

Epidote trace element chemistry as an exploration tool in the Collahuasi district, northern Chile

Michael J. Baker^{1,2,†}, Jamie J. Wilkinson^{1,3,4}, Clara C. Wilkinson³, David R. Cooke^{1,2}, Tim Ireland⁵

¹*Centre of Excellence in Ore Deposits (CODES), University of Tasmania, Hobart, Tasmania, Australia 7001*

²*Transforming the Mining Value Chain (TMVC), an Australian Research Council (ARC) Industrial Transformation Research Hub, University of Tasmania, Hobart, Tasmania 7001, Australia*

³*LODE, Department of Earth Sciences, Natural History Museum, Cromwell Road, London SW7 5BD, United Kingdom*

⁴*Department of Earth Science and Engineering, Imperial College London, London SW7 2AZ, United Kingdom*

⁵*First Quantum Minerals, Level 1, 24 Outram Street, West Perth, Western Australia, Australia 6005*

[†]*Corresponding author: bakermj@utas.edu.au*

Abstract

The Collahuasi district of northern Chile hosts several late Eocene-early Oligocene world-class porphyry Cu-Mo deposits, including Rosario, Ujina and Quebrada Blanca deposits, and associated high sulfidation epithermal mineralization at La Grande. Mineralization is hosted by intermediate to felsic intrusive and volcanic rocks of the upper Paleozoic to Lower Triassic Collahuasi Group, which experienced lower greenschist facies regional metamorphism prior to mineralization. Extensive hydrothermal alteration zones surround the porphyry and epithermal deposits, associated with hypogene ore-forming processes. However, outside of the observed sulfide halo the limits of geochemical anomalism associated with mineralization are difficult to define due to mineralogical similarities between weak, distal propylitic alteration and regional metamorphism affecting the host rocks.

Recent advancements in laser ablation inductively-coupled plasma mass spectrometry analysis (LA-ICP-MS) of epidote from hydrothermal alteration zones around porphyry and skarn deposits have shown that low-level hypogene geochemical anomalies can be detected at distances further from the center of mineralization than by conventional rock chip sampling. Selective analysis of propylitic epidote from the Collahuasi district indicates that anomalous concentrations of distal pathfinder elements in epidote, including As (>50 ppm), Sb (>25 ppm), Pb (>100 ppm), and Mn (>5,000 ppm) were detectable 1.5 to 4.0 km from deposit centers. Significantly, the concentrations of these trace elements in epidote were obtained from samples that contained whole rock concentrations of <25 ppm As, <2 ppm Sb, <100 ppm Pb, and <5,000 ppm Mn. Systematic increases in Cu, Mo and Sn concentrations in epidote near deposit centers, and corresponding decreasing As, Sb and Pb concentrations, also provide effective tools for assessing the fertility and locating the centers of porphyry mineralization. In addition, anomalous concentrations in epidote of Cu (up to 1 wt %) and Zn (up to 6,000 ppm) effectively discriminate epidote associated with high sulfidation epithermal veins in the Collahuasi district (e.g., La Grande, Poderosa-Rosario) from alteration associated with porphyry mineralization.

Introduction

The ability to identify the location of concealed mineralization and assess the fertility potential of districts from distal hydrothermal alteration halos is of paramount importance to explorers, especially considering that the future of mineral exploration will involve searching for signs of mineralization and alteration at increasing depths (McIntosh, 2010). Consequently, there is now a need for explorers to be able to maximize the information that can be obtained from regional-scale geochemical sampling of prospective mineralized districts. In mineralized porphyry districts, recent studies have sought to define the geochemical footprint of propylitic alteration halos surrounding mineralized porphyry and epithermal deposits (Cooke et al., 2014, 2017, this issue; Ahmed et al., this issue; Pacey et al., this issue; Wilkinson et al., this issue). New mass spectroscopy techniques developed to analyze epidote mineral chemistry have been shown to record the subtle geochemical footprints of porphyry mineralization at distances farther than can be achieved by conventional geochemical analyses (Cooke et al., 2014; Wilkinson et al., this issue). However, for this technique to be considered useful in mineral exploration, it must be sufficiently robust as to be applicable to rocks from any mineralized porphyry district.

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69 We present a case study of epidote mineral chemistry from the Rosario-La Grande hybrid
70 porphyry-epithermal deposit and Ujina porphyry deposit from the Collahuasi district of
71 northern Chile. Our results show that the geochemical footprints of large porphyry and
72 epithermal deposits can be identified using epidote mineral chemistry, at distances greater
73 than using conventional geochemical analysis. Additionally, our results indicate that this
74 method of mineral chemical analysis can identify porphyry mineralization and vector towards
75 higher-grade zones in districts that have experienced regional metamorphism. This study
76 shows that analysis of epidote mineral chemistry from the propylitic alteration zone
77 surrounding porphyry deposits can provide critical vectoring and fertility information,
78 enabling the identification of prospective areas for exploration.

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District Geology

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82 The Collahuasi district is situated in Region I in northern Chile, on the western slope of the
83 Central Andean Cordillera at elevations between 4400 and 5000 m a.s.l., 5 km from the
84 border with Bolivia (Fig. 1). The district covers an area of approximately 1200 km² and lies
85 at the northern end of the major Eocene-Oligocene porphyry Cu-Mo belt of northern Chile
86 (Fig. 1). The district is centered on the world-class Rosario hybrid porphyry Cu-Mo and high-
87 sulfidation Cu-Ag deposit (3.11 Gt at 0.82% Cu, 0.024% Mo and 0.01 g/t Au; Masterman et
88 al., 2004; Djouka-Fonkwé et al., 2012), the Quebrada Blanca porphyry Cu-Mo deposit (1.43
89 Gt at 0.59% Cu; Ireland, 2010) and the Ujina porphyry Cu-Mo deposit (636 Mt at 1.06% Cu;
90 Camus, 2002; Fig. 2). To the south of Rosario, late-stage high sulfidation Cu-(Ag-Au) and
91 Ag-Au veins were localised along the Rosario and Monctezuma fault systems. They include
92 the La Grande, Poderosa, Condor, Esperanza, Cacique and Monctezuma vein systems (Fig. 2;
93 Masterman et al., 2004; Ireland, 2010; Djouka-Fonkwé et al., 2012). These late-stage
94 epithermal vein systems have overprinted low-grade porphyry Cu-Mo mineralization and
95 alteration and locally define zones of high copper grades (Masterman et al., 2004). Several
96 other mineral deposits, including the Huiniquintipa gravel-hosted exotic Cu deposit, and La
97 Profunda prospect, are located within the district (Fig. 2). The geology, geochronology,
98 mineralization and hydrothermal alteration of the Collahuasi district have been detailed in a
99 number of recent studies (e.g., Munchmeyer et al., 1984; Vergara and Thomas, 1984;
100 Maksaev, 1990; Dick et al., 1994; Lee, 1994; Clark et al., 1998; Rowland, 1998; Masterman,

2003; Masterman et al., 2004, 2005; Makshev et al., 2007; Munizaga et al., 2008; Urqueta et al., 2009; Ireland, 2010; Djouka-Fonkwé et al., 2012).

Basement rocks of the Collahuasi district are Ordovician metamorphosed mica schist, amphibolites and minor migmatites of the Choja Formation (Ireland, 2010). The Choja Formation is overlain by the Paleozoic to Permo-Triassic Collahuasi Formation (Fig. 2). The Collahuasi Formation, also referred to as the Peine Group (Bahlburg and Breitzkreuz, 1991; Ireland, 2010), is a sequence of rhyolitic, dacitic and andesitic flows with intercalated immature volcanoclastic rocks and rare limestone lenses and is the main host to mineralization in the Collahuasi district (Masterman et al., 2004; Munizaga et al., 2008; Urqueta et al., 2009; Djouka-Fonkwé et al., 2012). To the west of the Collahuasi district, the Collahuasi Formation is unconformably overlain by deep- to shallow-marine Jurassic sedimentary rocks of the Quehuita Formation. Overlying the Quehuita Formation are Cretaceous continental volcanic and arenitic rocks of the Cerro Empexa Formation (Fig. 2; Masterman et al., 2004; Ireland, 2010). Extensive Cenozoic ignimbrite flows (Huasco and Ujina Ignimbrites) cover basement rocks to the north and in the southeast part of the district (Fig. 2).

Three pre-Middle Triassic intrusive phases that intruded the Collahuasi, Quehuita and Cerro Empexa Formations have been recognised. These include ca. 270-260 Ma diorite to granodiorite plutons (e.g., Escorial Diorite, Ceucis Granodiorite; Huete et al., 1977; Damm et al., 1986), the Permo-Triassic granodioritic Collahuasi Porphyry (245 ± 12 Ma; Masterman, 2003), and the ca. 238-237 Ma Cascasca dikes, a basaltic andesite dike swarm located between the Ujina and Rosario porphyry deposits (Ireland, 2010; Fig. 3). The host sequences were subsequently intruded by a series of calc-alkaline diorite to granite stocks and plutons of Paleocene to Eocene age (Fig. 2; Masterman, 2003; Masterman et al., 2004; Ireland, 2010). They include the upper Eocene Quebrada Blanca intrusive complex (Urqueta et al., 2009) which hosts the Quebrada Blanca porphyry Cu-Mo deposit, the mineralized Rosario Porphyry (34.4 ± 0.3 Ma; Masterman et al., 2004), the syn-mineralization Ujina porphyry (35.0 ± 0.3 Ma; Masterman et al., 2004), and the syn- to late-mineralization Inca porphyry (34.8 ± 0.3 Ma; Masterman et al., 2004) that intrude the Ujina porphyry (Masterman, 2003; Urqueta et al., 2009).

The host rocks of the Collahuasi district are separated into three stratigraphic domains by the north-trending Domeyko and Loa fault systems (Fig. 2). In the west, the Quehuita and Cerro Empexa Formations are separated from the Collahuasi Formation by the regional-scale Domeyko Fault. In the east, the Loa fault system separates the Collahuasi Formation from a chain of Miocene-Pliocene andesite stratovolcanoes (Fig. 2). The Quebrada Blanca, Rosario and Ujina porphyry deposits define a broad east-west corridor between the West Fissure of the Domeyko fault system to the west and the Loa Fault to the east (Fig. 2; Dick et al., 1994).

Rosario and Ujina porphyry Cu-Mo deposits

Geologic setting

Rosario: The host rocks of the Rosario deposit are andesitic to rhyolitic flows and lesser volcanoclastic rocks of the Collahuasi Formation (Fig. 2; Masterman et al., 2004; Ireland, 2010). The host sequence was intruded by several porphyritic dikes and stocks, beginning with the pre-mineralization granodiorite Collahuasi porphyry (Masterman, 2003). The Collahuasi porphyry is a NW-trending, 50-300 m wide dike, with a strike length of 8 km (Munchmeyer et al., 1984; Masterman et al., 2004). The southeastern portion of the intrusion is outside the hydrothermal alteration halo of the Rosario deposit (Masterman et al., 2004). The Collahuasi porphyry was intruded by the Rosario quartz monzonite porphyry (Masterman et al., 2004). The Rosario porphyry is NW-trending, 300 to 500 m wide, up to 1500 m long and has been identified at depths of up to 1000 m at Rosario (Masterman et al., 2004). The intrusion is the primary host for low-grade, veinlet and disseminated porphyry-style Cu-Mo mineralization (Masterman, 2003). A third intrusion, the sill-like, Triassic Inés dacite porphyry has also been identified by previous workers (Clark et al., 1998; Masterman et al., 2004). The Rosario fault system, a series of NW-striking, SW-dipping brittle faults, cut the mineralized intrusions (Masterman et al., 2004). This fault system localised high-sulfidation Cu-Ag massive-sulfide veins and overprinting supergene mineralization (Fig. 3; Dick et al., 1994; Masterman et al., 2004).

Ujina: Ujina is hosted by the Collahuasi Formation, which is composed of a thick basal andesite sequence overlain by rhyolite and sedimentary breccia (Bisso et al., 1998; Masterman et al., 2004). Two porphyritic intrusions, both K-feldspar-quartz-biotite-phryic, have been identified at Ujina. The main host to porphyry-style mineralization is the Ujina porphyry, a cylindrical 1200 m-diameter granodiorite stock (Masterman et al., 2004). It was

intruded by a series of north- and northwest-trending granodiorite dikes collectively termed the Inca porphyry (Bisso et al., 1998; Masterman et al., 2004). Disseminated porphyry Cu-Mo mineralization is concentrically zoned around the Ujina porphyry with the highest hypogene grades occurring near the sulfide-poor, chalcopyrite-bornite-dominated potassically-altered core (DeBeer and Dick, 1994; Masterman et al., 2004; Urqueta et al., 2009). The Inca porphyry is weakly mineralized in comparison to the Ujina porphyry, and Masterman et al. (2004) interpreted this as evidence that the Inca porphyry was intruded late in the mineralization history. The host rocks and porphyry mineralization at Ujina are partially overlain by the Miocene Ujina Ignimbrite (Fig. 2).

Mineralization and Alteration

Rosario: Multiple generations of mineralization and alteration have been identified at Rosario (Lee, 1994; Masterman, 2003; Masterman et al., 2004, 2005; Ireland, 2010; Djouka-Fonkwé et al., 2012). Detailed descriptions of the paragenesis are given by Lee (1994) and Masterman (2003). At Rosario, porphyry-style mineralization is associated with early, transitional and intermediate-stage veins, with at least seven vein stages documented (Masterman et al., 2005). High-sulfidation mineralization is associated with late-stage, structurally-controlled massive sulfide veins, including the La Grande, Poderosa, Condor, and Rosario veins (Fig. 3; Masterman et al., 2004).

Propylitic alteration assemblages across the Rosario-La Grande hydrothermal system were mapped in detail by Ireland (2010) and are summarised in Figure 3. Ireland (2010) observed epidote-dominated replacement and vein alteration assemblages intermittently over an area of ~15 km² surrounding Rosario. The most pervasive epidote-dominated alteration textures and veining are generally restricted to highly fractured zones along the Monctezuma and Rosario Fault systems proximal to Rosario (Fig. 3 and 4a). Outboard of these zones, alteration varies from selective epidote-chlorite-albite alteration around the La Grande epithermal system and up to 2 km north of Rosario (Fig. 4b), to weakly developed chlorite-(carbonate) replacement-style alteration that has been observed selectively altering host rocks of the Collahuasi Formation, approximately 5 km from Rosario (Fig. 3; Ireland, 2010; Djouka-Fonkwé et al., 2012).

Ujina: A detailed description of the paragenesis of Ujina was provided by Masterman (2003). At least two stages of hypogene mineralization and alteration have been identified

(Masterman, 2003; Masterman et al., 2004, 2005). The earliest stage of mineralization and alteration is associated with potassic alteration, centered on the Ujina porphyry (Fig. 3). The potassic alteration is characterised by a K-feldspar-dominated alteration adjacent to and within the porphyry that passes outward to biotite-dominated alteration on the periphery of the system (Masterman et al., 2004). Disseminated and veinlet-style chalcopyrite-bornite are characteristic of this early-stage of mineralization. Intermediate-stage veins contain quartz and molybdenite, and do not have associated alteration halos (Masterman et al., 2004). These veins are cut by late- or main-stage veins that contain pyrite, chalcopyrite and quartz, surrounded by illite-chlorite alteration halos (Masterman et al., 2004). Overlying Ujina is an enriched supergene zone characterised by kaolinite and smectite (Masterman et al., 2004).

Propylitic alteration at Ujina comprises an inner zone of epidote-(chlorite)-dominated vein and replacement-style alteration (Fig. 4c) and an outer zone of chlorite-(carbonate)-dominated alteration (Fig. 3; Ireland, 2010). It is associated with the earliest stage of mineralization and is inferred to have developed at the same time as the potassic alteration that overprinted the Ujina porphyry (Masterman et al., 2004; Ireland, 2010). Felsic to intermediate host rocks of the Collahuasi Formation are weakly carbonate-chlorite-(sericite)-altered up to 2 km from the deposit, with the intensity of alteration decreasing away from the center of mineralization. Chlorite-(epidote)-bearing replacement assemblages occur closer to the deposit but are still observed over a kilometre away from the outer edge of observed potassic alteration (Fig. 3; Ireland, 2010). Weakly developed epidote-chlorite-(carbonate-hematite) alteration assemblages are found in outcrops of the mafic Cascasca dikes up to 3 km south of the deposit (Figs. 3 and 4d).

Analytical Methods

A total of 170 rock chip and drill core samples containing visible propylitic alteration assemblages were collected from both Rosario and Ujina for use in this study (Fig. 3). Each sample was analyzed for its whole-rock geochemistry, and selected epidote grains from each sample were analyzed by electron microprobe and laser ablation inductively-coupled plasma mass spectrometry (LA-ICP-MS). Samples selected for epidote mineral chemical analyses were prepared as epoxy-mounted 1-inch diameter round mounts. Epidote grains in each sample suitable for LA-ICP-MS analysis were then selected via reflected light petrography. In general, epidote grains less than ~80 μm were not selected for analysis, due to the

minimum required laser beam width and ablation pit formed during analysis. Depending on the sample texture and abundance of the desired phase, up to five grains per sample were analyzed, with typically three spot analyses from each grain. Where both vein and replacement-style alteration were present in a sample, mineral chemical data were acquired from each in order to test for textural influence on trace element substitutions.

Whole-rock geochemistry

Whole rock geochemical analyses were completed on the same samples used for epidote trace element analysis to allow direct comparison of mineral chemistry and whole rock compositions. We did not analyze weathered samples. Whole rock major and trace element data were generated at Acme Analytical Laboratories Ltd. in Vancouver, Canada. Samples were jaw crushed to 70% passing 10 mesh (2 mm), a 250 g aliquot was riffle split and pulverized to 95% passing 150 mesh (100 μm) in a mild-steel ring-and-puck mill. A 0.2 g powdered sample was fused in a graphite crucible with 1.5 g of $\text{LiBO}_2/\text{LiB}_4\text{O}_7$ flux at 980°C for 30 min and then dissolved in 5% HNO_3 . Major elements were determined using a Jarrel Ash AtomComp Model 975/Spectro Ciros Vision inductively coupled plasma emission spectrograph. Trace elements were analyzed using a Perkin-Elmer Elan 6000 or 9000 inductively coupled plasma mass spectrometer. For major and trace elements, calibration standards, verification standards, and reagent blanks were included in the sample sequence. Reported detection limits are 0.04 wt % for the major elements and 0.5 ppm for the majority of the trace elements, excluding the REE (0.05 ppm). Whole rock major and trace element data for selected samples from the Collahuasi district are listed in Table 1. Whole rock major and trace element data for all samples are listed in Appendix A.

Electron microprobe analysis of epidote

The concentration of Ca and other major elements in each epidote grain was confirmed by electron microprobe analyses of epidote grains following the method of Cooke et al. (2014). Compositional analyses were acquired on a Cameca SX100 electron microprobe located at the Central Science Laboratory, University of Tasmania, on five tuneable wavelength dispersive spectrometers at a take-off angle of 40° . The analyses were performed at an accelerating voltage of 15 kV, a beam current of 10 nA, and a beam diameter of 10 μm , using Cameca's PeakSight software (version 3.4). Elements were acquired using analyzing crystals LLIF for Fe $K\alpha$, and Mn $K\alpha$, PET for K $K\alpha$, Ca $K\alpha$, and Ti $K\alpha$, LPET for P $K\alpha$, S $K\alpha$, and Cl K . All standards were from Astimex Scientific Ltd. The background correction

method was linear for all elements except for Fe and Mn, where only a high background was used with a slope factor. Unknown and standard intensities were corrected for deadtime. Matrix correction was done using the Cameca PAP program (Pouchou and Pichoir, 1984) mass absorption coefficients.

X_{Fe} values used to quantify the solid solution series between epidote ($\text{Ca}_2\text{Al}_2\text{Fe}^{3+}[\text{Si}_2\text{O}_7][\text{SiO}_4]\text{O}(\text{OH})$) and clinozoisite ($\text{Ca}_2\text{Al}_3[\text{Si}_2\text{O}_7][\text{SiO}_4]\text{O}(\text{OH})$) were calculated from electron microprobe data using the formula $X_{\text{Fe}} = \text{Fe}^{3+}/(\text{Fe}^{3+} + \text{Al})$ (Armbruster et al., 2006). Electron microprobe data for all samples are listed in Appendix B.

Quantitative LA-ICP-MS multielement analysis of epidote

A total of 629 laser ablation analyses were collected from epidote veins and altered wall rocks in 107 samples from both the Rosario and Ujina deposits. The laser ablation analyses were collected using two instruments housed at the CODES LA-ICP-MS analytical facility, University of Tasmania, including: (1) a New Wave 213 nm solid-state laser microprobe coupled to an Agilent 4500 quadrupole ICP-MS; and (2) a New Wave 193 nm solid-state laser coupled to an Agilent 7500cs quadrupole ICP-MS. Both laser microprobes were equipped with in-house, small volume ($\sim 2.5 \text{ cm}^3$) sample chambers. A total of 43 elements were analyzed from each spot. Ablation was performed in an atmosphere of pure He ($\sim 0.7 \text{ l/min}$). Quantitative analyses of epidote were performed by ablating spots $30 \text{ }\mu\text{m}$ in size, with a laser repetition rate of 10 Hz. For the 193 nm laser, the beam fluence at the sample was $\sim 3 \text{ J/cm}^2$ and for the 213 nm laser $\sim 5 \text{ J/cm}^2$. The analysis time for each sample was 90 s, with 30 s for measurement of the gas background (with the laser off) and 60 s of signal analysis with the laser on (Appendix D). The signal analysis time of $\sim 60 \text{ s}$ was necessary to minimise the analytical uncertainty for each spot analysis and therefore lower the detection limits for analyte elements. Isotopes measured were ^{43}Ca , ^{52}V , ^{55}Mn , ^{57}Fe , ^{65}Cu , ^{66}Zn , ^{69}Ga , ^{75}As , ^{88}Sr , ^{89}Y , ^{90}Zr , ^{95}Mo , ^{118}Sn , ^{121}Sb , ^{125}Te , ^{137}Ba , ^{139}La , ^{140}Ce , ^{141}Pr , ^{146}Nd , ^{147}Sm , ^{153}Eu , ^{163}Dy , ^{172}Yb , ^{175}Lu , ^{197}Au , ^{205}Tl , ^{208}Pb , ^{209}Bi , ^{232}Th , and ^{238}U . No corrections for interfering molecular or isobaric species were required due to the selection of appropriate analytical isotopes and minimized molecular species formation. Acquisition time for each mass was set to 0.02 s, with a total sweep time to analyze all masses of $\sim 0.65 \text{ s}$. The NIST-612 glass standard (NIST, USA) was used for calibration, analyzed with a $100 \text{ }\mu\text{m}$ diameter beam at a laser repetition rate of 10 Hz. It was analyzed twice every 1.5 h to correct for drift in instrument sensitivity with time. The secondary standard GSD-1G, run at a $30 \text{ }\mu\text{m}$ spot size,

was used to assess and correct for plasma-loading effects, if present. Time intervals for data reduction were selected by visual inspection of each spectrum. Parts of a spectrum that were contaminated by mineral inclusions (i.e., spikes in trace element data) were not integrated, nor were parts where concentrations changed markedly (e.g., at the commencement and conclusion of ablation; Appendix D). Data reduction was undertaken according to standard methods (Longerich et al., 1996) using Ca as the internal standard. An additional ~200 epidote LA-ICP-MS analyses were discarded due to poor-quality spectra that resulted from ablation of inclusions or grain boundaries. The discarded analyses included the filtering of processed data to remove analyses with major element concentrations that were not consistent with epidote *sensu stricto* (Franz and Liebscher, 2004). This included analyses with Ca concentrations below 143,000 ppm or above 185,000 ppm, Al concentrations below 75,000 ppm and Fe concentrations below 25,000 ppm. Representative epidote LA-ICP-MS data from the Collahuasi district are listed in Table 2. A full list of epidote LA-ICP-MS analyses for all samples is given in Appendix C.

Results

Electron microprobe analyses of epidote from the Collahuasi district yielded X_{Fe} values ranging from 0.11 to 0.44, with mean and median values of 0.28. Both electron microprobe and laser ablation analyses show that Mn is the most abundant trace element, with microprobe analyses detecting up to 0.13 wt. % Mn, and LA-ICP-MS spot analyses detecting up to 2.5 wt. % Mn. Maximum values of key trace elements that have been shown to preferentially partition into epidote group minerals (Armbruster et al., 2006; Cooke et al., 2014), as detected by LA-ICP-MS spot analyses in this study include: 5,210 ppm Ce, 17,710 ppm Sr, 1,570 ppm V, 2,470 ppm La, 1,330 ppm Nd, 1,170 ppm Y, and 640 ppm Pb (Appendix C). Trace element concentrations in several laser ablation analyses trend towards clinozoisite (Al end-member) and piemontite (Mn end-member) compositions as defined by Armbruster et al. (2006). However, most of the analyses can be classified as epidote *sensu stricto* (Table 2).

Whole rock geochemistry

Figures 5, 6, and 7 show the spatial distribution of geochemical anomalies for key pathfinder elements from rock-chip sampling around the Rosario and Ujina porphyry deposits and the La Grande high sulfidation epithermal deposit. Although most of the analyzed rock types

range from mafic to felsic intrusive and extrusive rocks, no correlation between rock type and pathfinder element anomalism was identified. Maximum concentrations of the trace metals Cu, Au, Mo, and Sn are recorded in intermediate intrusive (diorite and granodiorite) and extrusive (andesite and dacite) host rocks in and adjacent to the potassic alteration zones of Rosario and Ujina, as well as in samples associated with the La Grande and Rosario high sulfidation epithermal vein systems (Fig. 5; Appendix A). The highest Cu concentrations were detected from samples within the potassic alteration zone at Ujina, and from a sample from the La Grande epithermal deposit (Fig. 5). The trace elements As, Sb, Pb, Zn, and Mn are strongly enriched 1-4 km from the centers of mineralization, with Pb, Sb, Zn, and Mn anomalism also spatially associated with the Rosario and La Grande high sulfidation vein systems (Fig. 6 and 7). Other trace elements of interest, including La, Y, and Zr, show higher concentrations within the pyrite halo surrounding Rosario and Ujina, and are anomalous up to 2 km from the center of the porphyry deposits (Fig. 7).

Epidote LA-ICP-MS mineral chemistry

Figures 8, 9, and 10 illustrate the spatial distribution of trace element concentrations in epidote as determined by LA-ICP-MS analysis from the Rosario and Ujina porphyry deposits. Proximal to centers of mineralization, metals with elevated concentrations detected in whole rock geochemical analyses (e.g., Cu, Au, Mo, and Sn) also show elevated concentrations in epidote (Fig. 8). However, the concentrations of Cu, Au, and Mo in epidote are typically lower than their corresponding whole rock compositions (cf. Fig. 5). Notable exceptions are epidote analyses from two samples from the Rosario-Poderosa high sulfidation vein system to the southeast of the Rosario porphyry deposit (Fig. 8a). These returned Cu concentrations up to 8,400 ppm (Table 2). Gold concentrations in epidote are mostly below LA-ICP-MS detection limits; however, three samples from the Rosario high sulfidation epithermal vein system contained trace amounts of Au in epidote (Fig. 8b). Elevated concentrations of As, Sb, Pb, and Zn in epidote extends up to 4 km from the porphyry deposit centers, beyond the mapped extent of the pyrite halos associated with both Rosario and Ujina (Fig. 9). Around the Ujina deposit, As and Sb concentrations in epidote are generally greater than 200 ppm and 10 ppm respectively and are detectable 1 to 4 km from the inferred center of mineralization (Fig. 9). Significantly, peak concentrations of these trace elements in epidote were obtained from rock chip samples that contain less than 50 ppm As and less than 3 ppm Sb (Fig. 6; Table 1). Several other rare earth and trace elements, including Mn, La, Y,

Sr, V, and Ce are also enriched in epidote analyses up to an order of magnitude greater than their corresponding whole rock analyses (Fig. 10 and 11).

Anomalously high Cu concentrations in epidote surrounding Rosario (Fig. 8a) are associated with samples proximal to high sulfidation epithermal mineralization along the Poderosa-Rosario and La Grande vein systems (Fig. 3). In particular, two samples from the Poderosa vein system are responsible for nearly all epidote analyses from this study that have Cu concentrations >1,000 ppm, with individual analyses containing Cu concentrations up to 8,370 ppm (Fig. 12a). Anomalously high concentrations of Zn were also recorded in these samples and are over an order of magnitude greater than for analyses of other epidote grains associated with the Rosario and Ujina porphyry hydrothermal systems (Fig. 12 and 13). The high concentration of these elements in epidote associated with high sulfidation mineralization, relative to the levels observed in epidote associated with the porphyry mineralization (e.g., Cooke et al., 2014; Ahmed et al., this issue; Wilkinson et al., this issue), may provide a means for discriminating between propylitic alteration associated with porphyry and high sulfidation epithermal systems.

Anomalous concentrations of Cu (>1,000 ppm) in epidote were also recorded in two samples from the Casa de Piedra area, ~4 km north of Rosario (Fig. 3 and 8a). Propylitic alteration in this area was noted by Ireland (2010) as being dominated by discrete fault-fill and wall rock alteration comprising pervasive quartz-epidote-(chlorite) replacement and cementation of fault breccias, with narrow halos of pervasive epidotization of wall rocks where epidote has replaced plagioclase. The epidote-rich assemblages in this area were also observed to contain native Cu, which was inferred to be a rare primary component (Ireland, 2010). Consequently, it is possible that the high Cu concentrations in epidote from Casa de Piedra may be due to the incorporation of Cu nanoparticles into the epidote crystal structure.

Discussion

Behaviour of key trace elements in epidote – implications for deposit type identification

Figure 11 shows the behaviour of key major and trace elements that substitute into propylitic epidote from the Collahuasi district, relative to their corresponding whole rock geochemical analyses. The rationale behind the behaviour of these elements was previously outlined by Cooke et al. (2014), who showed that for the propylitic alteration zone surrounding a small porphyry Cu-Au deposit, several key elements were preferentially enriched in the host rock

relative to epidote, including Na, Mg, K, Ti, Ba, Zr, Zn, Cu, Ce, Y, Nd, La, Yb, Mo, and Lu (Fig. 11a). Conversely, a series of elements are significantly enriched in epidote relative to the host rock, including Al, Fe, Mn, Sr, V, As, Pb, Sb, Sn, Eu, and Bi (Fig. 11b). Of the elements that preferentially partition into epidote, both Al and Fe are essential trivalent cation components (Armbruster et al., 2006). Manganese and Sr are the most abundant trace elements, typically with concentrations between 1,000 ppm and 1 wt % (Table 2; Cooke et al., 2014; Wilkinson et al., this issue). Vanadium is the next most abundant trace element, with concentrations typically between 100 and 1,000 ppm (Table 2). Other trace elements that preferentially partition into epidote require LA-ICP-MS analysis to be detected, as their typical concentrations are below the detection limits of the electron microprobe. Of these elements, the most important in this study are the proximal pathfinder elements (Cu, Mo, Au, and Sn) and the distal pathfinder elements (As, Sb, Pb, Mn, and Zn).

