	4.3	0.1519	3.0	0.70	911.5	25.5	94
BU0773-75	543	177690	12.5	13.9881	2.8	1.5093	5.2	0.1531	4.3	0.84	918.4	36.9	9
BU0773-10	232	53520	0.8	14.1436	1.4	1.5166	2.4	0.1556	2.0	0.81	932.1	16.9	93
BU0773-56	125	28060	0.6	14.3256	1.6	1.5064	1.9	0.1565	1.0	0.53	937.4	8.7	933
BU0773-86	570	78825	1.2	13.4054	2.5	1.8576	3.3	0.1806	2.2	0.65	1070.3	21.2	10
BU0773-62	413	93470	1.6	13.3138	1.8	1.8528	2.8	0.1789	2.1	0.76	1061.0	20.6	10
BU0773-48	313	65505	1.7	13.1148	2.5	1.7653	4.1	0.1679	3.3	0.80	1000.6	30.3	10
BU0773-76	584	141150	2.2	12.9689	2.3	2.0613	3.0	0.1939	2.0	0.65	1142.4	20.5	1
BU0773-7	723	137295	1.6	12.8147	2.8	1.8927	3.9	0.1759	2.7	0.69	1044.6	25.6	10
BU0773-100	463	79615	0.6	12.7381	1.1	1.9316	2.2	0.1785	2.0	0.87	1058.5	19.0	10
BU0773-17	1151	80520	11.0	12.7364	1.5	1.6221	2.4	0.1498	1.9	0.79	900.1	15.9	9
BU0773-22	293	66060	1.1	12.6621	2.0	2.0293	3.2	0.1864	2.5	0.79	1101.6	25.4	11
BU0773-27	253	60640	1.5	12.6111	1.4	1.8436	1.7	0.1686	1.0	0.59	1004.5	9.3	10
BU0773-39	526	74865	0.5	12.5858	1.1	2.0273	1.5	0.1851	1.0	0.68	1094.5	10.1	11
BU0773-97	269	27975	0.7	12.5494	4.1	1.8363	4.5	0.1671	1.9	0.43	996.3	17.8	10
BU0773-15	312	29290	4.1	12.5186	2.9	1.7975	3.6	0.1632	2.2	0.61	974.5	19.8	10
BU0773-34	643	26085	0.5	12.3482	2.6	1.8166	4.8	0.1627	4.0	0.83	971.7	35.6	10
BU0773-88	288	15610	1.1	12.0693	1.9	2.2426	2.6	0.1963	1.9	0.70	1155.5	19.7	11
BU0773-74	63	11590	1.9	11.9000	3.1	2.2475	3.4	0.1940	1.4	0.40	1142.9	14.5	11
BU0773-47	245	49780	1.3	11.8798	7.6	2.2777	7.9	0.1962	2.4	0.30	1155.1	25.2	12
BU0773-80	174	11195	1.1	11.8752	4.9	2.2894	5.0	0.1972	1.0	0.20	1160.2	10.6	12
BU0773-82	444	107685	0.9	11.7462	1.4	2.5003	2.4	0.2130	1.9	0.81	1244.8	21.7	12
BU0773-43	345	175295	0.9	11.5222	1.6	2.7761	2.1	0.2320	1.4	0.66	1344.9	16.8	12
BU0773-13	900	93955	1.1	11.4361	1.4	2.3834	7.4	0.1977	7.3	0.98	1162.9	77.8	12
BU0773-46	309	123195	2.0	11.3375	1.0	2.9391	1.9	0.2417	1.6	0.85	1395.4	20.6	12
BU0773-33	517	21100	1.1	11.2506	2.9	2.2527	4.7	0.1838	3.6	0.78	1087.8	36.3	11
BU0773-55	696	69390	1.4	11.0627	1.1	2.4145	1.5	0.1937	1.0	0.67	1141.5	10.5	12
BU0773-42	234	24975	0.9	11.0504	3.0	2.9874	3.5	0.2394	1.7	0.48	1383.7	20.9	14
BU0773-98	668	146330	3.1	11.0438	1.8	2.8882	4.6	0.2313	4.2	0.92	1341.5	50.9	12
BU0773-92	750	229885	1.2	11.0437	1.0	2.8636	1.4	0.2294	1.0	0.72	1331.2	12.5	12
BU0773-44	170	73200	1.6	11.0191	2.7	3.1463	3.2	0.2515	1.8	0.55	1446.0	23.2	14
BU0773-37	101	27000	0.5	10.8554	1.4	3.2179	1.7	0.2534	1.0	0.58	1455.7	13.0	14

BU0773-36	174	7825	1.3	10.8413	6.1	2.4853	6.6	0.1954	2.6	0.39	1150.6	27.3	126
BU0773-38	425	47415	0.6	10.7372	2.7	2.9299	4.7	0.2282	3.8	0.81	1324.9	46.0	13
BU0773-72	711	141070	1.1	10.6071	4.8	3.1411	4.9	0.2416	1.0	0.20	1395.3	12.5	14
BU0773-12	254	18535	1.4	10.0176	1.7	3.5493	3.9	0.2579	3.5	0.90	1478.9	46.4	15
BU0773-64	283	105010	0.8	9.9689	1.0	3.3319	2.7	0.2409	2.6	0.93	1391.4	31.9	14
BU0773-68	325	84055	1.4	9.9116	1.0	3.9067	1.8	0.2808	1.5	0.84	1595.6	21.6	16
BU0773-2	334	48165	0.7	9.7657	1.3	4.0319	2.0	0.2856	1.5	0.75	1619.4	21.1	164
BU0773-94	297	28995	0.9	9.6465	3.0	4.0283	3.6	0.2818	2.0	0.54	1600.6	27.8	16
BU0773-71	194	15655	1.2	9.6149	2.5	3.6857	2.9	0.2570	1.6	0.53	1474.6	20.4	15
BU0773-18	317	44195	0.8	9.5309	1.7	4.3617	2.4	0.3015	1.6	0.69	1698.8	24.5	170
BU0773-6	71	39400	2.2	9.5035	1.9	4.1976	3.0	0.2893	2.3	0.77	1638.1	33.7	167
BU0773-4	307	123310	1.5	9.4633	1.0	4.3755	2.0	0.3003	1.7	0.87	1692.8	25.8	170
BU0773-23	368	186930	1.5	9.4408	1.1	4.2018	2.3	0.2877	2.0	0.88	1630.0	29.2	16
BU0773-21	347	129845	1.4	9.4134	1.0	4.3306	1.5	0.2957	1.1	0.73	1669.8	15.9	16
BU0773-70	244	46260	0.9	9.4038	1.7	4.2809	2.3	0.2920	1.6	0.68	1651.4	23.2	168
BU0773-52	299	129825	1.3	9.3671	1.5	4.5097	1.8	0.3064	1.1	0.57	1722.8	15.9	17
BU0773-3	425	44145	1.5	9.3566	1.7	3.6451	2.4	0.2474	1.7	0.72	1424.8	22.0	155
BU0773-35	698	68415	1.5	9.3389	1.2	3.2908	10.2	0.2229	10.2	0.99	1297.1	119.5	1
BU0773-49	357	122675	2.0	9.3364	2.0	4.6559	2.2	0.3153	1.0	0.45	1766.6	15.5	17
BU0773-84	223	16660	1.0	9.3264	5.6	4.0343	6.1	0.2729	2.4	0.39	1555.4	33.0	164
BU0773-50	174	51420	0.9	9.3264	1.0	4.5772	2.1	0.3096	1.8	0.87	1738.8	27.6	174
BU0773-14	282	11075	0.8	9.2799	5.0	3.2726	5.2	0.2203	1.6	0.30	1283.2	18.2	141
BU0773-61	494	92035	2.7	9.2706	2.2	3.4246	6.4	0.2303	6.0	0.94	1335.8	72.0	15
BU0773-8	111	54830	1.5	9.2383	3.0	4.6157	3.4	0.3093	1.7	0.48	1737.1	25.3	175
BU0773-83	839	122250	7.3	9.2099	2.2	4.7707	2.7	0.3187	1.5	0.57	1783.2	24.0	17
BU0773-51	174	35150	1.4	9.1436	3.6	4.6008	3.8	0.3051	1.3	0.33	1716.6	19.0	174
BU0773-78	293	56385	1.3	9.1238	2.0	4.5933	2.3	0.3039	1.2	0.50	1710.9	17.4	174
BU0773-73	215	10745	2.2	8.9904	1.8	4.5449	2.5	0.2963	1.8	0.71	1673.2	26.7	174
BU0773-95	754	128700	2.4	8.8056	1.0	4.1364	2.4	0.2642	2.2	0.91	1511.1	29.9	16
BU0773-45	281	143070	1.1	8.7170	1.8	5.3962	2.5	0.3412	1.7	0.67	1892.2	27.1	18
BU0773-96	159	50925	1.3	6.3180	1.6	7.3854	2.6	0.3384	2.0	0.79	1879.0	33.1	214
BU0773-91	112	48205	1.0	6.2988	1.0	7.9703	2.2	0.3641	2.0	0.89	2001.6	33.6	224
BU0773-57	778	308590	1.2	6.2846	1.3	8.3639	2.1	0.3812	1.7	0.79	2082.0	29.4	22
BU0773-60	760	331330	1.9	6.2239	1.0	9.0923	2.7	0.4104	2.6	0.93	2216.9	48.0	23
BU0773-16	699	200480	0.7	6.2034	1.3	8.8363	1.6	0.3976	1.0	0.62	2157.8	18.3	23
BU0773-11	154	53165	1.0	6.1603	1.1	9.6628	1.9	0.4317	1.5	0.81	2313.5	29.7	240
BU0773-58	713	311555	1.1	6.1567	1.0	9.6117	1.4	0.4292	1.0	0.71	2302.0	19.4	23
BU0773-66	258	31485	1.4	6.1354	1.0	9.6499	2.1	0.4294	1.8	0.88	2303.0	35.1	240
BU0773-85	260	72910	1.3	6.0696	1.3	9.8953	2.1	0.4356	1.6	0.79	2330.9	32.1	240
BU0773-53	245	170255	1.7	5.9387	1.7	11.0229	2.2	0.4748	1.4	0.64	2504.5	29.7	240
BU0773-28	710	122755	0.8	5.7034	1.3	11.0849	2.4	0.4585	2.1	0.86	2433.1	42.4	240
BU0773-54	127	50865	1.5	5.0505	1.4	14.0072	2.2	0.5131	1.7	0.77	2669.8	37.2	27
BU0773-40	324	57785	0.8	4.0947	1.5	18.8626	2.2	0.5602	1.6	0.73	2867.4	38.0	30
BU07-75-34	852	60780	1.0	14.1854	2.2	1.3379	2.6	0.1376	1.3	0.52	831.3	10.5	86
BU07-75-51	704	102910	1.8	13.9752	1.4	1.3922	1.7	0.1411	1.0	0.58	850.9	8.0	88
BU07-75-5	2114	221860	8.9	13.9635	1.3	1.3948	1.7	0.1413	1.0	0.60	851.7	8.0	88

BU07-75-61	1054	122315	0.9	14.0291	4.1	1.4083	4.5	0.1433	1.7	0.37	863.3	13.5	8!
BU07-75-15	1139	207005	2.2	14.2297	1.9	1.3936	2.5	0.1438	1.5	0.62	866.3	12.4	8!
BU07-75-31	2189	244250	3.5	14.0949	2.0	1.4102	2.2	0.1442	1.0	0.46	868.2	8.1	89
BU07-75-17	805	99040	1.8	14.1520	1.2	1.4176	1.5	0.1455	1.0	0.65	875.7	8.2	896
BU07-75-8	770	160170	6.4	13.6111	3.3	1.4905	3.4	0.1471	1.0	0.29	884.9	8.3	926
BU07-75-14	859	124240	1.9	13.9717	1.5	1.4963	1.8	0.1516	1.0	0.55	910.0	8.5	92!
BU07-75-64	976	251760	1.8	14.1169	2.6	1.4973	2.8	0.1533	1.0	0.36	919.4	8.6	92!
BU07-75-40	672	121465	1.7	14.1848	1.3	1.4954	1.6	0.1538	1.0	0.61	922.5	8.6	92!
BU07-75-86	322	82835	0.4	14.2598	1.9	1.5341	3.0	0.1587	2.3	0.77	949.3	20.4	94!
BU07-75-11	643	147235	0.9	14.1465	2.0	1.5631	2.4	0.1604	1.3	0.54	958.8	11.5	95
BU07-75-77	404	93955	2.1	13.9804	3.2	1.5868	3.7	0.1609	1.9	0.50	961.7	16.7	96!
BU07-75-66	342	79080	2.3	14.0296	2.5	1.6072	2.7	0.1635	1.0	0.38	976.4	9.1	973
BU07-75-37	337	75915	2.3	14.1144	1.2	1.5852	1.9	0.1623	1.4	0.76	969.4	12.9	96!
BU07-75-78	410	137550	2.1	13.8208	3.6	1.5865	4.5	0.1590	2.6	0.58	951.4	23.1	96
BU07-75-62	256	43135	0.8	13.5411	3.0	1.6630	5.1	0.1633	4.1	0.80	975.2	37.2	99!
BU07-75-68	947	257760	22.6	13.2779	2.9	1.6752	3.3	0.1613	1.6	0.49	964.1	14.7	9!
BU07-75-79	176	54785	1.8	13.2023	2.8	1.9253	4.4	0.1843	3.4	0.78	1090.7	34.4	10
BU07-75-25	584	78455	5.0	13.0319	1.3	1.7457	2.2	0.1650	1.8	0.80	984.5	16.4	10!
BU07-75-96	705	125265	1.7	12.9001	1.3	1.8176	2.3	0.1701	1.9	0.83	1012.4	18.0	10
BU07-75-27	311	67410	1.8	12.7814	1.2	2.1086	1.5	0.1955	1.0	0.65	1150.9	10.5	11
BU07-75-38	2194	338070	2.4	12.6483	1.1	1.9517	1.7	0.1790	1.3	0.74	1061.7	12.2	1
BU07-75-35	347	10205	1.6	12.5345	4.6	1.5970	4.7	0.1452	1.0	0.21	873.9	8.2	969
BU07-75-58	1461	223495	21.2	11.9181	2.5	2.2673	3.4	0.1960	2.3	0.66	1153.7	23.8	
BU07-75-57	1077	157805	1.8	11.8811	1.0	2.2495	4.0	0.1938	3.9	0.97	1142.2	40.6	1
BU07-75-30	1106	145255	1.6	11.7723	2.7	2.2116	3.9	0.1888	2.8	0.72	1115.0	28.6	1
BU07-75-18	269	82085	2.3	11.5947	1.6	2.3888	2.0	0.2009	1.1	0.54	1180.0	11.4	12
BU07-75-42	428	54310	1.5	11.4711	1.7	2.2885	2.0	0.1904	1.0	0.51	1123.5	10.3	12
BU07-75-24	737	75385	13.6	11.2928	1.7	2.5235	2.8	0.2067	2.2	0.80	1211.1	24.7	1:
BU07-75-22	233	67525	2.6	10.9771	1.0	2.9932	2.4	0.2383	2.2	0.91	1377.8	26.7	14
BU07-75-48	1313	95775	2.5	10.9599	1.8	2.6453	3.2	0.2103	2.6	0.82	1230.2	29.3	1:
BU07-75-21	504	91450	2.1	10.9512	2.5	2.5904	7.0	0.2057	6.5	0.94	1206.1	71.9	12
BU07-75-36	1197	261355	2.4	10.9495	1.0	2.9569	1.8	0.2348	1.5	0.83	1359.7	18.0	1
BU07-75-97	372	152125	6.6	10.8961	1.8	3.0702	2.1	0.2426	1.0	0.49	1400.3	12.6	1:
BU07-75-53	524	93085	3.6	10.8912	1.1	2.9571	1.5	0.2336	1.0	0.68	1353.2	12.3	13
BU07-75-16	259	34490	1.4	10.8691	1.6	2.8278	1.9	0.2229	1.0	0.52	1297.3	11.8	13
BU07-75-44	556	115815	2.1	10.6858	1.6	2.8210	2.2	0.2186	1.5	0.69	1274.7	17.3	1:
BU07-75-89	882	282855	1.2	10.5512	2.0	3.2304	3.6	0.2472	3.0	0.83	1424.1	37.9	1:
BU07-75-49	3170	363595	11.6	10.5178	1.8	3.1252	2.0	0.2384	1.0	0.49	1378.4	12.4	
BU07-75-80	674	277340	1.5	10.5149	1.0	3.6148	3.7	0.2757	3.5	0.96	1569.5	49.0	1:
BU07-75-45	1022	215165	25.2	10.4674	2.1	2.8567	2.6	0.2169	1.6	0.61	1265.3	17.9	
BU07-75-98	213	126245	1.5	10.3244	2.6	3.6988	3.9	0.2770	2.9	0.75	1576.0	40.7	1:
BU07-75-26	333	30740	0.9	10.2803	1.3	3.4457	1.8	0.2569	1.2	0.67	1474.0	15.5	15
BU07-75-82	85	57060	1.2	10.1920	2.6	3.4141	2.9	0.2524	1.4	0.48	1450.7	18.3	150
BU07-75-72	607	234880	1.4	10.1207	3.0	3.7370	6.3	0.2743	5.6	0.88	1562.6	77.6	1:
BU07-75-74	634	119860	5.8	10.1115	4.8	2.9716	5.1	0.2179	1.7	0.33	1270.9	19.6	1:
BU07-75-50	385	76740	1.2	10.1062	1.9	3.6911	2.2	0.2705	1.0	0.46	1543.6	13.7	15
BU07-75-41	323	101875	1.4	10.0768	1.3	3.6210	1.8	0.2646	1.3	0.70	1513.5	16.9	1:

BU07-75-91	448	120260	4.3	10.0757	1.4	3.1270	4.7	0.2285	4.5	0.95	1326.7	54.1	14
BU07-75-70	1089	331710	3.0	9.9955	1.8	3.6840	2.5	0.2671	1.7	0.70	1525.9	23.6	15
BU07-75-2	651	108145	1.1	9.9544	1.0	3.4827	1.6	0.2514	1.3	0.78	1445.9	16.3	15
BU07-75-23	558	99755	1.5	9.9240	2.8	3.5826	4.1	0.2579	3.0	0.73	1478.9	39.6	15
BU07-75-33	935	131090	2.9	9.9233	1.9	2.7765	2.2	0.1998	1.0	0.46	1174.4	10.7	13
BU07-75-76	356	207945	1.9	9.8015	2.2	4.1060	3.0	0.2919	2.1	0.69	1650.9	29.9	16
BU07-75-10	1708	461800	2.6	9.7701	1.6	3.6402	3.8	0.2579	3.5	0.91	1479.3	45.7	15
BU07-75-100	342	155510	1.1	9.7425	2.3	4.0465	2.9	0.2859	1.8	0.62	1621.1	25.9	16
BU07-75-4	648	168600	2.0	9.7221	1.3	3.2682	2.9	0.2304	2.6	0.90	1336.8	31.4	14
BU07-75-83	652	328290	1.9	9.6671	3.2	4.0561	3.4	0.2844	1.1	0.33	1613.4	16.1	16
BU07-75-13	485	163300	2.0	9.6465	2.1	4.0163	2.3	0.2810	1.1	0.47	1596.3	15.4	16
BU07-75-90	475	199685	0.8	9.5848	2.6	4.3113	3.8	0.2997	2.8	0.73	1689.8	41.5	16
BU07-75-60	1139	110255	1.8	9.5666	2.5	3.7516	2.7	0.2603	1.0	0.38	1491.4	13.3	15
BU07-75-55	1729	144795	1.5	9.5665	1.0	3.6000	2.2	0.2498	2.0	0.89	1437.3	25.5	15
BU07-75-95	69	18620	0.6	9.5640	2.8	4.1868	2.9	0.2904	1.0	0.34	1643.6	14.5	16
BU07-75-20	543	249455	2.3	9.5633	1.4	3.7902	5.7	0.2629	5.5	0.97	1504.6	73.7	15
BU07-75-43	168	52400	2.2	9.5082	1.8	4.1066	2.2	0.2832	1.3	0.58	1607.4	18.5	16
BU07-75-59	601	159610	2.2	9.4962	1.6	4.2661	2.8	0.2938	2.3	0.82	1660.6	33.4	16
BU07-75-75	328	84435	1.7	9.4868	1.6	4.5497	1.9	0.3130	1.0	0.53	1755.7	15.4	17
BU07-75-81	156	126890	1.0	9.4821	2.1	4.2204	3.2	0.2902	2.4	0.76	1642.7	35.1	16
BU07-75-92	636	603735	1.4	9.4746	2.0	4.4498	3.0	0.3058	2.2	0.74	1719.9	33.2	17
BU07-75-87	254	107050	1.6	9.4591	1.9	4.5357	2.3	0.3112	1.3	0.55	1746.4	19.6	17
BU07-75-93	268	135255	1.6	9.4502	2.2	4.3661	2.9	0.2992	1.8	0.63	1687.6	26.9	17
BU07-75-56	493	72100	1.9	9.4474	2.2	3.9829	3.1	0.2729	2.3	0.72	1555.5	31.4	16
BU07-75-67	318	98350	1.0	9.4457	1.9	4.4328	2.8	0.3037	2.1	0.75	1709.5	31.5	17
BU07-75-71	147	76530	1.4	9.4408	1.9	4.4268	2.2	0.3031	1.0	0.46	1706.7	15.0	17
BU07-75-6	130	59320	0.8	9.4374	1.0	4.4797	1.9	0.3066	1.6	0.85	1724.1	24.4	172
BU07-75-94	387	265075	1.1	9.4309	1.7	4.4054	2.0	0.3013	1.0	0.51	1697.9	14.9	17
BU07-75-19	298	176865	1.5	9.4184	2.1	4.4615	2.4	0.3048	1.0	0.42	1714.9	15.1	17
BU07-75-47	1014	324710	1.8	9.4103	1.8	3.9729	2.4	0.2711	1.6	0.67	1546.6	22.1	16
BU07-75-12	342	61355	1.6	9.4069	1.4	4.1615	1.7	0.2839	1.0	0.58	1611.1	14.3	16
BU07-75-1	987	258255	1.2	9.3800	1.1	4.2733	1.5	0.2907	1.0	0.69	1645.1	14.5	16
BU07-75-52	1158	299960	2.0	9.3726	1.2	4.3273	1.7	0.2942	1.3	0.73	1662.3	18.3	16
BU07-75-85	242	102405	1.6	9.3645	2.2	4.4602	6.4	0.3029	6.0	0.94	1705.8	90.1	17
BU07-75-46	226	91230	3.1	9.3619	1.0	4.2084	1.9	0.2857	1.6	0.85	1620.2	23.5	16
BU07-75-84	193	71295	1.3	9.3300	1.2	4.1612	2.2	0.2816	1.9	0.84	1599.3	26.5	16
BU07-75-54	1072	220815	3.3	9.3229	1.6	4.4699	2.9	0.3022	2.4	0.83	1702.4	35.5	17
BU07-75-73	194	74465	1.7	9.2955	2.6	4.6171	3.0	0.3113	1.5	0.49	1747.0	22.6	17
BU07-75-9	123	45530	1.2	9.2833	1.0	4.2254	2.7	0.2845	2.5	0.93	1613.9	35.4	167
BU07-75-99	317	194195	1.5	9.2565	2.9	4.3981	3.3	0.2953	1.6	0.50	1667.8	24.1	17
BU07-75-7	303	84410	9.2	8.2771	4.0	4.9169	5.2	0.2952	3.4	0.65	1667.3	50.0	180
BU07-75-29	324	61830	3.2	8.2259	1.2	5.0001	1.7	0.2983	1.3	0.74	1682.9	19.0	18
BU07-75-3	81	28260	1.6	6.6087	1.1	7.3560	3.4	0.3526	3.2	0.94	1946.9	53.4	215
BU07-75-39	967	412795	5.6	6.0752	2.5	10.1036	2.7	0.4452	1.0	0.37	2373.8	19.9	2
BU07-75-69	152	172060	1.8	6.0727	2.3	10.8192	4.0	0.4765	3.3	0.83	2512.1	68.4	2
BU07-75-63	186	160055	1.6	5.7827	4.0	11.1246	7.3	0.4666	6.1	0.84	2468.5	125.9	2

BU07-76-3	155	31208	1.2	9.7057	1.6	3.8617	2.5	0.2718	2.0	0.79	1550.1	27.8	160
BU07-76-58	921	112912	11.6	9.4172	1.9	3.1258	3.3	0.2135	2.7	0.82	1247.4	30.8	14
BU07-76-74	318	53188	2.4	9.3483	1.6	3.7327	3.4	0.2531	3.0	0.88	1454.3	38.9	15
BU07-76-38	407	83168	1.7	9.2717	1.5	4.2033	2.1	0.2827	1.5	0.70	1604.7	21.0	16
BU07-76-10	675	92556	3.3	9.2636	1.9	3.4292	2.5	0.2304	1.7	0.67	1336.5	20.2	15
BU07-76-75	293	51632	5.1	9.2618	1.7	4.4258	2.0	0.2973	1.0	0.51	1677.9	14.8	17
BU07-76-67	215	44880	2.1	9.1918	2.0	3.8213	2.2	0.2548	1.0	0.45	1462.9	13.1	15
BU07-76-60	283	59720	3.0	9.1304	1.3	4.6434	3.0	0.3075	2.7	0.90	1728.3	41.2	17
BU07-76-88	906	115532	6.9	9.0918	1.9	3.3494	2.2	0.2209	1.2	0.55	1286.4	14.3	14
BU07-76-72	396	27876	3.6	9.0374	2.0	3.4425	3.1	0.2256	2.5	0.78	1311.6	29.1	15
BU07-76-87	348	17696	0.9	9.0328	2.4	3.9844	2.7	0.2610	1.3	0.46	1495.1	16.7	16
BU07-76-34	484	97644	1.8	9.0260	1.2	4.5697	1.6	0.2991	1.0	0.63	1687.1	14.8	17
BU07-76-81	577	83736	1.3	8.9495	2.4	3.6958	2.7	0.2399	1.2	0.46	1386.1	15.3	15
BU07-76-47	270	50764	2.3	8.9416	1.2	4.8495	1.6	0.3145	1.0	0.63	1762.8	15.4	17
BU07-76-76	215	34032	3.2	8.9281	1.7	4.5696	2.5	0.2959	1.9	0.75	1670.9	27.5	17
BU07-76-90	257	44116	2.8	8.9116	1.4	4.3581	5.1	0.2817	4.9	0.96	1599.8	69.3	17
BU07-76-77	225	35576	2.3	8.8871	1.6	4.9629	1.9	0.3199	1.0	0.53	1789.2	15.6	18
BU07-76-2	314	72404	4.7	8.8760	1.2	4.3977	4.0	0.2831	3.8	0.96	1607.0	53.9	171
BU07-76-23	683	143896	16.4	8.8630	2.0	4.1429	2.8	0.2663	2.0	0.71	1522.0	27.1	10
BU07-76-69	610	91228	10.4	8.8528	2.3	3.4888	2.7	0.2240	1.5	0.54	1303.0	17.5	15
BU07-76-95	723	74596	5.9	8.8405	1.8	3.5259	4.3	0.2261	3.9	0.91	1313.9	45.9	15
BU07-76-84	473	80724	4.5	8.8387	2.6	4.5986	2.8	0.2948	1.0	0.35	1665.4	14.7	17
BU07-76-12	466	131660	7.3	8.8241	2.2	4.8151	4.5	0.3082	4.0	0.88	1731.6	60.4	17
BU07-76-33	552	93016	3.3	8.8127	2.3	4.0026	3.7	0.2558	3.0	0.79	1468.5	38.9	16
BU07-76-22	320	91008	2.2	8.8029	1.1	4.4943	2.1	0.2869	1.8	0.85	1626.2	25.4	17
BU07-76-51	298	58276	2.4	8.7969	1.3	5.1371	1.7	0.3278	1.1	0.66	1827.5	17.7	18
BU07-76-80	297	52184	2.1	8.7850	2.2	4.2260	2.7	0.2693	1.6	0.58	1537.0	21.5	16
BU07-76-66	616	81956	8.4	8.7765	1.7	4.0739	3.2	0.2593	2.7	0.84	1486.4	36.0	16
BU07-76-49	172	30956	1.3	8.7751	1.1	4.5941	1.8	0.2924	1.5	0.81	1653.4	21.3	17
BU07-76-65	95	23452	2.1	8.7398	2.5	5.3167	3.6	0.3370	2.6	0.71	1872.3	41.4	187
BU07-76-6	363	85532	1.0	8.7311	1.0	5.0449	2.0	0.3195	1.7	0.86	1787.1	26.7	182
BU07-76-86	345	55380	3.2	8.7059	1.3	4.3663	2.8	0.2757	2.5	0.89	1569.6	35.4	17
BU07-76-30	188	47560	5.2	8.6842	2.2	4.9640	2.5	0.3127	1.2	0.49	1753.7	19.0	18
BU07-76-78	311	59912	3.3	8.6425	1.5	4.7214	2.7	0.2959	2.2	0.83	1671.2	33.0	17
BU07-76-73	359	76468	1.7	8.5688	1.7	5.2475	2.1	0.3261	1.3	0.59	1819.5	20.0	18
BU07-76-13	642	118820	2.5	8.5672	2.3	4.8051	2.5	0.2986	1.0	0.40	1684.2	14.8	17
BU07-76-83	253	58484	2.7	8.5667	2.6	5.3851	2.8	0.3346	1.0	0.35	1860.6	16.2	18
BU07-76-89	572	92568	7.5	8.5607	1.3	4.9715	2.1	0.3087	1.7	0.80	1734.2	25.2	18
BU07-76-53	374	66660	5.0	8.5500	1.8	5.2223	2.1	0.3238	1.1	0.54	1808.4	18.0	18
BU07-76-85	125	29400	2.1	8.4476	1.4	5.3757	2.5	0.3294	2.0	0.81	1835.3	31.9	18
BU07-76-59	169	48992	3.0	8.4261	1.2	5.7056	2.3	0.3487	2.0	0.85	1928.3	33.2	19
BU07-76-96	430	98076	5.1	8.4199	1.4	5.1515	2.3	0.3146	1.9	0.82	1763.2	29.6	18
BU07-76-50	559	136232	11.0	8.4091	1.0	5.4021	1.4	0.3295	1.0	0.71	1835.8	16.0	18
BU07-76-14	268	75244	6.9	8.4041	1.1	4.9691	3.1	0.3029	2.9	0.93	1705.6	43.5	18
BU07-76-97	450	94476	2.7	8.3870	2.1	5.2699	3.0	0.3206	2.2	0.73	1792.5	34.3	18
BU07-76-17	518	77648	4.3	8.3478	2.2	5.1420	2.4	0.3113	1.0	0.42	1747.2	15.3	18
BU07-76-31	519	88540	6.8	8.3046	1.8	4.4124	3.8	0.2658	3.3	0.88	1519.3	44.9	17

BU07-76-92	419	109740	9.1	8.3045	1.3	5.7516	1.7	0.3464	1.0	0.60	1917.5	16.6	19
BU07-76-25	784	186200	18.1	8.3010	1.8	4.7895	2.3	0.2883	1.5	0.63	1633.3	20.9	1
BU07-76-29	431	105072	3.2	8.2685	1.6	5.1231	2.6	0.3072	2.1	0.80	1727.0	31.8	18
BU07-76-15	166	51168	1.3	8.2388	1.4	5.0504	3.1	0.3018	2.7	0.90	1700.1	40.8	18
BU07-76-62	380	135836	21.6	8.2328	1.2	5.9676	1.5	0.3563	1.0	0.65	1964.7	16.9	1
BU07-76-1	674	110620	3.4	8.1939	2.2	4.9237	2.8	0.2926	1.8	0.63	1654.5	25.7	18
BU07-76-91	422	58012	4.5	8.1922	2.9	4.2513	3.1	0.2526	1.1	0.36	1451.8	14.6	16
BU07-76-56	253	36752	1.3	8.1214	1.5	5.4720	3.8	0.3223	3.5	0.92	1801.0	55.0	18
BU07-76-45	461	80464	4.4	8.1147	1.1	5.3510	1.5	0.3149	1.0	0.68	1764.9	15.4	18
BU07-76-94	309	72380	2.4	8.1046	1.5	6.0509	2.1	0.3557	1.5	0.70	1961.6	24.5	19
BU07-76-40	416	68256	5.6	8.0280	1.3	5.4361	3.3	0.3165	3.0	0.91	1772.7	47.0	18
BU07-76-39	488	103080	6.3	7.8993	2.1	4.9088	2.8	0.2812	1.9	0.68	1597.6	26.6	18
BU07-76-43	321	55588	1.1	7.5076	1.4	5.1068	2.5	0.2781	2.2	0.85	1581.6	30.2	18
BU07-76-24	197	74980	6.2	7.4742	1.4	6.0661	1.8	0.3288	1.2	0.63	1832.7	18.3	19
BU07-76-20	43	19260	1.5	7.4665	2.4	6.8245	4.4	0.3696	3.8	0.85	2027.3	65.2	208
BU07-76-99	250	87148	3.4	7.4581	3.1	7.2730	3.3	0.3934	1.0	0.31	2138.6	18.2	21
BU07-76-11	59	18348	2.2	7.4094	1.7	6.7046	2.0	0.3603	1.0	0.50	1983.5	17.1	207
BU07-76-79	71	25660	1.7	7.3878	1.9	6.9421	2.1	0.3720	1.0	0.48	2038.6	18.0	210
BU07-76-18	381	102852	1.7	7.3363	1.5	6.8643	2.1	0.3652	1.4	0.69	2006.9	24.7	20
BU07-76-54	470	113592	1.5	7.1949	1.5	7.7204	1.8	0.4029	1.0	0.56	2182.2	18.9	21
BU07-76-5	221	48216	2.2	7.1502	1.0	6.3795	2.8	0.3308	2.6	0.93	1842.4	41.7	202
BU07-76-98	310	68740	4.5	7.0183	1.6	7.4029	2.3	0.3768	1.6	0.70	2061.4	28.1	210
BU07-76-44	257	746580	3.5	6.5236	3.3	8.2491	6.1	0.3903	5.1	0.84	2124.2	91.9	22
BU07-76-32	507	72428	1.0	6.4665	2.9	7.1188	3.2	0.3339	1.4	0.43	1857.1	22.3	21
BU07-76-9	578	88044	0.9	6.2959	1.0	8.1290	1.4	0.3712	1.0	0.71	2035.0	17.5	224
BU07-76-93	196	50948	1.5	6.1746	1.0	8.2389	2.4	0.3690	2.2	0.91	2024.5	38.4	22
BU07-76-41	213	49116	1.3	6.1242	1.3	8.5826	5.3	0.3812	5.1	0.97	2082.0	91.3	22
BU07-76-52	418	100488	0.8	6.0977	2.5	9.4626	2.7	0.4185	1.0	0.37	2253.6	19.0	23
BU07-76-61	357	97832	1.9	6.0397	1.8	10.3624	2.0	0.4539	1.0	0.49	2412.6	20.1	24
BU07-76-37	168	74840	1.2	6.0365	2.4	9.5817	4.0	0.4195	3.2	0.81	2258.2	61.5	23
BU07-76-100	403	86180	1.6	6.0236	1.0	8.7177	3.9	0.3809	3.8	0.97	2080.3	67.6	23
BU07-76-42	96	29244	1.7	6.0087	1.9	10.5442	2.9	0.4595	2.2	0.75	2437.4	45.1	24
BU07-76-55	217	67268	1.4	5.9991	1.4	10.8383	2.3	0.4716	1.9	0.80	2490.5	38.2	25
BU07-76-68	261	59964	2.5	5.9739	1.9	9.2190	2.4	0.3994	1.5	0.63	2166.4	27.8	23
BU07-76-64	168	32888	1.9	5.9383	2.3	10.7923	2.5	0.4648	1.0	0.40	2460.8	20.5	25
BU07-76-27	69	25744	1.1	5.9160	1.9	10.4154	2.9	0.4469	2.2	0.76	2381.4	44.4	24
BU07-76-82	245	90120	1.4	5.6451	1.5	11.4911	2.9	0.4705	2.5	0.87	2485.6	52.2	25
BU07-76-46	100	39896	2.2	5.5780	1.1	11.3724	2.2	0.4601	1.9	0.87	2439.9	38.6	25
BU07-76-7	69	21812	2.1	5.2770	1.0	10.4585	2.7	0.4003	2.5	0.93	2170.3	45.9	247
BU0777-16	398	82665	1.6	9.6046	1.0	4.0758	3.2	0.2839	3.1	0.95	1611.1	43.5	16
BU0777-14	347	70350	1.7	9.5878	3.4	3.8422	3.7	0.2672	1.4	0.39	1526.4	19.6	160
BU0777-12	546	59275	1.3	9.4215	3.6	3.7748	3.7	0.2579	1.1	0.29	1479.3	14.0	158
BU0777-13	251	52940	2.2	9.2842	2.7	3.2754	2.9	0.2205	1.0	0.34	1284.8	11.6	14
BU0777-64	218	62645	1.3	9.2811	2.0	4.6670	2.2	0.3141	1.1	0.49	1761.1	17.0	176
BU0777-4	471	50065	2.4	9.2171	1.9	3.9017	2.1	0.2608	1.0	0.47	1494.1	13.3	161
BU0777-3	826	69800	5.1	9.1914	1.1	3.8334	2.2	0.2555	2.0	0.87	1467.0	25.6	159