Based on analyses of epidote grains obtained from a sampling traverse across the Black Mountain porphyry deposit, Philippines, Cooke et al. (2014) demonstrated that the proximal pathfinder elements are generally enriched in epidote that formed within the pyrite halo and close to centers of mineralization, whereas the distal pathfinder elements typically contain higher concentrations further away from the deposit center, particularly outside of the pyrite halo. They postulated that this behaviour was a consequence of the combination of lateral migration, cooling, and depletion of H₂S in magmatic-hydrothermal fluids away from the core of the porphyry deposit. Furthermore, enrichment of Cu, Au, and Mo in propylitic epidote occurring within the pyrite halo suggests that either the concentrations of these metals in the mineralising fluids were high enough that they were incorporated into the epidote crystal structure, or that sulfides of these metals were precipitated as nanoparticles and trapped within crystallizing epidote grains (Cooke et al., 2014). Conversely, the concentrations of As, Sb, and Pb in propylitic epidote are depleted within the pyrite halo, due to preferential scavenging by sulfides. However, at lower temperatures and low H₂S activity where sulfide phases are no longer stable these elements remain soluble and can then substitute into epidote (Cooke et al., 2014).

Strong similarities in the behaviour of key trace elements in epidote from the Collahuasi district (Fig. 11) and propylitic epidote from other porphyry deposits (Cooke et al., 2014, 2017, this issue; Ahmed et al., this issue; Pacey et al., this issue; Wilkinson et al., this issue), suggest that there are consistent trends in the chemical composition of epidote formed from

hydrothermal alteration around porphyritic intrusions. Similarities in behaviour of the key proximal (Cu, Mo, and Sn) and distal (As, Sb, Pb, and Zn) pathfinder elements in epidote may reflect the style of mineralization that is associated with epidote alteration, as well as the potential size of the deposit. Propylitic epidote from the Collahuasi district returned concentrations of 0.2-8,370 ppm Cu (Table 2; Fig. 12 and 13), extending to much higher values than reported for epidote from the Black Mountain deposit (0.1-100 ppm Cu). Concentrations of As (up to 343 ppm), Sb (up to 258 ppm), and Pb (up to 640 ppm) in epidote from the Rosario and Ujina deposits (Table 2; Fig. 12 and 13) are also significantly higher than for the epidote analyses from Black Mountain, which contained up to 180 ppm As, 65 ppm Sb, and 120 ppm Pb (Cooke et al., 2014). These results are consistent with the suggestion that highly productive porphyry systems are likely to flux greater volumes of mineralising fluid, which could lead to greater trace metal enrichment in epidote (Cooke et al., 2014; Wilkinson et al., this issue).

Extending the lateral footprint of geochemical anomalism associated with porphyry deposits

The lateral extents of mappable propylitic alteration, sulfide mineralization, and geochemical anomalism determined from conventional rock-chip assaying have traditionally formed the identifiable footprints around porphyry deposits in volcanic-hosted terranes (Lowell, 1968; Lowell and Guilbert, 1970; Holliday and Cooke, 2007; Halley et al., 2015). This is contrary to the early recognition that propylitic alteration may extend to the limits of pre-mineralization rock exposure, to at least 4 km (Ballantyne, 1981). However, the presence of lower-greenschist facies regional metamorphism in districts hosting porphyry mineralization, such as the Collahuasi district (Ireland, 2010; Djouka-Fonkwé et al., 2012), can prove problematic for explorers aiming to recognize the edge of a hydrothermal alteration system. For example, epidote can form in a number of geologic environments, including in the alteration halos surrounding porphyry and skarn deposits, in regional and contact metamorphic terranes, and under certain magmatic conditions (Schmidt and Poli, 2004).

Recent studies within the Collahuasi district have sought to address this issue (Urqueta et al., 2009; Djouka-Fonkwé et al., 2012). Urqueta et al. (2009) used Pearce element ratio analysis of intermediate and felsic rocks from the Collahuasi district to discriminate between fresh and hydrothermally-altered samples. However, their results demonstrated that this method could not distinguish lower greenschist facies metamorphism from distal propylitic alteration, as neither process involves the gain or loss of major chemical components (Djouka-Fonkwé et

al., 2012). Djouka-Fonkwé et al. (2012) used a combination of petrographic and stable carbon isotope analysis to demonstrate that propylitically-altered rocks of the Collahuasi district in general contain higher magmatic CO₂ concentrations, as suggested by elevated $\delta^{13}\text{C}$ values, than regional metamorphic rocks.

Analysis of the systematic spatial variation of key trace elements in propylitic epidote has the potential to be used in place of, or to complement, other methods for detecting the distal geochemical signatures of mineralized magmatic-hydrothermal systems. LA-ICP-MS analysis of epidote has revealed that trace element chemistry broadly varies with increasing lateral distance from the center of porphyry mineralization (Cooke et al., 2014). Selective analysis of both vein and disseminated epidote grains shows that anomalous concentrations of the key distal pathfinder elements As, Sb, and Pb, can be detected at distances further from the center of mineralization compared to conventional rock chip sampling (Fig. 12 and 13; Cooke et al., 2014). The concentrations of these elements generally increase outwards from the center of mineralization, reaching peak concentrations near the limits of sulfide precipitation. They then decrease to apparent background levels with increasing distance from the deposit, where their concentrations are virtually indistinguishable from those of regionally metamorphosed samples. In Figures 12 and 13, whole rock concentrations of As and Sb show no notable anomalism (e.g., <40 ppm As and <5 ppm Sb). Additionally, whole rock concentrations of Pb are above 'background' levels of <50 ppm between 1-3 km from the deposit center at Rosario-La Grande (Fig. 12) and 1-2 km from the deposit center at Ujina (Fig. 13). In contrast, anomalous concentrations of As (>50 ppm), Sb (>25 ppm), and Pb (>50 ppm) were detected in epidote analyses between 0.5-4.0 km and 1-4 km from the centers of Rosario-La Grande and Ujina, respectively (Figs. 12 and 13). At distances greater than 4 km from the centers of porphyry mineralization, the concentrations of these trace elements either return to background levels comparable with whole rock concentrations, or epidote was no longer present as a stable alteration phase. Peak concentrations of these elements are generally reached ≥ 1 km outboard of the limit of sulfide deposition (Figs. 12 and 13).

In assessing the background concentrations of pathfinder trace elements in propylitic epidote, it is useful to consider the ability to chemically discriminate epidote formed in this environment from epidote formed by regional metamorphic processes. The ability to discriminate between these modes of occurrence is also critical for demonstrating the applicability of alteration mineral chemistry as an exploration tool. Although the Peine Group

host rocks to the Rosario-La Grande and Ujina deposits have undergone lower greenschist facies regional metamorphism (Ireland, 2010; Djouka-Fonkwé et al., 2012), regional metamorphic rocks from the Collahuasi district were not analyzed in this study. Consequently, to determine if the anomalous concentrations of trace elements in epidote are unique to the Collahuasi district, or are present in other terranes, we have compared the propylitic epidote analyses from this study to epidote from three suites of greenschist to amphibolite facies regionally metamorphosed rocks that have no known association with hydrothermal mineralization (Fig. 14; Baker et al., 2017; Wilkinson et al., 2017). The proximal (e.g., Cu, Bi, Sn) and distal (e.g., As, Sb, Pb, Zn) pathfinder metals in propylitic epidote all have higher concentrations when compared to the regional metamorphic epidote analyses (Fig. 14a and b). This feature is most noticeable for the distal pathfinder elements, which can have concentrations over an order of magnitude higher in propylitic epidote (Fig. 14c and d). This contrast has important exploration implications, as it effectively allows for the screening of propylitic epidote in regionally metamorphosed terranes, particularly where other indications of hydrothermal mineralization (e.g., presence of sulfides) or alteration textures (e.g., hydrothermal veins and chemical reaction fronts) are absent.

Conclusions

The use of LA-ICP-MS analysis of epidote can effectively detect the subtle geochemical halos of mineralized porphyry and high sulfidation epithermal deposits of the Collahuasi district, extends the geochemical footprint beyond the limits resolvable by conventional whole rock assaying. Propylitic epidote from the alteration halos surrounding the Rosario and Ujina porphyry deposits contains anomalous and spatially-variable concentrations of As, Sb, Pb, La, and Y up to 4 km from the centers of mineralization. The anomalous concentrations of these elements extend 1-2 km beyond zones of sulfide mineralization at both deposits. In addition, epidote that formed as fine-grained disseminations and in veins associated with the La Grande and Rosario-Poderosa high sulfidation epithermal vein systems are enriched in Cu and Zn, in some samples over an order of magnitude greater than epidote alteration associated with the Rosario and Ujina porphyry deposits. The anomalous concentrations of these elements in epidote also effectively discriminate propylitic alteration associated with porphyry Cu-Mo mineralization from similar mineral assemblages associated with regional metamorphism and have the potential to be applied to alteration halos surrounding similar deposit styles in other districts.

Concentrations of several key trace elements, including Sn, As, Sb, Pb, and Y, in epidote from the Collahuasi district are similar to or higher than in propylitic epidote from smaller porphyry deposits (Baker et al., 2017; Pacey et al., 2019; Wilkinson et al., 2019). This supports the premise that the hydrothermal fluids forming larger and more strongly mineralized porphyry systems flux more metals, leading to higher levels of metal enrichment in propylitic epidote. Coupled with conventional exploration tools, including mapping the intensity, variation and extent of propylitic alteration, LA-ICP-MS analysis of epidote mineral chemistry has the capacity to assist explorers in discriminating between the magmatic hydrothermal alteration halos formed by mineralized porphyry systems and high sulfidation epithermal deposits. It also has the ability to differentiate these modes of occurrence from similar mineral assemblages formed through regional metamorphic processes, particularly in the distal alteration halos to mineralized systems where other signs of mineralization (e.g., presence of sulfides) are absent.

Acknowledgments

We wish to thank editor Peter Hollings, and reviewers Farhad Bouzari and Glen Masterman for their valuable comments and corrections that have greatly improved the final version of this manuscript. This research was supported by AMIRA International projects P765 (2004-2006): Transitions and Zoning in Porphyry-Epithermal Districts: Indicators, Discriminators and Vectors (seven industry sponsors); and P765A (2008-2010): Geochemical and Geological Halos in Green Rocks and Lithocaps: The explorer's toolbox for porphyry and epithermal districts (18 industry sponsors). We thank all our industry sponsors, collaborators and research team members of those projects, in particular Alan Goode, J. Bruce Gemmell, Cari Deyell, Noel White, and Jeff Hedenquist. We also thank Alan Wilson, Alejandro Sanhueza, Rodrigo Castagno, Rodrigo Gallo, Cristian Sprohnle, and support staff of Anglo American plc for providing additional logistical support through their partly owned subsidiary and operator of the Rosario and Ujina mines, Compañía Minera Doña Inés de Collahuasi (CMDIC). Finally, we thank Karsten Goemann and colleagues at the Central Science Laboratory, University of Tasmania, and Sarah Gilbert for their assistance with mineral chemistry analyses.

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Figure Captions

Figure 1. Location map of northern Chile, southern Peru and northwestern Argentina highlighting the location of the Collahuasi district and other major copper and gold deposits. Metallogenic belts for major copper provinces of northern Chile-southern Peru are also shown. Modified after Muntean and Einaudi (2000) and Masterman et al. (2005).

Figure 2. Simplified geology map of the Collahuasi district, northern Chile. Approximate outlines of copper mineralization at the Quebrada Blanca, Rosario, and Ujina porphyry deposits is shown by dashed lines, as well as vein-hosted Cu-Ag-(Au) mineralization at La Grande and Rosario-Poderosa (thin black lines). Modified after Dick et al. (1994) and Masterman et al. (2004).

Figure 3. Whole rock geochemistry and epidote LA-ICP-MS sample distribution and observed hydrothermal alteration zones at the Rosario and Ujina porphyry deposits. Samples associated with areas of epithermal mineralization or alteration are shown with red symbols. Fault locations after Ireland (2010). Alteration zones and andesite dike locations modified after Ireland (2010).

Figure 4. Representative examples of hydrothermally-altered rocks from the Rosario, La Grande and Ujina deposits. (A) CL005 – pink quartz-(feldspar)-phyric rhyolite containing network of thin epidote-(chlorite)-bearing veins, Rosario deposit. (B) CL023 – dacite cut by thin to mm-wide epidote-albite-(chlorite) veins (right side of photo) and spotty, disseminated epidote-albite alteration, La Grande deposit. (C) CL039 – grey quartz-plagioclase-phyric rhyolite containing thin epidote-calcite-(chlorite) veins, Ujina deposit. (D) CL140 – fine-grained diabase dike containing pervasive disseminated chlorite alteration with rare epidote crystals, Cascasa dike swarm approximately 3 km south of Ujina. Mineral abbreviations: alb – albite; chl – chlorite; epi – epidote; qtz – quartz.

Figure 5. Assay results for proximal pathfinder elements for 170 rock chip samples from the Collahuasi district. A. Cu (ppm). B. Au (ppb). C. Mo (ppm). D. Sn (ppm). Samples associated with areas of epithermal mineralization or alteration are shown using unfilled circles. Also shown are the locations of major porphyry and epithermal vein deposits, potassic alteration zones (pink stipple), zones of anomalous metal concentration (red dashed lines) and pyrite halos (black dashed lines). Data are subdivided into equal tails, six groups (3%, 20%, 50%, 80%, 97%, 100%). Whole-rock assay results for selected samples listed in Table 1. Abbreviations: BDL = below detection limit.

Figure 6. Assay results for distal pathfinder elements for 170 rock chip samples from the Collahuasi district. A. As (ppm). B. Sb (ppm). C. Pb (ppm). D. Zn (ppm). Symbols as described in Figure 5. Whole-rock assay results for selected samples listed in Table 1. See Figure 5 for abbreviations.

Figure 7. Assay results for 170 rock chip samples from the Collahuasi district. A. Mn (ppm). B. La (ppm). C. Y (ppm). D. Zr (ppm). Symbols as described in Figure 5. Whole-rock assay results for selected samples listed in Table 1. See Figure 5 for abbreviations.

Figure 8. Median concentrations of proximal pathfinder elements obtained from 629 epidote LA-ICP-MS spot analyses of 107 samples from the Collahuasi district. A. Cu (ppm). B. Au (ppm). C. Mo (ppm). D. Sn (ppm). Samples associated with areas of epithermal mineralization or alteration are shown using unfilled circles. Also shown are the locations of major porphyry and epithermal vein deposits, potassic alteration zones (pink stipple), zones of anomalous metal concentration (red dashed lines) and pyrite halos (black dashed lines).

Data subdivided into equal tails, six groups (3%, 20%, 50%, 80%, 97%, 100%). Epidote data are summarized in Table 2. Corresponding rock chip assays are listed in Table 1.

Abbreviations: BDL = below detection limit.

Figure 9. Median concentrations of distal pathfinder elements obtained from 629 epidote LA-ICP-MS spot analyses of 107 samples from the Collahuasi district. A. As (ppm). B. Sb (ppm). C. Pb (ppm). D. Zn (ppm). Symbols described in Figure 8. Epidote data are summarized in Table 2. Corresponding rock chip assays are listed in Table 1. See Figure 8 for abbreviations.

Figure 10. Median concentrations of selected elements obtained from 629 epidote LA-ICP-MS spot analyses of 107 samples from the Central Baguio district. A. Mn (ppm). B. La (ppm). C. Y (ppm). D. Zr (ppm). Symbols described in Figure 8. Epidote data are summarized in Table 2. Corresponding rock chip assays are listed in Table 1. See Figure 8 for abbreviations.

Figure 11. Comparison of epidote LA-ICP-MS and whole-rock geochemical data from the Collahuasi district, showing median, mean, 25th and 75th percentile ranges. A. Elements that are concentrated in propylitic-altered rocks relative to epidote. B. Elements that are preferentially partitioned into epidote in propylitic-altered samples.

Figure 12. Comparison of whole rock chemistry and epidote chemistry of samples from the Rosario porphyry, and La Grande and Rosario-Poderosa high sulfidation epithermal deposits plotted against calculated radial sample distance from the center of the Rosario porphyry deposit. Red filled circles and red open circles represent individual replacement and vein epidote analyses, respectively. Black open squares represent corresponding whole rock analysis from the same sample. Epidote data are summarized in Table 2. Corresponding rock chip assays are listed in Table 1.

Figure 13. Comparison of whole rock chemistry and epidote chemistry plotted against calculated radial sample distance from the center of the Ujina porphyry deposit. Symbols described in Figure 12. Epidote data are summarized in Table 2. Corresponding rock chip assays are listed in Table 1.

Figure 14. Tukey box diagrams for Rosario and La Grande (A) and Ujina (B) epidote analyses (in grey) compared to epidote analyses from greenschist to amphibolite facies regional metamorphic terranes (in black). Vertical axis is locked at 250 ppm to emphasize anomalism in low-level trace elements. Regional metamorphic epidote dataset includes 65 analyses from the northern Australian Georgetown Inlier and Harts Range Paleoproterozoic terranes (Baker et al., 2017), and 239 analyses from the west Scotland Paleozoic Moine and Dalradian terranes (Wilkinson et al., 2017). Element concentrations below limits of detection are not shown. The Tukey box plot divides the ordered values of the data into four equal parts by finding the median and then the 25th and 75th percentiles (the ‘box’). The median is defined by the horizontal line within the box that spans the interquartile range (IQR) and contains approximately 50 % of the data. The mean is represented by the black circle. The ‘fence’ is defined as the central box (IQR) extended by 1.5 times the length of the box towards the maximum and the minimum. The upper and lower ‘whiskers’ are then drawn from each end of the box to the fence position. Samples outside of the fence are assumed to be outliers (grey or black circles) and those that are three times the central box length from the upper or lower quartile boundaries are highly anomalous and are called far outliers (grey or black triangles). C and D: epidote As versus Sb diagrams for epidote from Rosario and La Grande (C) and Ujina (D) plotted against metamorphic epidote from the Georgetown Inlier, Harts Range, Moine and Dalradian terranes. Note that a large proportion of metamorphic analyses were below the limit of detection for As and Sb (typically ~1 ppm for As and 0.1 ppm for Sb) and are not shown on these diagrams (Wilkinson et al., this issue).

Tables

Table 1. Selected whole-rock trace element geochemical analyses from Collahuasi district samples. Distance to nearest porphyry copper deposit (PCD) was calculated as the radial distance from the center of the nearest porphyry deposit, being either Rosario or Ujina. Whole rock major and trace element data for all samples are listed in Appendix A.

Table 2. Selected epidote trace element chemistry from the Rosario and Ujina porphyry Cu-Mo deposits, and the La Grande and Rosario-Poderosa Cu-(Ag-Au) high sulfidation epithermal veins. Full list of epidote LA-ICP-MS analyses for all samples is provided in Appendix C.

876

877

Appendix

878

879 Appendix A – Whole rock geochemical data

880 Appendix B – Electron microprobe data

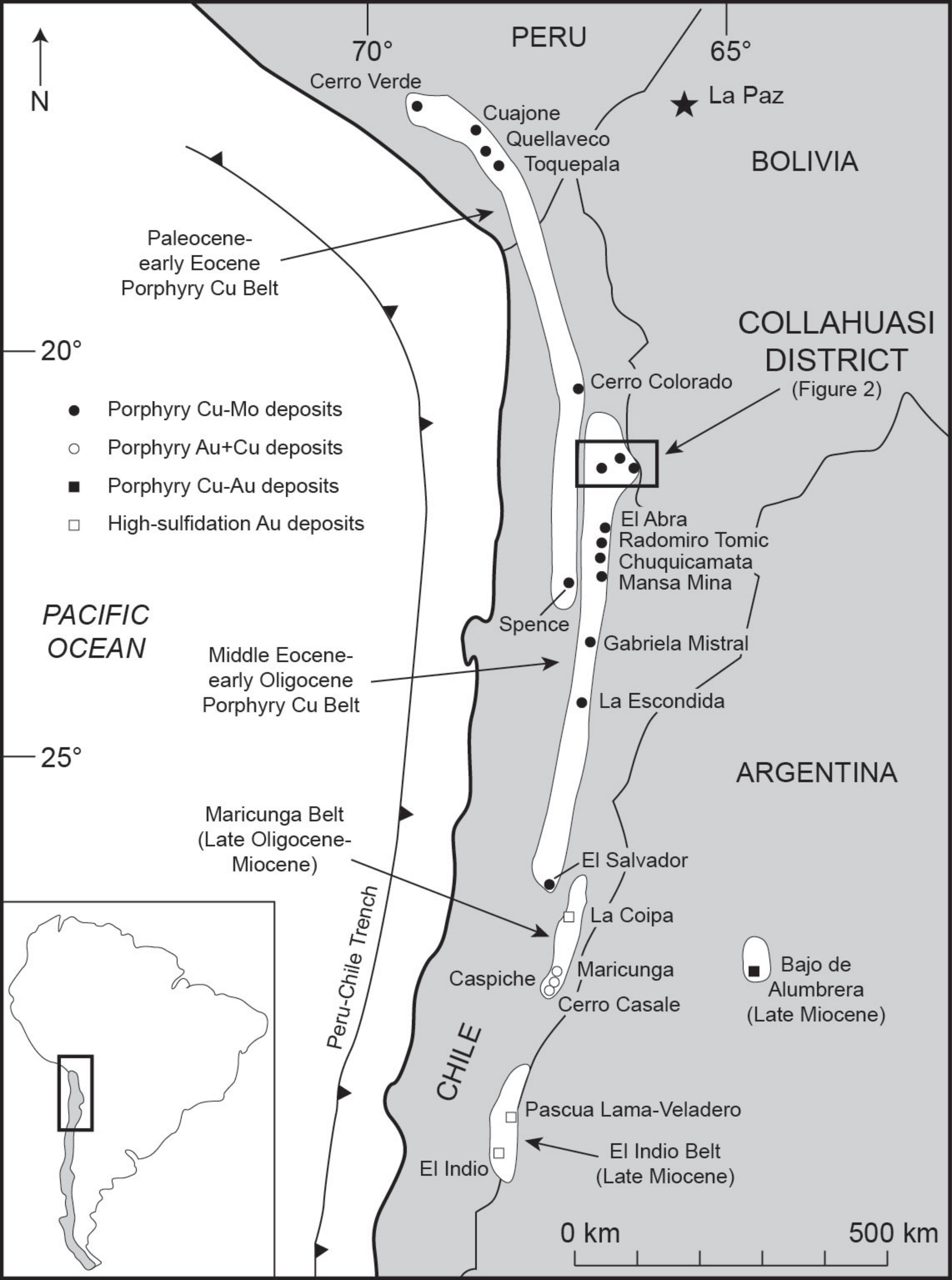
881 Appendix C – Epidote ICP-MS mineral chemistry data

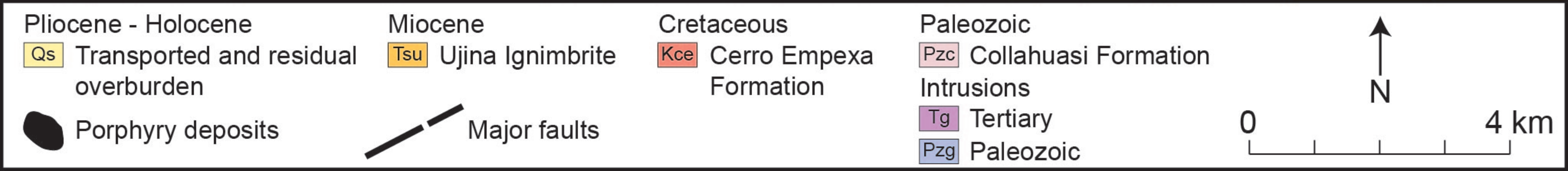
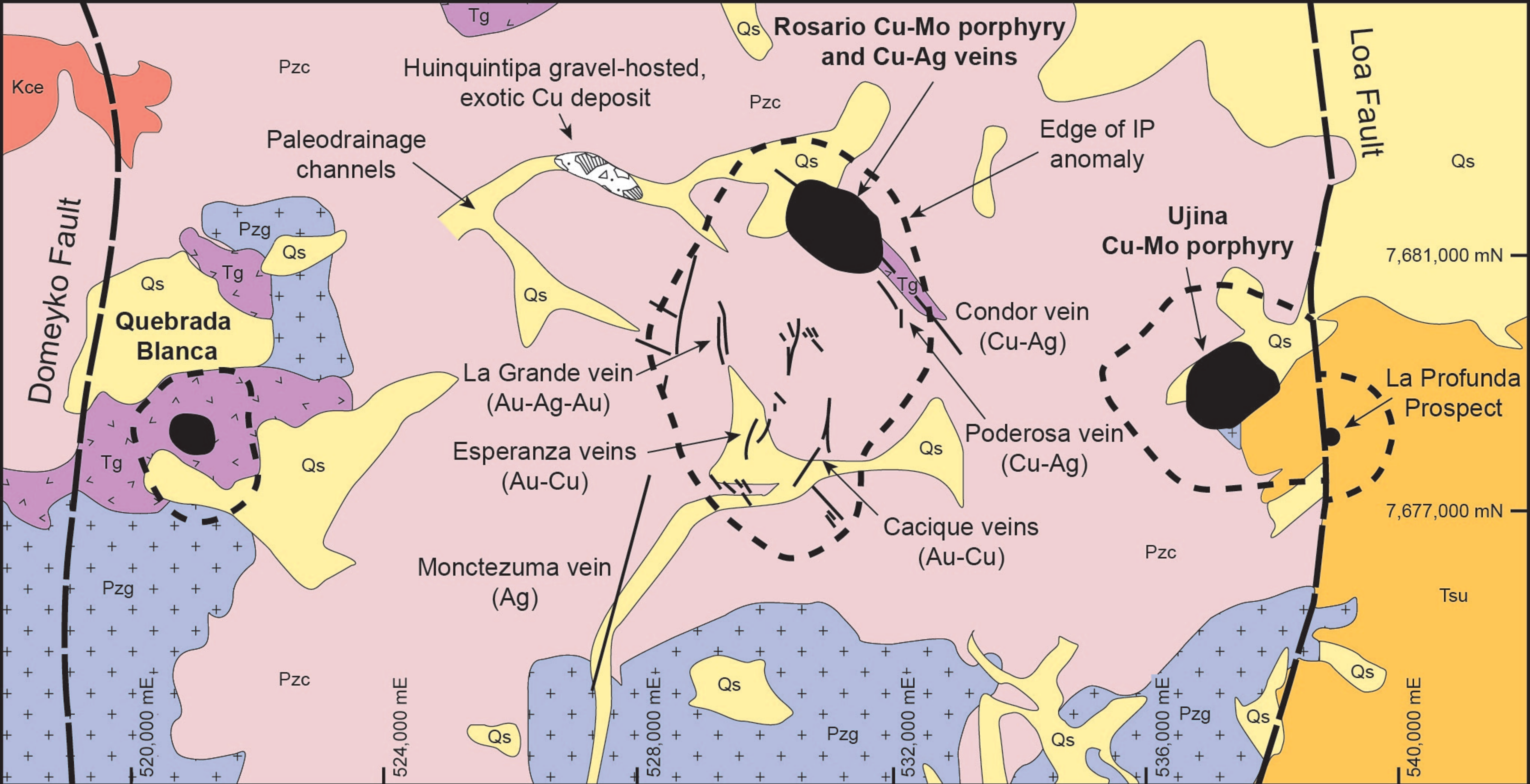
882 Appendix D – Figure of typical epidote analysis LA-ICP-MS time-resolved spectrum

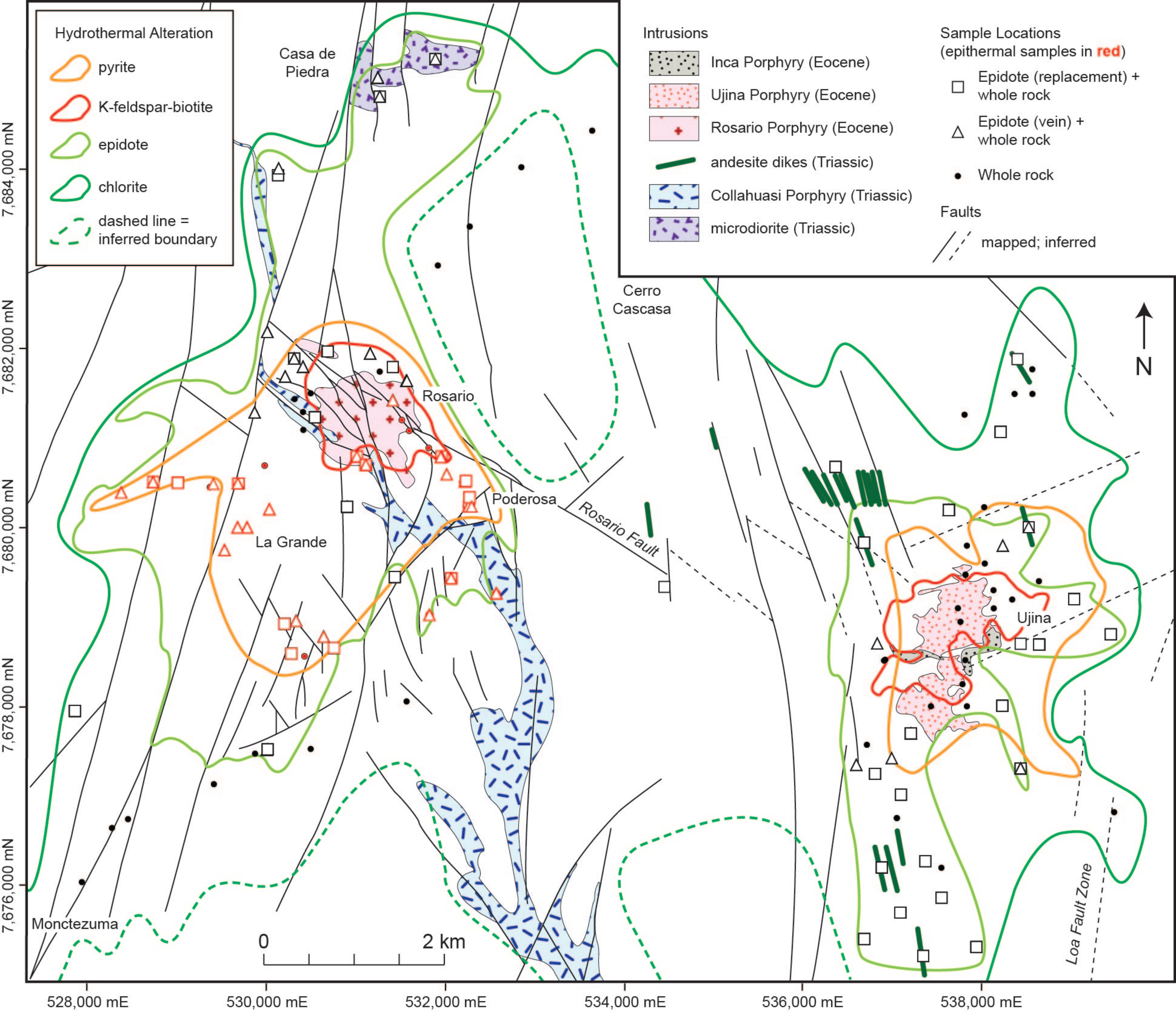
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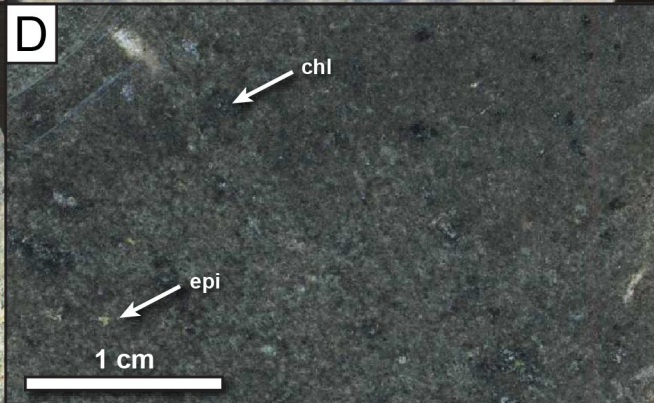
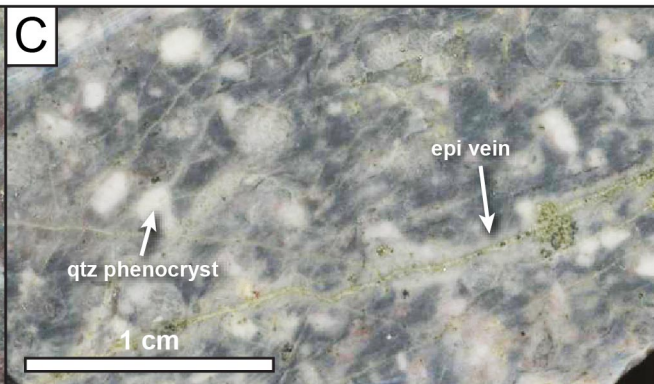
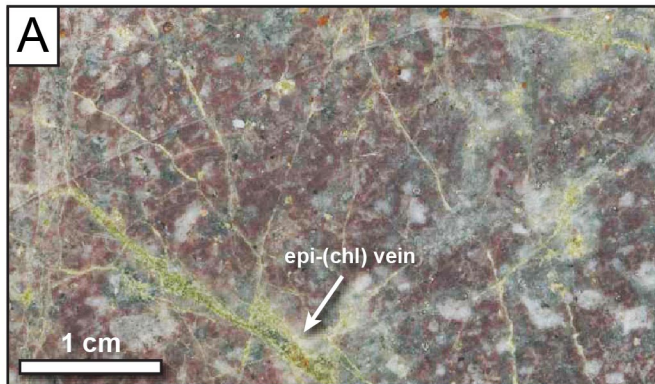
884 Appendix D. Representative LA-ICP-MS time-resolved spectrum of an analysis of epidote
885 from the Collahuasi district. The inclusion-free spectrum shows analysis of the carrier gas
886 (~30 s) followed by laser ablation analysis of epidote (~60 s). Sample CL09MB140: mafic
887 dike cut by thin epidote veins, ~3 km south of Ujina porphyry deposit.

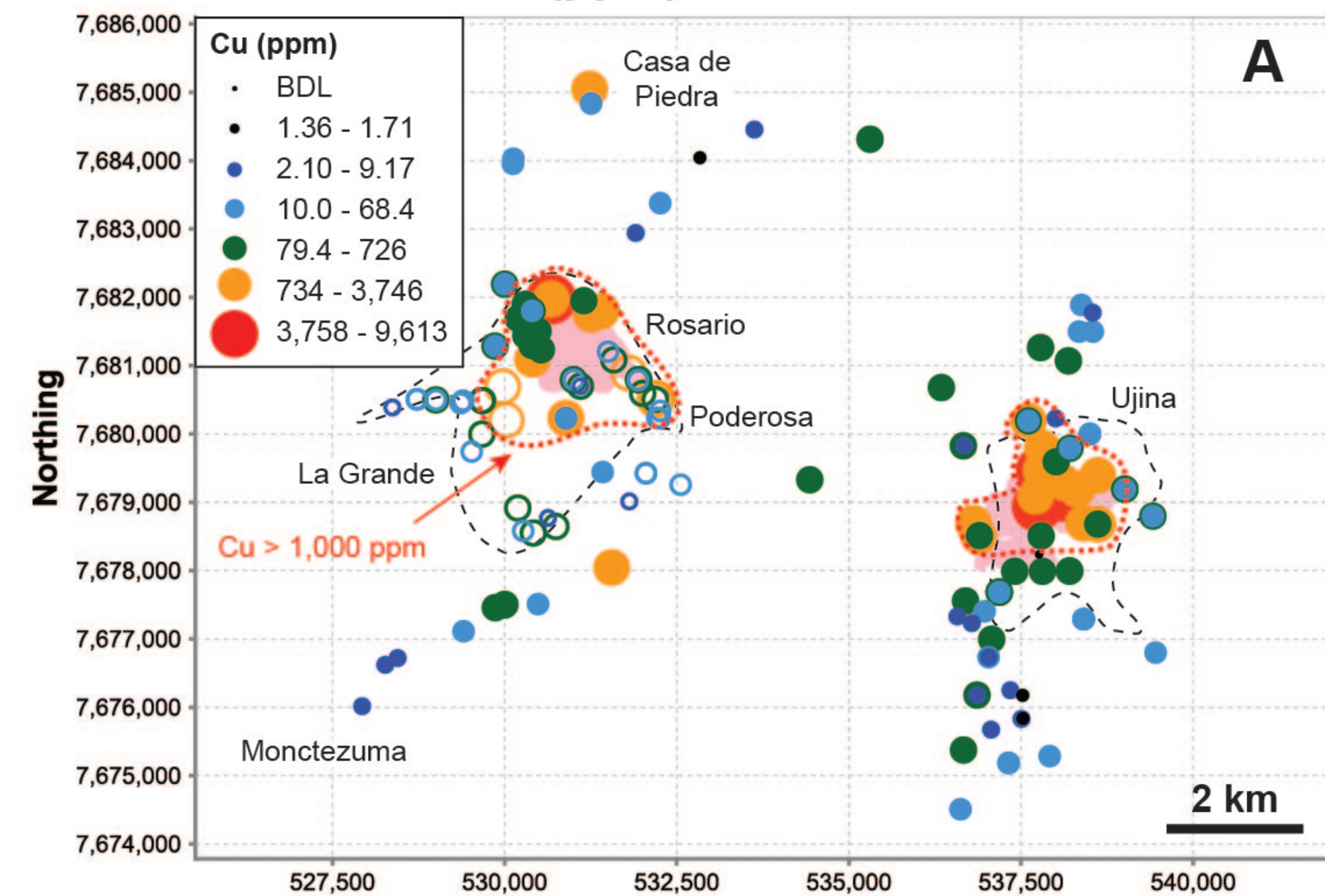
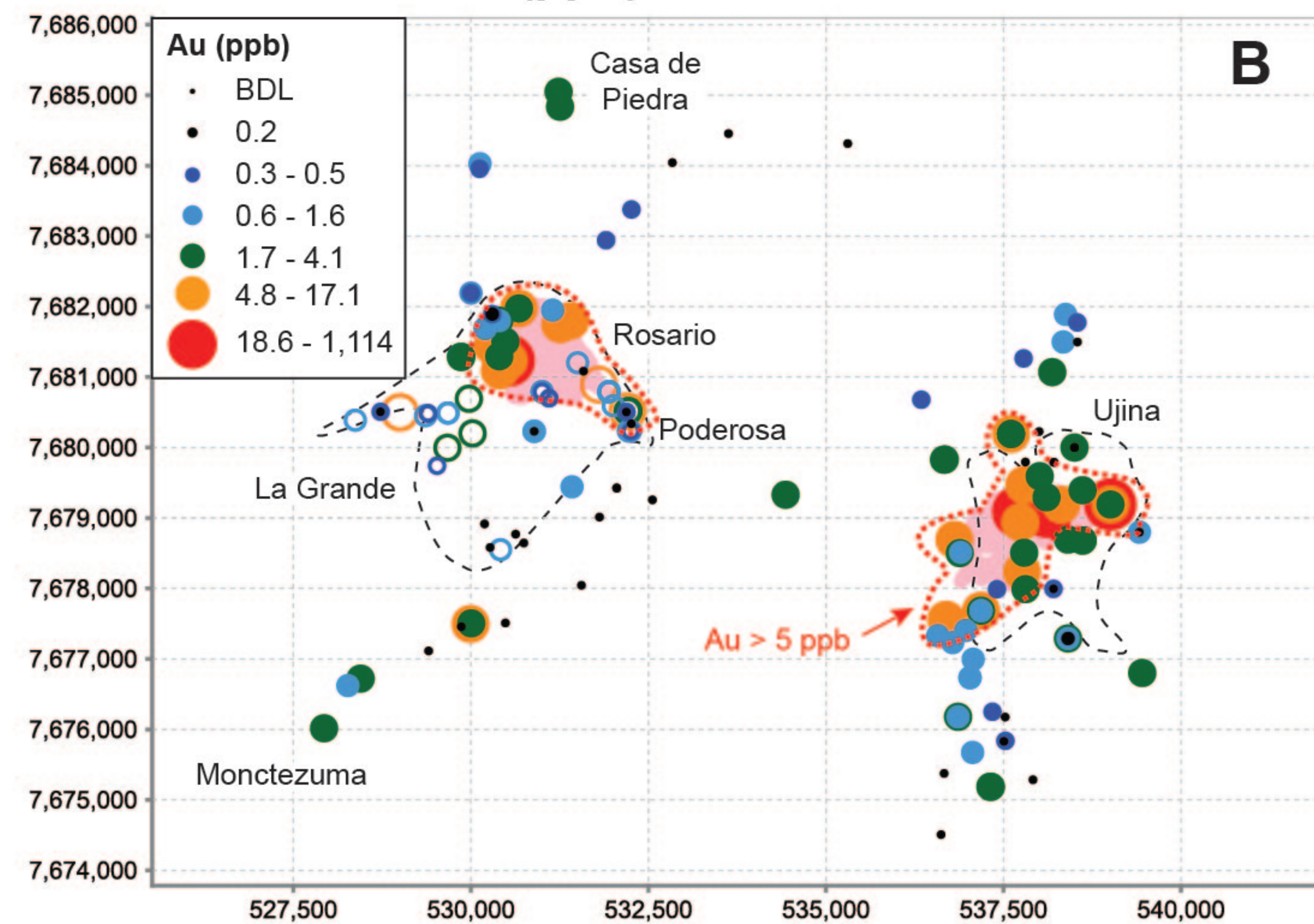
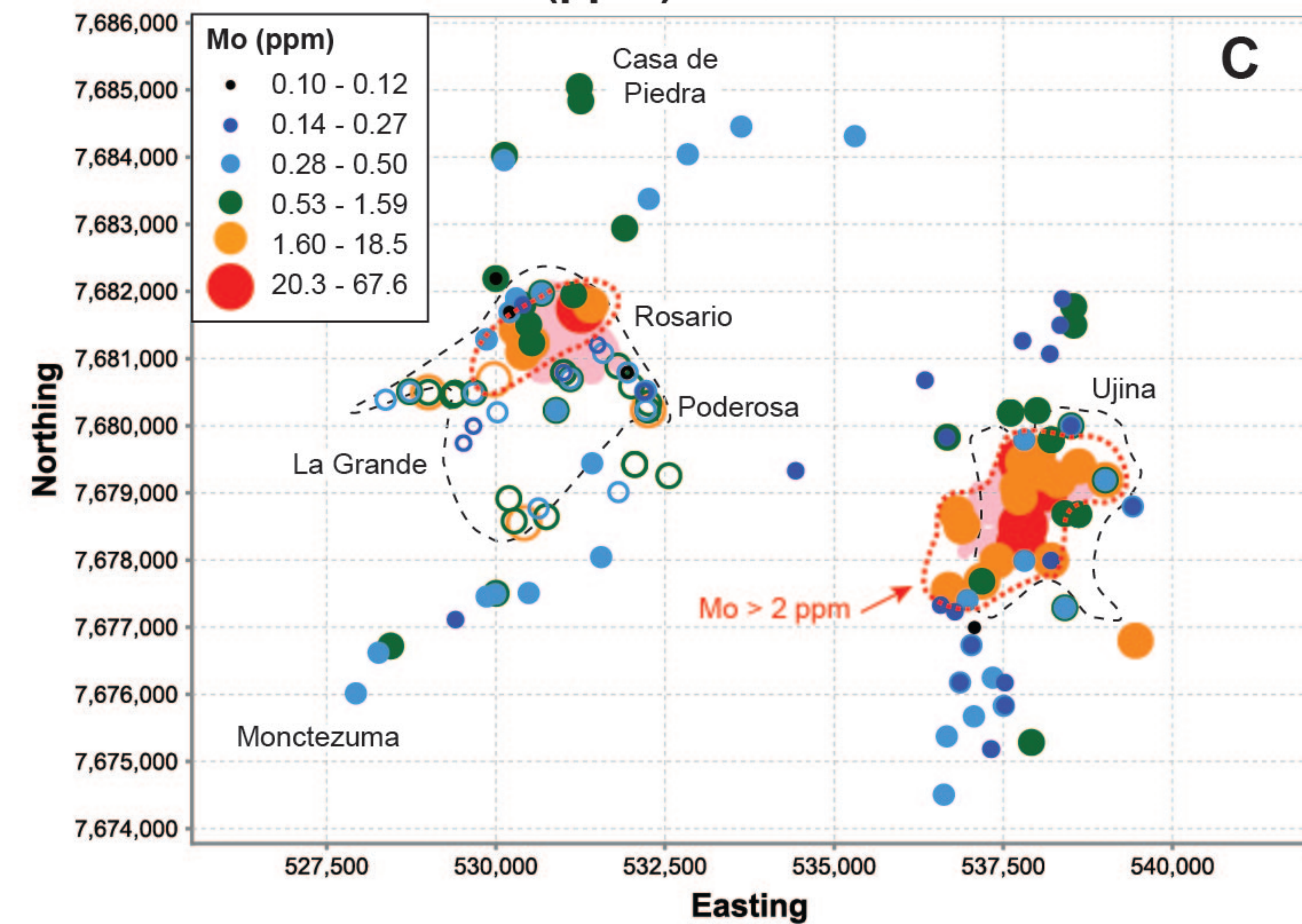
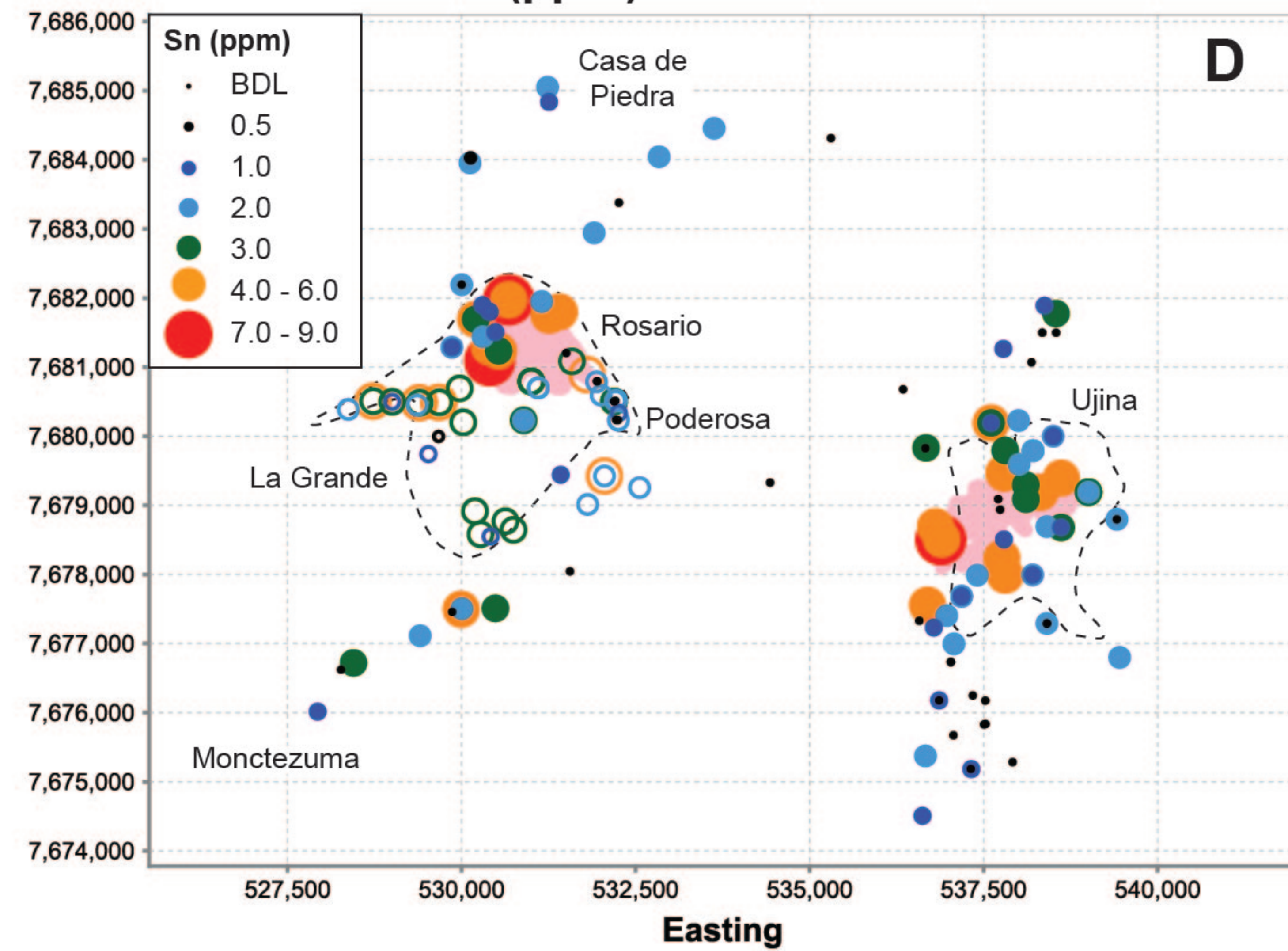
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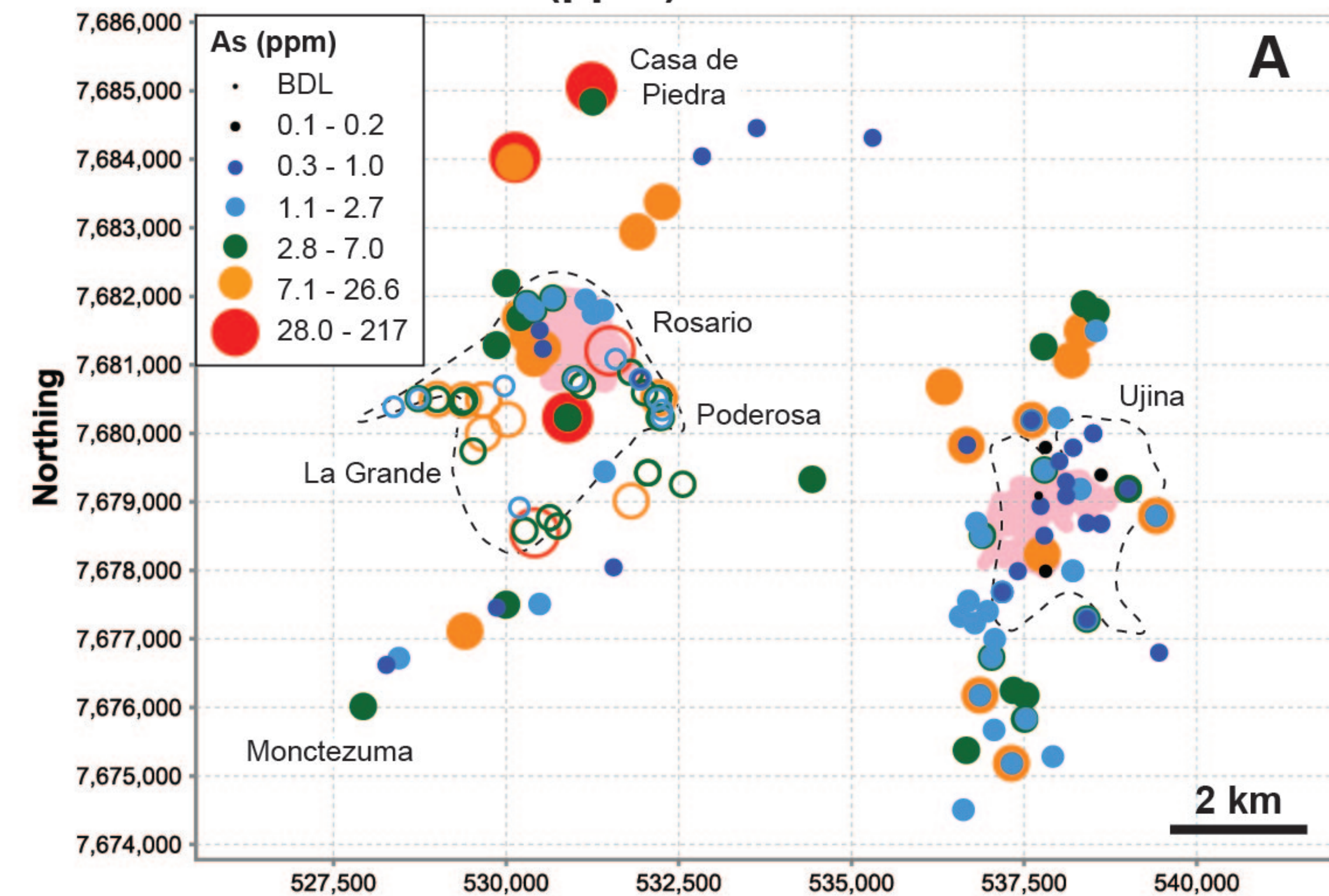




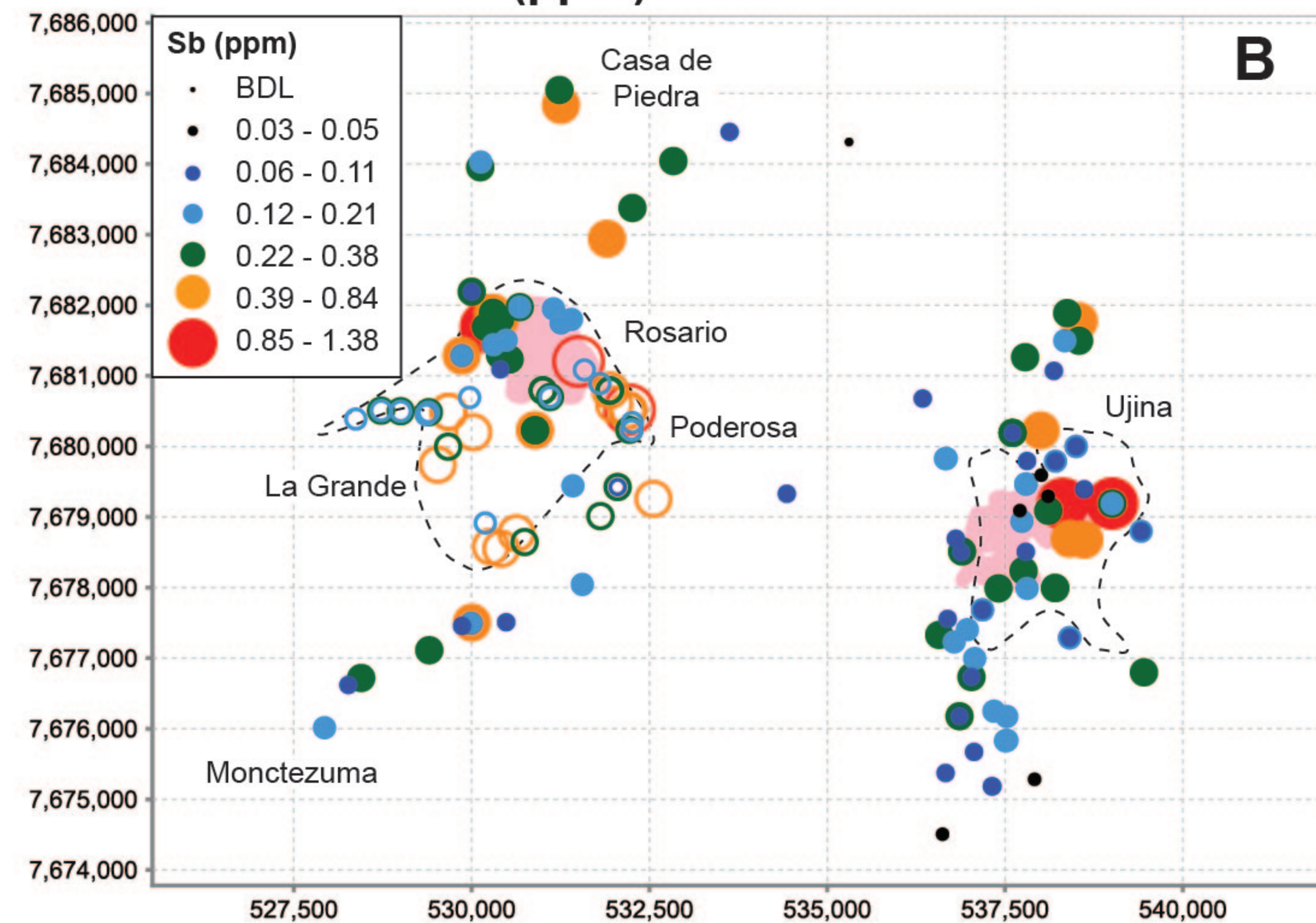


Cu (ppm) - whole rock**Au (ppb) - whole rock****Mo (ppm) - whole rock****Sn (ppm) - whole rock**

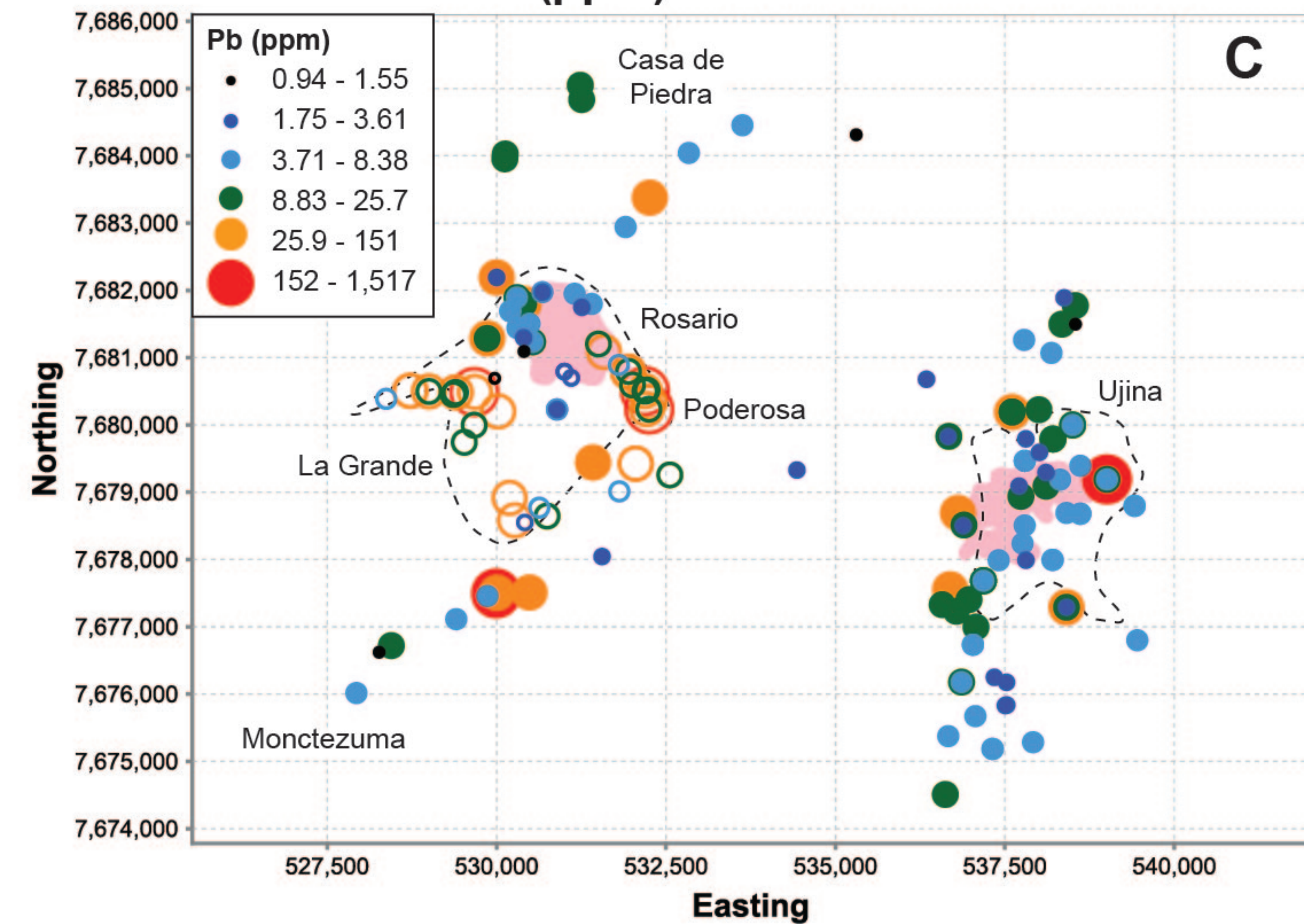
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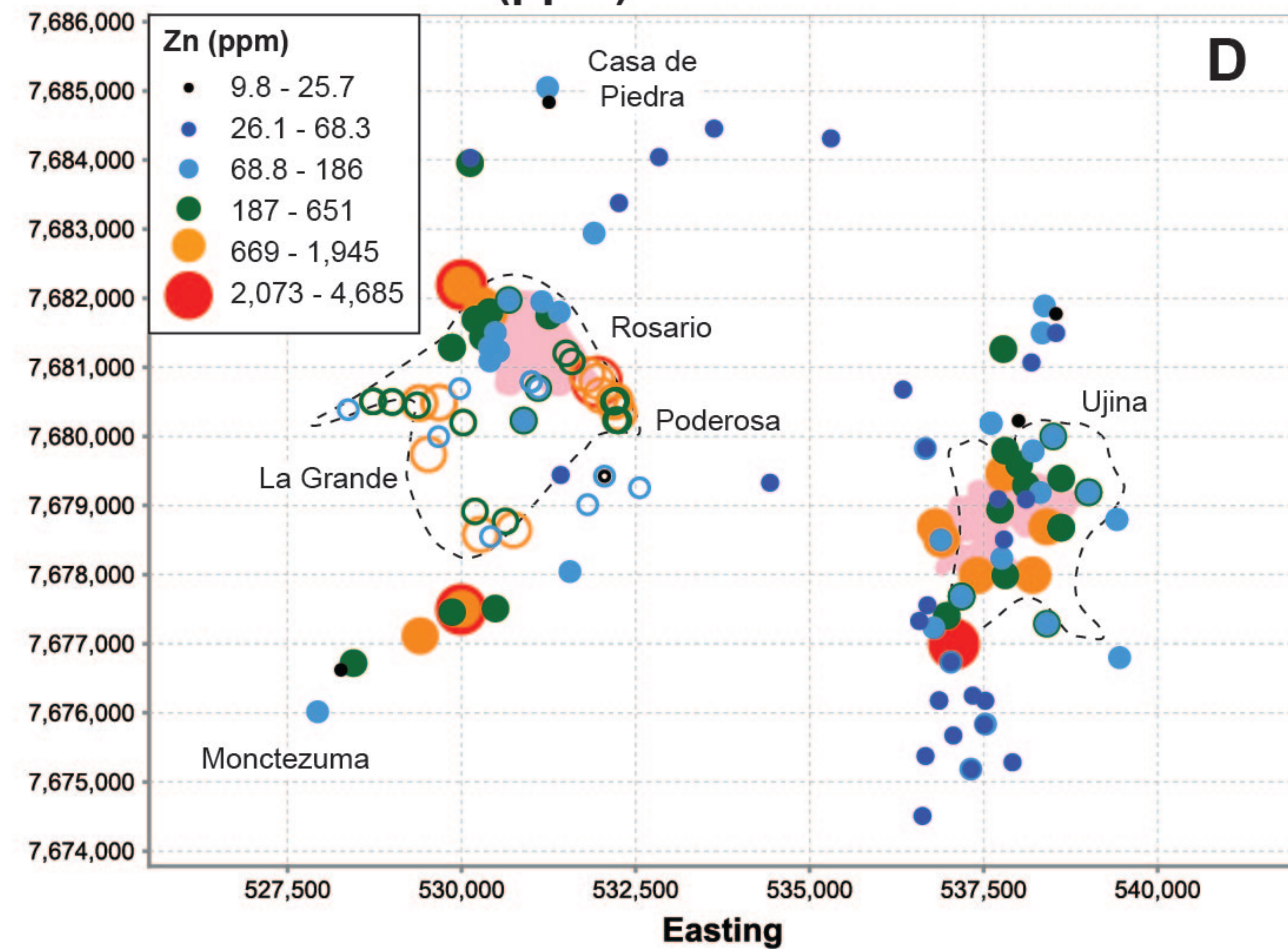
Sb (ppm) - whole rock