BU0777-79	294	99800	4.2	9.1644	3.1	3.6950	3.4	0.2456	1.4	0.42	1415.7	17.8	15:
BU0777-76	184	61615	2.3	9.1602	3.6	4.1768	5.4	0.2775	4.0	0.75	1578.7	56.6	16:
BU0777-31	618	47840	0.9	9.1317	1.4	3.9686	2.0	0.2628	1.4	0.69	1504.3	18.2	16:
BU0777-38	485	71695	3.3	9.0960	2.9	4.0697	4.1	0.2685	3.0	0.72	1533.1	40.4	16:
BU0777-94	411	106370	5.0	9.0740	1.1	4.8526	1.9	0.3194	1.6	0.82	1786.6	24.3	17:
BU0777-26	145	30030	2.5	9.0720	2.4	4.5941	2.6	0.3023	1.0	0.38	1702.6	15.0	17:
BU0777-23	341	74345	5.0	9.0684	2.3	4.4718	3.2	0.2941	2.2	0.69	1662.0	32.4	17:
BU0777-68	142	25770	0.4	9.0394	2.3	4.3377	3.6	0.2844	2.8	0.78	1613.4	40.3	17:
BU0777-69	478	77245	3.3	9.0312	1.5	4.7607	1.8	0.3118	1.0	0.56	1749.7	15.3	17:
BU0777-25	262	60800	1.4	9.0301	1.7	4.5879	2.4	0.3005	1.6	0.69	1693.6	24.1	17:
BU0777-78	138	77940	0.8	9.0173	2.8	4.9800	2.9	0.3257	1.0	0.34	1817.5	15.8	18:
BU0777-8	648	103005	2.2	8.9472	1.4	3.5213	1.7	0.2285	1.0	0.59	1326.7	12.0	15:
BU0777-80	194	77710	1.7	8.9458	4.4	5.0015	4.6	0.3245	1.0	0.22	1811.7	15.8	18:
BU0777-89	167	68045	1.3	8.9447	3.0	4.6779	3.3	0.3035	1.4	0.43	1708.5	21.5	17:
BU0777-74	301	55860	2.5	8.9186	1.8	4.1221	2.4	0.2666	1.7	0.69	1523.7	22.9	16:
BU0777-95	876	169215	7.6	8.8771	2.0	3.8080	2.4	0.2452	1.3	0.53	1413.5	16.0	15:
BU0777-73	737	36965	5.2	8.8608	3.8	3.7627	4.0	0.2418	1.3	0.33	1396.1	16.6	15:
BU0777-99	405	87145	1.4	8.8420	1.0	4.7531	1.5	0.3048	1.1	0.73	1715.1	16.0	17:
BU0777-83	195	67670	1.7	8.8406	2.8	4.8342	3.0	0.3100	1.0	0.33	1740.5	15.3	17:
BU0777-6	505	47075	1.5	8.8339	1.9	4.0958	3.8	0.2624	3.3	0.86	1502.2	43.8	165:
BU0777-32	589	60040	9.4	8.8150	2.2	4.0473	7.9	0.2588	7.6	0.96	1483.4	100.9	16:
BU0777-37	472	93640	1.5	8.7974	3.9	5.0287	4.0	0.3209	1.0	0.25	1793.9	15.7	18:
BU0777-59	396	65975	1.2	8.7514	1.6	4.7242	2.2	0.2998	1.6	0.72	1690.5	23.9	17:
BU0777-44	283	67965	2.0	8.7507	1.4	4.8966	2.7	0.3108	2.3	0.85	1744.5	35.0	180:
BU0777-88	273	59640	4.0	8.7433	2.1	5.0621	2.8	0.3210	1.8	0.65	1794.6	28.7	18:
BU0777-18	561	87540	2.8	8.7362	1.0	4.5543	2.2	0.2886	2.0	0.89	1634.4	28.4	17:
BU0777-55	202	8975	2.5	8.7324	2.4	4.6031	2.6	0.2915	1.0	0.38	1649.2	14.6	174:
BU0777-36	513	115600	4.3	8.7193	1.4	4.7743	1.8	0.3019	1.0	0.57	1700.8	14.9	17:
BU0777-66	604	24440	2.5	8.6970	4.2	3.8872	4.6	0.2452	1.9	0.41	1413.6	24.0	16:
BU0777-20	258	52395	1.5	8.6880	1.3	4.6160	1.9	0.2909	1.3	0.71	1645.8	19.3	17:
BU0777-72	453	105915	2.9	8.6615	1.0	5.0181	2.6	0.3152	2.4	0.93	1766.4	37.7	18:
BU0777-24	325	86960	2.4	8.6534	1.9	4.7741	2.9	0.2996	2.3	0.77	1689.4	33.7	17:
BU0777-29	553	107735	7.6	8.6378	3.6	4.8822	3.7	0.3059	1.0	0.28	1720.3	15.4	17:
BU0777-91	373	124050	3.1	8.6336	1.9	4.8607	2.5	0.3044	1.7	0.68	1712.9	25.9	17:
BU0777-11	527	57380	2.8	8.6200	1.4	4.4215	2.3	0.2764	1.8	0.78	1573.3	24.6	17:
BU0777-85	367	20770	2.7	8.6122	4.3	4.2221	6.2	0.2637	4.5	0.72	1508.9	59.9	16:
BU0777-82	190	80065	2.5	8.6030	3.9	5.1056	4.0	0.3186	1.1	0.26	1782.7	16.4	18:
BU0777-81	244	123985	1.8	8.5871	2.4	5.0329	2.6	0.3134	1.0	0.38	1757.6	15.4	18:
BU0777-93	681	143825	3.2	8.5584	1.4	4.6934	1.7	0.2913	1.0	0.58	1648.1	14.5	17:
BU0777-9	376	59360	2.1	8.4905	1.8	4.6923	2.2	0.2889	1.4	0.61	1636.3	19.7	176:
BU0777-45	148	40445	1.3	8.4850	1.8	5.4236	2.0	0.3338	1.0	0.50	1856.6	16.1	18:
BU0777-70	458	17705	1.9	8.4672	3.6	4.2470	4.0	0.2608	1.7	0.43	1494.0	23.2	16:
BU0777-98	302	43080	2.9	8.4075	9.6	4.4311	9.9	0.2702	2.4	0.24	1541.8	32.5	17:
BU0777-27	226	87080	2.1	8.3588	3.0	5.3018	3.2	0.3214	1.0	0.31	1796.6	15.7	18:
BU0777-65	207	44765	0.8	8.2833	2.3	5.8524	2.6	0.3516	1.4	0.52	1942.2	23.0	19:
BU0777-57	323	53340	2.1	8.2739	1.8	5.5371	2.1	0.3323	1.0	0.49	1849.4	16.1	190:
BU0777-77	510	152275	3.2	8.2713	4.5	5.0555	4.8	0.3033	1.9	0.39	1707.5	28.2	18:

BU0777-87	312	47275	1.5	8.1725	2.1	5.0952	3.5	0.3020	2.8	0.79	1701.2	41.3	18:
BU0777-53	190	37135	2.8	8.1680	1.5	5.5939	2.0	0.3314	1.3	0.67	1845.1	21.2	19:
BU0777-86	758	24740	1.6	8.1580	2.0	4.4805	2.9	0.2651	2.2	0.73	1515.9	29.0	17:
BU0777-50	226	43810	2.6	8.0770	3.4	5.5918	3.6	0.3276	1.0	0.28	1826.6	15.9	19:
BU0777-34	175	55205	2.1	8.0610	3.6	5.3739	3.9	0.3142	1.5	0.37	1761.3	22.5	18:
BU0777-51	276	57910	1.5	8.0456	1.6	6.3104	1.9	0.3682	1.0	0.52	2021.0	17.3	20:
BU0777-48	59	22375	2.5	8.0315	3.7	6.0858	3.8	0.3545	1.0	0.26	1956.0	16.9	198
BU0777-33	119	49525	2.4	8.0195	2.4	5.8538	2.6	0.3405	1.0	0.38	1889.0	16.4	19:
BU0777-41	442	91990	3.3	7.9937	6.6	5.6881	6.6	0.3298	1.0	0.15	1837.3	16.3	19:
BU0777-1	335	42560	1.9	7.7258	1.2	6.0416	1.5	0.3385	1.0	0.65	1879.6	16.3	198
BU0777-43	282	42845	1.5	7.6862	1.7	6.4072	2.8	0.3572	2.2	0.79	1968.7	38.0	20:
BU0777-92	487	131715	3.9	7.5122	1.4	6.2907	2.9	0.3427	2.6	0.88	1899.8	42.1	20
BU0777-47	156	52680	1.8	7.0457	4.8	8.4767	4.9	0.4332	1.0	0.20	2320.0	19.5	22:
BU0777-63	335	111635	1.2	6.9926	1.5	7.4853	2.7	0.3796	2.3	0.84	2074.5	40.6	21
BU0777-90	502	85785	2.0	6.9404	1.7	6.2141	4.1	0.3128	3.7	0.91	1754.5	56.8	200
BU0777-21	158	61385	1.9	6.8219	1.4	7.8119	1.9	0.3865	1.3	0.67	2106.6	22.6	220
BU0777-60	202	55915	1.6	6.7428	1.3	8.0807	1.9	0.3952	1.3	0.72	2146.8	24.5	22:
BU0777-56	182	48105	1.7	6.5074	2.4	8.5026	2.9	0.4013	1.6	0.56	2175.0	30.1	22:
BU0777-15	278	111325	2.1	6.4147	1.6	8.4727	2.1	0.3942	1.4	0.65	2142.2	25.2	22
BU0777-30	183	95685	1.0	6.3480	5.1	9.3726	5.2	0.4315	1.0	0.19	2312.6	19.4	23:
BU0777-7	171	51395	1.6	6.3341	1.8	9.4094	3.2	0.4323	2.6	0.83	2315.9	51.2	237
BU0777-46	297	98000	2.1	6.2036	2.3	7.6717	2.5	0.3452	1.0	0.41	1911.5	16.5	219
BU0777-61	336	64355	2.0	6.1205	1.5	8.2497	4.3	0.3662	4.0	0.94	2011.5	69.6	22:
BU0777-100	513	66860	1.3	6.0226	1.6	8.2802	2.9	0.3617	2.5	0.85	1990.1	42.5	22
BU0777-58	128	33890	1.0	6.0199	1.3	10.0563	1.9	0.4391	1.3	0.71	2346.4	26.2	24
BU0777-22	109	39680	1.2	6.0124	2.8	9.9542	4.1	0.4341	2.9	0.73	2324.0	57.4	24:
BU0777-97	345	142760	2.1	5.6820	1.6	10.1024	1.9	0.4163	1.0	0.53	2243.7	18.9	24:
BU0777-67	214	60860	0.6	5.4811	1.0	12.4069	1.6	0.4932	1.3	0.79	2584.5	27.7	26
BU0777-2	374	116015	0.7	4.5744	1.9	16.9643	2.1	0.5628	1.0	0.48	2878.3	23.2	29
BU07-79-45	611	91140	1.7	15.4933	2.0	0.9282	3.1	0.1043	2.3	0.76	639.5	14.1	661
BU07-79-56	546	35164	2.3	14.6304	3.0	0.9939	7.0	0.1055	6.3	0.90	646.4	39.0	701
BU07-79-47	932	65420	1.4	15.4705	2.5	0.9557	2.7	0.1072	1.0	0.38	656.6	6.4	681
BU07-79-77	968	133296	18.8	13.9295	2.0	1.1258	8.3	0.1137	8.0	0.97	694.4	52.8	71
BU07-79-31	96	10440	1.9	15.2643	3.5	1.0434	3.7	0.1155	1.0	0.27	704.7	6.7	725
BU07-79-21	741	28600	1.2	15.1021	1.3	1.0841	1.7	0.1187	1.0	0.60	723.3	6.8	745
BU07-79-67	533	25024	1.5	14.9167	2.4	1.1316	2.7	0.1224	1.3	0.48	744.5	9.2	768
BU07-79-36	829	62632	1.2	14.6480	2.9	1.1533	3.5	0.1225	1.9	0.54	745.1	13.3	771
BU07-79-8	1318	153688	5.6	14.9107	1.2	1.1375	2.7	0.1230	2.4	0.90	747.8	16.9	77
BU07-79-87	511	46324	1.7	15.5379	1.3	1.1067	1.8	0.1247	1.3	0.72	757.6	9.2	756
BU07-79-89	348	29352	2.9	14.5709	1.6	1.1904	2.5	0.1258	1.9	0.78	763.8	13.9	791
BU07-79-95	876	87276	6.7	15.1478	3.2	1.1738	3.4	0.1290	1.0	0.29	781.9	7.4	788
BU07-79-82	409	41448	1.4	15.2921	2.0	1.1651	4.0	0.1292	3.4	0.87	783.4	25.4	781
BU07-79-85	482	45272	0.7	15.2557	2.0	1.1739	2.4	0.1299	1.4	0.56	787.2	10.0	781
BU07-79-51	397	71064	6.0	15.0104	1.6	1.1983	2.9	0.1304	2.4	0.84	790.4	17.9	791
BU07-79-99	337	28648	3.3	14.6868	1.9	1.2383	2.7	0.1319	2.0	0.72	798.7	14.9	811
BU07-79-92	810	78112	6.0	15.0634	1.3	1.2088	1.7	0.1321	1.0	0.60	799.6	7.5	804

BU07-79-96	691	98028	2.3	14.5639	2.0	1.2518	3.1	0.1322	2.3	0.75	800.5	17.5	82
BU07-79-64	162	63240	1.7	15.2880	1.9	1.1970	2.5	0.1327	1.6	0.64	803.4	12.1	79
BU07-79-66	377	39796	2.6	14.8638	2.2	1.2427	2.5	0.1340	1.0	0.41	810.4	7.8	820
BU07-79-97	589	52820	1.1	14.5759	2.0	1.2829	2.2	0.1356	1.0	0.45	819.8	7.7	838
BU07-79-61	130	17328	1.1	14.5614	4.2	1.2853	5.4	0.1357	3.3	0.61	820.5	25.3	83
BU07-79-28	470	63576	2.3	14.7785	2.0	1.2692	3.0	0.1360	2.3	0.75	822.2	17.4	83
BU07-79-68	527	62120	2.8	14.8551	2.3	1.2675	3.9	0.1366	3.2	0.82	825.2	24.6	83
BU07-79-32	217	34172	2.4	15.1670	1.9	1.2500	2.1	0.1375	1.0	0.47	830.5	7.8	823
BU07-79-80	94	12704	0.8	14.3075	4.0	1.3268	4.3	0.1377	1.5	0.34	831.5	11.3	857
BU07-79-72	347	39228	6.7	14.9403	1.3	1.2827	2.6	0.1390	2.3	0.87	838.9	17.9	83
BU07-79-23	764	88516	9.7	14.9699	2.0	1.2845	2.5	0.1395	1.6	0.62	841.6	12.2	83
BU07-79-86	314	37564	9.3	14.6918	1.7	1.3187	1.9	0.1405	1.0	0.52	847.6	7.9	854
BU07-79-63	397	51248	3.5	14.8009	2.0	1.3094	2.8	0.1406	1.9	0.70	847.8	15.3	84
BU07-79-73	471	48744	4.6	14.6735	1.4	1.3291	1.7	0.1415	1.0	0.58	852.9	8.0	858
BU07-79-42	317	34664	1.7	14.5057	1.4	1.3469	2.2	0.1417	1.7	0.79	854.3	13.9	86
BU07-79-15	646	69904	1.6	14.6806	1.9	1.3343	3.0	0.1421	2.4	0.78	856.4	18.8	86
BU07-79-50	294	29804	2.3	14.4491	3.0	1.3594	3.2	0.1425	1.0	0.31	858.5	8.0	871
BU07-79-14	250	38320	2.0	14.7463	2.0	1.3494	2.6	0.1443	1.6	0.62	869.0	13.0	86
BU07-79-2	177	20588	1.6	14.5662	2.6	1.3729	7.4	0.1450	6.9	0.94	873.1	56.4	877
BU07-79-10	680	96524	2.0	14.6090	1.8	1.3691	2.0	0.1451	1.0	0.50	873.3	8.2	875
BU07-79-33	717	82136	5.4	13.9293	2.0	1.4434	4.5	0.1458	4.1	0.90	877.5	33.6	90
BU07-79-39	239	28476	2.4	14.3821	1.5	1.3998	2.5	0.1460	2.0	0.79	878.6	16.3	88
BU07-79-60	173	27916	1.9	14.1166	2.5	1.4333	3.4	0.1467	2.4	0.70	882.7	19.8	90
BU07-79-26	186	18292	2.1	14.6509	1.8	1.3875	2.9	0.1474	2.3	0.78	886.5	18.6	88
BU07-79-100	524	61968	2.3	13.8531	2.8	1.4747	3.5	0.1482	2.1	0.61	890.6	17.7	92
BU07-79-70	296	37384	1.5	14.4985	1.8	1.4153	2.9	0.1488	2.2	0.78	894.4	18.5	89
BU07-79-40	494	62552	7.8	14.3181	2.7	1.4370	4.8	0.1492	4.0	0.83	896.6	33.6	90
BU07-79-27	1013	111132	6.7	14.2351	1.7	1.4563	3.5	0.1503	3.0	0.88	902.9	25.6	9
BU07-79-38	471	65528	2.1	14.3687	1.9	1.4546	2.4	0.1516	1.5	0.61	909.8	12.3	91
BU07-79-9	155	19928	1.8	14.1685	3.0	1.4853	3.2	0.1526	1.0	0.31	915.7	8.5	924
BU07-79-43	505	68744	1.5	14.1776	2.8	1.5093	5.2	0.1552	4.4	0.84	930.0	38.0	93
BU07-79-57	568	81552	2.9	14.0891	2.3	1.5367	3.0	0.1570	2.0	0.66	940.3	17.2	94
BU07-79-7	270	45568	0.7	13.9280	1.9	1.6706	2.4	0.1688	1.5	0.60	1005.3	13.5	99
BU07-79-84	543	70640	1.8	13.9209	2.3	1.5969	3.2	0.1612	2.2	0.69	963.6	20.0	96
BU07-79-20	1451	180668	5.1	13.8747	1.4	1.5844	2.6	0.1594	2.3	0.86	953.7	20.1	90
BU07-79-83	347	40776	2.1	13.8214	1.7	1.6224	2.1	0.1626	1.3	0.62	971.4	11.8	97
BU07-79-54	256	32732	1.5	13.7980	2.4	1.6464	2.7	0.1648	1.3	0.48	983.2	11.8	98
BU07-79-41	515	87932	7.1	12.0965	1.2	2.3975	1.5	0.2103	1.0	0.65	1230.6	11.2	12
BU07-79-75	104	20584	1.5	11.6496	1.7	2.7598	3.9	0.2332	3.6	0.90	1351.1	43.3	13
BU07-79-19	286	44996	2.3	11.2882	1.6	2.8113	3.3	0.2302	2.9	0.87	1335.4	34.7	13
BU07-79-79	229	58240	1.4	10.7944	2.1	2.9104	2.7	0.2278	1.8	0.66	1323.2	21.3	13
BU07-79-4	166	29784	1.2	10.3708	1.4	3.2153	1.8	0.2418	1.0	0.57	1396.3	12.6	14
BU07-79-1	439	83864	2.2	10.1729	1.4	3.1694	6.6	0.2338	6.5	0.98	1354.6	79.4	14
BU07-79-34	277	69348	1.2	10.0350	2.3	3.7177	2.8	0.2706	1.6	0.58	1543.7	22.2	15
BU07-79-98	290	63708	1.7	9.8450	1.1	3.9561	2.9	0.2825	2.7	0.92	1603.8	38.1	16
BU07-79-49	493	99956	2.3	9.5275	2.7	3.8691	6.9	0.2674	6.4	0.92	1527.4	86.4	16
BU07-79-90	476	79500	1.1	9.5184	1.2	3.8577	3.4	0.2663	3.2	0.94	1522.1	43.8	16