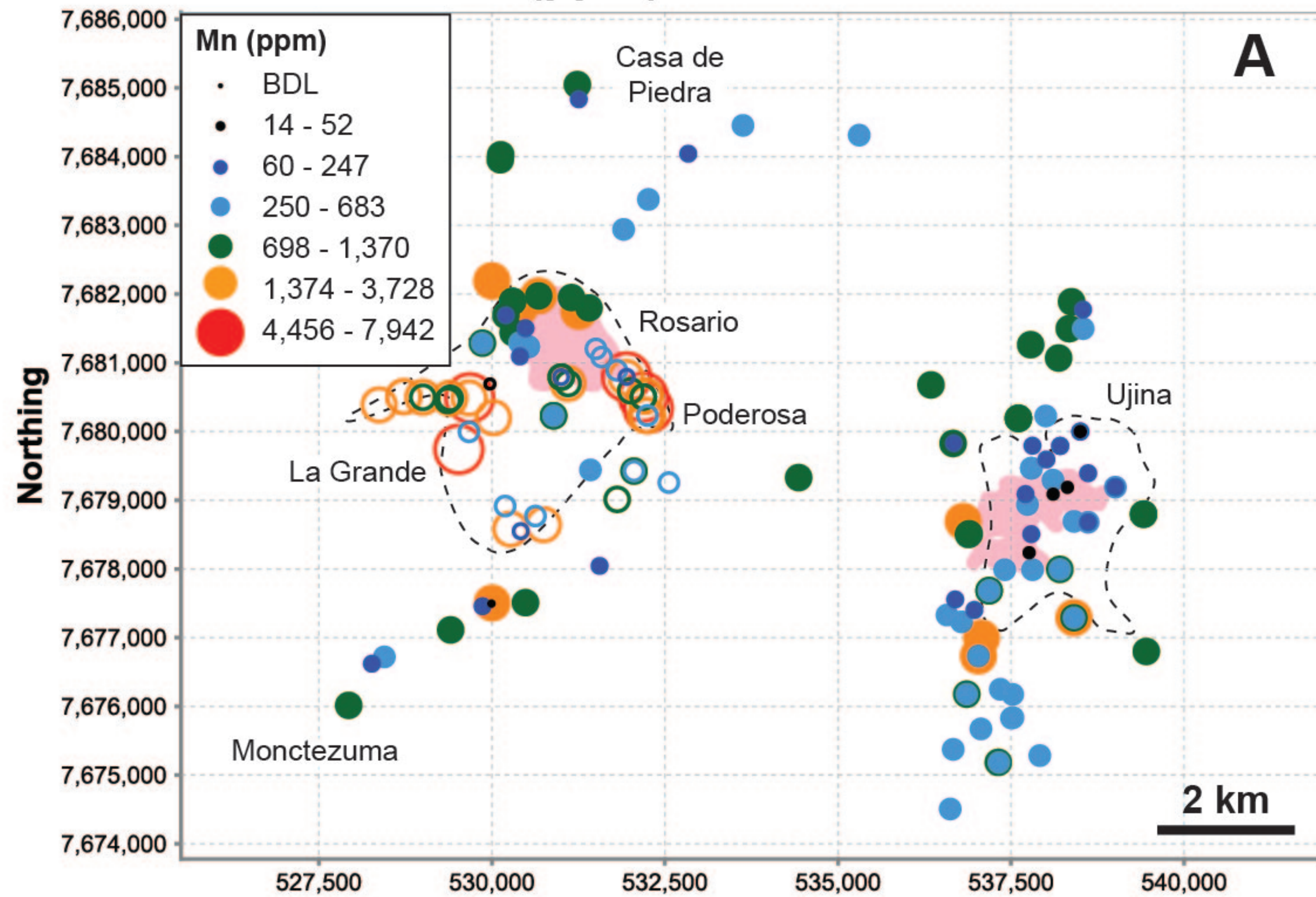
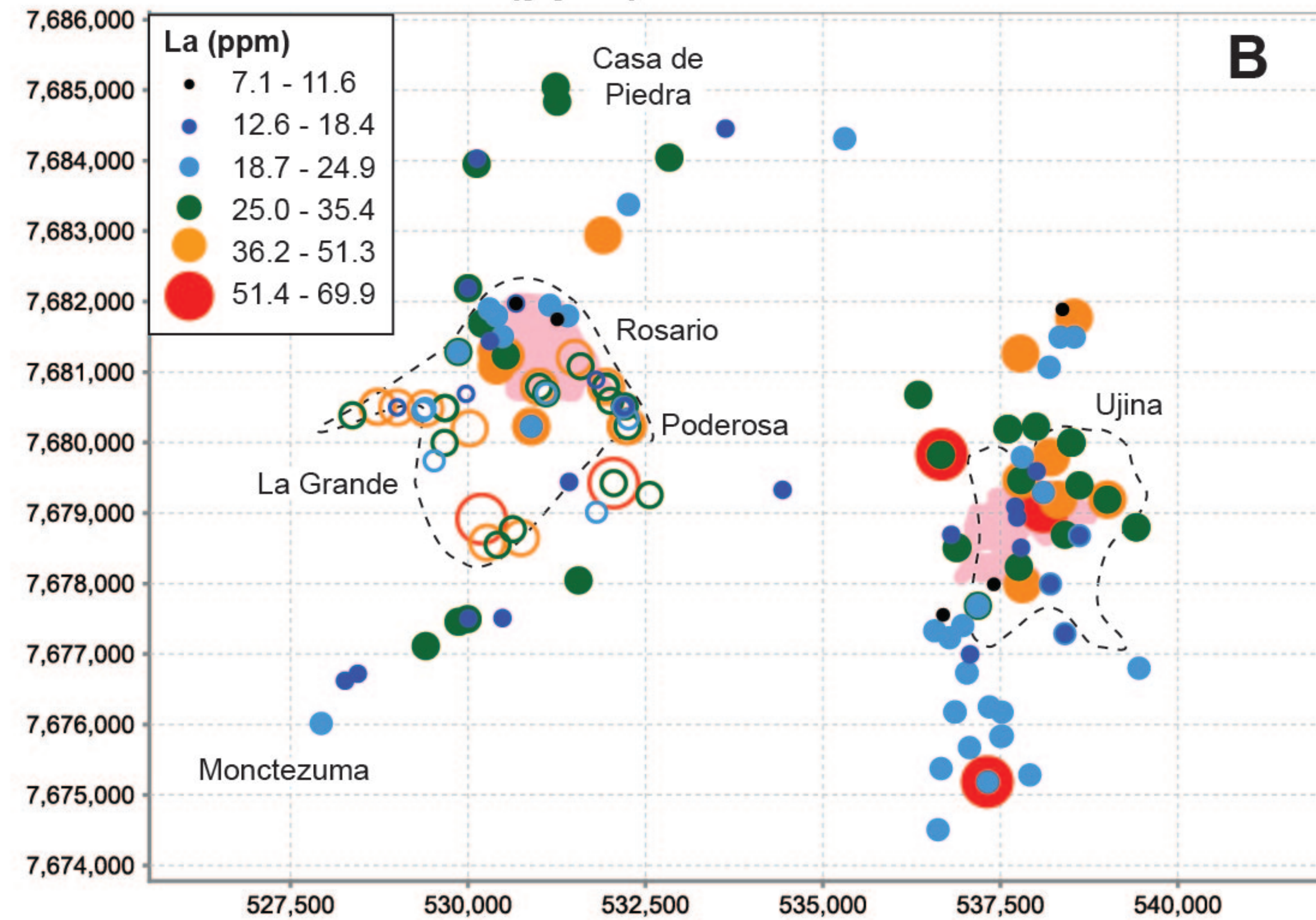
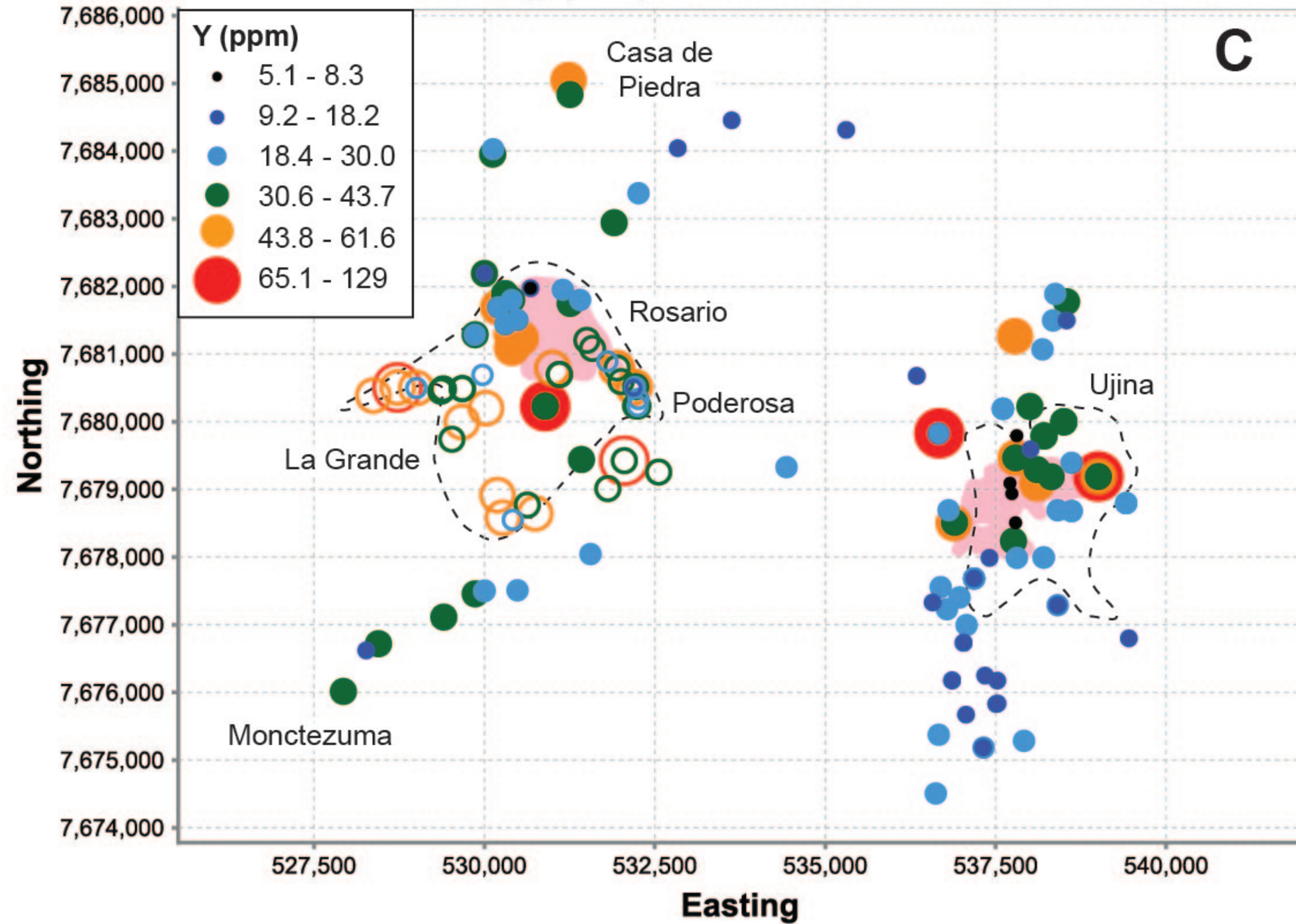
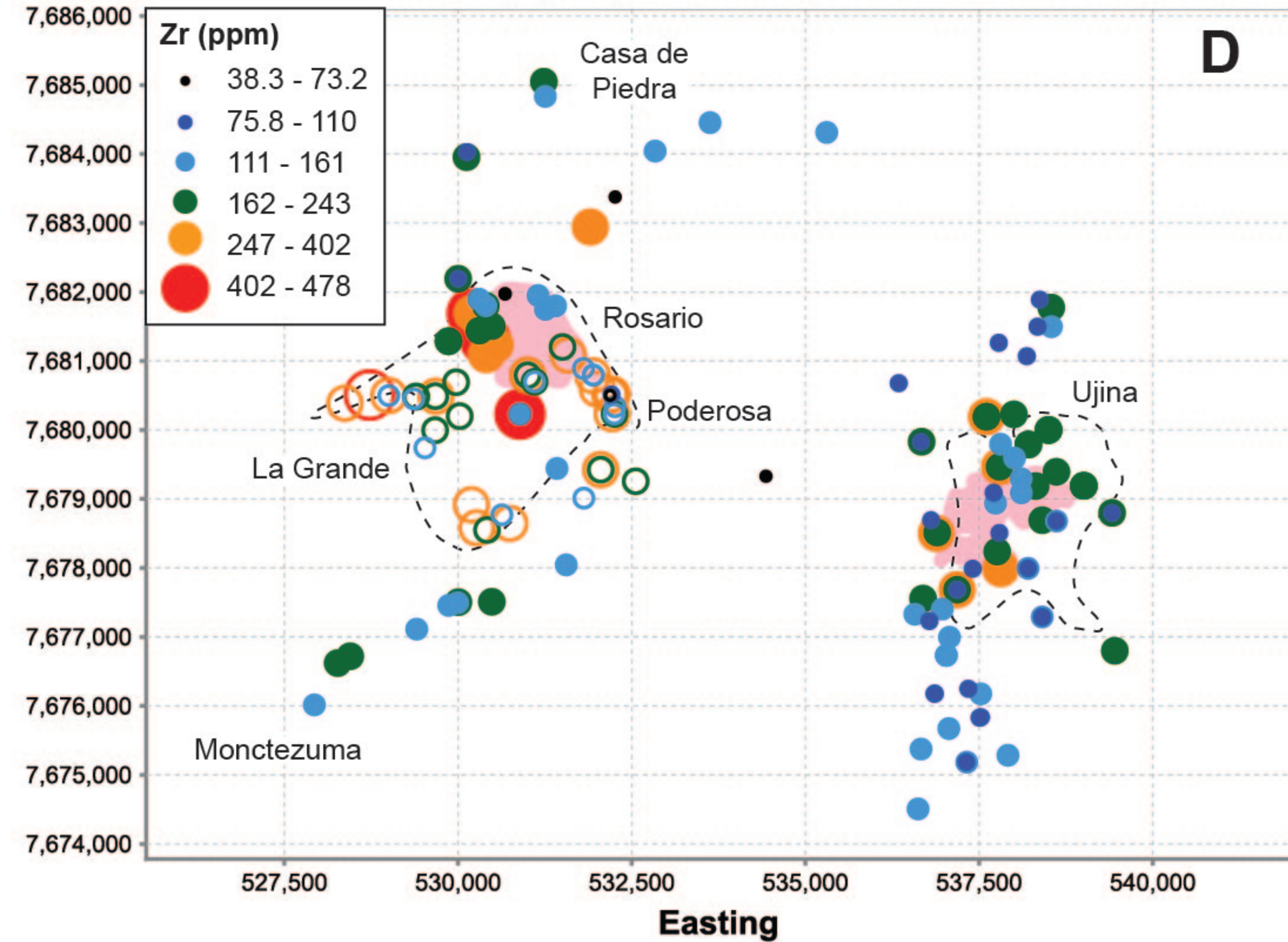


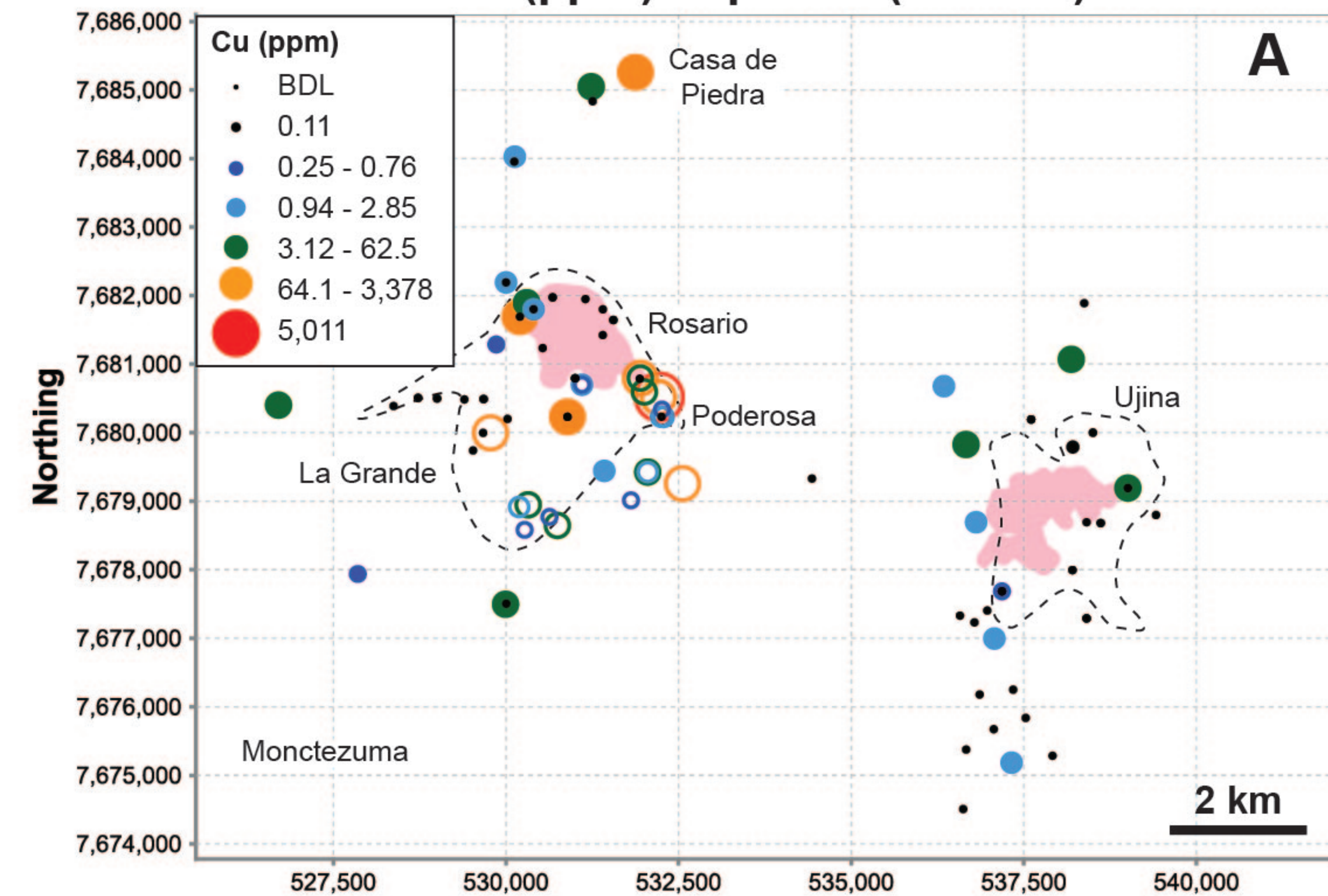
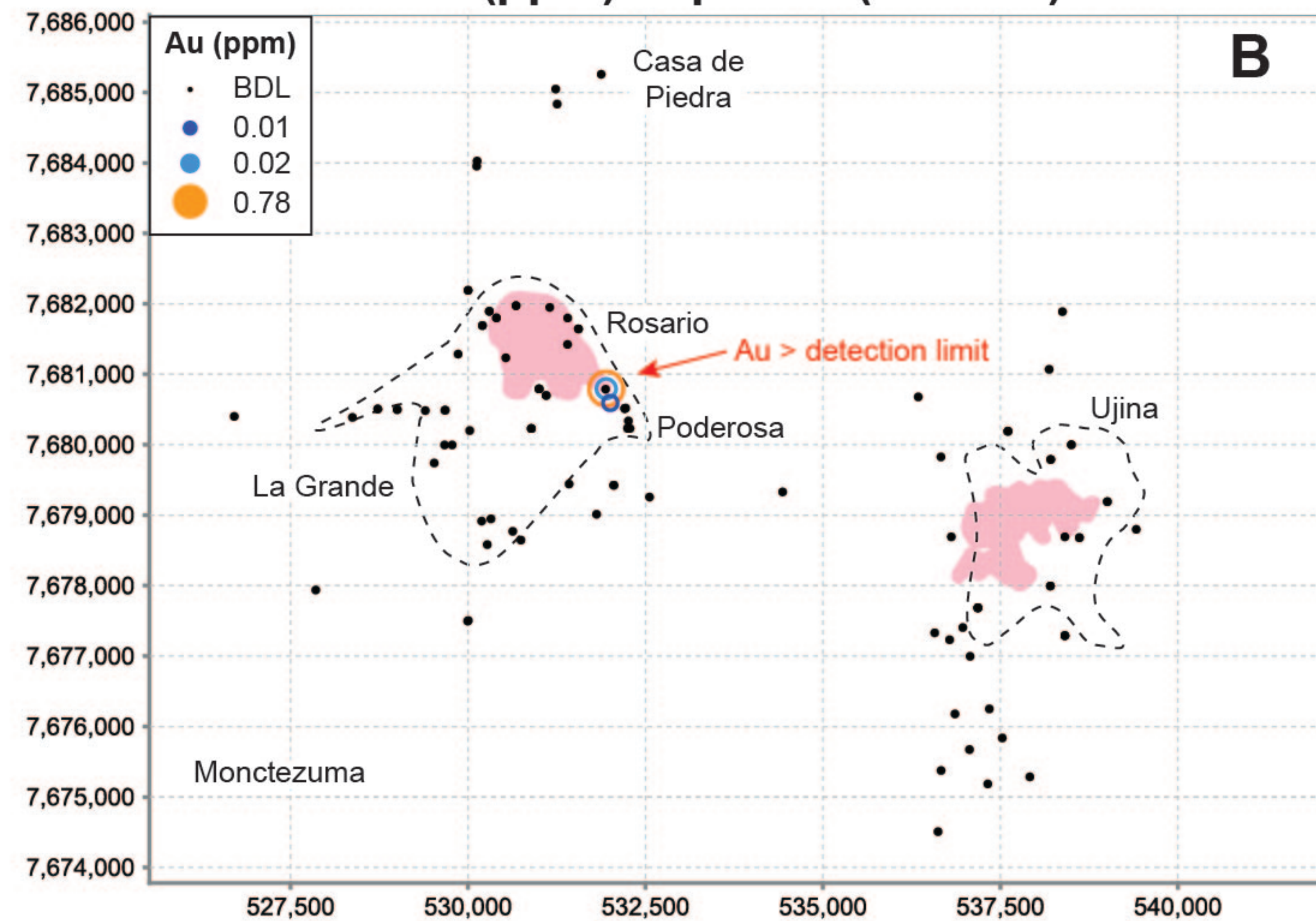
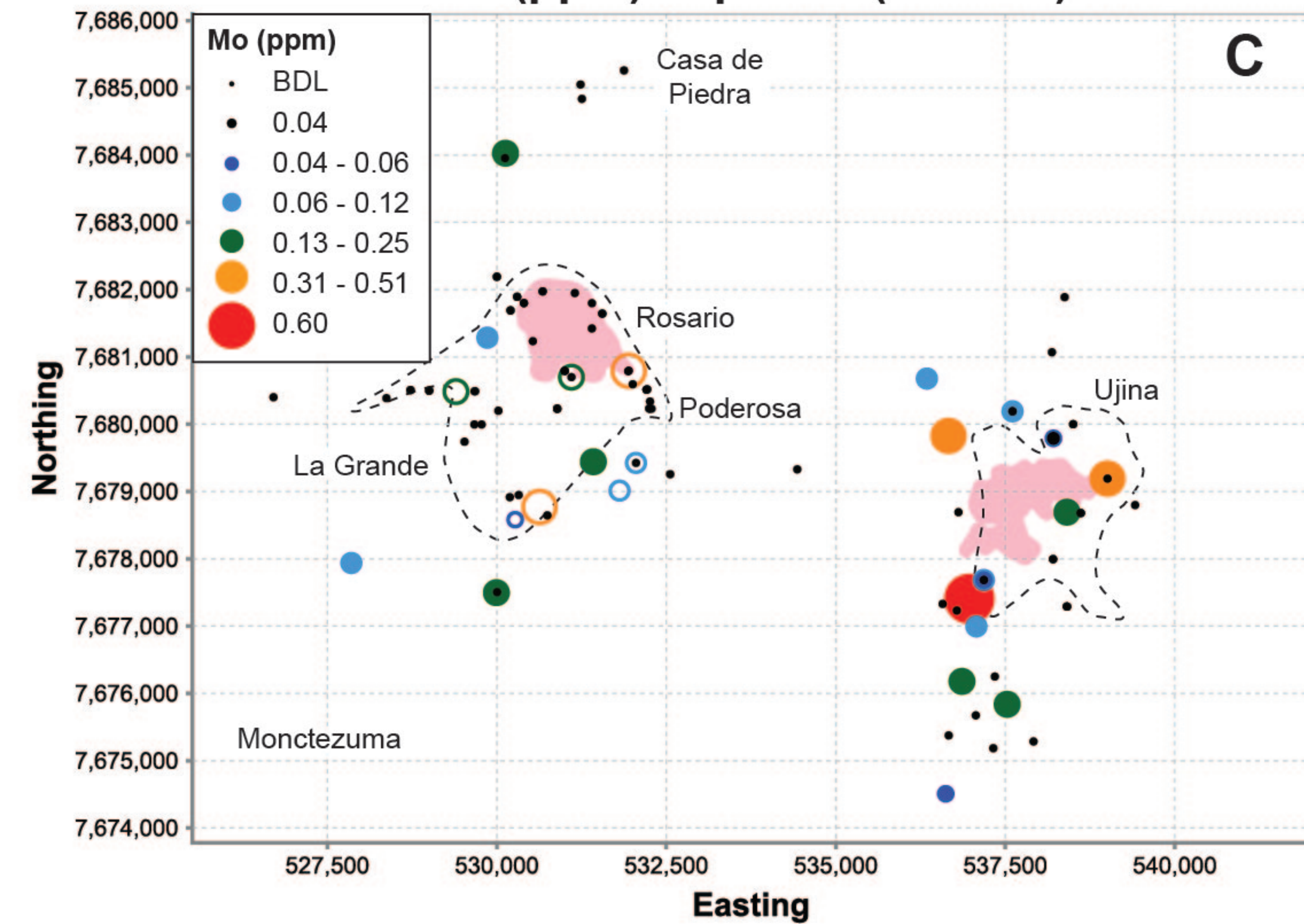
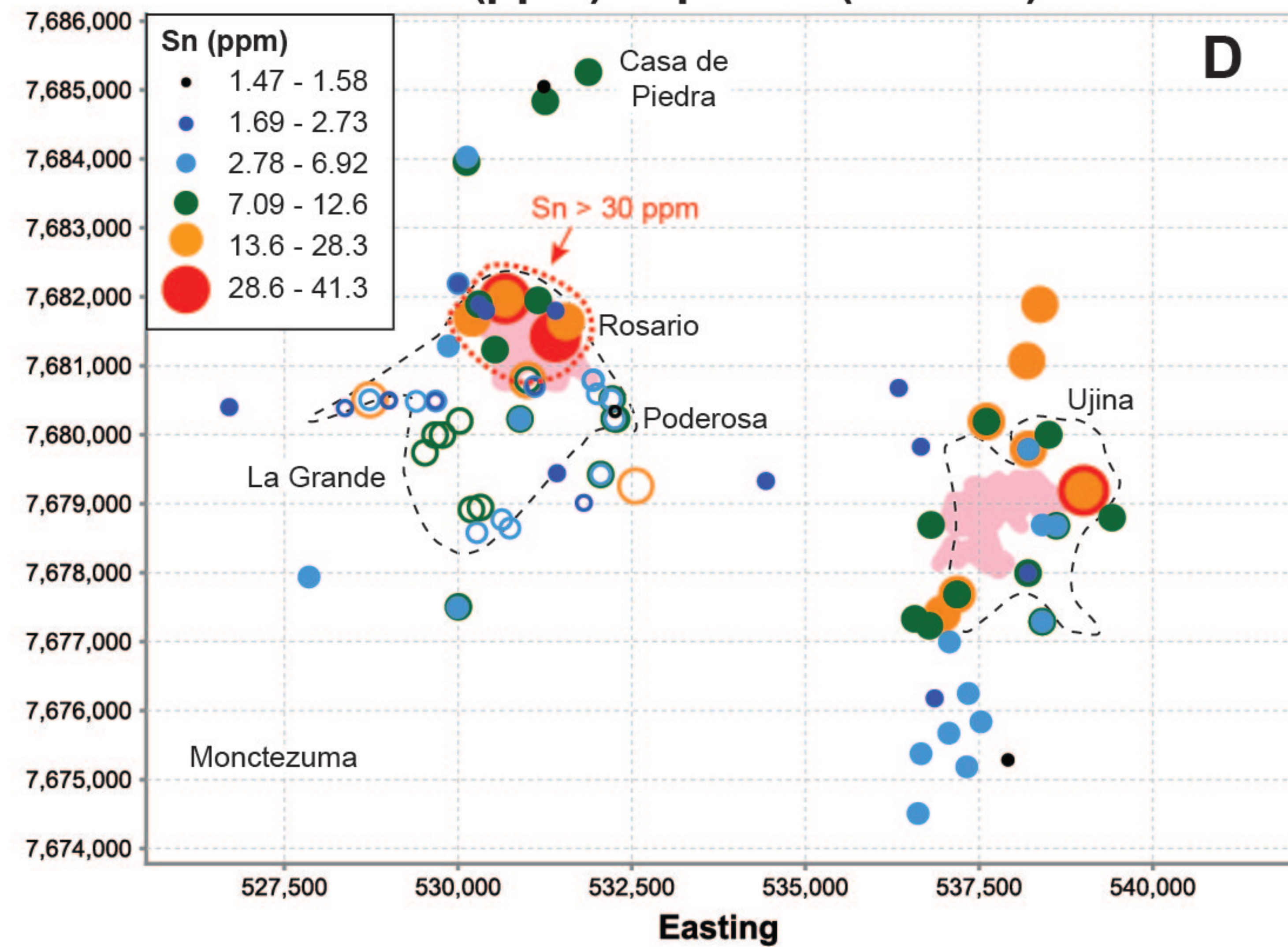
Pb (ppm) - whole rock