BU07-79-12	353	75548	1.5	9.5059	1.7	4.4418	2.6	0.3062	1.9	0.75	1722.1	29.3	17
BU07-79-30	208	36004	1.3	9.5000	3.4	4.0843	4.0	0.2814	2.1	0.52	1598.5	30.0	16
BU07-79-71	91	23328	0.8	9.4671	2.0	4.5346	2.3	0.3114	1.0	0.44	1747.4	15.3	173
BU07-79-48	142	32644	1.2	9.3804	1.9	4.3698	6.7	0.2973	6.4	0.96	1677.9	94.3	17
BU07-79-78	254	57968	1.9	9.2723	1.0	4.4614	2.1	0.3000	1.9	0.88	1691.4	27.7	17
BU07-79-58	859	158088	8.6	9.2520	3.1	4.0946	4.7	0.2748	3.5	0.75	1564.9	48.9	16
BU07-79-29	213	69252	1.3	8.9265	1.9	4.9697	3.0	0.3217	2.3	0.78	1798.2	36.1	18
BU07-79-18	750	99752	3.4	8.8861	1.3	4.1084	1.9	0.2648	1.4	0.73	1514.2	18.4	16
BU07-79-93	318	83212	4.4	8.7996	1.0	5.1066	1.7	0.3259	1.3	0.80	1818.5	20.9	18
BU07-79-37	142	41824	2.3	8.7691	1.0	4.8612	3.5	0.3092	3.4	0.96	1736.6	51.8	17
BU07-79-69	219	65916	1.3	8.7282	2.0	5.0469	2.5	0.3195	1.5	0.60	1787.2	23.1	18
BU07-79-24	408	108740	6.1	8.4375	3.0	5.2534	6.4	0.3215	5.7	0.88	1796.9	89.2	18
BU07-79-13	89	26872	1.9	7.6926	2.0	6.6308	2.4	0.3699	1.4	0.57	2029.2	24.4	206
BU07-79-59	520	158316	1.9	6.2488	2.3	9.5231	2.5	0.4316	1.0	0.40	2312.9	19.4	23
BU07-79-62	256	92328	0.8	6.1356	2.1	10.2124	3.4	0.4544	2.7	0.78	2415.0	53.8	24
BU07-79-16	328	126884	0.7	6.0358	3.9	10.4992	4.9	0.4596	2.9	0.59	2437.8	58.1	2
BU07-79-81	105	47340	1.1	6.0075	1.5	10.8699	1.8	0.4736	1.0	0.56	2499.4	20.7	25
BU07-79-46	86	34780	0.5	5.9992	1.8	10.1421	3.9	0.4413	3.5	0.89	2356.4	68.9	24
BU07-79-53	286	108204	1.6	5.9862	1.3	10.8323	2.4	0.4703	2.1	0.85	2484.9	42.9	2
BU07-79-74	354	100736	2.4	5.9578	1.9	10.5010	2.9	0.4538	2.1	0.75	2411.9	42.9	2
BU07-79-88	132	61092	2.1	5.9498	2.7	10.2301	3.7	0.4414	2.5	0.69	2357.1	49.8	24
BU07-79-91	278	106224	12.4	5.8665	1.4	10.5716	2.4	0.4498	2.0	0.82	2394.4	39.8	2
BU0783-51	6153	184515	49.8	18.1545	2.8	0.3671	6.5	0.0483	5.9	0.90	304.3	17.5	3
BU0783-72	1492	84410	22.2	17.7157	1.9	0.4169	4.1	0.0536	3.7	0.89	336.4	12.2	3
BU0783-85	2859	100570	30.4	17.3437	1.4	0.4624	1.7	0.0582	1.0	0.59	364.5	3.5	38
BU0783-46	3580	116570	0.7	17.8590	3.9	0.4690	5.0	0.0607	3.2	0.63	380.1	11.6	39
BU0783-57	2742	158925	8.3	17.1947	2.8	0.4995	4.0	0.0623	2.8	0.71	389.5	10.6	4
BU0783-88	1766	49310	14.3	17.1201	2.4	0.5075	2.6	0.0630	1.0	0.38	393.9	3.8	41
BU0783-64	1139	79180	0.6	17.3463	3.1	0.5174	4.8	0.0651	3.7	0.77	406.5	14.6	42
BU0783-48	1877	67825	1.9	17.6491	2.0	0.5146	2.5	0.0659	1.5	0.59	411.2	5.8	42
BU0783-69	1322	73835	17.7	16.9142	2.9	0.5387	5.2	0.0661	4.3	0.83	412.5	17.3	43
BU0783-63	1220	49150	1.0	16.7806	4.5	0.5538	5.1	0.0674	2.4	0.48	420.5	9.9	44
BU0783-80	4047	229425	13.6	18.0670	2.7	0.5198	3.0	0.0681	1.2	0.41	424.8	5.1	42
BU0783-76	3721	190960	4.4	17.2501	2.0	0.5527	3.2	0.0691	2.4	0.77	431.0	10.2	42
BU0783-49	2445	83125	6.8	17.3021	3.3	0.5523	3.4	0.0693	1.0	0.29	431.9	4.2	446
BU0783-87	3134	111040	14.6	17.5717	1.0	0.5511	1.4	0.0702	1.0	0.71	437.5	4.2	44
BU0783-78	3311	223340	38.3	17.3818	2.5	0.5575	3.4	0.0703	2.4	0.69	437.8	9.9	44
BU0783-66	1012	58850	8.0	16.7108	1.6	0.5840	2.2	0.0708	1.5	0.68	440.8	6.4	46
BU0783-62	9379	342100	27.4	17.1818	1.0	0.5680	1.4	0.0708	1.0	0.71	440.9	4.3	45
BU0783-86	1189	59890	7.3	17.3578	2.0	0.5717	2.6	0.0720	1.6	0.63	448.0	7.0	45
BU0783-65	12053	581185	88.4	17.5539	2.4	0.5667	2.9	0.0722	1.6	0.56	449.1	7.0	4
BU0783-74	2805	168710	18.5	17.3104	3.3	0.5752	4.5	0.0722	3.1	0.68	449.5	13.3	4
BU0783-54	542	47185	4.4	17.4437	3.8	0.5779	4.4	0.0731	2.2	0.51	454.9	9.8	463
BU0783-5	4720	142910	16.3	16.9686	3.9	0.5977	5.0	0.0736	3.1	0.63	457.6	13.8	47
BU0783-68	849	60445	7.7	16.9369	2.3	0.6004	3.9	0.0738	3.1	0.80	458.7	13.9	47
BU0783-61	3095	259815	10.9	17.2499	2.4	0.5919	2.7	0.0741	1.1	0.42	460.5	5.0	47

BU0783-42	1900	114800	0.6	17.5037	2.8	0.5867	3.0	0.0745	1.1	0.37	463.1	4.9	46
BU0783-43	2145	165000	8.2	17.6274	3.4	0.5854	3.9	0.0748	1.8	0.46	465.2	7.9	46
BU0783-77	2961	216585	14.7	17.4384	2.8	0.6003	3.9	0.0759	2.8	0.70	471.8	12.6	4
BU0783-47	1170	60660	2.1	17.1930	2.7	0.6127	3.1	0.0764	1.5	0.48	474.6	6.9	48
BU0783-41	1646	169005	25.8	17.6734	3.5	0.5988	3.7	0.0768	1.2	0.33	476.7	5.5	47
BU0783-67	1714	161950	33.2	17.2659	2.4	0.6142	3.0	0.0769	1.7	0.58	477.7	7.9	48
BU0783-59	1435	168545	22.3	16.9458	2.7	0.6294	2.9	0.0774	1.0	0.35	480.3	4.6	49
BU0783-40	772	98715	2.9	17.9463	4.6	0.6149	4.7	0.0800	1.0	0.21	496.3	4.8	486
BU0783-82	1158	68585	9.9	17.8479	2.7	0.6183	3.1	0.0800	1.5	0.49	496.4	7.2	488
BU0783-52	554	37700	2.6	16.9162	4.5	0.6753	4.7	0.0828	1.5	0.31	513.1	7.2	523
BU0783-79	537	48050	3.0	16.5276	4.2	0.7570	5.7	0.0907	3.9	0.69	559.9	21.1	57
BU0783-58	3646	560720	6.9	14.5688	4.1	1.2873	5.6	0.1360	3.8	0.68	822.1	29.6	84
BU0783-53	323	76825	0.9	12.3748	2.6	2.1024	3.0	0.1887	1.4	0.48	1114.3	14.7	11
BU0783-56	620	225250	4.3	11.5417	2.4	2.5341	4.1	0.2121	3.3	0.82	1240.1	37.7	12
BU0783-89	393	47445	1.0	8.6698	3.5	4.0134	4.1	0.2524	2.1	0.51	1450.6	27.3	16
BU0783-71	390	158490	2.8	8.2962	5.9	4.1026	8.0	0.2468	5.5	0.68	1422.2	69.6	16
BU0783-75	693	215625	1.7	6.0471	2.9	8.7977	4.4	0.3858	3.3	0.75	2103.5	59.1	23
BU0784-51	319	57380	0.8	13.7713	1.5	1.6798	3.2	0.1678	2.8	0.88	999.9	25.9	100
BU0784-11	1081	178340	4.5	13.0795	1.5	1.6982	2.3	0.1611	1.8	0.78	962.9	16.5	10
BU0784-19	288	62590	1.9	12.7678	1.3	2.0063	1.7	0.1858	1.0	0.60	1098.5	10.1	11
BU0784-71	74	25485	0.9	12.6912	1.8	2.1394	2.4	0.1969	1.6	0.67	1158.7	16.9	116
BU0784-1	1726	320910	25.0	12.6020	1.5	2.0619	2.0	0.1885	1.4	0.68	1113.0	14.0	1
BU0784-49	195	41225	0.7	12.2854	1.2	2.4073	2.5	0.2145	2.1	0.87	1252.7	24.4	12
BU0784-10	488	116850	4.0	11.6359	2.4	2.7899	2.7	0.2354	1.3	0.46	1363.0	15.5	13
BU0784-6	446	101415	1.6	11.6228	2.0	2.0580	2.4	0.1735	1.2	0.52	1031.3	11.6	11
BU0784-7	206	63365	3.1	11.5677	2.4	2.8647	3.2	0.2403	2.2	0.67	1388.4	27.0	137
BU0784-83	585	247595	2.2	11.5103	2.6	2.5460	4.3	0.2125	3.4	0.79	1242.3	38.4	12
BU0784-12	362	88945	0.9	11.3627	1.3	2.6805	1.8	0.2209	1.2	0.68	1286.6	14.5	13
BU0784-30	227	60370	1.5	11.3457	1.0	2.7749	2.0	0.2283	1.7	0.86	1325.8	20.1	13
BU0784-96	733	258940	3.1	11.0938	2.5	3.0615	2.8	0.2463	1.3	0.47	1419.5	17.1	14
BU0784-34	519	105980	1.0	10.9844	1.1	2.8408	2.2	0.2263	1.9	0.86	1315.2	22.1	13
BU0784-21	506	247025	2.8	10.9814	2.7	2.9587	3.0	0.2356	1.4	0.45	1364.0	16.6	15
BU0784-67	1049	222835	1.6	10.9281	1.0	2.9758	1.6	0.2359	1.2	0.77	1365.1	15.0	1
BU0784-82	469	236135	2.0	10.7245	2.2	3.3713	2.5	0.2622	1.0	0.41	1501.2	13.4	14
BU0784-93	351	194580	2.0	9.9880	1.5	3.3752	3.0	0.2445	2.6	0.87	1410.1	32.9	14
BU0784-16	654	163425	2.1	9.8085	1.6	3.8238	2.2	0.2720	1.5	0.67	1551.0	20.1	15
BU0784-40	165	53075	1.0	9.8080	1.2	3.9026	1.9	0.2776	1.4	0.76	1579.3	19.8	16
BU0784-85	359	159200	4.2	9.7207	2.8	3.2744	4.0	0.2308	2.8	0.70	1338.9	33.5	14
BU0784-90	1997	662520	2.0	9.6582	2.7	4.0882	4.2	0.2864	3.3	0.78	1623.4	47.4	16
BU0784-76	211	86090	1.8	9.5997	3.0	4.3381	3.1	0.3020	1.0	0.32	1701.4	15.0	170
BU0784-97	313	135670	1.9	9.5830	2.7	4.1901	3.0	0.2912	1.2	0.39	1647.6	17.0	16
BU0784-20	898	212375	1.5	9.5795	1.0	3.4132	4.0	0.2371	3.9	0.97	1371.8	47.7	15
BU0784-99	327	183215	1.4	9.5711	2.2	4.1444	2.6	0.2877	1.3	0.51	1630.0	18.9	16
BU0784-2	425	79330	2.8	9.5703	1.5	3.2876	3.3	0.2282	3.0	0.89	1325.0	35.5	147
BU0784-17	1631	263490	3.0	9.5678	1.0	3.1145	3.0	0.2161	2.9	0.94	1261.4	32.8	14
BU0784-39	170	53665	1.0	9.5397	1.0	4.0445	1.4	0.2798	1.0	0.71	1590.5	14.1	16