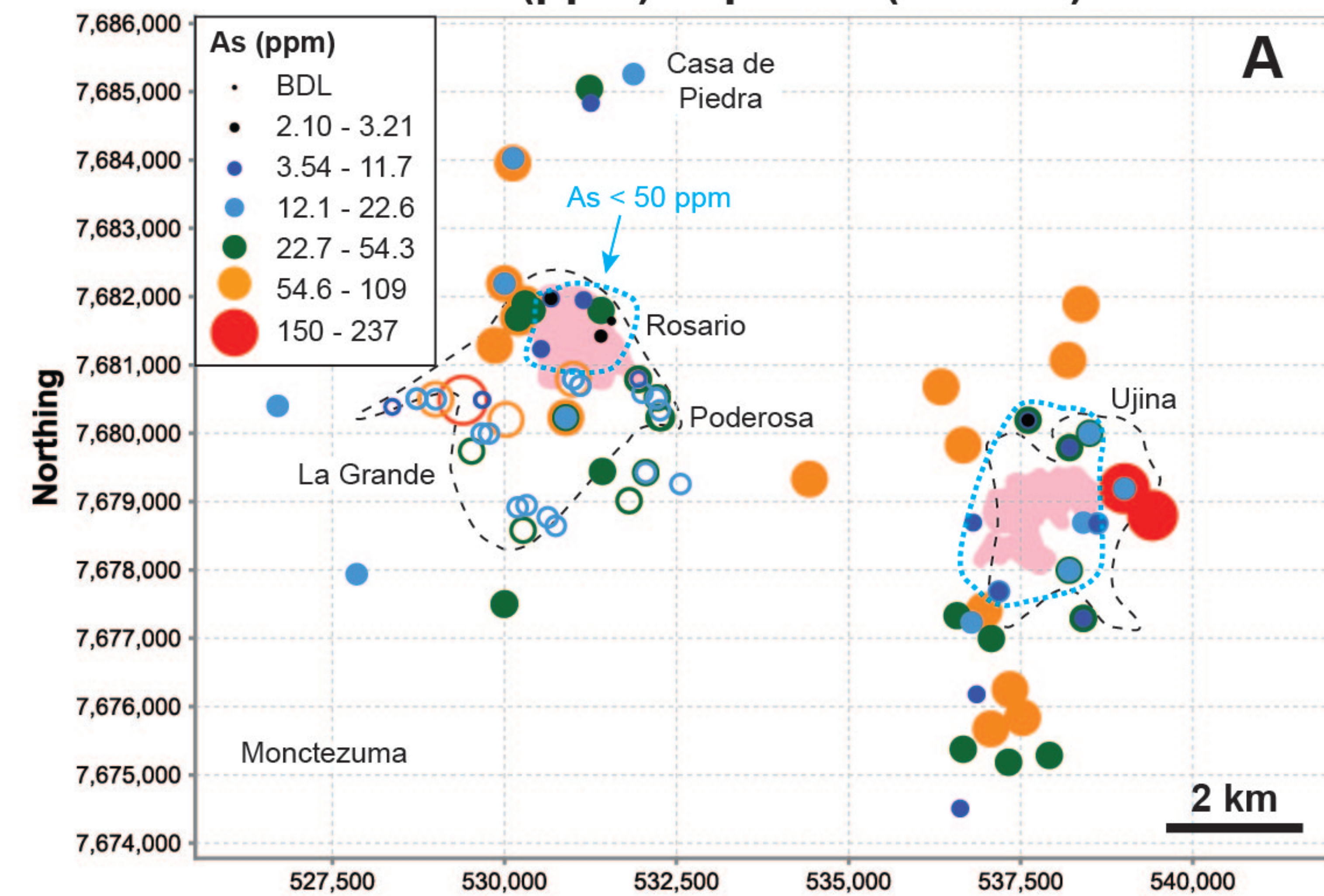
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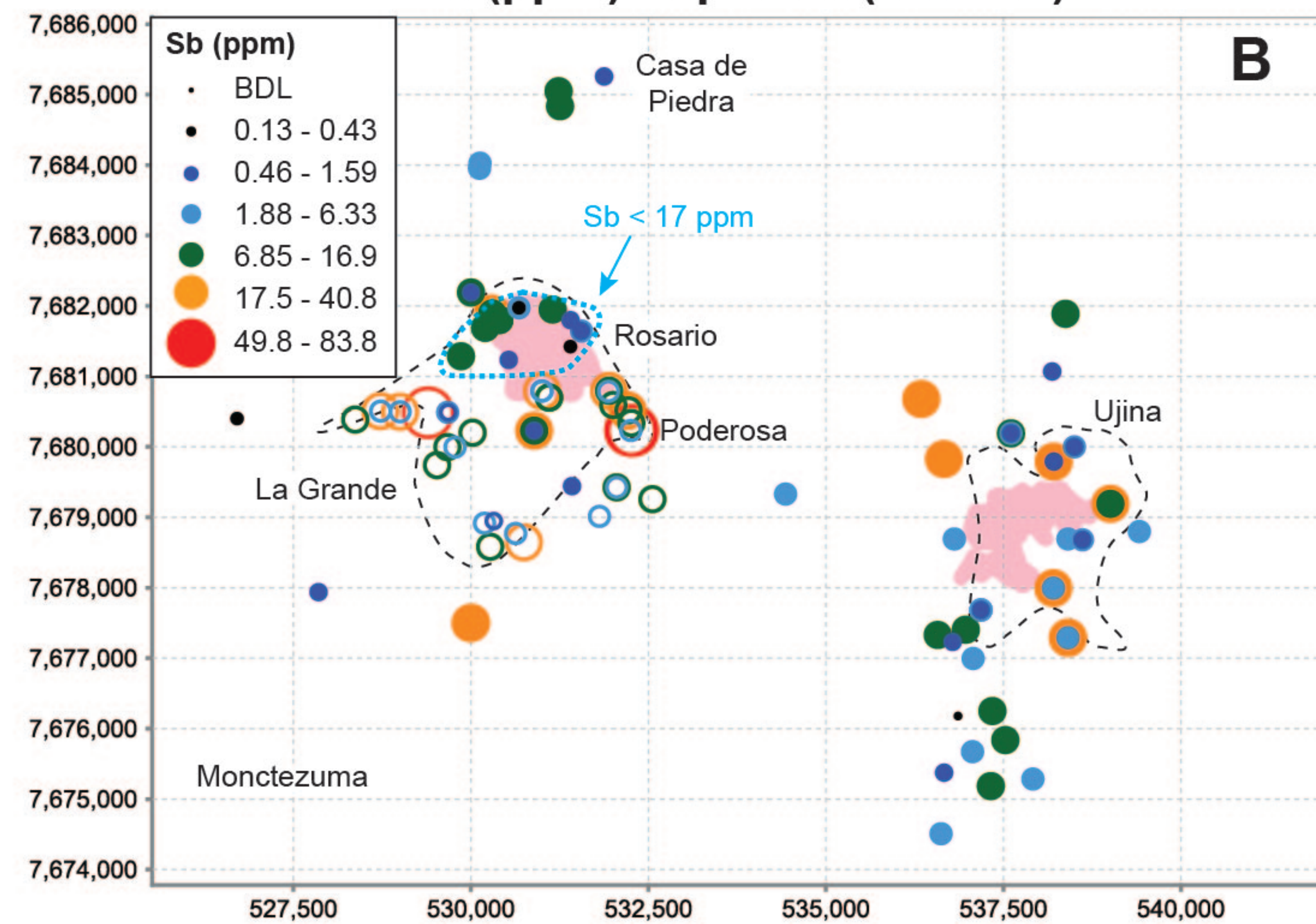
Mn (ppm) - whole rock**La (ppm) - whole rock****Y (ppm) - whole rock****Zr (ppm) - whole rock**

Cu (ppm) - epidote (median)**Au (ppm) - epidote (median)****Mo (ppm) - epidote (median)****Sn (ppm) - epidote (median)**

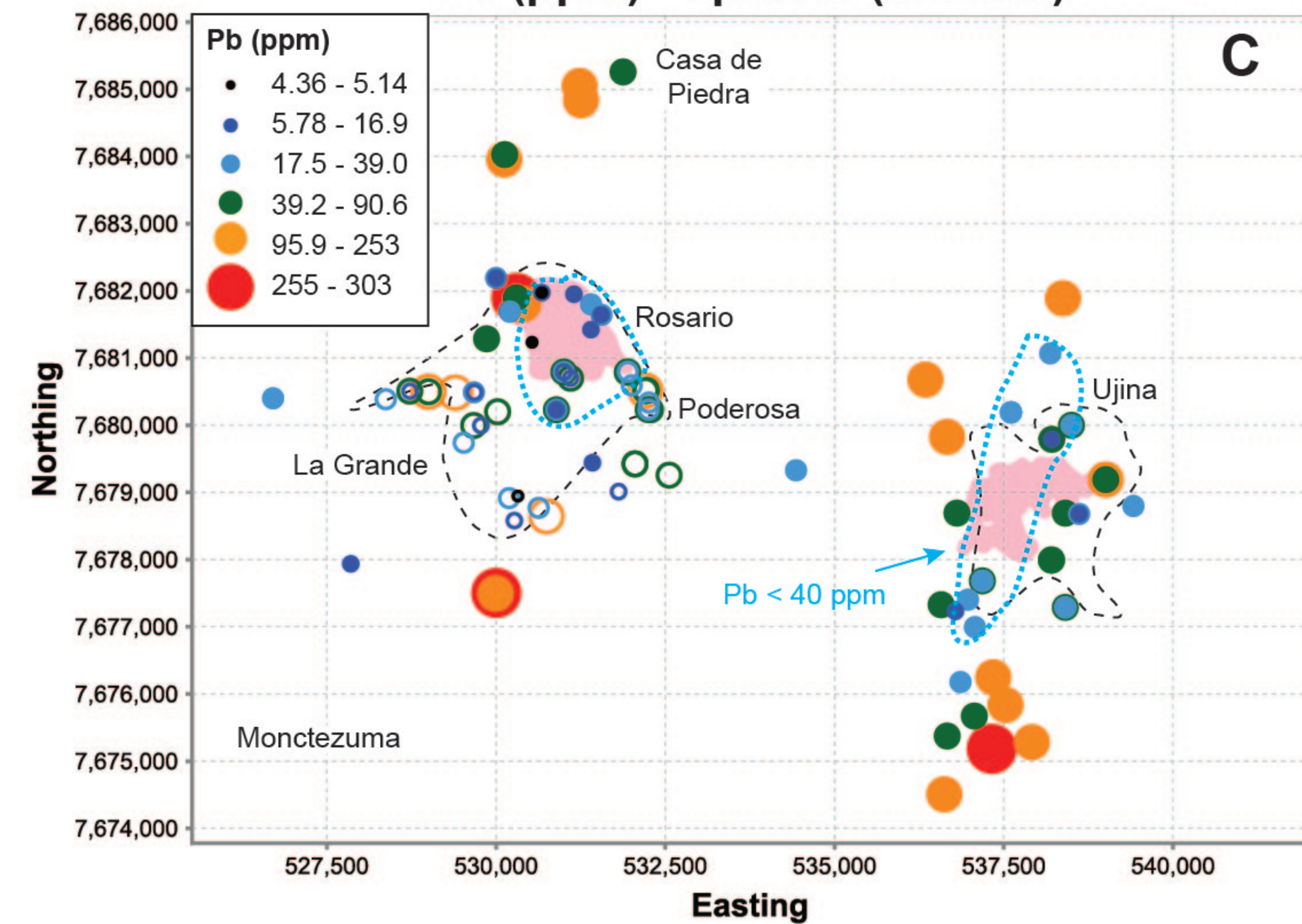
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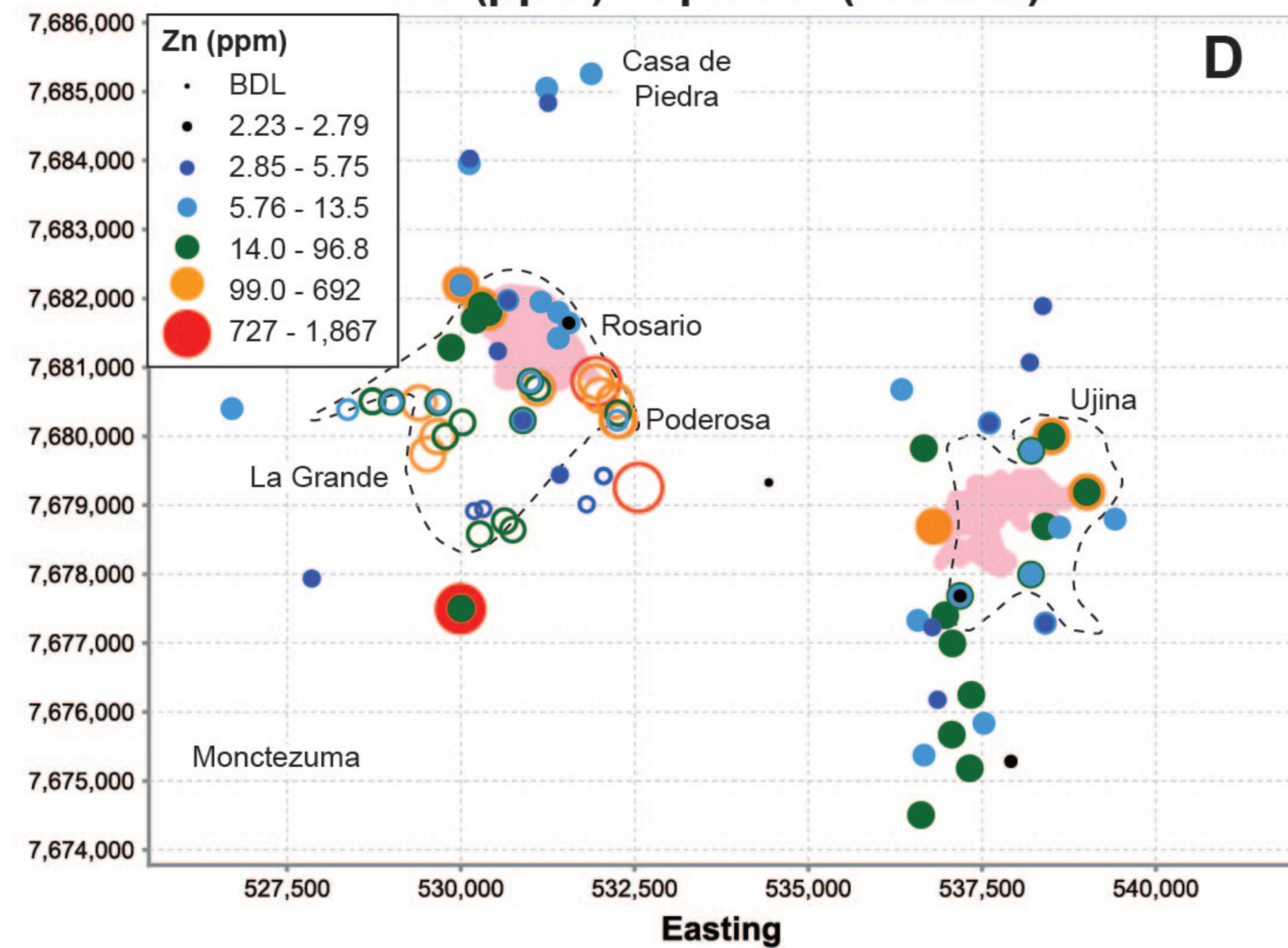
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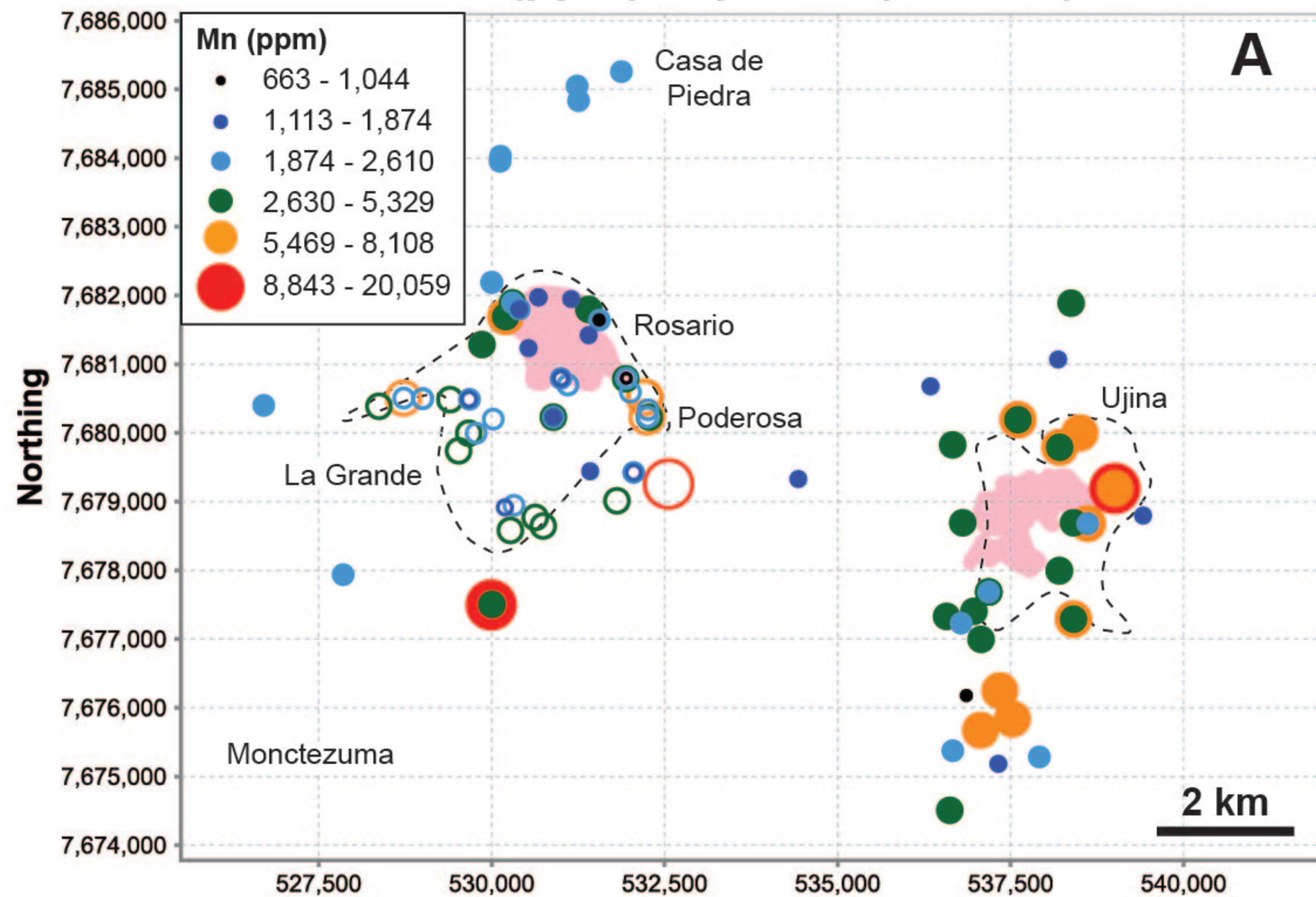
Pb (ppm) - epidote (median)



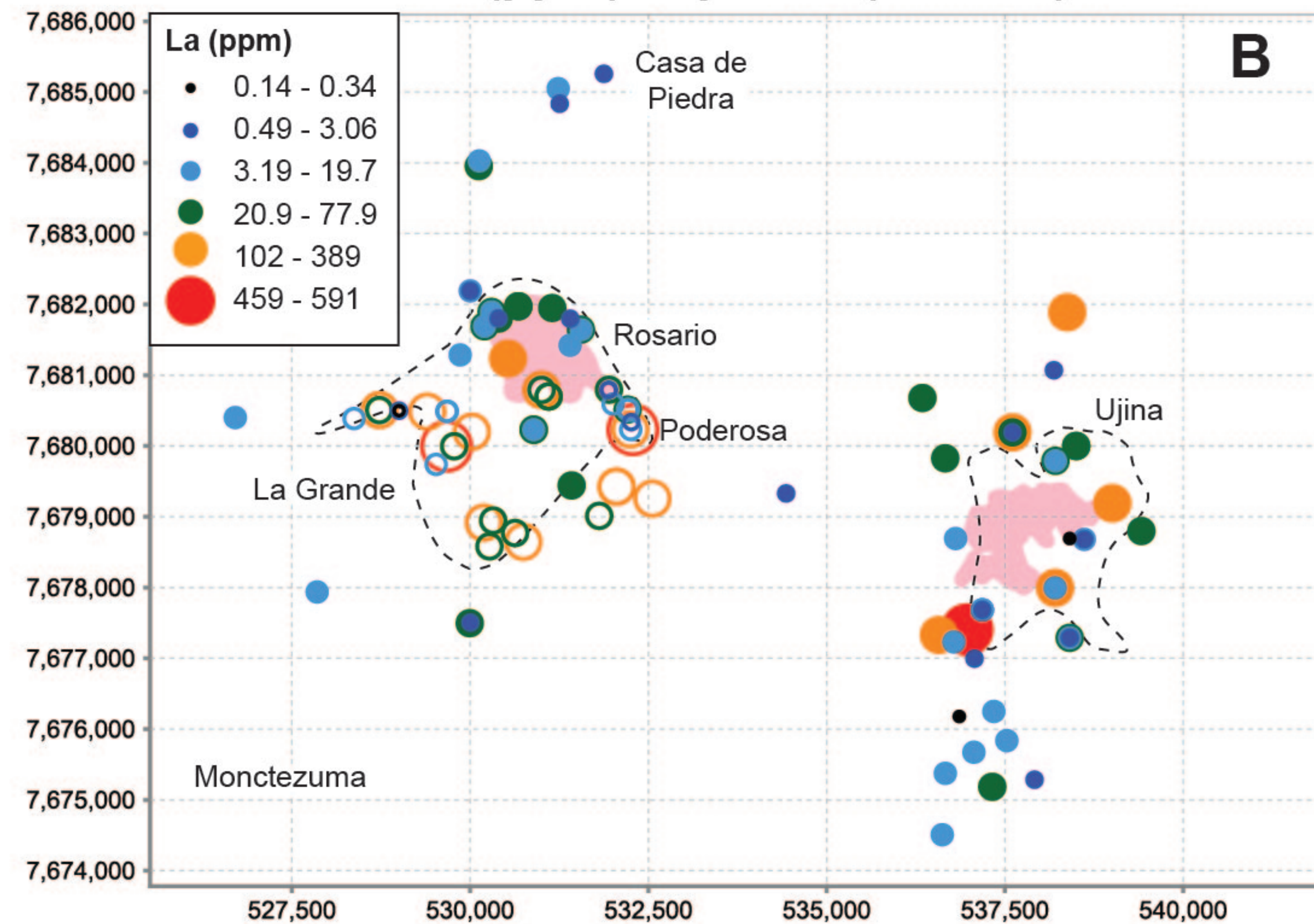
Zn (ppm) - epidote (median)



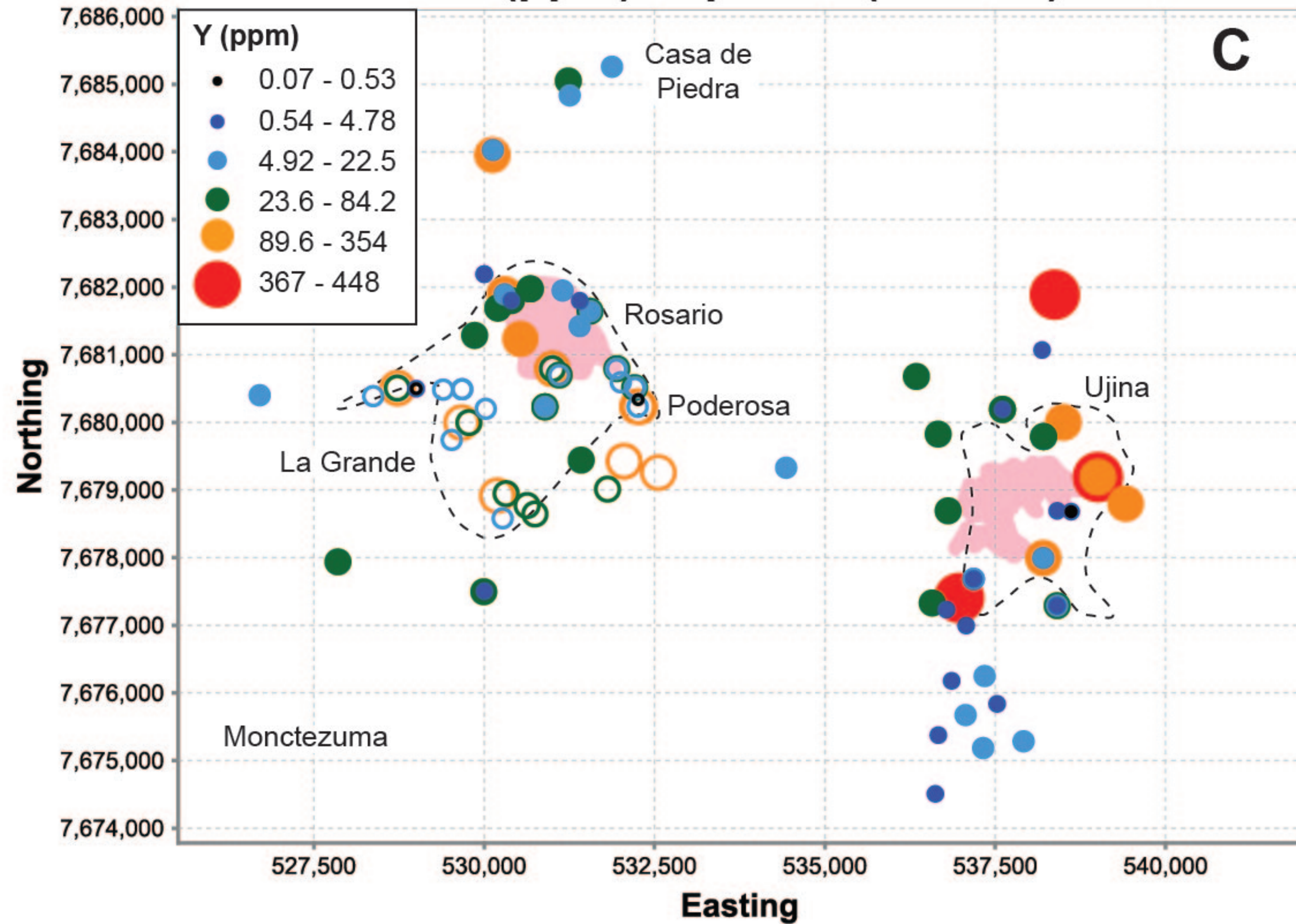
Mn (ppm) - epidote (median)