BU0784-27	500	162500	2.0	9.5317	1.2	3.4268	2.1	0.2369	1.7	0.81	1370.5	21.5	15
BU0784-87	298	122645	1.6	9.5150	2.1	4.1240	3.3	0.2846	2.6	0.78	1614.5	36.6	16
BU0784-65	297	146135	2.0	9.5106	1.2	4.3046	1.8	0.2969	1.4	0.77	1676.0	20.4	16
BU0784-88	184	109805	1.0	9.5061	2.9	4.3421	3.7	0.2994	2.3	0.63	1688.2	34.5	17
BU0784-98	522	288945	2.4	9.4917	3.6	4.3298	4.1	0.2981	2.0	0.48	1681.7	28.9	16
BU0784-70	228	74410	2.3	9.4892	1.1	3.7238	2.0	0.2563	1.7	0.83	1470.8	22.1	15
BU0784-66	539	137240	1.1	9.4866	1.5	4.0786	1.8	0.2806	1.0	0.56	1594.5	14.1	16
BU0784-69	998	258280	2.1	9.4704	2.1	3.9716	5.6	0.2728	5.2	0.93	1555.0	72.3	16
BU0784-44	1045	234830	1.1	9.4434	1.0	4.1424	1.9	0.2837	1.6	0.85	1610.0	22.8	16
BU0784-37	547	132845	1.4	9.4262	1.3	3.9805	4.0	0.2721	3.8	0.94	1551.6	52.0	16
BU0784-53	426	85065	2.4	9.4017	1.0	3.8477	1.5	0.2624	1.2	0.75	1501.9	15.4	16
BU0784-46	340	104910	1.1	9.3940	1.5	3.7320	2.7	0.2543	2.2	0.83	1460.4	29.3	15
BU0784-42	306	111770	1.5	9.3939	1.4	4.0674	1.9	0.2771	1.4	0.70	1576.8	19.0	16
BU0784-3	346	117540	1.5	9.3475	2.5	4.6936	2.9	0.3182	1.4	0.47	1780.9	21.3	17
BU0784-4	170	72080	1.2	9.3375	1.7	4.4109	2.6	0.2987	1.9	0.74	1684.9	28.5	171
BU0784-94	375	206175	6.2	9.3279	3.1	3.6741	3.3	0.2486	1.0	0.32	1431.0	13.3	15
BU0784-36	492	113330	2.5	9.2987	1.0	3.3018	1.8	0.2227	1.5	0.83	1296.0	17.3	14
BU0784-41	205	83235	2.8	9.2933	1.0	3.6370	9.4	0.2451	9.4	0.99	1413.4	118.9	15
BU0784-100	124	68945	1.7	9.2861	3.0	4.3918	3.5	0.2958	1.8	0.51	1670.4	26.2	17
BU0784-8	176	61790	0.9	9.2823	2.1	4.3387	4.4	0.2921	3.8	0.87	1652.0	55.4	170
BU0784-32	239	84035	1.4	9.2706	1.2	4.2607	2.7	0.2865	2.4	0.89	1623.9	34.5	16
BU0784-55	338	83575	1.8	9.2041	1.0	4.2988	2.9	0.2870	2.7	0.94	1626.4	38.5	16
BU0784-74	447	131675	4.7	9.1986	3.9	3.9889	4.3	0.2661	1.8	0.42	1521.1	24.4	16
BU0784-56	382	80325	4.3	9.1773	1.0	4.0845	1.6	0.2719	1.2	0.77	1550.3	16.5	16
BU0784-64	304	106395	1.0	9.1469	1.0	3.7644	1.9	0.2497	1.6	0.85	1437.1	21.0	15
BU0784-13	169	55375	1.5	9.1279	1.9	4.5846	2.4	0.3035	1.5	0.60	1708.7	21.8	17
BU0784-95	97	97080	2.5	9.1226	3.0	4.8662	3.7	0.3220	2.2	0.60	1799.3	34.9	179
BU0784-86	389	174090	4.0	9.1001	1.4	3.3096	2.3	0.2184	1.9	0.81	1273.6	21.8	14
BU0784-72	215	110285	4.6	9.0985	2.4	4.6760	2.7	0.3086	1.2	0.46	1733.6	18.8	17
BU0784-78	232	77900	1.4	9.0469	2.0	4.5131	2.6	0.2961	1.6	0.64	1672.1	23.9	17
BU0784-25	221	138595	3.6	9.0057	1.7	4.3516	2.4	0.2842	1.6	0.69	1612.6	23.4	17
BU0784-45	142	43065	0.7	8.9740	1.1	5.0718	2.3	0.3301	2.0	0.87	1838.9	31.5	18
BU0784-50	95	41345	1.9	8.8687	1.4	5.1169	2.1	0.3291	1.6	0.76	1834.2	25.5	183
BU0784-81	380	223555	8.8	8.8395	2.8	4.9497	3.8	0.3173	2.6	0.68	1776.7	39.8	18
BU0784-24	406	193265	8.0	8.7942	3.1	4.4832	3.2	0.2859	1.1	0.33	1621.3	15.2	17
BU0784-63	261	115580	2.8	8.7605	2.0	5.0748	2.8	0.3224	2.0	0.70	1801.6	31.1	18
BU0784-33	343	125520	3.0	8.6750	1.0	4.8210	2.2	0.3033	2.0	0.89	1707.8	29.3	17
BU0784-73	545	184140	1.9	8.6221	1.3	4.5432	3.3	0.2841	3.1	0.93	1612.0	43.9	17
BU0784-15	439	103690	2.7	8.5521	1.5	4.2665	1.8	0.2646	1.0	0.55	1513.5	13.5	16
BU0784-75	187	99650	1.9	7.3416	2.2	5.9451	4.5	0.3166	3.9	0.87	1772.9	60.9	19
BU0784-29	354	141800	1.7	6.7997	1.2	6.6385	5.3	0.3274	5.2	0.98	1825.7	82.8	20
BU0784-77	233	113550	1.2	6.2631	4.2	7.1895	5.1	0.3266	2.9	0.57	1821.8	45.4	21
BU0784-35	900	329585	1.0	6.0678	1.0	8.7307	2.0	0.3842	1.7	0.86	2096.0	30.6	23
BU0784-91	137	178150	1.5	6.0455	2.8	10.3195	3.4	0.4525	2.0	0.58	2406.2	40.0	24
BU0784-31	94	52045	1.6	6.0143	1.1	10.4843	2.2	0.4573	2.0	0.88	2427.7	39.7	24
BU0784-80	136	170650	4.0	3.7838	1.2	21.9757	1.6	0.6031	1.1	0.67	3042.2	26.4	3
BU0784-92	107	137675	3.9	3.7817	4.1	22.5135	4.8	0.6175	2.6	0.55	3099.9	65.0	3

BU08128-19	4043	68196	1.1	17.2301	1.5	0.5071	4.2	0.0634	4.0	0.94	396.1	15.2	4
BU08128-30	2452	50831	9.6	17.4835	2.1	0.5015	2.8	0.0636	1.9	0.68	397.4	7.4	41
BU08128-33	1142	19877	5.6	17.9753	2.4	0.5030	4.5	0.0656	3.8	0.85	409.4	15.2	4
BU08128-23	997	16598	20.9	18.1946	2.0	0.5140	2.6	0.0678	1.6	0.63	423.1	6.7	42
BU08128-27	1253	25712	5.1	18.0490	3.8	0.5389	4.0	0.0705	1.3	0.32	439.5	5.6	43
BU08128-24	878	31616	4.4	16.9394	2.0	0.5747	2.8	0.0706	1.9	0.69	439.8	8.1	46
BU08128-28	3117	75914	8.4	17.6413	2.5	0.5659	2.6	0.0724	0.9	0.33	450.6	3.7	45
BU08128-32	2153	44489	14.3	17.6687	0.9	0.5665	1.6	0.0726	1.3	0.81	451.8	5.5	4
BU08128-1	2868	81206	7.2	17.5097	3.1	0.5718	3.5	0.0726	1.6	0.47	451.9	7.1	45
BU08128-31	373	13170	6.6	17.8124	1.4	0.5622	2.0	0.0726	1.4	0.71	452.0	6.1	45
BU08128-22	544	16637	3.8	17.3991	1.5	0.5762	1.9	0.0727	1.2	0.62	452.5	5.3	46
BU08128-21	323	10068	4.4	16.7845	5.1	0.5991	5.9	0.0729	2.9	0.49	453.8	12.6	47
BU08128-40	2270	65459	4.0	17.4386	2.2	0.5783	2.7	0.0731	1.7	0.60	455.0	7.2	46
BU08128-12	162	5402	3.3	17.0095	6.4	0.5934	6.8	0.0732	2.4	0.35	455.4	10.4	47
BU08128-5	306	9203	2.6	17.8622	1.7	0.5652	2.1	0.0732	1.1	0.54	455.5	5.0	454
BU08128-3	1168	33599	7.7	17.5783	1.8	0.5757	2.8	0.0734	2.2	0.78	456.6	9.7	46
BU08128-25	629	16518	3.6	17.4954	5.9	0.5785	6.1	0.0734	1.5	0.25	456.6	6.7	46
BU08128-7	2987	80909	12.3	17.3267	1.6	0.5895	1.6	0.0741	0.5	0.31	460.7	2.2	47
BU08128-14	248	9791	3.9	17.5216	4.1	0.5835	4.4	0.0742	1.6	0.36	461.1	7.2	466
BU08128-16	1178	33990	4.1	17.6270	3.2	0.5812	3.7	0.0743	1.9	0.51	462.1	8.5	46
BU08128-26	1987	50064	6.4	17.6993	2.0	0.5800	2.0	0.0745	0.6	0.27	462.9	2.5	46
BU08128-38	1057	36846	4.6	17.5111	2.5	0.5878	2.9	0.0747	1.6	0.55	464.2	7.2	46
BU08128-39	1938	56885	9.9	16.8748	1.5	0.6119	1.9	0.0749	1.1	0.61	465.5	5.1	48
BU08128-34	1629	48360	8.3	17.4787	4.2	0.5908	4.2	0.0749	0.6	0.14	465.6	2.6	47
BU08128-35	853	28044	7.7	17.3085	1.3	0.5990	1.8	0.0752	1.2	0.66	467.4	5.3	47
BU08128-11	954	30950	4.2	17.1992	1.5	0.6040	1.6	0.0753	0.7	0.42	468.3	3.0	47
BU08128-8	1085	35501	3.4	17.5919	1.5	0.5922	1.8	0.0756	1.0	0.57	469.5	4.6	47
BU08128-45	1134	27464	7.0	17.6139	2.0	0.5931	2.1	0.0758	0.8	0.35	470.8	3.4	47
BU08128-18	1806	45525	2.2	17.4775	1.5	0.5987	1.7	0.0759	0.8	0.50	471.6	3.8	47
BU08128-20	4867	83909	15.9	17.0856	1.5	0.6125	2.0	0.0759	1.3	0.65	471.6	5.9	48
BU08128-46	1036	25623	2.3	17.6421	5.8	0.6014	6.5	0.0770	2.9	0.45	477.9	13.4	4
BU08128-13	776	32885	3.7	17.1983	1.8	0.6174	1.9	0.0770	0.7	0.38	478.3	3.3	48
BU08128-36	1324	6821	4.3	17.4028	2.0	0.6109	2.4	0.0771	1.4	0.57	478.9	6.4	48
BU08128-4	946	28626	3.8	17.1941	1.4	0.6191	2.5	0.0772	2.1	0.83	479.4	9.6	489
BU08128-29	532	17793	5.2	17.3374	3.1	0.6141	3.6	0.0772	1.9	0.51	479.5	8.5	486
BU08128-9	1656	53775	7.0	18.2200	4.5	0.5850	4.7	0.0773	1.5	0.31	480.0	6.8	46
BU08128-50	1740	46881	8.3	17.4953	2.4	0.6112	2.7	0.0775	1.2	0.45	481.5	5.7	48
BU08128-37	720	26078	2.5	17.7002	2.2	0.6097	2.4	0.0783	1.1	0.45	485.8	5.1	48
BU08128-15	151	6479	2.6	16.6625	3.4	0.6490	4.3	0.0784	2.8	0.63	486.8	12.9	50
BU08128-43	204	7434	2.0	17.7067	3.2	0.6120	3.4	0.0786	0.9	0.27	487.7	4.3	484
BU08128-6	560	20147	3.6	17.8039	1.8	0.6110	2.6	0.0789	1.9	0.72	489.5	8.9	484
BU08128-48	1407	47178	3.6	17.3615	1.1	0.6320	1.3	0.0796	0.7	0.53	493.6	3.4	49
BU08128-44	1007	28878	1.5	17.1127	1.9	0.6479	2.5	0.0804	1.6	0.65	498.6	7.8	50
BU08128-49	435	13673	1.8	17.3567	1.7	0.6396	1.8	0.0805	0.6	0.35	499.2	3.1	50
BU08128-47	1654	46875	3.0	17.3059	1.1	0.6430	2.2	0.0807	1.9	0.88	500.3	9.3	50
BU08128-41	482	13089	3.0	17.2652	2.6	0.6498	2.8	0.0814	1.1	0.38	504.3	5.1	50

BU08128-42 258 9870 3.1 17.6613 1.9 0.6392 2.5 0.0819 1.5 0.62 507.3 7.5 501

Notes:

- "1. All uncertainties are reported at the 1-sigma level, and include only measurement errors. Systematic e
- "2. U concentration and U/Th are calibrated relative to our Sri Lanka standard zircon, and are accurate to
- "3. Common Pb correction is from 204Pb, with composition interpreted from Stacey and Kramers (1975) ε and 2.0 for 208Pb/ 204Pb.
- "4. U/Pb and 206Pb/ 207Pb fractionation is calibrated relative to fragments of a large Sri Lanka zircon of 5
- "5. U decay constants and composition as follows: $^{238}\text{U} = 9.8485 \times 10^{-10}$, $^{235}\text{U} = 1.55125 \times 10^{-10}$, $^{238}\text{Ra} = 1.497 \times 10^{-10}$
- "6. Concordance generally not shown (NA) for analyses with best ages <500 Ma, because 206Pb/207Pb is not well constrained.
- "7. All samples were ablated with 35 micron-diameter beam, except for 80 smaller grains from sample BU " therefore have lower precision, particularly for 206Pb/207Pb ages. "

b* +/-	206Pb* +/-	Best age +/-	Conc.
(Ma)	207Pb* (Ma)	(Ma)	(Ma) (%)
.6	10.6	650.9	46.4
.9	10.9	611.2	55.0
.6	13.2	524.3	60.3
.9	8.8	512.3	26.6
.8	22.4	759.5	101.8
5	19.1	913.0	79.8
1.0	31.6	1081.6	88.1
.9	20.5	901.8	70.1
3.3	34.1	969.8	20.4
3.1	26.3	1027.4	61.7
34.2	31.5	971.4	57.7
7.1	14.7	948.8	28.7
1.0	11.5	922.6	32.9
166.2	21.8	1057.6	50.3
164.4	18.3	1071.4	36.2
132.8	26.6	1101.6	49.4
136.1	20.6	1124.0	45.7
178.5	25.7	1147.8	55.8
392.1	15.0	1159.6	22.0
78.8	15.0	1159.9	29.0
25.4	21.6	1171.5	38.6
51.2	11.1	1179.5	26.9
24.7	10.0	1183.5	21.1
58.5	29.8	1189.2	80.8
44.5	23.6	1194.0	56.7
51.4	31.1	1221.0	52.0
94.5	18.6	1265.8	36.8
96.0	24.0	1293.3	60.7
105.4	56.1	1296.6	147.4
109.0	35.1	1297.4	94.6
272.1	17.1	1318.6	26.6
349.1	15.6	1355.8	30.3
137.6	53.3	1370.2	26.6
392.0	14.6	1386.9	19.2
97.6	32.7	1401.6	55.8
146.9	10.8	1433.9	21.4
378.8	34.3	1437.1	33.4
372.4	10.9	1437.1	19.1
44.1	25.0	1441.4	51.5
61.5	13.5	1469.9	27.0
		1469.9	27.0
			99.0

57.8	47.7	1472.3	114.9	1472.3	114.9	78.2
189.7	35.7	1490.6	51.7	1490.6	51.7	88.9
442.8	38.0	1513.6	91.2	1513.6	91.2	92.2
138.3	31.1	1620.8	32.5	1620.8	32.5	91.2
88.6	21.4	1629.9	18.6	1629.9	18.6	85.4
15.1	14.8	1640.6	18.6	1640.6	18.6	97.3
0.7	16.0	1668.0	24.0	1668.0	24.0	97.1
39.9	29.3	1690.7	55.7	1690.7	55.7	94.7
38.3	23.4	1696.8	45.7	1696.8	45.7	86.9
05.1	19.7	1712.9	31.8	1712.9	31.8	99.2
3.5	24.7	1718.2	35.1	1718.2	35.1	95.3
07.7	16.5	1726.0	18.4	1726.0	18.4	98.1
174.4	18.9	1730.4	20.0	1730.4	20.0	94.2
199.2	12.1	1735.7	18.3	1735.7	18.3	96.2
39.7	19.3	1737.6	31.5	1737.6	31.5	95.0
32.8	15.2	1744.7	27.5	1744.7	27.5	98.7
9.4	19.1	1746.8	30.6	1746.8	30.6	81.6
478.9	79.9	1750.3	21.1	1750.3	21.1	74.1
59.3	18.4	1750.8	35.9	1750.8	35.9	100.9
41.1	49.6	1752.7	102.7	1752.7	102.7	88.7
45.1	17.4	1752.7	19.0	1752.7	19.0	99.2
74.6	40.6	1761.9	91.1	1761.9	91.1	72.8
10.0	50.0	1763.7	39.8	1763.7	39.8	75.7
12.1	28.8	1770.1	55.2	1770.1	55.2	98.1
79.8	22.7	1775.7	40.5	1775.7	40.5	100.4
49.4	31.7	1788.9	65.3	1788.9	65.3	96.0
48.0	19.3	1792.8	36.4	1792.8	36.4	95.4
39.2	21.1	1819.6	32.3	1819.6	32.3	92.0
161.5	19.9	1857.2	18.1	1857.2	18.1	81.4
184.2	21.1	1875.5	33.0	1875.5	33.0	100.9
59.2	22.8	2437.3	26.3	2437.3	26.3	77.1
27.7	19.8	2442.5	16.9	2442.5	16.9	82.0
171.3	18.9	2446.3	21.5	2446.3	21.5	85.1
147.3	25.1	2462.7	16.9	2462.7	16.9	90.0
121.2	14.8	2468.3	21.6	2468.3	21.6	87.4
03.2	17.4	2480.1	18.7	2480.1	18.7	93.3
198.3	13.0	2481.0	16.9	2481.0	16.9	92.8
01.9	19.0	2486.9	16.9	2486.9	16.9	92.6
25.1	19.2	2505.1	21.7	2505.1	21.7	93.0
525.1	20.8	2541.6	28.7	2541.6	28.7	98.5
530.3	22.7	2609.2	20.8	2609.2	20.8	93.2
150.2	21.1	2809.8	23.4	2809.8	23.4	95.0
134.8	21.6	3147.7	24.1	3147.7	24.1	91.1
2.3	14.9	942.8	44.7	831.3	10.5	88.2
5.6	10.2	973.3	28.5	850.9	8.0	87.4
6.7	9.8	975.0	26.9	851.7	8.0	87.4

92.5	26.5	965.5	84.4	863.3	13.5	89.4
86.2	14.6	936.4	39.8	866.3	12.4	92.5
13.3	13.0	955.9	39.9	868.2	8.1	90.8
1.3	9.2	947.6	24.2	875.7	8.2	92.4
1.5	20.9	1026.9	66.6	884.9	8.3	86.2
8.9	11.1	973.8	31.0	910.0	8.5	93.5
9.3	16.8	952.7	52.6	919.4	8.6	96.5
8.5	9.9	942.9	26.4	922.5	8.6	97.8
4.1	18.4	932.1	39.0	949.3	20.4	101.8
15.7	14.7	948.4	40.7	958.8	11.5	101.1
5.0	23.3	972.5	65.9	961.7	16.7	98.9
1.0	16.6	965.4	50.2	965.4	50.2	101.1
4.4	11.7	953.1	25.2	969.4	12.9	101.7
14.9	27.9	995.9	74.0	995.9	74.0	95.5
4.5	32.4	1037.3	61.2	1037.3	61.2	94.0
99.2	21.2	1076.8	58.4	1076.8	58.4	89.5
189.9	29.5	1088.3	55.5	1088.3	55.5	100.2
25.6	14.5	1114.3	26.6	1114.3	26.6	88.4
051.8	15.2	1134.5	25.9	1134.5	25.9	89.2
151.6	10.6	1152.9	23.2	1152.9	23.2	99.8
1099.0	11.4	1173.7	22.6	1173.7	22.6	90.5
1.0	29.2	1191.5	90.1	1191.5	90.1	73.3
1202.2	23.9	1290.3	49.4	1290.3	49.4	89.4
196.6	28.2	1296.4	19.4	1296.4	19.4	88.1
184.7	27.2	1314.3	52.6	1314.3	52.6	84.8
139.2	14.0	1343.7	31.7	1343.7	31.7	87.8
108.7	13.9	1364.4	32.6	1364.4	32.6	82.3
278.8	20.4	1394.5	32.2	1394.5	32.2	86.9
105.9	18.0	1448.7	19.0	1448.7	19.0	95.1
313.3	23.6	1451.6	35.0	1451.6	35.0	84.7
197.9	51.3	1453.1	47.0	1453.1	47.0	83.0
1396.6	13.5	1453.4	19.0	1453.4	19.0	93.6
425.3	15.8	1462.7	34.2	1462.7	34.2	95.7
196.7	11.3	1463.6	20.9	1463.6	20.9	92.5
162.9	14.4	1467.4	31.0	1467.4	31.0	88.4
361.1	16.2	1499.7	29.5	1499.7	29.5	85.0
464.5	27.6	1523.6	37.1	1523.6	37.1	93.5
1438.9	15.6	1529.6	33.3	1529.6	33.3	90.1
552.8	29.1	1530.1	18.8	1530.1	18.8	102.6
1370.6	19.4	1538.6	38.6	1538.6	38.6	82.2
571.1	30.9	1564.5	47.8	1564.5	47.8	100.7
114.9	13.9	1572.5	24.5	1572.5	24.5	93.7
107.7	23.2	1588.6	48.4	1588.6	48.4	91.3
579.3	50.8	1601.7	55.8	1601.7	55.8	97.6
400.4	38.8	1603.4	90.0	1603.4	90.0	79.3
169.4	17.3	1604.4	35.8	1604.4	35.8	96.2
554.2	14.1	1609.8	23.5	1609.8	23.5	94.0

439.3	36.4	1610.0	26.7	1610.0	26.7	82.4
567.9	19.8	1624.9	32.7	1624.9	32.7	93.9
23.3	12.7	1632.6	18.6	1632.6	18.6	88.6
45.7	32.7	1638.2	52.4	1638.2	52.4	90.3
149.2	16.3	1638.4	36.0	1638.4	36.0	71.7
155.5	24.3	1661.3	40.0	1661.3	40.0	99.4
558.4	30.2	1667.2	28.7	1667.2	28.7	88.7
643.6	24.0	1672.4	42.9	1672.4	42.9	96.9
73.5	22.4	1676.3	23.1	1676.3	23.1	79.7
145.5	27.5	1686.8	58.7	1686.8	58.7	95.6
137.5	18.9	1690.7	37.8	1690.7	37.8	94.4
195.5	31.6	1702.6	48.4	1702.6	48.4	99.3
582.5	21.4	1706.0	45.5	1706.0	45.5	87.4
549.5	17.7	1706.1	18.8	1706.1	18.8	84.2
11.4	24.0	1706.5	50.7	1706.5	50.7	96.3
190.7	45.6	1706.7	26.1	1706.7	26.1	88.2
55.6	18.3	1717.3	33.6	1717.3	33.6	93.6
186.8	23.0	1719.6	29.8	1719.6	29.8	96.6
40.1	15.8	1721.5	29.8	1721.5	29.8	102.0
178.0	26.3	1722.4	38.6	1722.4	38.6	95.4
121.7	24.5	1723.8	36.2	1723.8	36.2	99.8
137.5	19.3	1726.8	35.4	1726.8	35.4	101.1
105.9	23.7	1728.6	40.9	1728.6	40.9	97.6
30.7	25.5	1729.1	39.8	1729.1	39.8	90.0
18.5	23.2	1729.4	34.0	1729.4	34.0	98.8
17.4	17.9	1730.4	35.1	1730.4	35.1	98.6
17.2	15.7	1731.0	18.4	1731.0	18.4	99.6
113.4	16.3	1732.3	31.2	1732.3	31.2	98.0
123.8	19.5	1734.7	39.1	1734.7	39.1	98.9
628.7	19.6	1736.3	33.0	1736.3	33.0	89.1
66.5	14.2	1737.0	25.9	1737.0	25.9	92.8
88.2	12.0	1742.2	19.4	1742.2	19.4	94.4
698.6	14.2	1743.7	21.6	1743.7	21.6	95.3
123.6	53.0	1745.3	39.6	1745.3	39.6	97.7
75.7	15.8	1745.8	18.3	1745.8	18.3	92.8
66.4	18.3	1752.0	22.3	1752.0	22.3	91.3
725.4	23.7	1753.4	29.1	1753.4	29.1	97.1
52.4	25.2	1758.8	48.1	1758.8	48.1	99.3
19.0	22.0	1761.2	18.3	1761.2	18.3	91.6
121.0	27.3	1766.5	52.3	1766.5	52.3	94.4
15.2	44.0	1968.3	70.5	1968.3	70.5	84.7
19.3	14.7	1979.3	21.0	1979.3	21.0	85.0
5.6	30.1	2360.8	19.0	2360.8	19.0	82.5
444.3	25.1	2503.5	42.4	2503.5	42.4	94.8
507.7	37.1	2504.2	37.9	2504.2	37.9	100.3
1533.6	68.3	2586.2	66.5	2586.2	66.5	95.4

15.7	20.5	1679.4	28.6	1679.4	28.6	92.3
439.1	25.4	1735.0	34.5	1735.0	34.5	71.9
78.4	27.2	1748.4	29.3	1748.4	29.3	83.2
74.7	17.5	1763.5	28.0	1763.5	28.0	91.0
11.1	19.7	1765.1	34.0	1765.1	34.0	75.7
17.2	16.3	1765.4	30.9	1765.4	30.9	95.0
97.2	17.9	1779.3	36.1	1779.3	36.1	82.2
57.1	25.3	1791.5	24.2	1791.5	24.2	96.5
192.7	17.6	1799.2	34.2	1799.2	34.2	71.5
14.1	24.7	1810.1	35.6	1810.1	35.6	72.5
31.0	22.0	1811.1	43.6	1811.1	43.6	82.6
43.8	13.1	1812.4	22.2	1812.4	22.2	93.1
70.5	21.5	1827.9	43.3	1827.9	43.3	75.8
93.5	13.4	1829.5	22.5	1829.5	22.5	96.4
43.7	20.8	1832.2	30.1	1832.2	30.1	91.2
04.4	42.0	1835.5	24.8	1835.5	24.8	87.2
13.0	15.9	1840.5	29.0	1840.5	29.0	97.2
1.9	32.8	1842.8	20.8	1842.8	20.8	87.2
662.8	23.1	1845.4	36.0	1845.4	36.0	82.5
124.7	21.5	1847.5	41.4	1847.5	41.4	70.5
33.0	33.7	1850.0	32.6	1850.0	32.6	71.0
49.0	23.5	1850.4	47.7	1850.4	47.7	90.0
187.5	38.1	1853.4	38.9	1853.4	38.9	93.4
34.7	30.3	1855.7	41.0	1855.7	41.0	79.1
29.9	17.3	1857.7	19.9	1857.7	19.9	87.5
42.3	14.3	1859.0	22.9	1859.0	22.9	98.3
79.1	22.2	1861.4	39.7	1861.4	39.7	82.6
49.1	26.3	1863.2	31.4	1863.2	31.4	79.8
48.2	15.0	1863.5	19.0	1863.5	19.0	88.7
11.5	30.7	1870.7	45.5	1870.7	45.5	100.1
16.9	16.9	1872.5	18.4	1872.5	18.4	95.4
06.0	23.5	1877.7	23.3	1877.7	23.3	83.6
13.2	21.3	1882.2	39.5	1882.2	39.5	93.2
71.0	22.7	1890.9	27.4	1890.9	27.4	88.4
60.4	18.1	1906.3	30.7	1906.3	30.7	95.4
185.8	21.0	1906.6	41.1	1906.6	41.1	88.3
82.5	24.2	1906.7	47.4	1906.7	47.4	97.6
14.5	17.6	1908.0	22.4	1908.0	22.4	90.9
56.3	17.9	1910.3	31.8	1910.3	31.8	94.7
81.0	21.1	1931.9	25.8	1931.9	25.8	95.0
32.2	20.2	1936.4	22.0	1936.4	22.0	99.6
44.6	20.0	1937.7	24.2	1937.7	24.2	91.0
885.2	12.1	1940.0	17.9	1940.0	17.9	94.6
14.1	26.3	1941.1	20.2	1941.1	20.2	87.9
64.0	25.6	1944.7	36.7	1944.7	36.7	92.2
43.1	20.3	1953.1	38.8	1953.1	38.8	89.5
14.7	31.4	1962.4	32.5	1962.4	32.5	77.4

139.2	14.3	1962.4	23.6	1962.4	23.6	97.7
783.1	19.4	1963.1	32.1	1963.1	32.1	83.2
139.9	22.3	1970.1	28.0	1970.1	28.0	87.7
27.8	25.9	1976.5	24.2	1976.5	24.2	86.0
971.1	13.5	1977.9	21.0	1977.9	21.0	99.3
06.3	23.5	1986.3	38.4	1986.3	38.4	83.3
84.0	25.7	1986.7	52.0	1986.7	52.0	73.1
96.2	32.8	2002.1	27.2	2002.1	27.2	90.0
77.0	12.7	2003.5	19.4	2003.5	19.4	88.1
83.2	18.2	2005.7	26.6	2005.7	26.6	97.8
90.6	28.4	2022.6	23.7	2022.6	23.7	87.6
103.8	23.5	2051.2	36.2	2051.2	36.2	77.9
37.2	21.6	2140.5	23.8	2140.5	23.8	73.9
85.4	15.9	2148.3	24.8	2148.3	24.8	85.3
18.9	39.3	2150.1	41.2	2150.1	41.2	94.3
45.5	29.2	2152.1	54.3	2152.1	54.3	99.4
13.2	17.7	2163.5	30.2	2163.5	30.2	91.7
14.1	18.9	2168.6	32.4	2168.6	32.4	94.0
194.1	18.5	2180.8	26.5	2180.8	26.5	92.0
199.0	16.2	2214.6	25.8	2214.6	25.8	98.5
19.5	24.5	2225.4	17.3	2225.4	17.3	82.8
61.3	20.2	2257.6	27.8	2257.6	27.8	91.3
158.8	55.1	2382.9	56.9	2382.9	56.9	89.1
26.4	28.4	2397.9	48.8	2397.9	48.8	77.4
15.5	12.8	2443.3	16.9	2443.3	16.9	83.3
57.6	22.0	2476.1	16.9	2476.1	16.9	81.8
94.7	48.1	2490.0	21.7	2490.0	21.7	83.6
183.9	24.8	2497.3	42.3	2497.3	42.3	90.2
167.7	18.7	2513.4	29.6	2513.4	29.6	96.0
95.4	36.7	2514.3	39.5	2514.3	39.5	89.8
108.9	35.8	2517.8	16.8	2517.8	16.8	82.6
83.8	27.4	2522.0	32.6	2522.0	32.6	96.6
109.4	21.5	2524.7	23.2	2524.7	23.2	98.6
60.0	21.9	2531.8	31.2	2531.8	31.2	85.6
105.4	23.3	2541.8	38.6	2541.8	38.6	96.8
72.4	27.1	2548.1	31.7	2548.1	31.7	93.5
163.9	27.3	2626.3	24.3	2626.3	24.3	94.6
154.2	20.4	2646.2	18.1	2646.2	18.1	92.2
16.2	24.9	2737.8	16.5	2737.8	16.5	79.3
49.5	26.2	1698.8	18.4	1698.8	18.4	94.8
01.6	29.8	1702.0	62.6	1702.0	62.6	89.7
37.4	29.8	1734.1	65.1	1734.1	65.1	85.3
75.2	22.7	1761.0	50.1	1761.0	50.1	73.0
31.3	18.8	1761.6	35.8	1761.6	35.8	100.0
4.0	17.2	1774.3	34.3	1774.3	34.3	84.2
19.8	18.0	1779.4	19.9	1779.4	19.9	82.4

70.3	26.9	1784.7	55.8	1784.7	55.8	79.3
59.5	44.1	1785.6	64.7	1785.6	64.7	88.4
27.8	16.0	1791.2	25.9	1791.2	25.9	84.0
48.2	33.6	1798.4	52.2	1798.4	52.2	85.2
'94.1	16.1	1802.8	20.0	1802.8	20.0	99.1
48.2	21.8	1803.2	43.8	1803.2	43.8	94.4
25.8	26.5	1803.9	42.0	1803.9	42.0	92.1
30.6	30.0	1809.7	41.6	1809.7	41.6	89.2
78.0	15.0	1811.4	26.9	1811.4	26.9	96.6
47.1	19.7	1811.6	31.3	1811.6	31.3	93.5
15.9	24.8	1814.2	50.1	1814.2	50.1	100.2
32.0	13.4	1828.3	24.8	1828.3	24.8	72.6
19.6	38.5	1828.6	80.5	1828.6	80.5	99.1
53.3	28.0	1828.8	54.8	1828.8	54.8	93.4
58.7	19.9	1834.1	31.9	1834.1	31.9	83.1
'94.4	19.3	1842.6	36.9	1842.6	36.9	76.7
34.8	32.2	1845.9	68.6	1845.9	68.6	75.6
76.6	12.2	1849.8	18.1	1849.8	18.1	92.7
90.9	25.2	1850.0	51.0	1850.0	51.0	94.1
33.5	30.9	1851.4	34.5	1851.4	34.5	81.1
'43.7	64.6	1855.3	40.1	1855.3	40.1	80.0
24.2	33.8	1858.9	69.8	1858.9	69.8	96.5
71.5	18.7	1868.4	28.0	1868.4	28.0	90.5
31.7	22.8	1868.5	25.8	1868.5	25.8	93.4
29.8	23.9	1870.0	38.6	1870.0	38.6	96.0
41.0	18.4	1871.5	18.0	1871.5	18.0	87.3
.9.8	21.9	1872.3	43.8	1872.3	43.8	88.1
'80.4	14.7	1875.0	26.0	1875.0	26.0	90.7
11.0	37.5	1879.6	76.3	1879.6	76.3	75.2
52.2	15.7	1881.5	24.0	1881.5	24.0	87.5
'22.4	22.3	1887.0	18.0	1887.0	18.0	93.6
30.3	24.7	1888.6	33.7	1888.6	33.7	89.5
'99.2	31.2	1891.9	64.1	1891.9	64.1	90.9
'95.5	21.5	1892.8	33.8	1892.8	33.8	90.5
16.4	18.7	1895.6	25.5	1895.6	25.5	83.0
78.3	50.6	1897.2	76.5	1897.2	76.5	79.5
37.0	34.1	1899.1	69.6	1899.1	69.6	93.9
'24.9	22.3	1902.5	43.9	1902.5	43.9	92.4
'66.1	14.5	1908.5	25.3	1908.5	25.3	86.4
'5.9	18.7	1922.8	31.7	1922.8	31.7	85.1
38.6	17.3	1923.9	31.4	1923.9	31.4	96.5
33.2	33.0	1927.7	64.7	1927.7	64.7	77.5
18.2	82.1	1940.4	172.1	1940.4	172.1	79.5
39.2	27.2	1950.8	54.0	1950.8	54.0	92.1
54.2	22.9	1967.0	40.1	1967.0	40.1	98.7
06.4	17.7	1969.0	32.1	1969.0	32.1	93.9
'28.7	41.1	1969.5	79.7	1969.5	79.7	86.7

35.3	29.6	1990.9	37.9	1990.9	37.9	85.4
15.2	17.0	1991.9	26.1	1991.9	26.1	92.6
27.4	24.3	1994.1	35.3	1994.1	35.3	76.0
14.8	30.7	2011.8	60.7	2011.8	60.7	90.8
30.7	33.5	2015.3	64.4	2015.3	64.4	87.4
19.9	16.8	2018.7	29.1	2018.7	29.1	100.1
18.2	33.0	2021.8	64.7	2021.8	64.7	96.7
54.4	22.7	2024.5	42.9	2024.5	42.9	93.3
29.6	57.3	2030.2	116.1	2030.2	116.1	90.5
11.9	13.4	2090.3	20.6	2090.3	20.6	89.9
33.3	24.8	2099.3	30.0	2099.3	30.0	93.8
117.2	25.5	2139.5	24.1	2139.5	24.1	88.8
33.4	44.8	2250.9	83.5	2250.9	83.5	103.1
71.2	24.4	2263.9	25.5	2263.9	25.5	91.6
36.4	35.7	2276.9	29.5	2276.9	29.5	77.1
39.6	17.0	2306.5	24.2	2306.5	24.2	91.3
40.1	16.8	2326.5	22.1	2326.5	22.1	92.3
36.2	26.4	2387.2	41.0	2387.2	41.0	91.1
183.0	19.3	2411.6	27.5	2411.6	27.5	88.8
75.2	47.7	2429.3	86.5	2429.3	86.5	95.2
18.7	29.2	2433.0	30.2	2433.0	30.2	95.2
93.3	22.1	2468.2	38.0	2468.2	38.0	77.4
58.8	39.0	2491.0	25.4	2491.0	25.4	80.8
162.2	26.5	2518.1	26.0	2518.1	26.0	79.0
40.0	17.4	2518.9	22.3	2518.9	22.3	93.2
30.5	37.4	2521.0	46.9	2521.0	46.9	92.2
444.2	17.5	2615.5	26.8	2615.5	26.8	85.8
135.7	15.4	2675.2	16.6	2675.2	16.6	96.6
132.8	20.2	2970.5	29.8	2970.5	29.8	96.9

6.7	14.9	759.5	42.2	639.5	14.1	84.2
0.7	35.5	879.2	61.7	646.4	39.0	73.5
1.1	13.4	762.6	52.9	656.6	6.4	86.1
65.8	44.5	980.0	41.6	694.4	52.8	70.9
.6	19.1	790.8	74.4	704.7	6.7	89.1
5.6	8.8	813.2	27.6	723.3	6.8	88.9
3.5	14.7	839.0	50.0	744.5	9.2	88.7
8.8	18.9	876.7	60.3	745.1	13.3	85.0
1.3	14.4	839.8	24.6	747.8	16.9	89.1
5.6	9.6	753.4	26.4	757.6	9.2	100.6
6.1	13.7	887.6	32.3	763.8	13.9	86.1
3.4	18.6	806.9	67.8	781.9	7.4	96.9
4.3	21.6	787.0	41.2	783.4	25.4	99.5
8.5	13.1	792.0	41.6	787.2	10.0	99.4
9.8	16.0	825.9	33.0	790.4	17.9	95.7
8.1	15.4	871.2	39.2	798.7	14.9	91.7
1.6	9.2	818.5	27.8	799.6	7.5	97.7