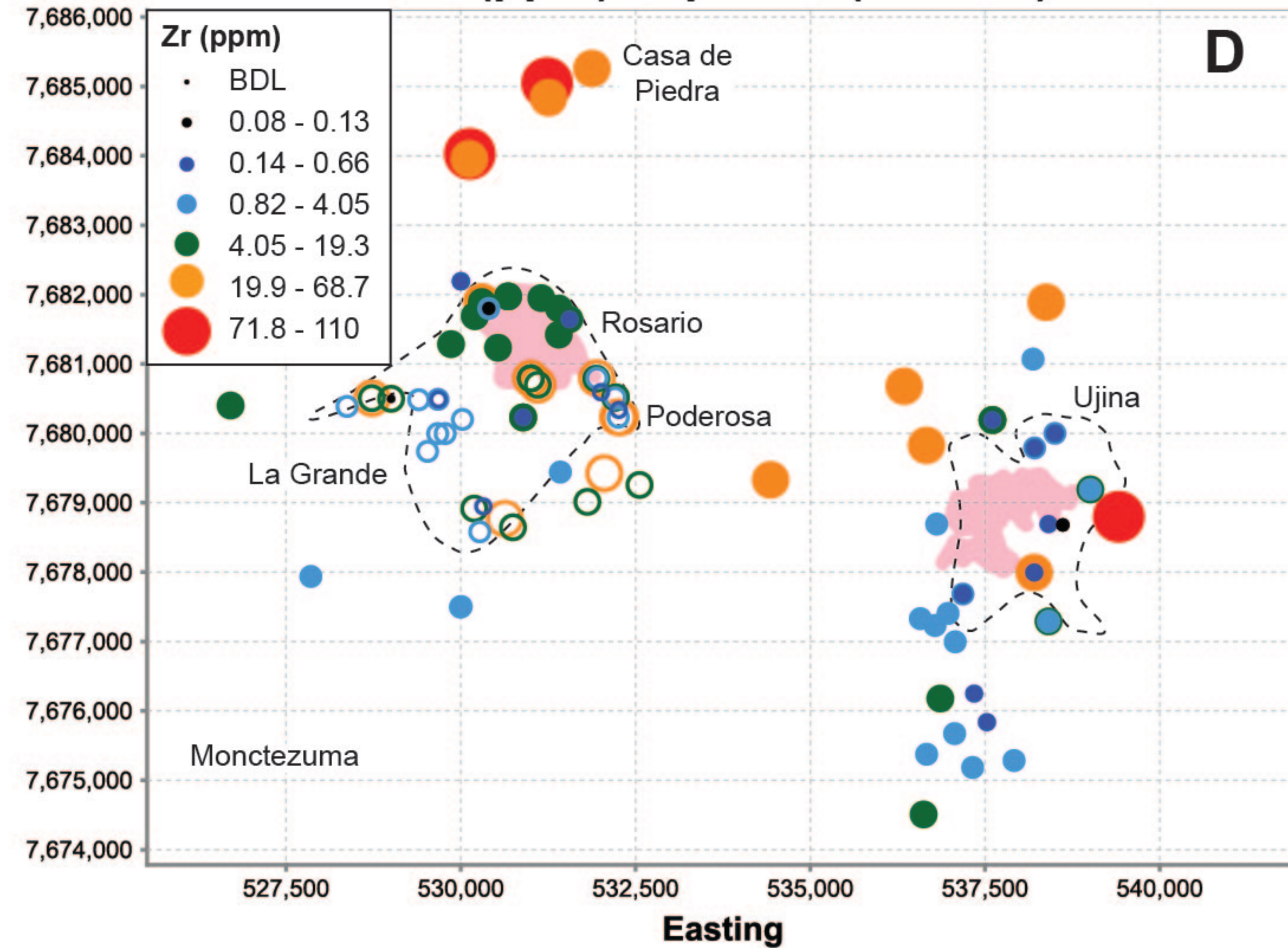
La (ppm) - epidote (median)

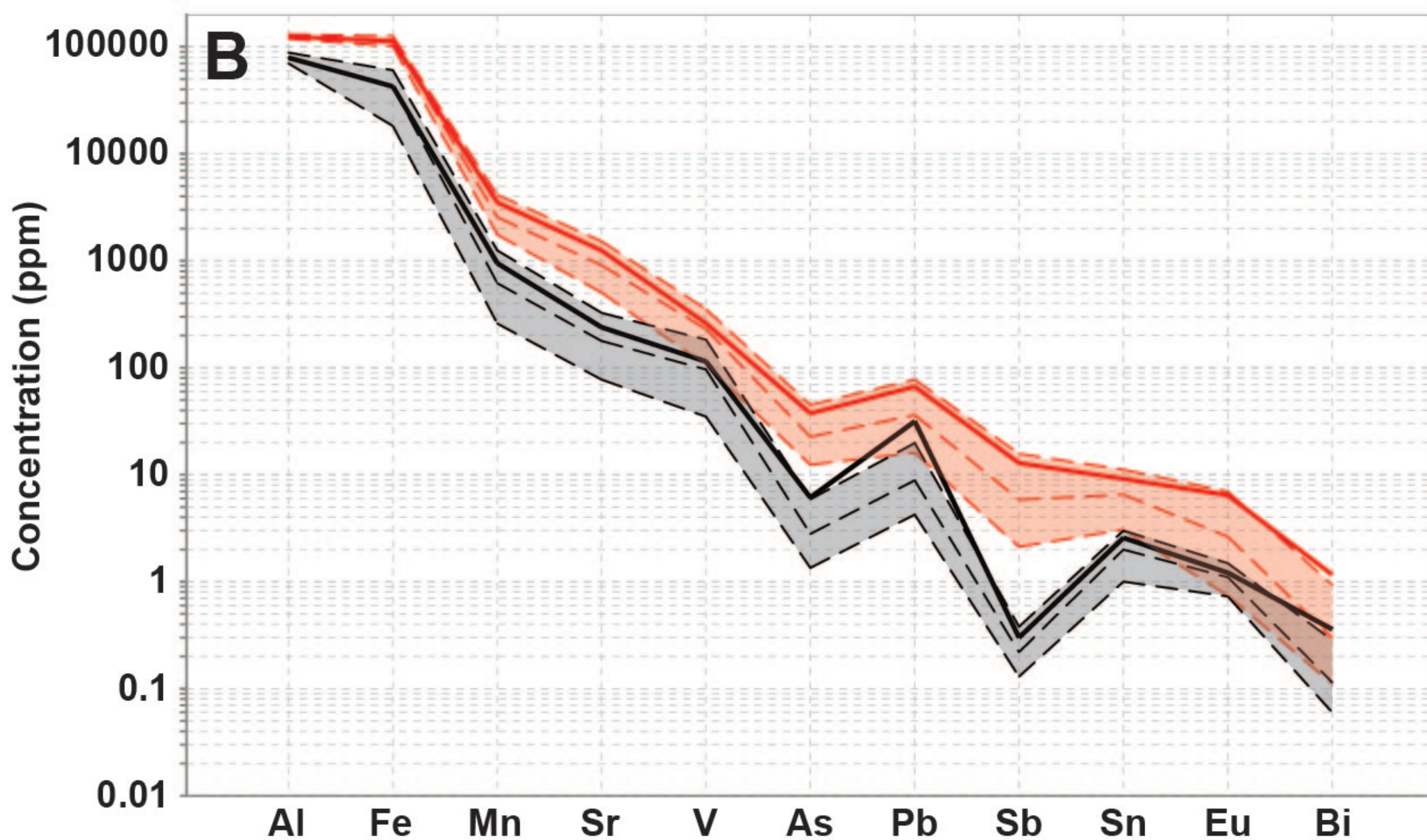
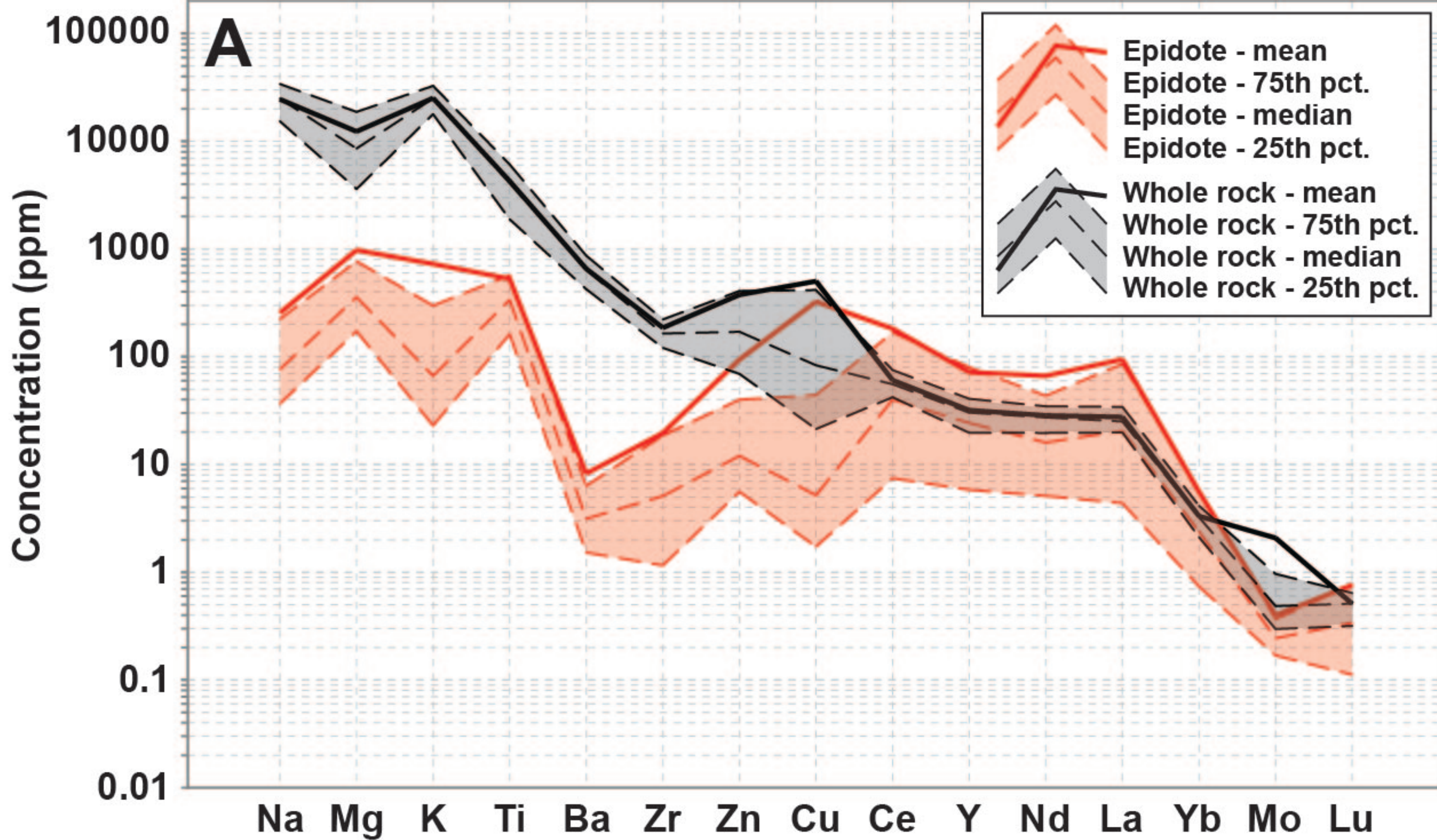


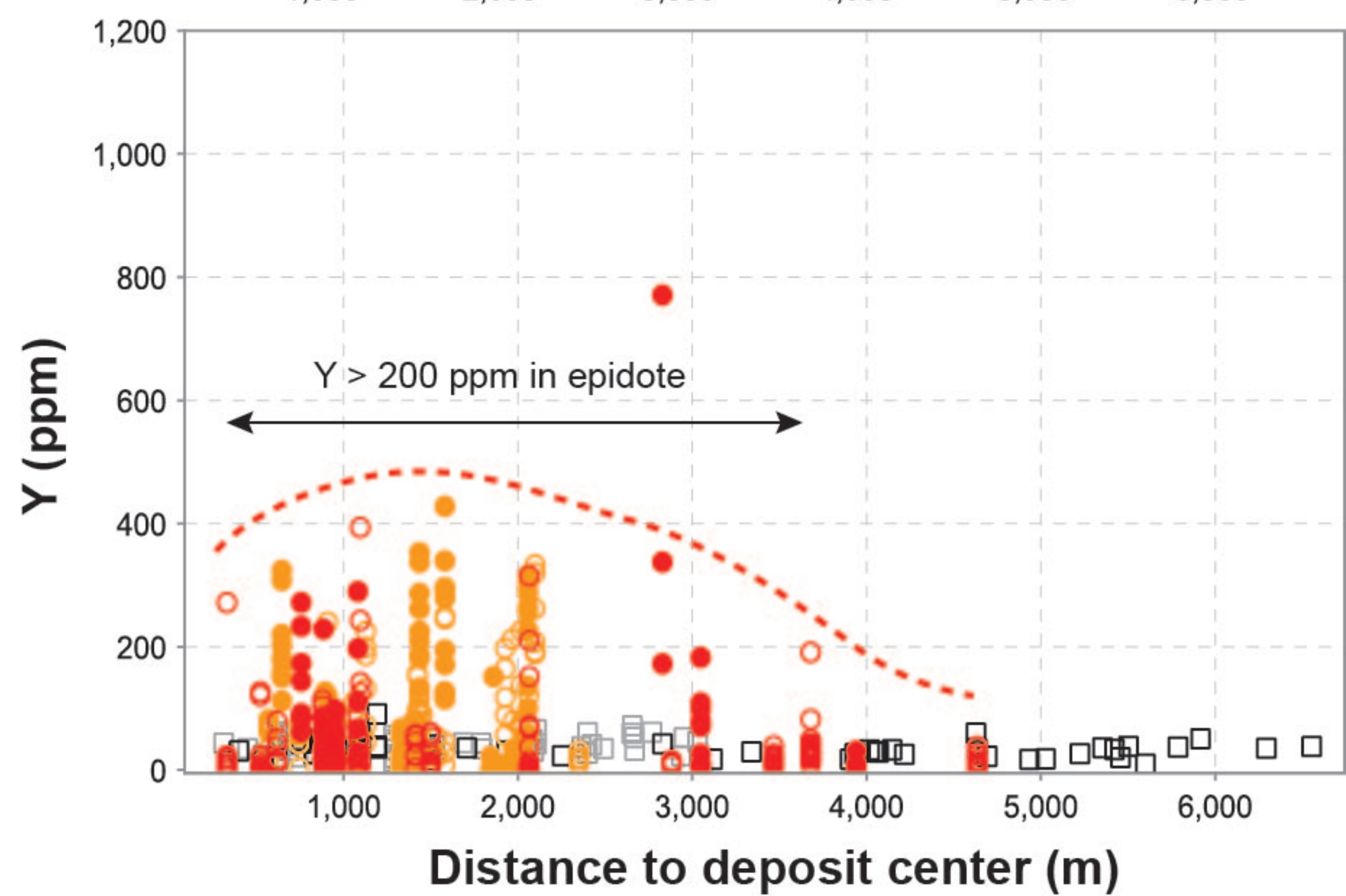
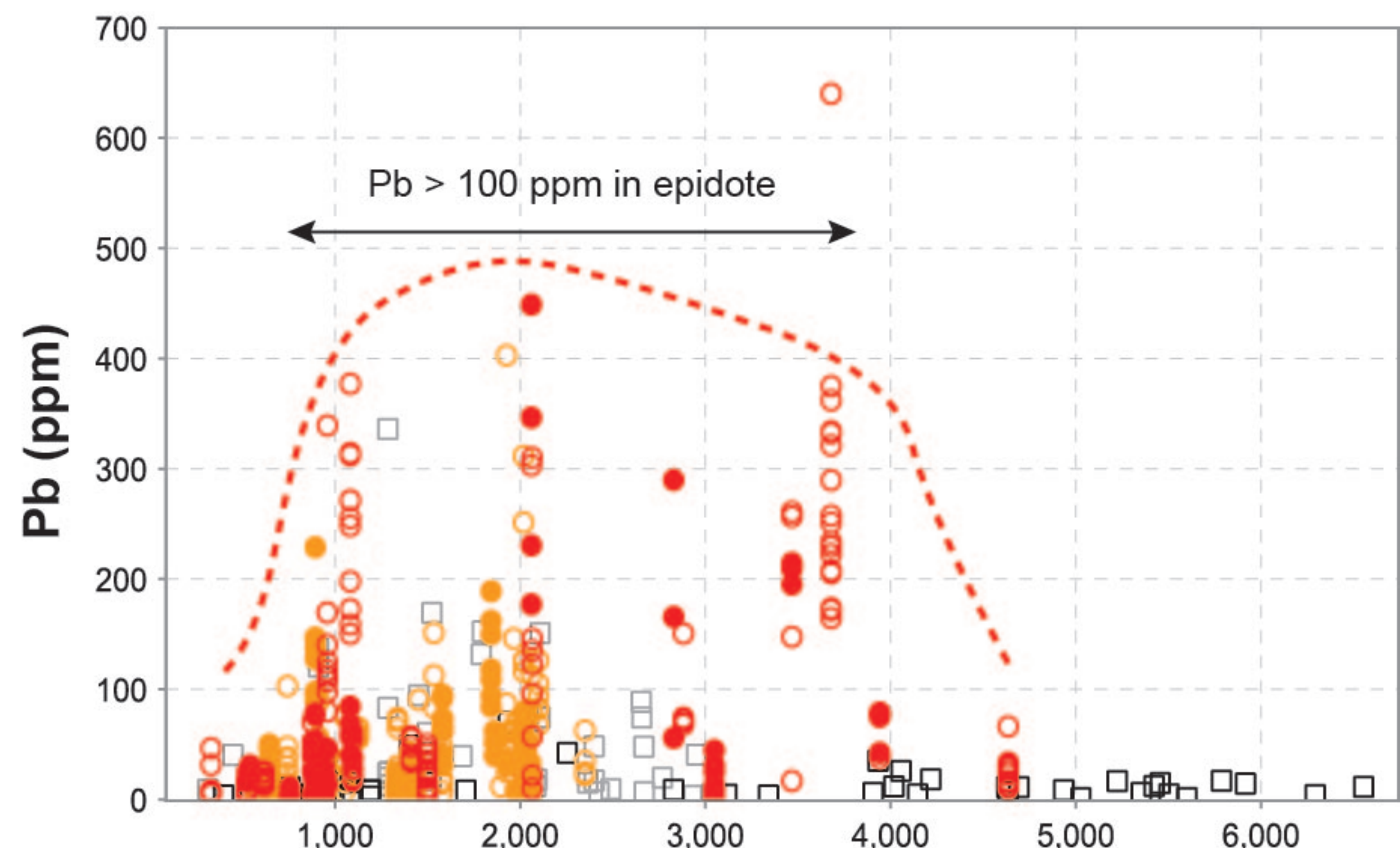
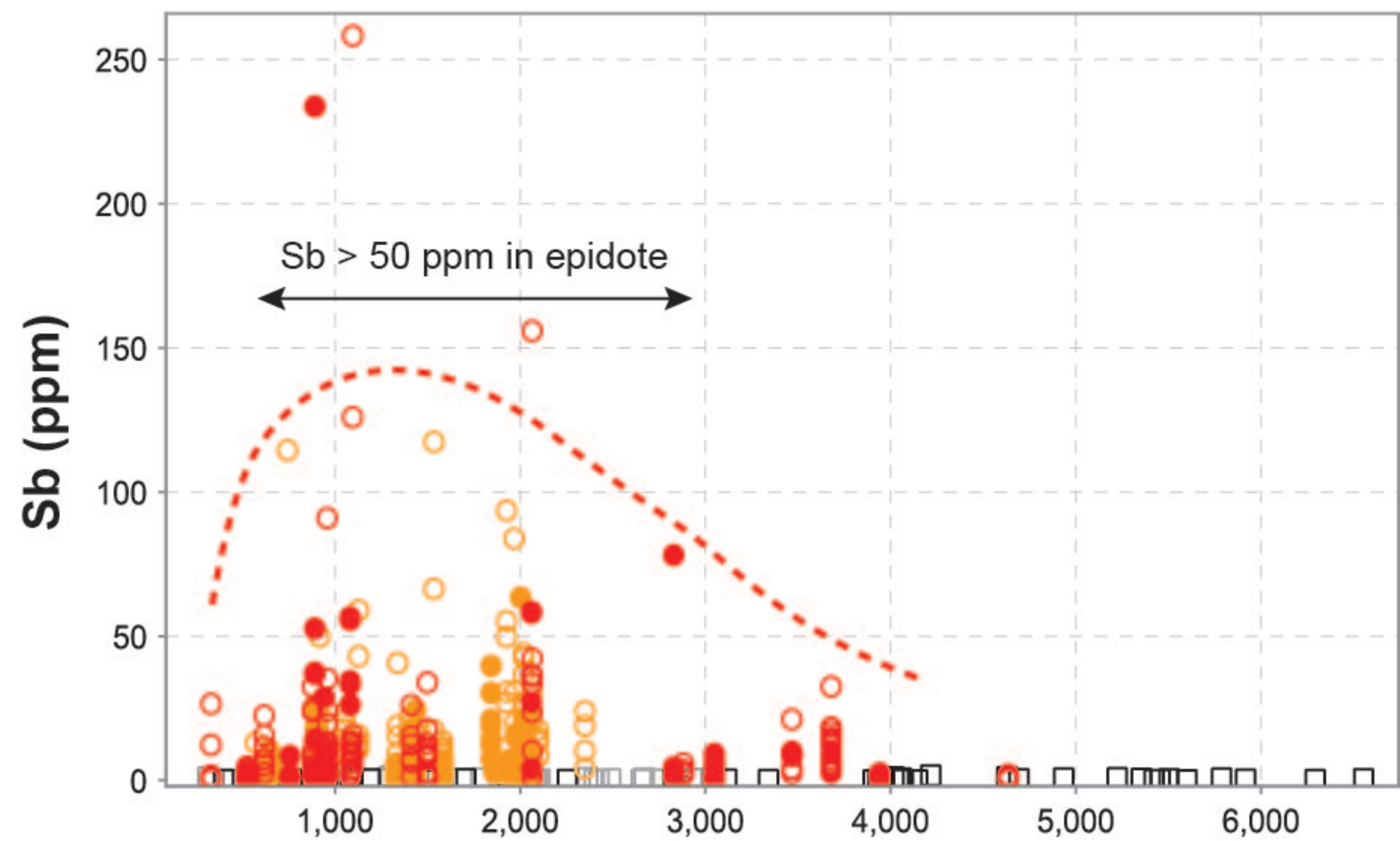
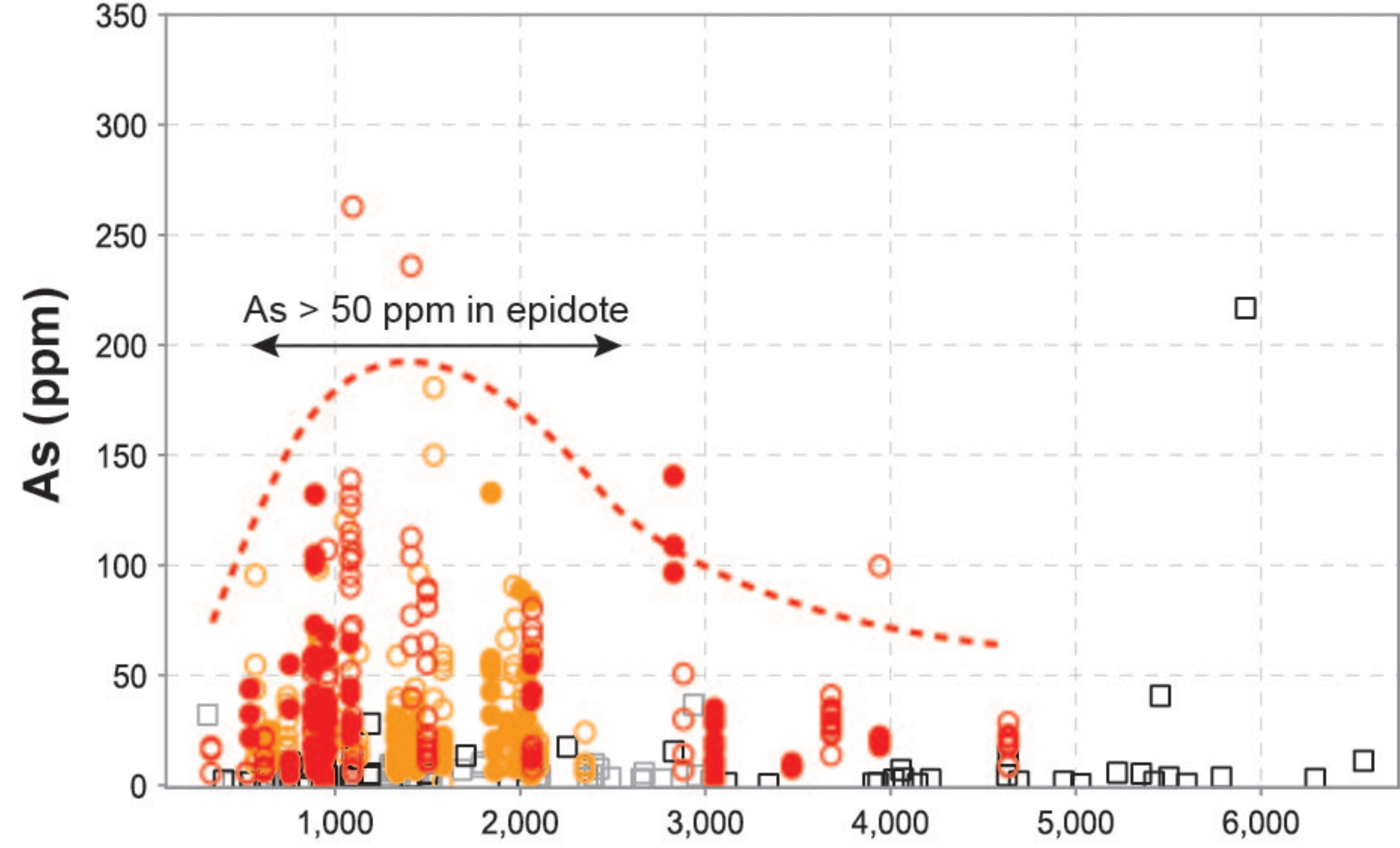
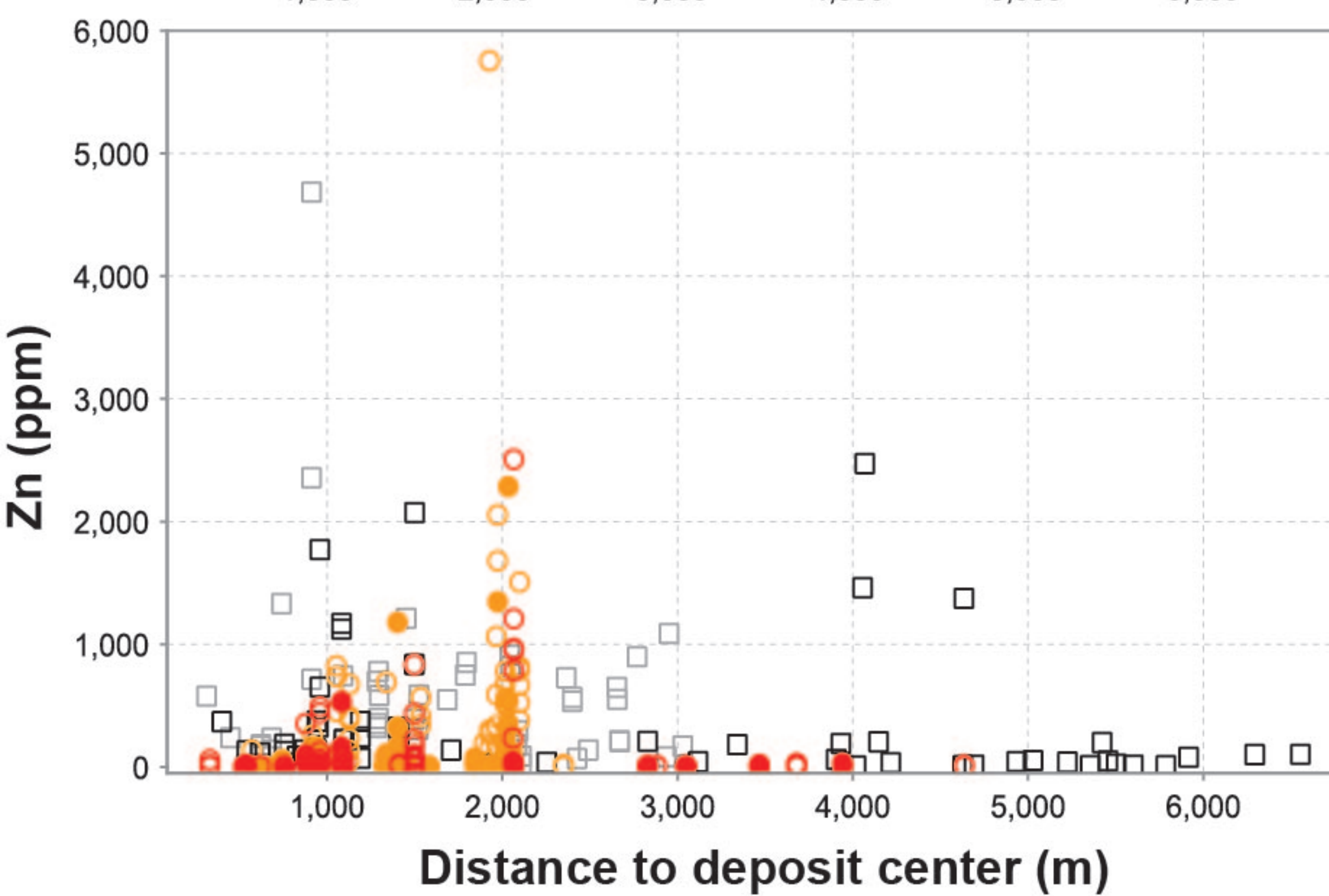
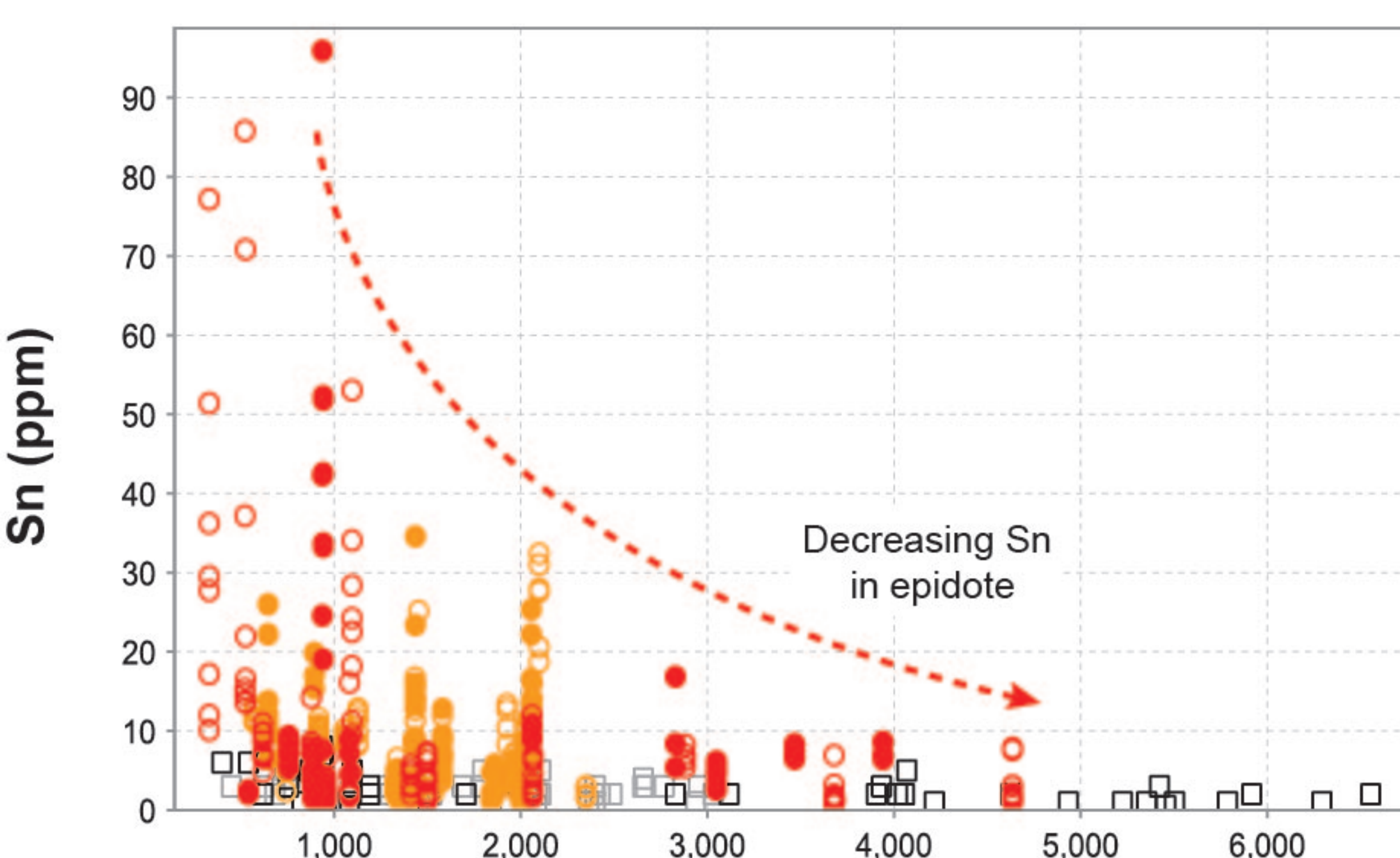
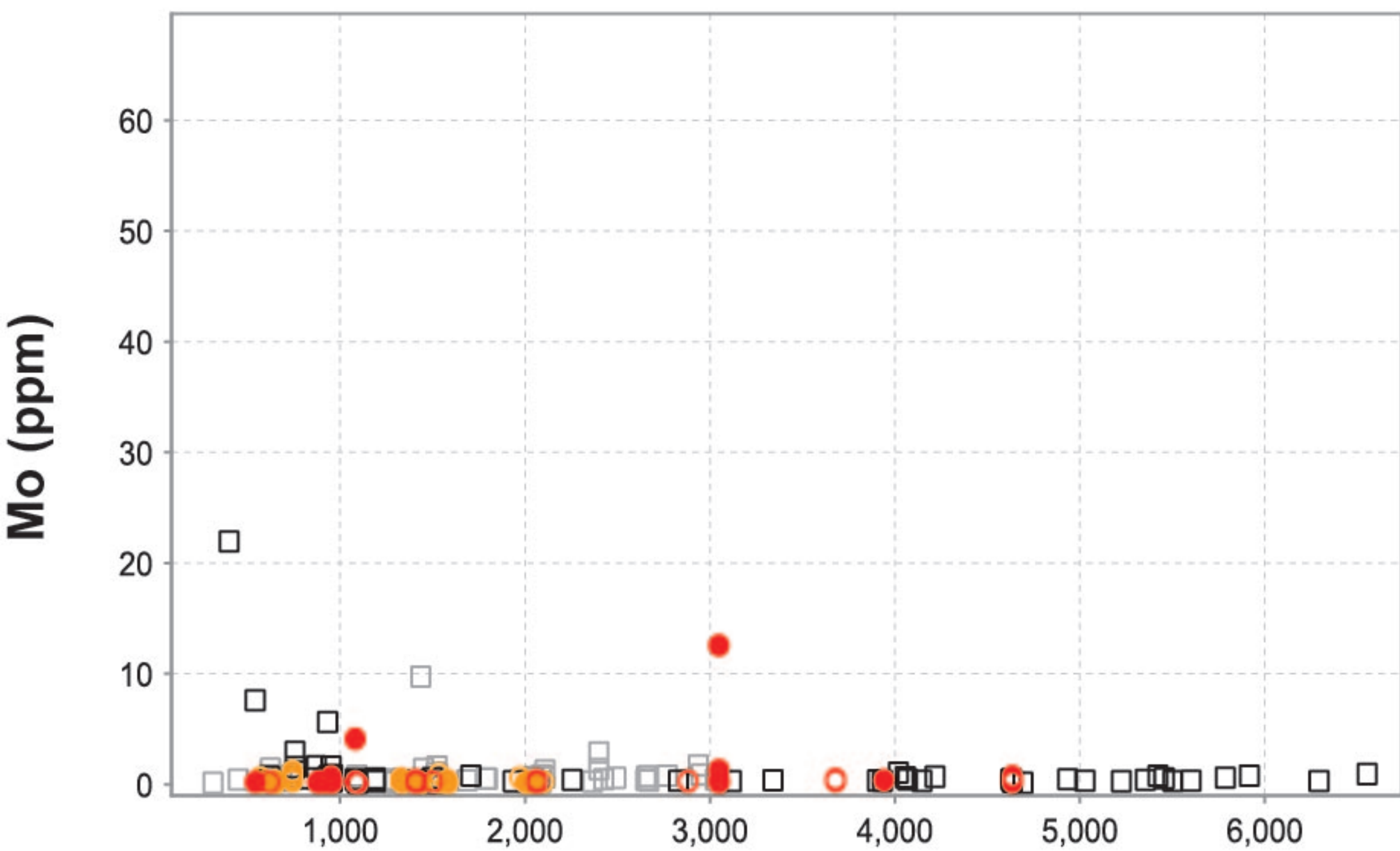
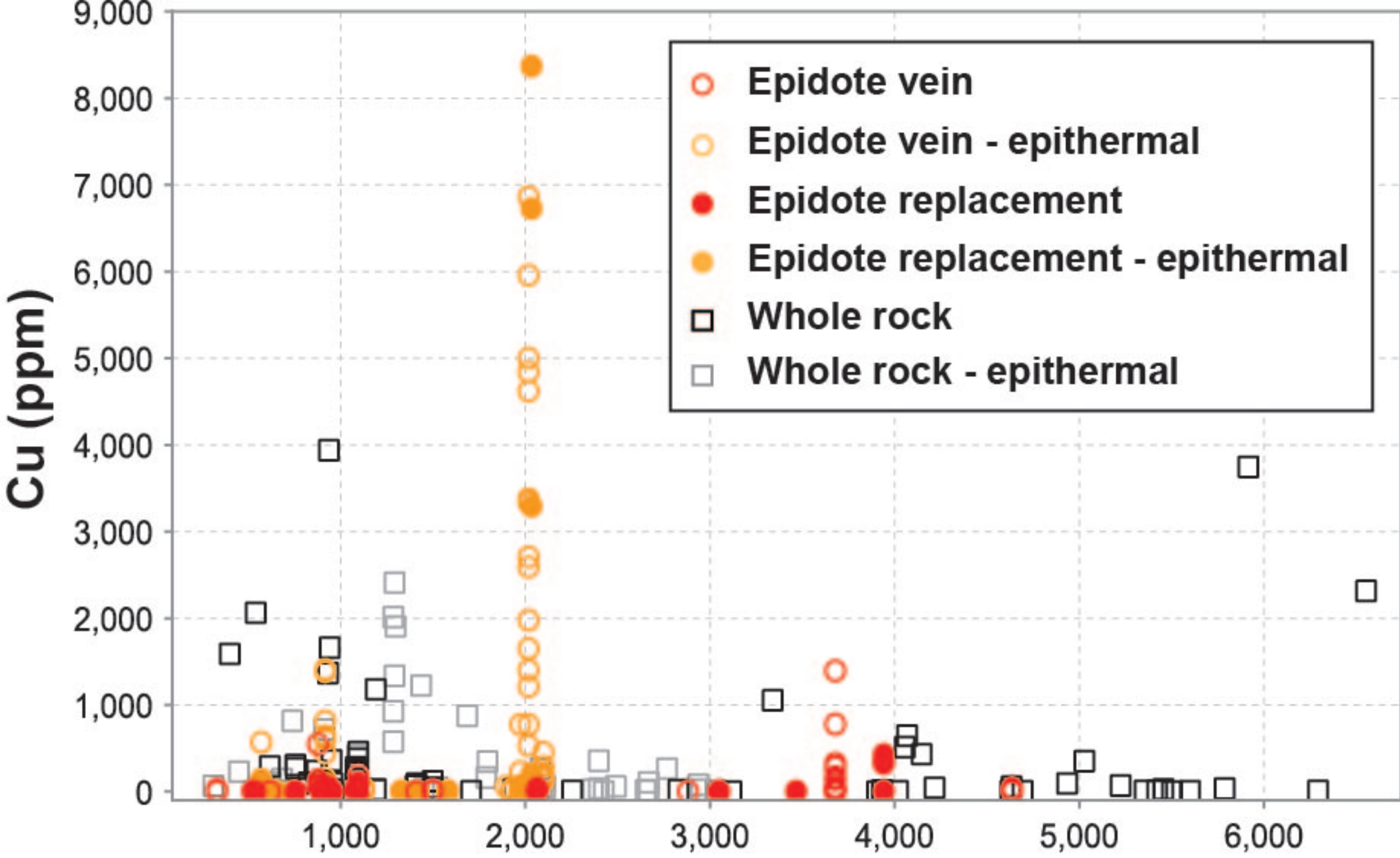
Y (ppm) - epidote (median)