4.2	17.4	888.6	41.9	800.5	17.5	90.1
9.2	13.8	787.6	40.2	803.4	12.1	102.0
1.1	13.9	846.4	46.6	810.4	7.8	95.8
1.1	12.6	886.9	40.7	819.8	7.7	92.4
9.2	30.6	889.0	87.7	820.5	25.3	92.3
2.0	16.9	858.3	40.7	822.2	17.4	95.8
1.3	22.1	847.6	46.8	825.2	24.6	97.4
1.4	12.0	804.2	39.2	830.5	7.8	103.3
1.5	24.7	925.2	82.3	831.5	11.3	89.9
8.0	14.8	835.7	26.3	838.9	17.9	100.4
8.9	14.2	831.5	40.7	841.6	12.2	101.2
1.0	11.1	870.5	34.2	847.6	7.9	97.4
9.9	15.9	855.2	41.1	847.8	15.3	99.1
1.5	9.9	873.1	28.8	852.9	8.0	97.7
6.2	12.8	896.9	27.9	854.3	13.9	95.2
0.8	17.5	872.1	39.4	856.4	18.8	98.2
1.6	18.7	904.9	62.7	858.5	8.0	94.9
7.3	14.9	862.8	41.5	869.0	13.0	100.7
1.4	43.3	888.3	53.1	873.1	56.4	98.3
1.8	11.8	882.2	36.2	873.3	8.2	99.0
7.2	27.2	980.0	39.7	877.5	33.6	89.5
8.8	14.8	914.5	31.4	878.6	16.3	96.1
2.9	20.6	952.7	50.6	882.7	19.8	92.6
3.6	16.9	876.3	36.9	886.5	18.6	101.2
10.0	21.1	991.2	55.9	890.6	17.7	89.9
5.4	17.0	897.9	37.1	894.4	18.5	99.6
4.5	29.0	923.7	55.5	896.6	33.6	97.1
12.5	20.9	935.6	34.3	902.9	25.6	96.5
1.8	14.3	916.4	38.9	909.8	12.3	99.3
1.4	19.4	945.2	62.1	915.7	8.5	96.9
4.1	31.8	943.9	57.4	930.0	38.0	98.5
5.2	18.5	956.7	46.4	940.3	17.2	98.3
7.4	15.3	980.2	39.3	980.2	39.3	102.6
9.0	20.2	981.2	47.7	981.2	47.7	98.2
64.1	16.5	988.0	27.7	988.0	27.7	96.5
8.9	13.2	995.8	33.5	995.8	33.5	97.5
8.2	17.0	999.3	48.0	999.3	48.0	98.4
141.9	11.1	1261.4	23.1	1261.4	23.1	97.6
144.7	29.4	1334.6	33.5	1334.6	33.5	101.2
158.6	24.8	1395.2	31.5	1395.2	31.5	95.7
184.6	20.5	1480.5	38.9	1480.5	38.9	89.4
60.9	13.6	1556.1	27.0	1556.1	27.0	89.7
49.7	51.3	1592.1	25.4	1592.1	25.4	85.1
175.2	22.4	1617.6	42.6	1617.6	42.6	95.4
25.2	23.6	1653.1	21.1	1653.1	21.1	97.0
07.3	55.9	1713.6	50.4	1713.6	50.4	89.1
04.9	27.8	1715.3	22.3	1715.3	22.3	88.7

20.2	21.5	1717.8	31.6	1717.8	31.6	100.3
51.2	33.0	1718.9	63.3	1718.9	63.3	93.0
17.3	18.8	1725.3	37.3	1725.3	37.3	101.3
06.6	55.2	1742.1	35.6	1742.1	35.6	96.3
23.8	17.6	1763.4	18.5	1763.4	18.5	95.9
153.2	38.2	1767.4	56.5	1767.4	56.5	88.5
14.2	25.0	1832.5	33.7	1832.5	33.7	98.1
56.0	15.2	1840.7	23.0	1840.7	23.0	82.3
37.2	14.1	1858.4	18.1	1858.4	18.1	97.9
95.6	29.9	1864.7	18.4	1864.7	18.4	93.1
27.2	20.9	1873.1	35.5	1873.1	35.5	95.4
161.3	55.0	1934.0	54.1	1934.0	54.1	92.9
13.5	21.5	2097.9	35.1	2097.9	35.1	96.7
189.8	22.7	2456.0	38.2	2456.0	38.2	94.2
154.2	31.5	2486.8	35.7	2486.8	35.7	97.1
479.8	45.0	2514.5	65.9	2514.5	65.9	97.0
12.1	16.5	2522.3	24.5	2522.3	24.5	99.1
47.8	36.2	2524.7	29.9	2524.7	29.9	93.3
508.8	22.7	2528.3	21.5	2528.3	21.5	98.3
480.0	26.5	2536.3	31.9	2536.3	31.9	95.1
155.8	33.9	2538.5	44.6	2538.5	44.6	92.9
1486.2	22.6	2562.1	23.4	2562.1	23.4	93.5

117.5	17.9	415.6	63.5	304.3	17.5	73.2	NA
53.8	12.4	470.0	41.0	336.4	12.2	71.6	NA
35.9	5.5	516.8	30.3	364.5	3.5	70.5	NA
90.5	16.3	452.1	87.3	380.1	11.6	84.1	NA
11.4	13.4	535.7	61.5	389.5	10.6	72.7	NA
6.7	9.0	545.2	53.4	393.9	3.8	72.3	NA
13.4	16.7	516.4	68.1	406.5	14.6	78.7	NA
1.5	8.5	478.3	44.2	411.2	5.8	86.0	NA
37.6	18.5	571.6	63.5	412.5	17.3	72.2	NA
7.5	18.4	588.8	97.3	420.5	9.9	71.4	NA
25.0	10.4	426.3	61.1	424.8	5.1	99.6	NA
46.8	11.4	528.6	44.1	431.0	10.2	81.5	NA
3.5	12.3	522.0	71.5	431.9	4.2	82.7	NA
45.7	5.1	488.0	22.1	437.5	4.2	89.7	NA
49.9	12.4	511.9	54.3	437.8	9.9	85.5	NA
7.0	8.3	597.8	35.1	440.8	6.4	73.7	NA
56.8	5.2	537.3	21.9	440.9	4.3	82.1	NA
9.1	9.4	515.0	43.5	448.0	7.0	87.0	NA
55.9	10.5	490.2	52.1	449.1	7.0	91.6	NA
61.3	16.8	521.0	73.3	449.5	13.3	86.3	NA
1.1	16.3	504.1	83.0	454.9	9.8	90.2	NA
75.8	19.0	564.6	84.8	457.6	13.8	81.0	NA
7.5	14.9	568.7	50.7	458.7	13.9	80.7	NA
72.1	10.2	528.7	53.5	460.5	5.0	87.1	NA

8.8	11.2	496.6	60.8	463.1	4.9	93.3	NA
7.9	14.5	481.0	75.8	465.2	7.9	96.7	NA
77.4	15.0	504.8	61.8	471.8	12.6	93.5	NA
5.3	12.0	535.9	59.8	474.6	6.9	88.6	NA
76.5	14.0	475.3	77.2	476.7	5.5	100.3	NA
36.2	11.4	526.6	53.1	477.7	7.9	90.7	NA
95.7	11.3	567.5	59.0	480.3	4.6	84.6	NA
6.6	18.2	441.3	102.6	496.3	4.8	112.5	NA
3.8	11.9	453.5	59.5	496.4	7.2	109.4	NA
9.9	19.2	571.3	97.1	513.1	7.2	89.8	
2.3	25.1	621.7	89.8	559.9	21.1	90.1	
40.1	32.2	887.9	85.0	822.1	29.6	92.6	
49.6	20.5	1216.8	51.1	1216.8	51.1	91.6	
281.9	29.8	1352.5	45.5	1352.5	45.5	91.7	
36.9	33.3	1885.2	63.2	1885.2	63.2	76.9	
54.8	65.4	1964.2	104.6	1964.2	104.6	72.4	
17.2	39.9	2511.3	48.4	2511.3	48.4	83.8	

00.9	20.3	1003.2	30.9	1003.2	30.9	99.7	
007.9	15.0	1107.0	29.2	1107.0	29.2	87.0	
17.6	11.2	1155.0	26.2	1155.0	26.2	95.1	
51.6	16.5	1167.0	35.3	1167.0	35.3	99.3	
136.2	13.7	1180.9	29.1	1180.9	29.1	94.2	
44.8	17.7	1231.0	24.3	1231.0	24.3	101.8	
352.8	20.5	1336.8	47.2	1336.8	47.2	102.0	
35.0	16.1	1339.0	39.1	1339.0	39.1	77.0	
72.7	24.3	1348.2	46.3	1348.2	46.3	103.0	
285.3	31.2	1357.8	50.1	1357.8	50.1	91.5	
23.1	13.4	1382.6	25.4	1382.6	25.4	93.1	
48.8	14.6	1385.5	19.2	1385.5	19.2	95.7	
423.1	21.8	1428.5	47.9	1428.5	47.9	99.4	
366.4	16.3	1447.4	21.3	1447.4	21.3	90.9	
397.1	22.7	1447.9	50.8	1447.9	50.8	94.2	
401.5	12.0	1457.2	19.0	1457.2	19.0	93.7	
497.8	19.2	1492.8	42.4	1492.8	42.4	100.6	
98.7	23.5	1626.3	27.7	1626.3	27.7	86.7	
97.8	17.6	1660.0	30.2	1660.0	30.2	93.4	
14.2	15.0	1660.0	22.4	1660.0	22.4	95.1	
75.0	30.8	1676.6	52.3	1676.6	52.3	79.9	
551.9	34.6	1688.5	49.3	1688.5	49.3	96.1	
00.6	25.9	1699.7	54.9	1699.7	54.9	100.1	
72.1	24.4	1702.9	50.3	1702.9	50.3	96.8	
07.4	31.3	1703.6	18.4	1703.6	18.4	80.5	
63.1	21.1	1705.2	40.9	1705.2	40.9	95.6	
8.1	25.8	1705.3	27.4	1705.3	27.4	77.7	
436.3	23.3	1705.8	18.4	1705.8	18.4	73.9	
43.2	11.5	1711.2	18.4	1711.2	18.4	92.9	

10.6	16.8	1712.8	22.8	1712.8	22.8	80.0
59.1	26.9	1716.0	37.9	1716.0	37.9	94.1
94.2	14.9	1716.8	21.3	1716.8	21.3	97.6
01.4	30.5	1717.7	52.9	1717.7	52.9	98.3
99.0	33.7	1720.5	66.0	1720.5	66.0	97.7
76.5	16.2	1721.0	20.8	1721.0	20.8	85.5
50.0	14.6	1721.5	27.4	1721.5	27.4	92.6
28.4	45.8	1724.6	39.1	1724.6	39.1	90.2
62.7	15.4	1729.9	18.4	1729.9	18.4	93.1
30.2	32.5	1733.2	24.6	1733.2	24.6	89.5
2.8	12.3	1738.0	18.3	1738.0	18.3	86.4
78.3	21.6	1739.5	27.7	1739.5	27.7	84.0
47.8	15.7	1739.5	25.1	1739.5	25.1	90.6
6.1	24.2	1748.6	46.5	1748.6	46.5	101.8
4.4	21.5	1750.5	31.9	1750.5	31.9	96.3
65.7	26.0	1752.4	56.6	1752.4	56.6	81.7
81.5	13.9	1758.2	18.3	1758.2	18.3	73.7
57.7	75.2	1759.2	18.3	1759.2	18.3	80.3
10.8	28.8	1760.7	54.7	1760.7	54.7	94.9
0.8	35.9	1761.4	38.8	1761.4	38.8	93.8
35.8	22.1	1763.7	21.9	1763.7	21.9	92.1
3.1	23.6	1776.8	18.2	1776.8	18.2	91.5
31.9	35.0	1777.9	71.4	1777.9	71.4	85.6
51.2	12.7	1782.1	18.2	1782.1	18.2	87.0
85.2	15.3	1788.2	18.2	1788.2	18.2	80.4
46.5	20.0	1792.0	34.8	1792.0	34.8	95.4
6.4	31.3	1793.1	54.3	1793.1	54.3	100.3
83.3	18.2	1797.6	24.9	1797.6	24.9	70.9
63.0	22.7	1797.9	44.0	1797.9	44.0	96.4
33.4	21.2	1808.2	35.8	1808.2	35.8	92.5
03.2	19.7	1816.5	31.4	1816.5	31.4	88.8
31.4	19.1	1822.9	20.0	1822.9	20.0	100.9
8.9	17.8	1844.3	24.4	1844.3	24.4	99.5
10.8	31.9	1850.3	50.3	1850.3	50.3	96.0
27.9	27.0	1859.5	55.5	1859.5	55.5	87.2
31.9	24.1	1866.5	36.8	1866.5	36.8	96.5
88.6	18.4	1884.2	18.0	1884.2	18.0	90.6
38.9	27.7	1895.2	22.5	1895.2	22.5	85.1
86.9	15.0	1909.8	27.5	1909.8	27.5	79.2
57.8	39.1	2179.5	38.1	2179.5	38.1	81.3
64.5	47.1	2312.1	19.9	2312.1	19.9	79.0
35.2	45.1	2452.1	70.6	2452.1	70.6	74.3
10.3	18.0	2505.5	16.8	2505.5	16.8	83.7
463.9	31.6	2511.7	46.6	2511.7	46.6	95.8
78.5	20.6	2520.4	17.6	2520.4	17.6	96.3
182.7	15.9	3272.4	19.2	3272.4	19.2	93.0
206.1	47.0	3273.3	63.7	3273.3	63.7	94.7

16.5	14.4	531.2	32.4	396.1	15.2	74.6	NA
2.7	9.6	499.1	45.8	397.4	7.4	79.6	NA
13.7	15.3	437.7	53.6	409.4	15.2	93.5	NA
11.2	8.9	410.6	44.7	423.1	6.7	103.0	NA
17.7	14.4	428.6	85.4	439.5	5.6	102.5	NA
1.0	10.2	568.4	43.4	439.8	8.1	77.4	NA
15.3	9.6	479.3	54.8	450.6	3.7	94.0	NA
55.8	5.7	475.9	20.1	451.8	5.5	94.9	NA
9.2	12.8	495.8	67.2	451.9	7.1	91.1	NA
3.0	7.2	457.9	31.0	452.0	6.1	98.7	NA
2.0	7.2	509.8	33.3	452.5	5.3	88.8	NA
16.7	22.3	588.3	110.9	453.8	12.6	77.1	NA
13.4	10.2	504.8	48.0	455.0	7.2	90.1	NA
3.0	25.7	559.4	139.2	455.4	10.4	81.4	NA
.9	7.6	451.7	38.6	455.5	5.0	100.8	NA
1.7	10.5	487.2	39.1	456.6	9.7	93.7	NA
3.5	22.6	497.6	129.5	456.6	6.7	91.8	NA
10.5	6.2	518.9	34.2	460.7	2.2	88.8	NA
1.7	16.6	494.3	91.2	461.1	7.2	93.3	NA
15.3	14.0	481.1	71.2	462.1	8.5	96.0	NA
14.5	7.6	472.1	43.4	462.9	2.5	98.1	NA
19.5	11.1	495.7	54.5	464.2	7.2	93.6	NA
14.7	7.2	576.6	32.4	465.5	5.1	80.7	NA
11.4	15.9	499.8	92.1	465.6	2.6	93.2	NA
5.6	6.8	521.2	29.6	467.4	5.3	89.7	NA
9.8	6.1	535.1	31.8	468.3	3.0	87.5	NA
2.3	6.8	485.5	32.5	469.5	4.6	96.7	NA
12.8	8.1	482.8	44.3	470.8	3.4	97.5	NA
16.4	6.4	499.9	32.2	471.6	3.8	94.3	NA
35.1	7.7	549.6	33.4	471.6	5.9	85.8	NA
78.1	24.6	479.2	127.7	477.9	13.4	99.7	NA
3.2	7.4	535.2	38.8	478.3	3.3	89.4	NA
4.2	9.4	509.3	44.3	478.9	6.4	94.0	NA
1.3	9.7	535.8	30.3	479.4	9.6	89.5	NA
3.1	14.0	517.6	68.5	479.5	8.5	92.6	NA
7.6	17.7	407.5	100.5	480.0	6.8	117.8	NA
14.3	10.5	497.6	53.6	481.5	5.7	96.8	NA
3.4	9.3	471.9	47.7	485.8	5.1	102.9	NA
7.9	17.4	604.1	72.8	486.8	12.9	80.6	NA
1.8	12.9	471.1	71.4	487.7	4.3	103.5	NA
1.2	10.1	459.0	40.7	489.5	8.9	106.6	NA
17.4	5.3	514.5	25.0	493.6	3.4	95.9	NA
17.2	9.9	546.1	41.1	498.6	7.8	91.3	NA
2.1	7.2	515.1	37.4	499.2	3.1	96.9	NA
14.1	8.8	521.5	23.5	500.3	9.3	95.9	NA
3.4	11.0	526.8	55.9	504.3	5.1	95.7	

.8 9.7 476.8 42.6 507.3 7.5 106.4

rrors would increase age uncertainties by 1-2%. "

~20%."

and uncertainties of 1.0 for $^{206}\text{Pb}/^{204}\text{Pb}$, 0.3 for $^{207}\text{Pb}/^{204}\text{Pb}$, "

$\pm 63 \pm 3.2$ Ma (2-sigma) (Gehrels et al., 2008). "

$^{238}\text{U}/^{235}\text{U} = 137.88$ "

ages are not reliable for analyses these young analyses."

07-73 were hit with a 25 micron-diameter beam, and "

206Pb/238U 206Pb/207Pb 206Pb/238U standard 206Pb/238U standard Age Cutoff
s.e. (%) s.e. (%) std. dev (Ma) ave. age (Ma) (Ma)

BU07-84	2.4	1.1	564	13.0	970.0
BU07-77	3.5	1.4	566	17.0	1000.0
BU07-73	null	null	568	17.0	970.0
BU07-75	1.9	1.1	565	8.0	970.0
BU07-76	2.0	1.0	562	10.0	970.0
BU07-83	3.5	1.6	564	19.0	970.0
BU07-79	1.4	1.2	565	7.0	970.0
BU08-128	2.1	0.9	564	4.0	970.0

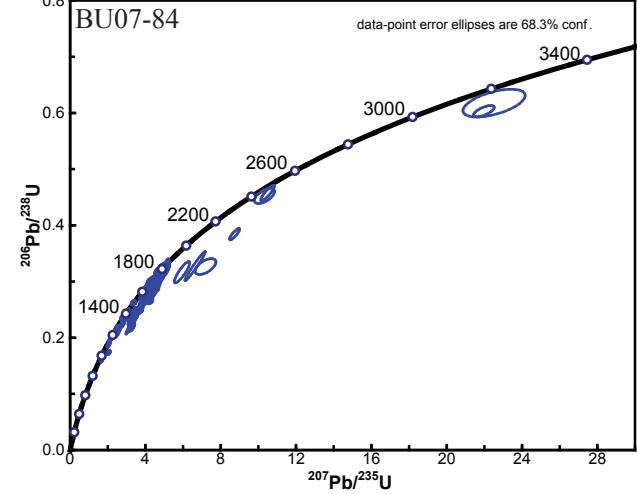
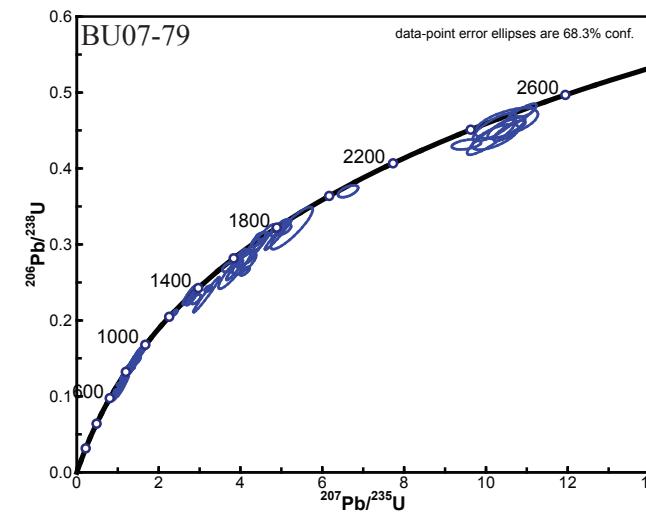
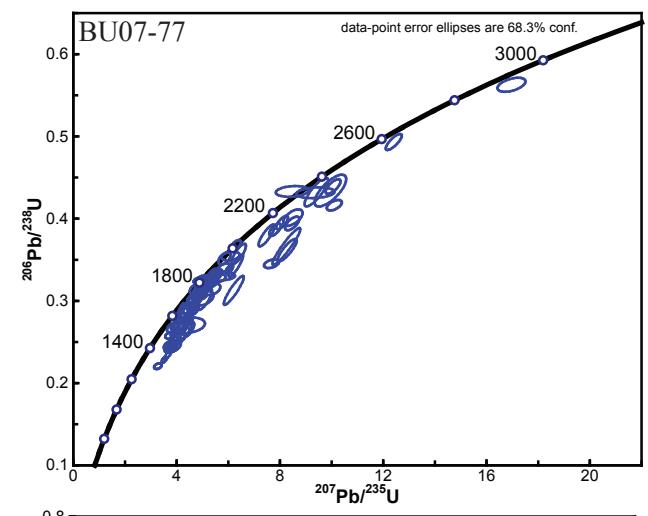
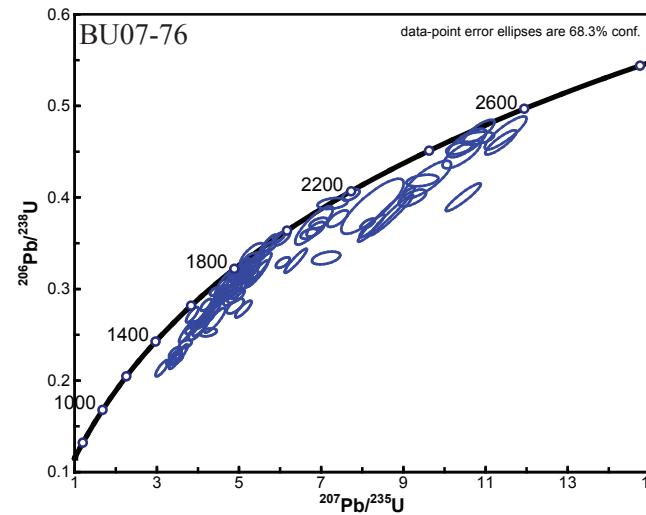
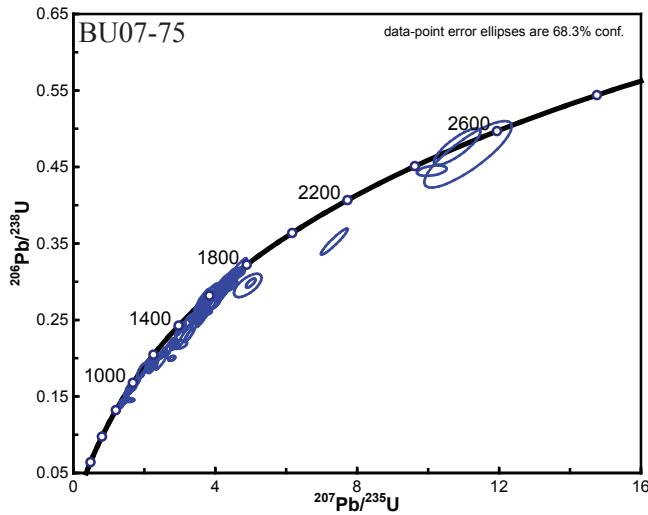
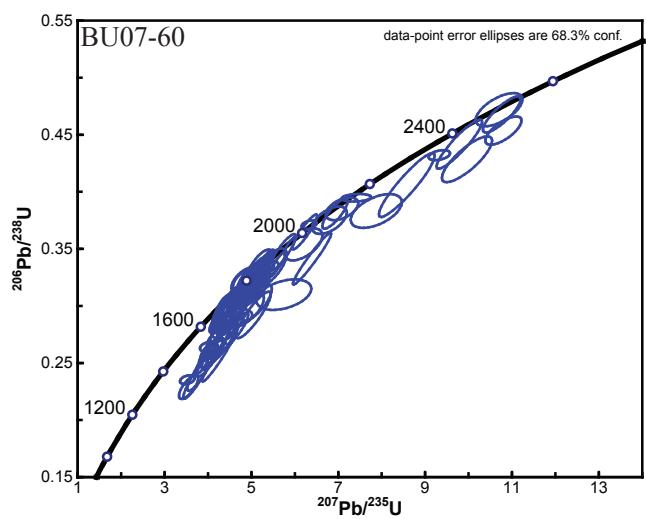
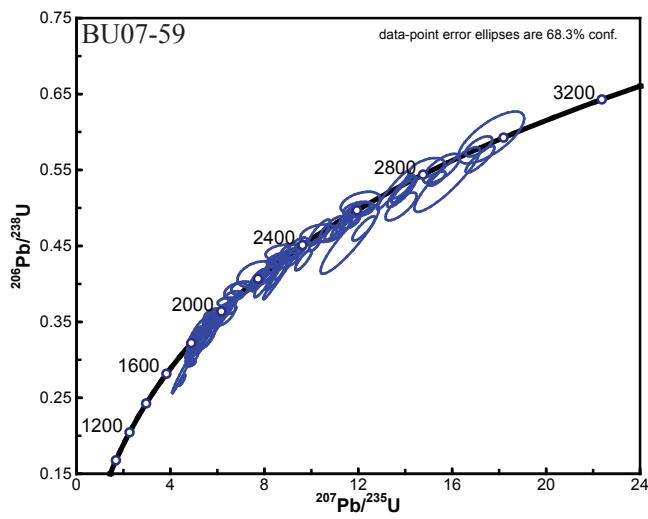


Figure DR1

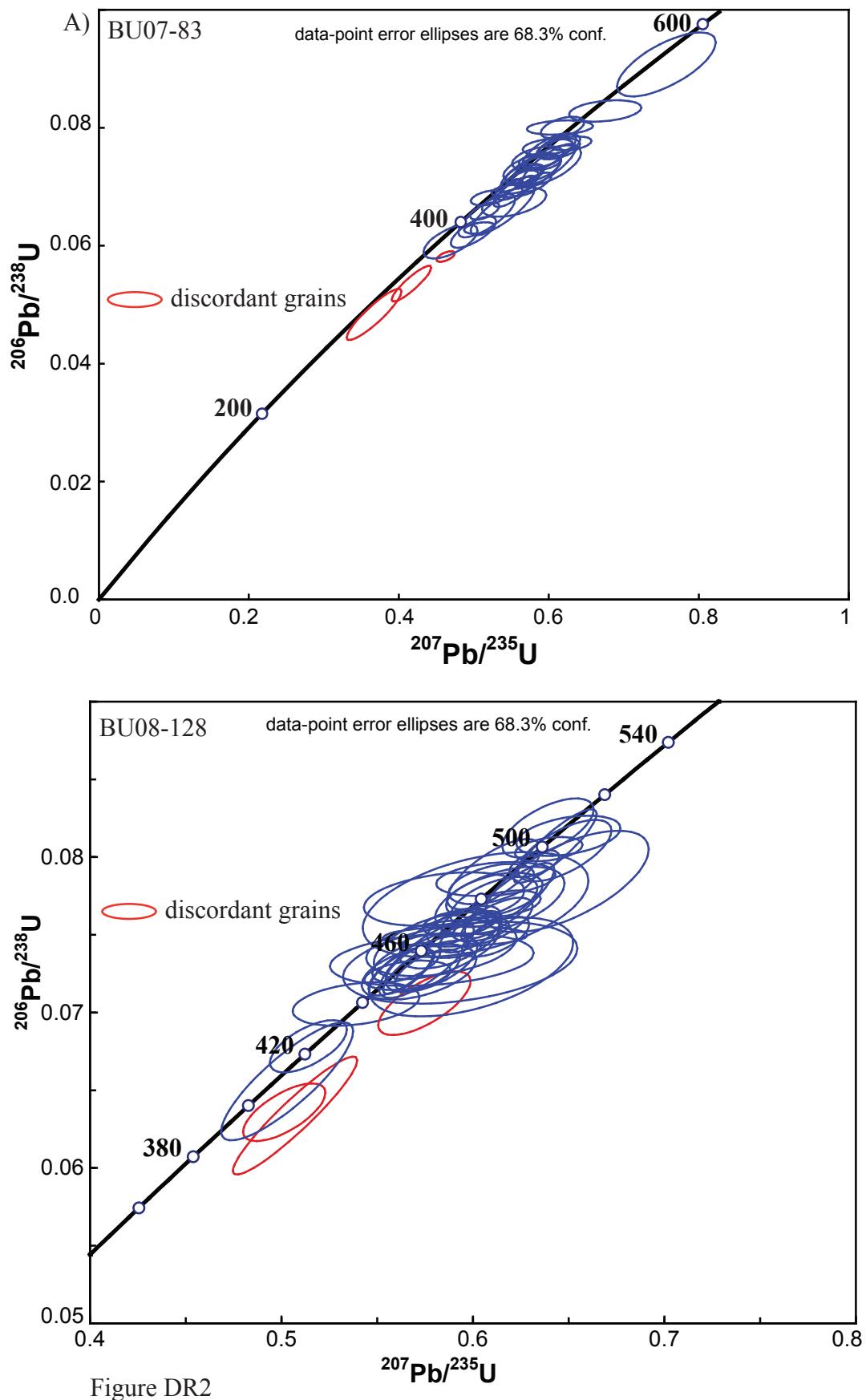


Figure DR2

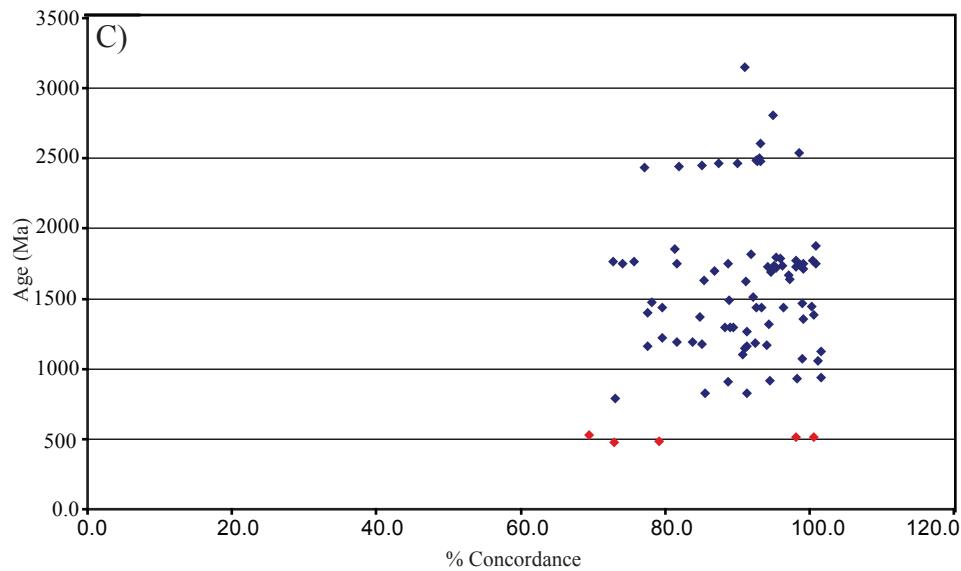
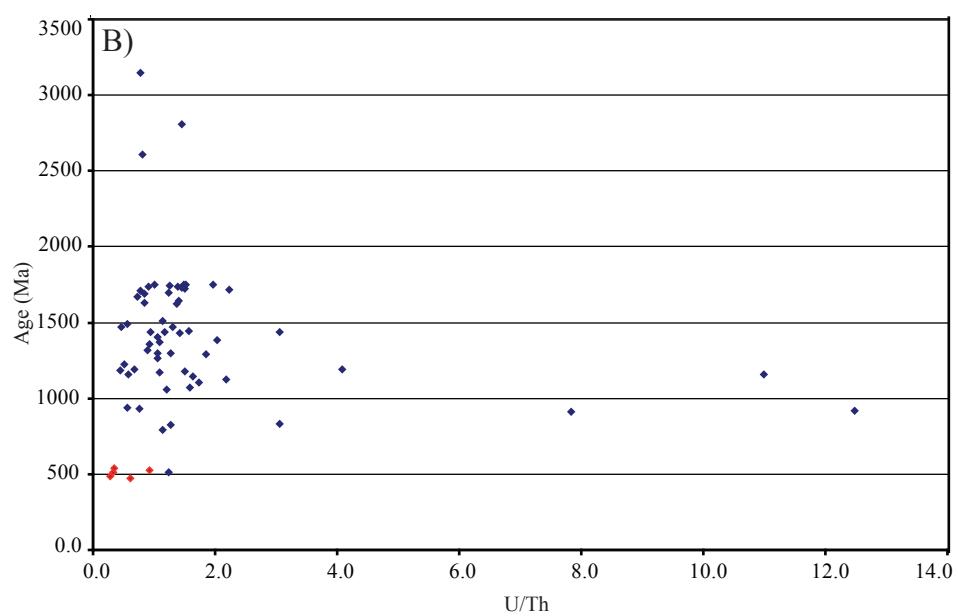
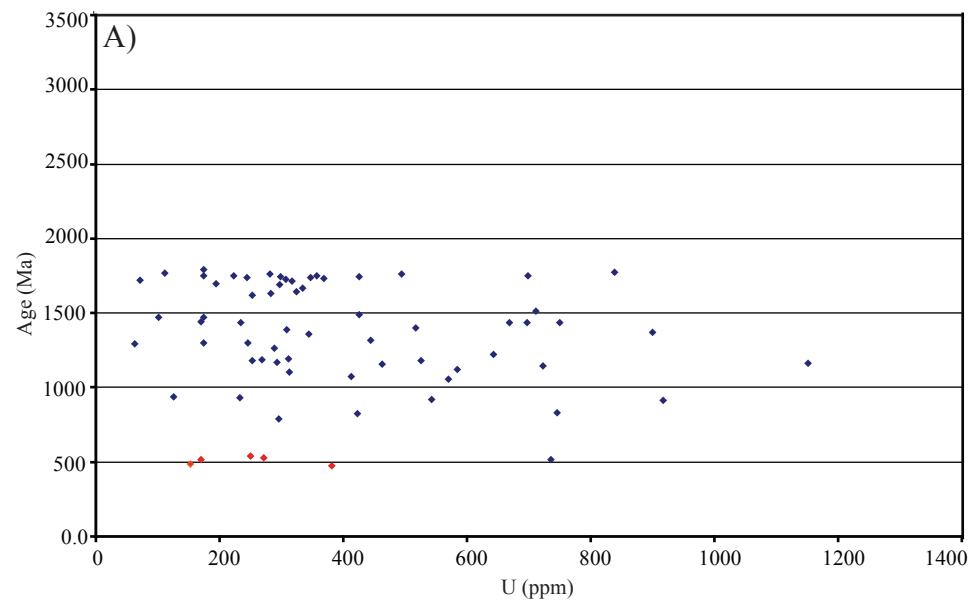


Figure DR3

Sample
Locations
for
Western
Bhutan

Sample
degreesN
(dd.ddddd
) degreesE
(dd.ddddd
) Analysis
Formation
Lithology

NBH-22
27.43297
89.64098
varepsilon
Nd Paro
Schist
BU07-84
27.42561
89.41311
DZ Paro
Quartzite

Table 2. Epsilon Neodymium Isotopic Analyses

Sample	Sm (ppm)	Nd (ppm)	$^{143}\text{Nd}/^{144}\text{Nd}(0)$	Standard Error %	varepsilonNd(0)	Formation
NBH-22	6.62	24.86	0.511995	0.0016	-12.5	Paro Schist
BU07-73	2.282	8.165	0.511545	0.0010	-21.3	Paro Quartzite
BU07-75	7.552	28.970	0.511677	0.0009	-18.8	Paro Quartzite
BU07-76	1.014	5.283	0.511402	0.0009	-24.1	Paro Quartzite
BU07-77	0.848	3.235	0.511382	0.0008	-24.5	Paro Quartzite
BU07-83	4.492	17.027	0.511978	0.0008	-12.9	Orthogneiss

| Lithology