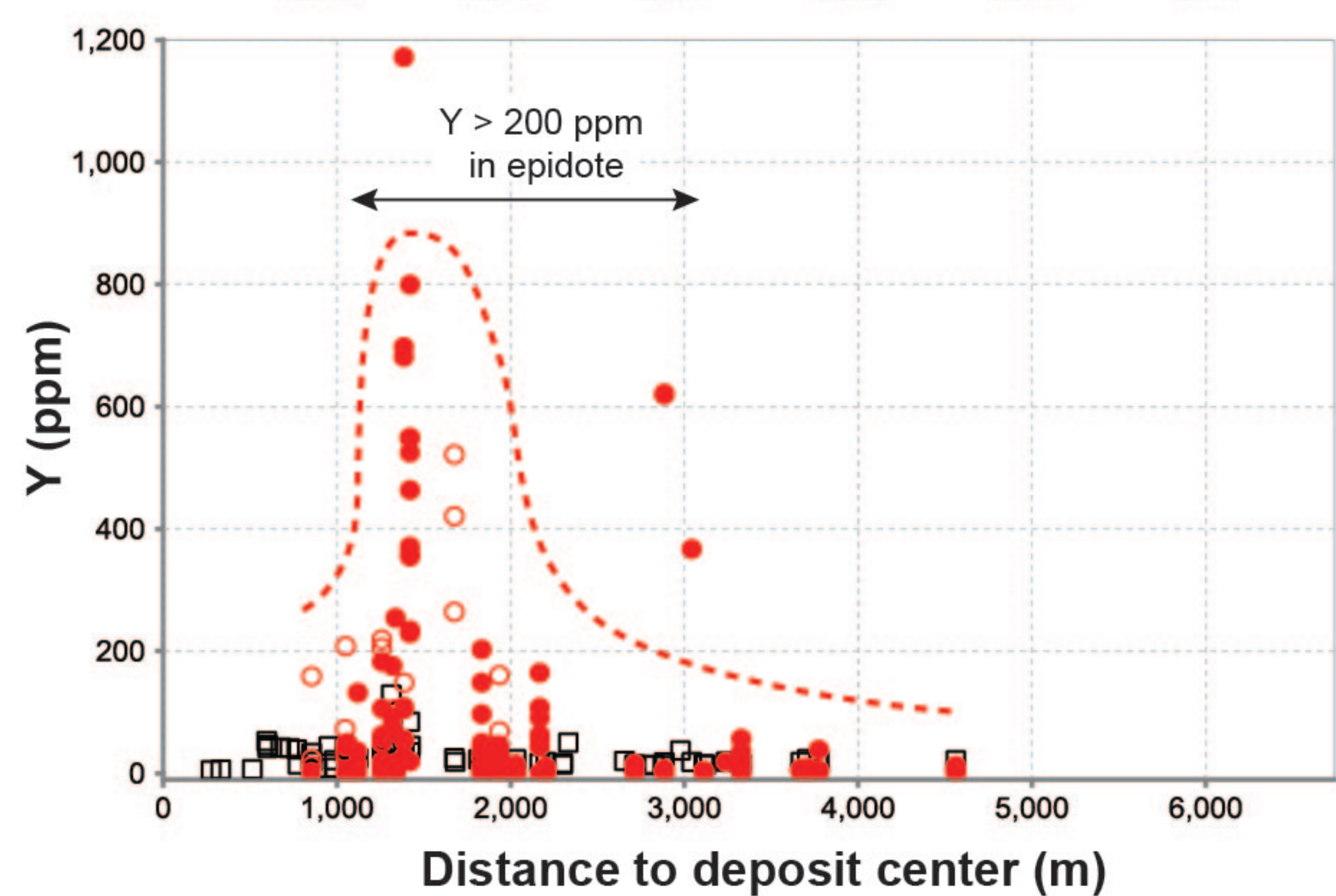
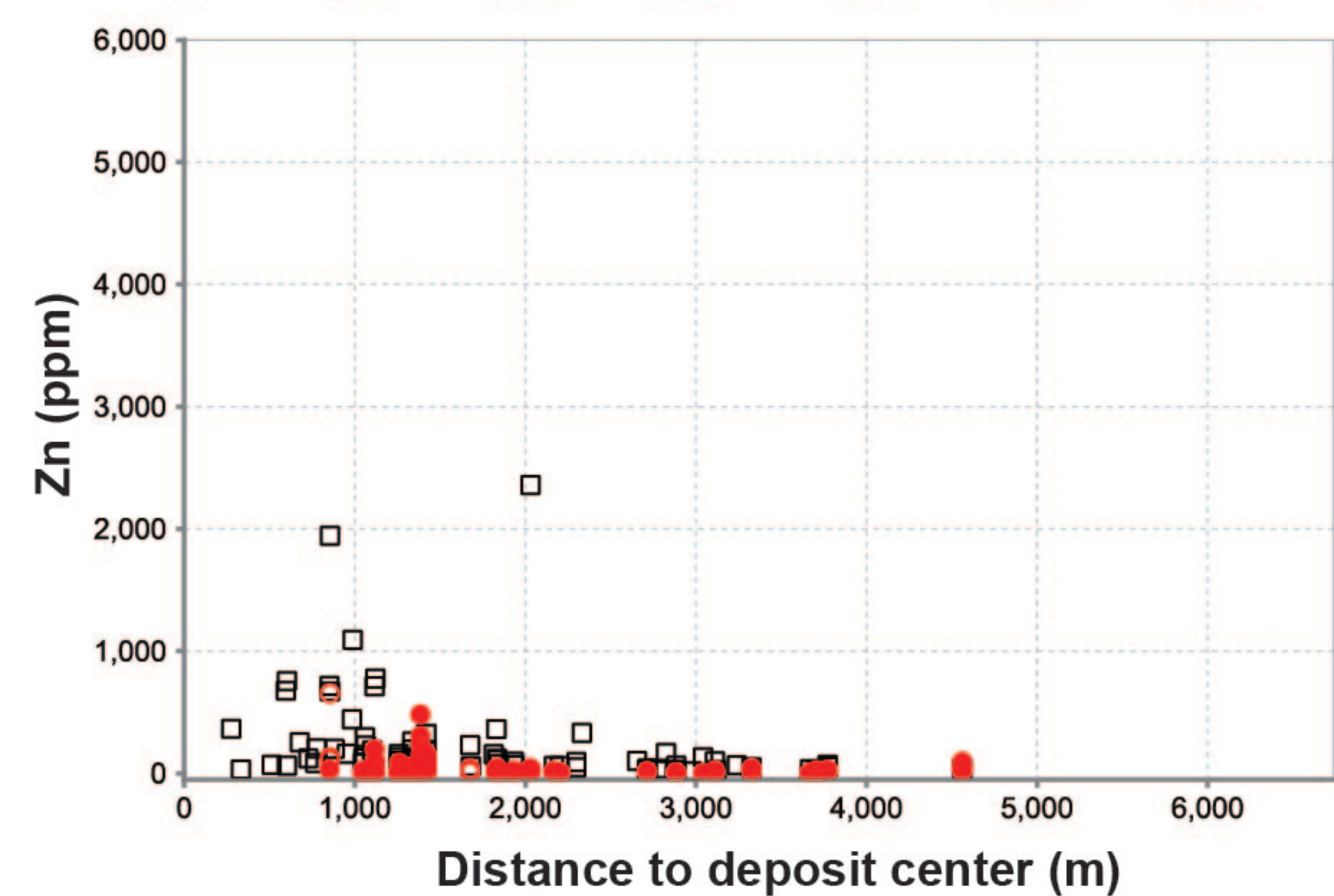
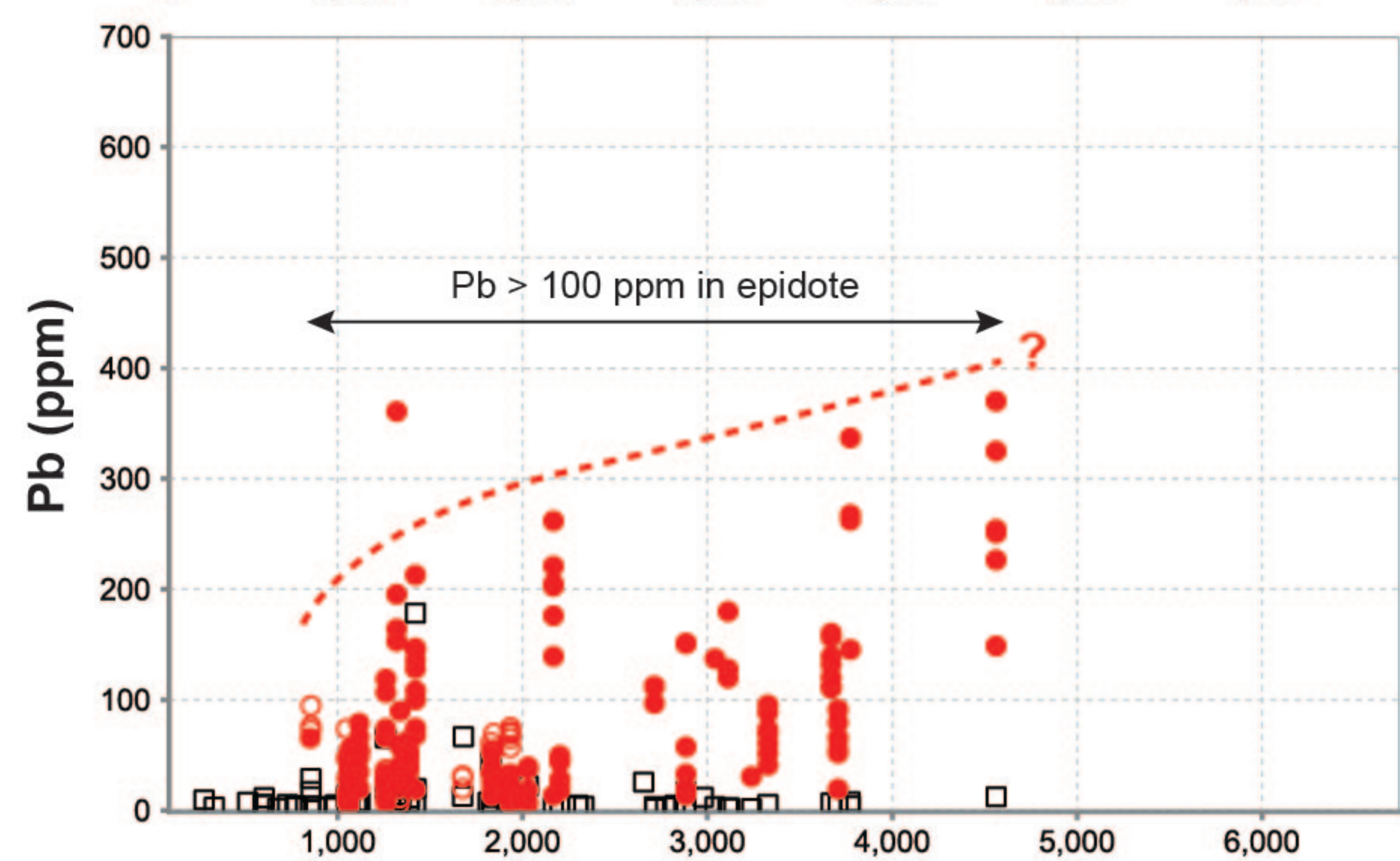
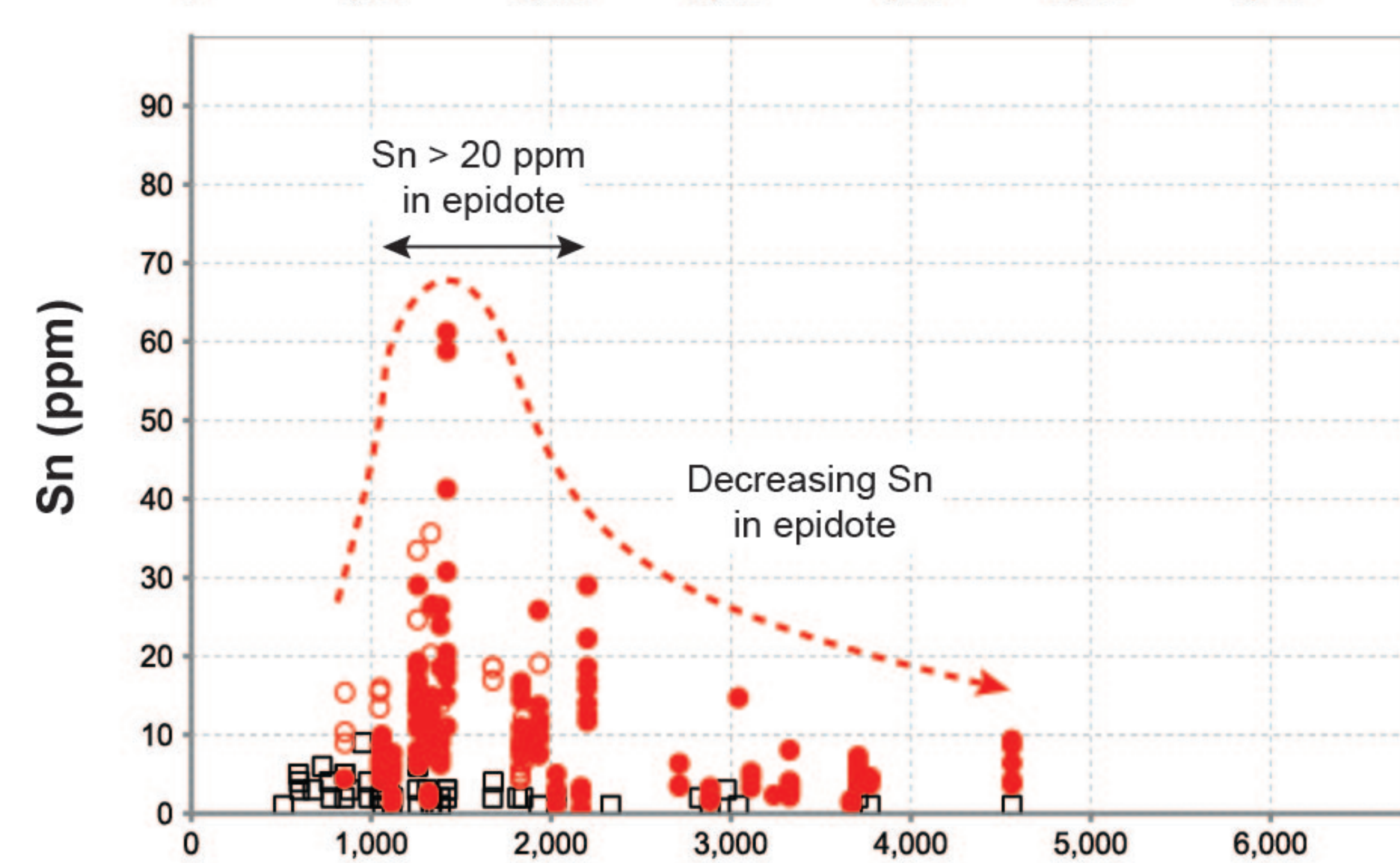
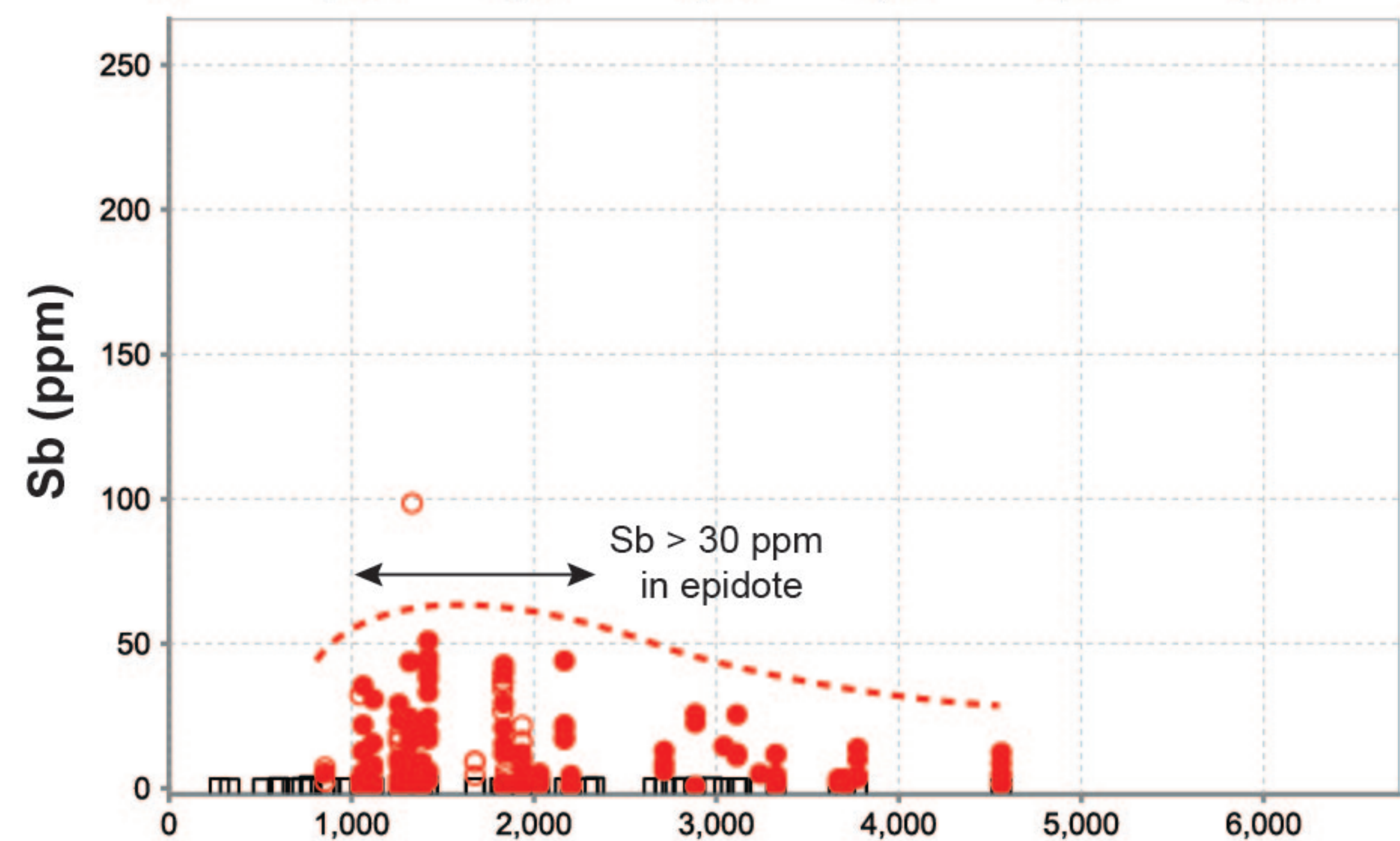
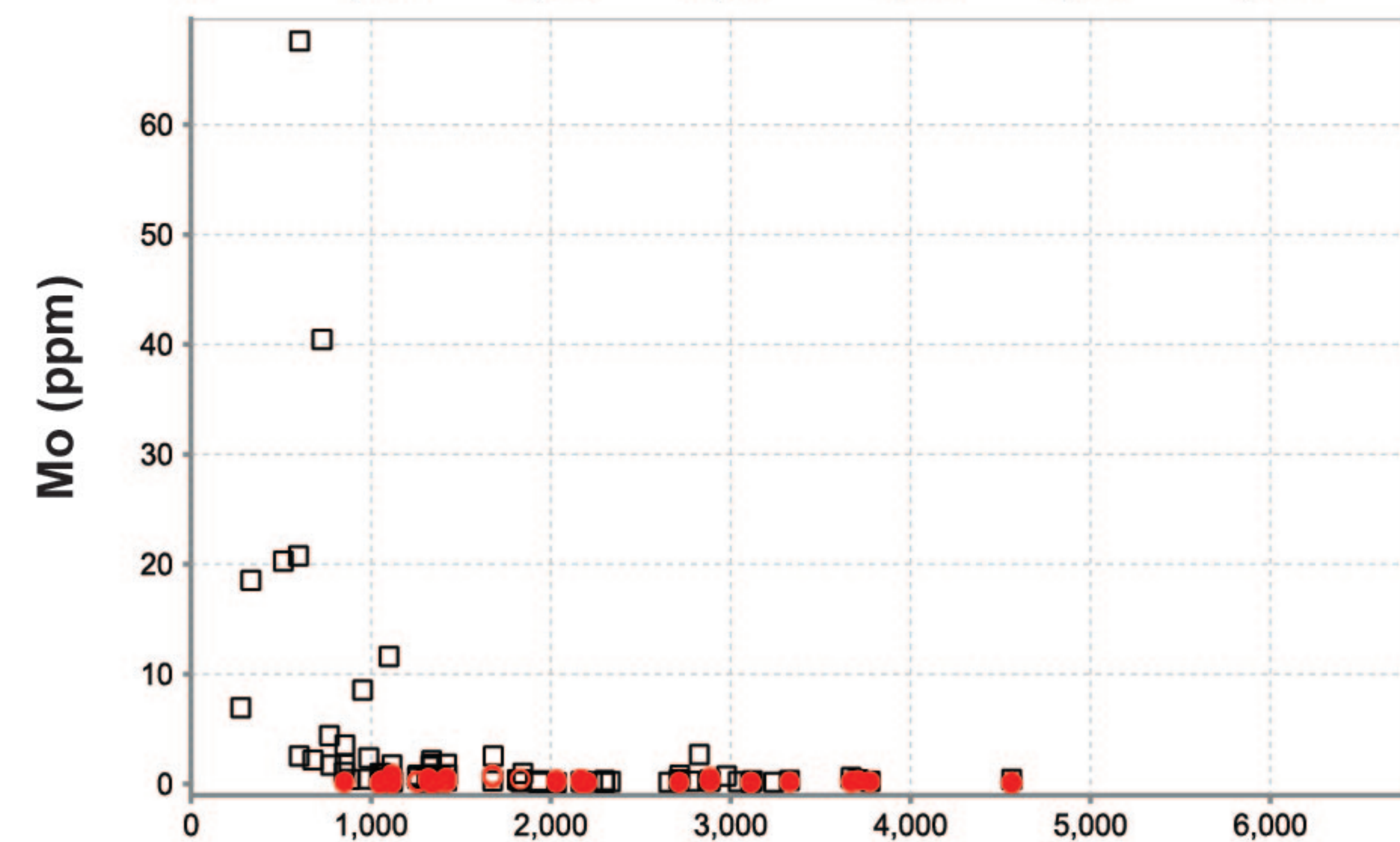
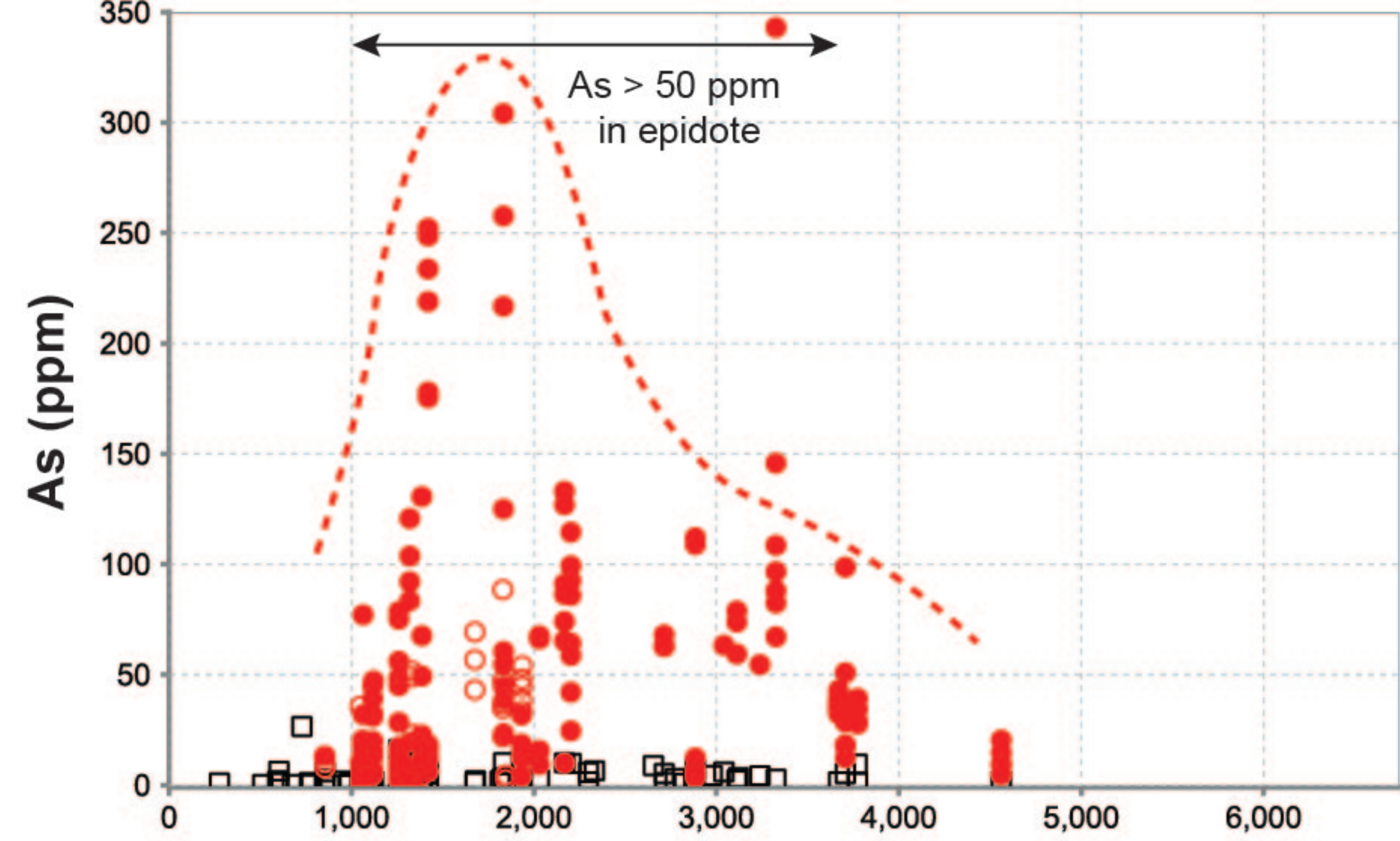
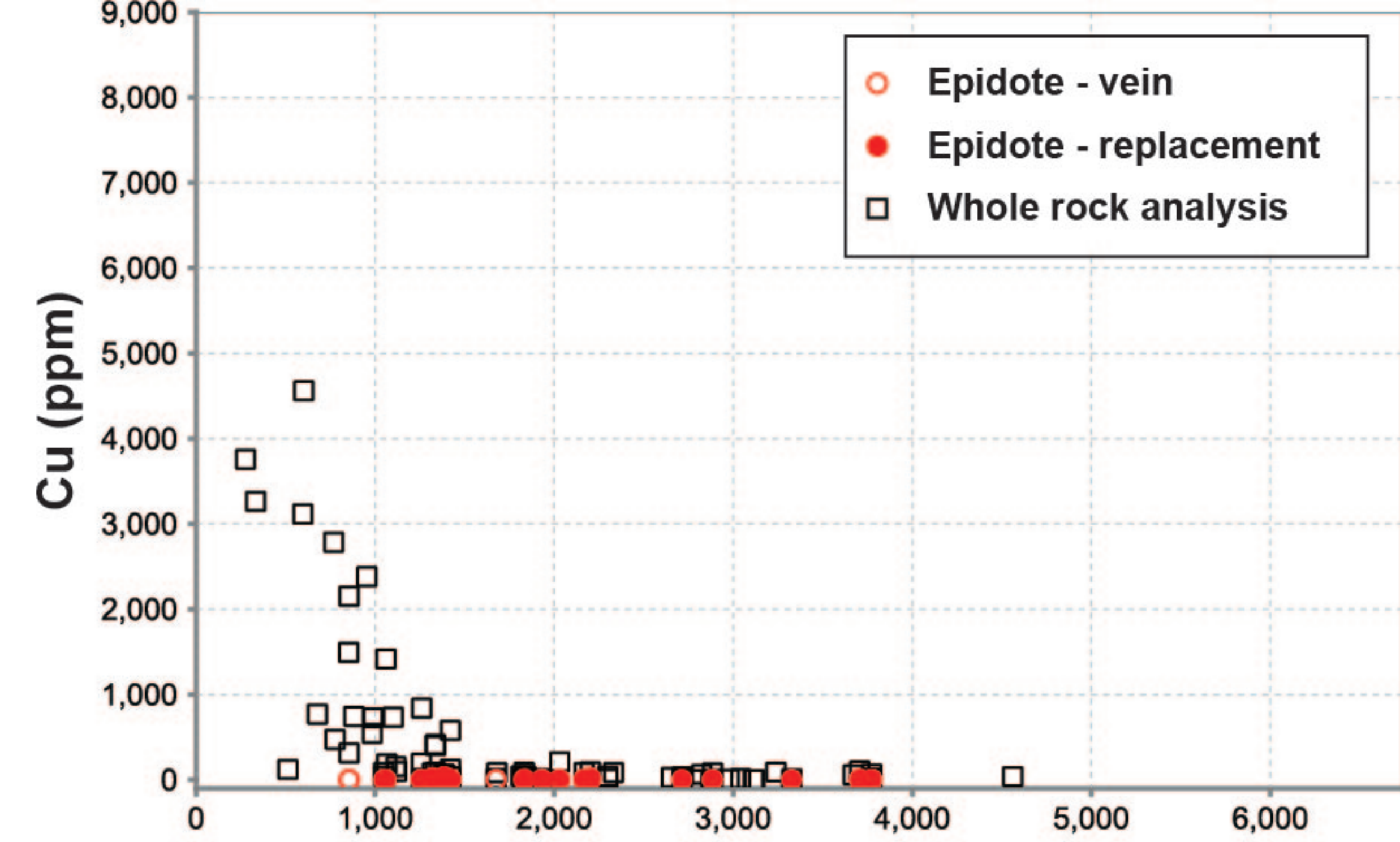


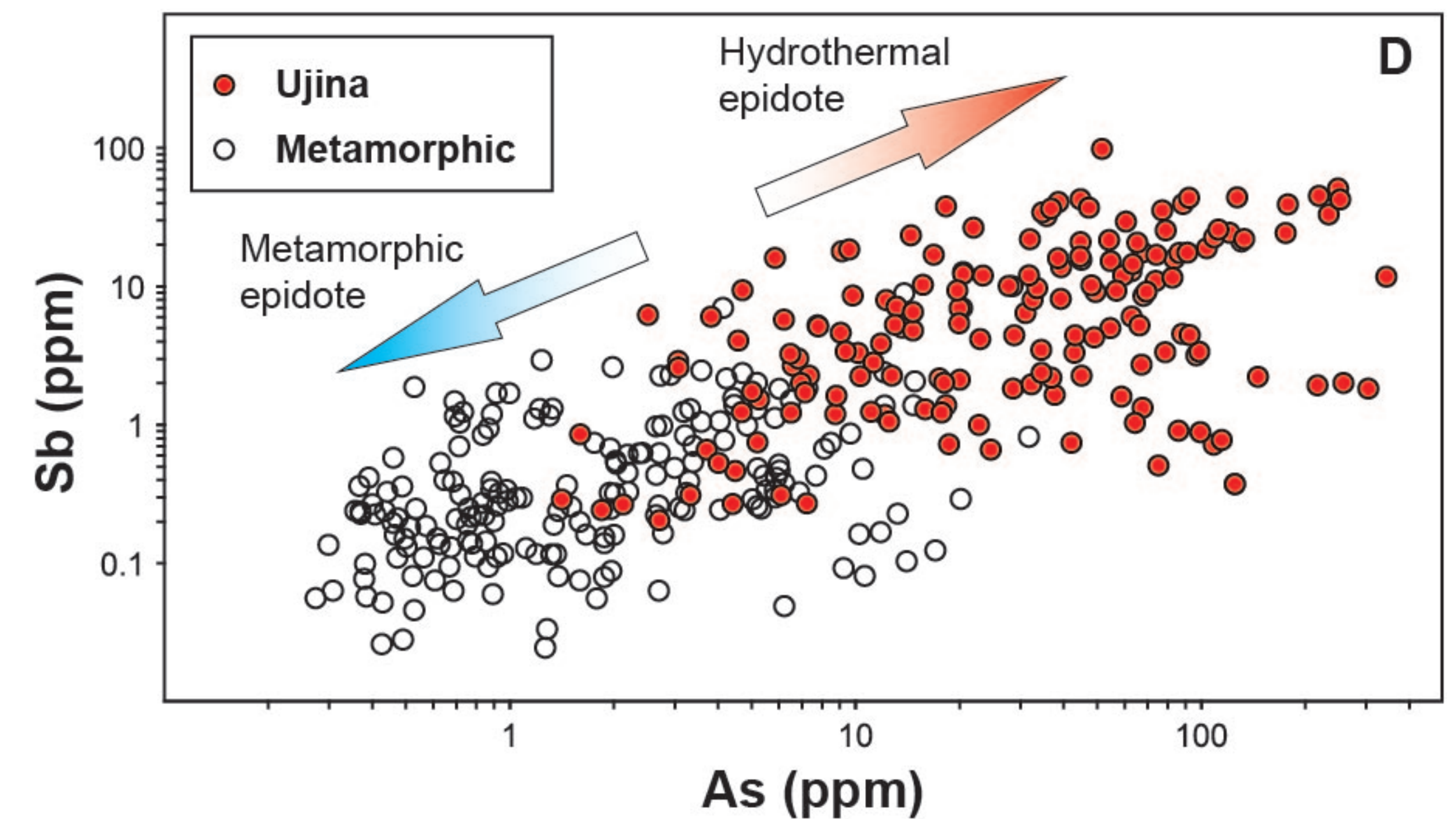
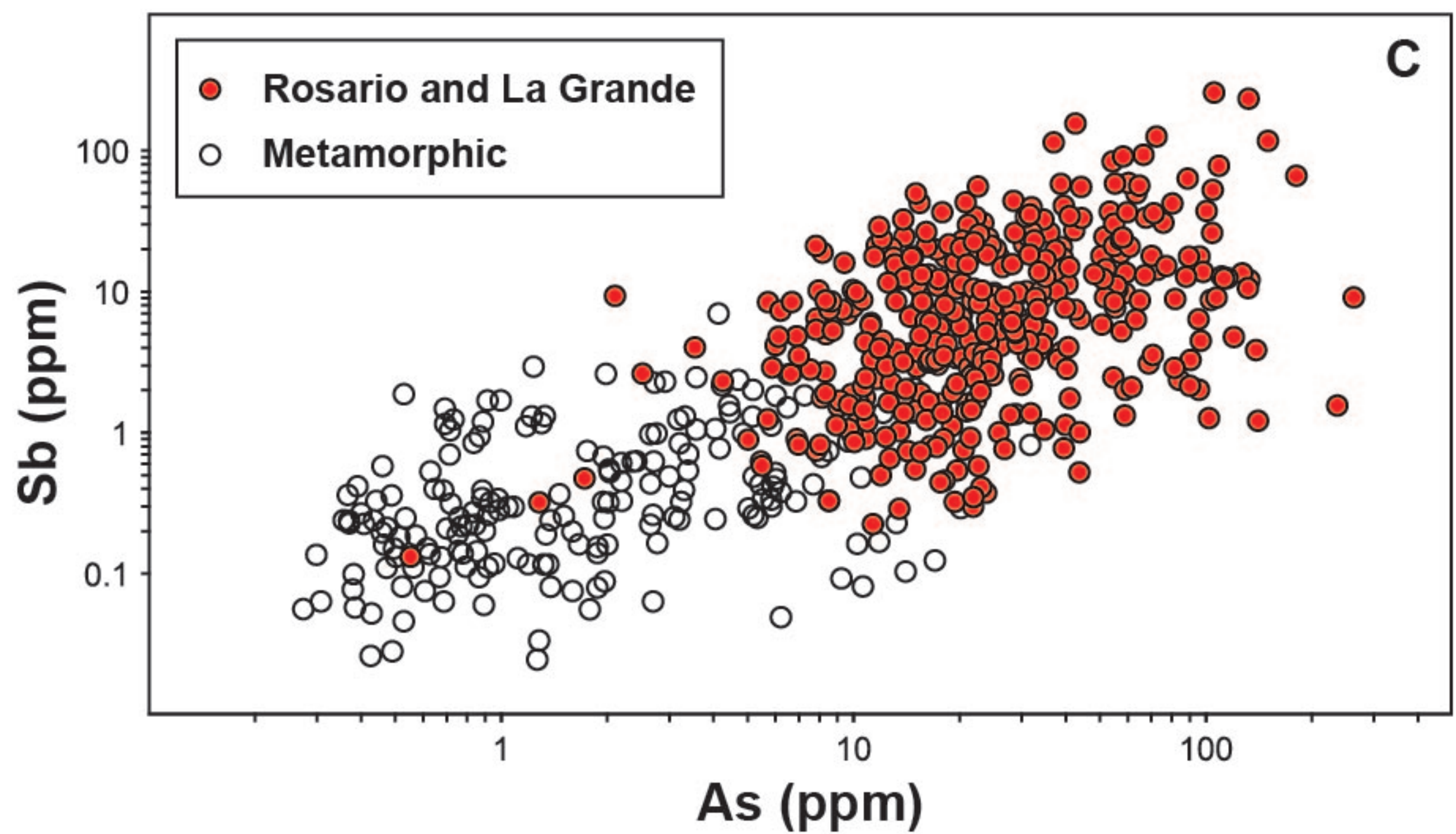
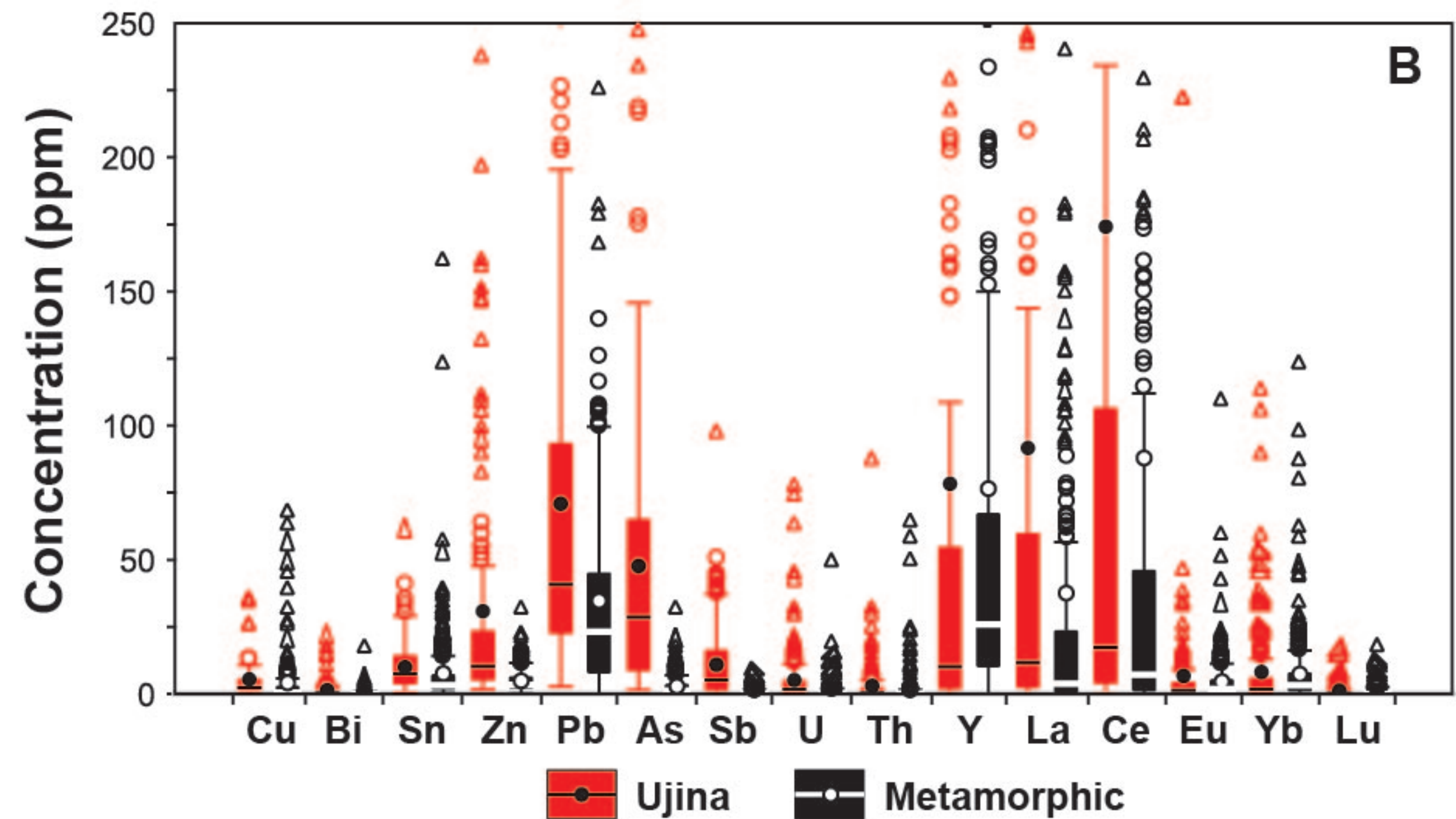
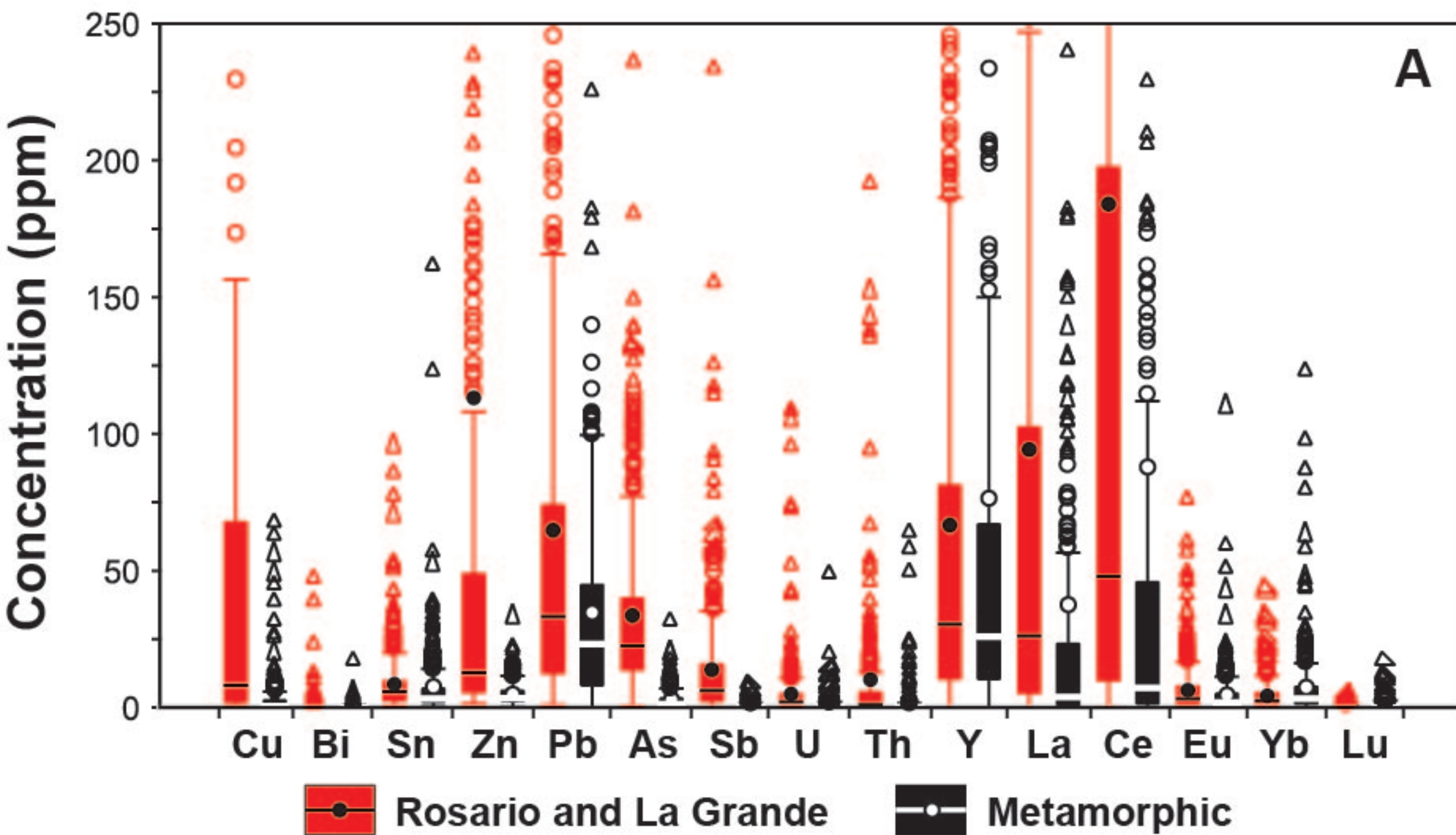
Zr (ppm) - epidote (median)











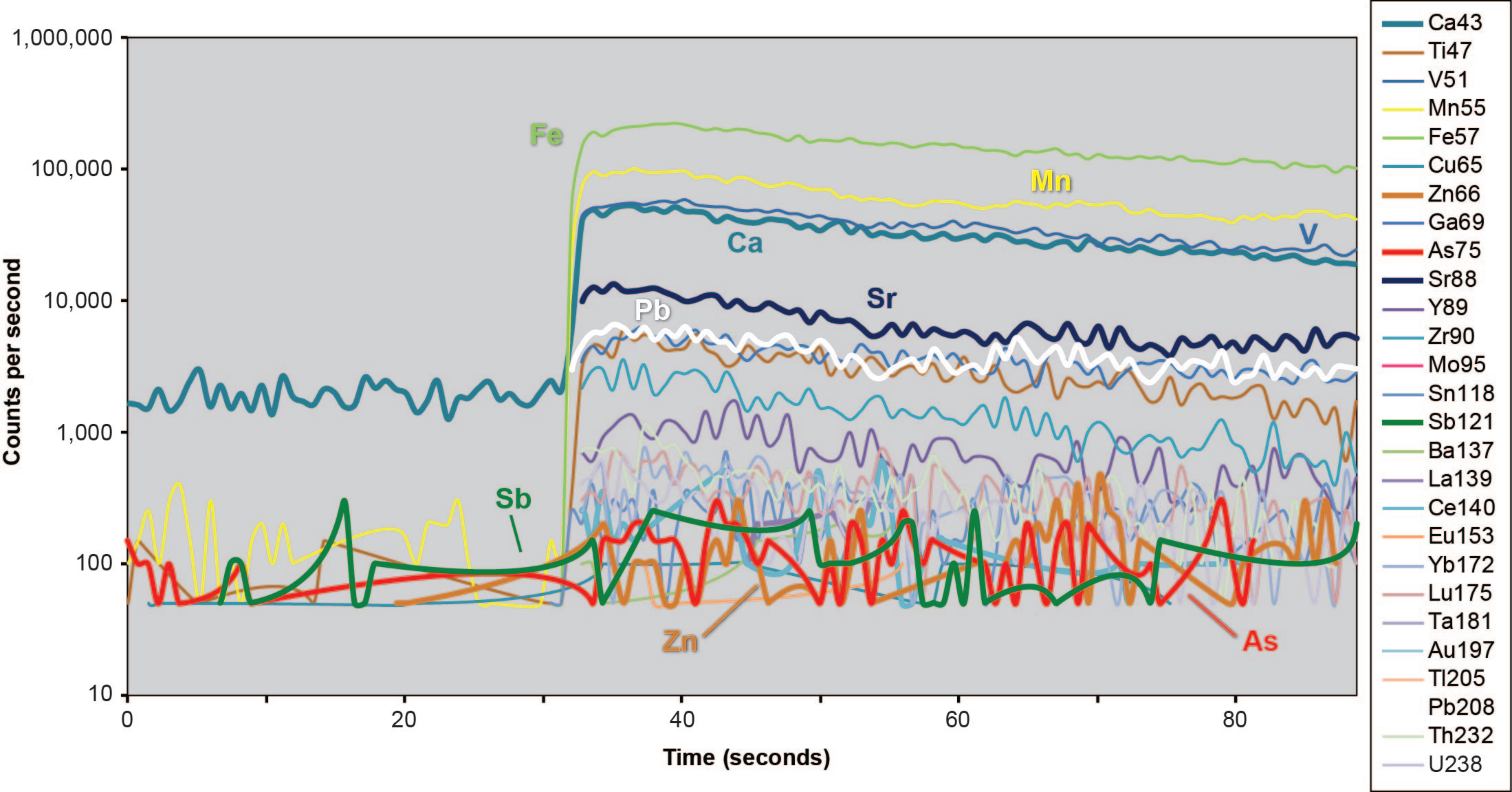


Table 1

Sample ID	Deposit	Rock Type	Alteration	Mineralization	Easting	Northing	Elevation (m a.s.l.)
CL09MB001	La Grande	Diorite	ep-chl		532208	7680514	4650
CL09MB003	La Grande	Rhyolite	ep-chl		532219	7680520	4615
CL09MB005	La Grande	Rhyolite	ep-chl		532004	7680593	4604
CL09MB007	La Grande	Rhyolite	ep-chl, wm		531947	7680796	4637
CL09MB010	La Grande	Dacite	ep	py	532253	7680232	4686
CL09MB012	La Grande	Andesite	ep-chl		530892	7680230	4580
CL09MB015	La Grande	Andesite	ep	py	531001	7680793	4507
CL09MB018	La Grande	Diorite	chl-wm	py	529002	7680499	4339
CL09MB022	La Grande	Dacite	ep-chl	py-mag	528729	7680507	4406
CL09MB024	La Grande	Andesite	act-ep-chl, wm		529398	7680484	4347
CL09MB028	Rosario	Rhyolite	ep-chl		530201	7681692	4492
CL09MB031	Rosario	Dacite	ep	py-bn	531402	7681799	4350
CL09MB032	Rosario	Diorite	ep-qz	py	531150	7681950	4443
CL09MB033	Rosario	Rhyolite	chl, qz-wm		530121	7683954	4364
CL09MB091	Rosario	Andesite	chl		530300	7681894	4512
CL09MB093	Rosario	Andesite	ep-chl, wm		530001	7682192	4443
CL09MB097	Rosario	Diorite	ep-chl	py	529860	7681287	4341
CL09MB098	Rosario	Dacite	ep, qz	py-bn	530677	7681974	4190
CL09MB104	Rosario	Andesite	ep-chl	py	530532	7681234	4396
CL09MB107	Rosario	Diorite	ep-chl	py	530400	7681800	4459
CL09MB038	Ujina	Rhyolite	ep-chl-cb		538209	7679791	4156
CL09MB041	Ujina	Breccia	ep-chl		538205	7677994	4228
CL09MB043	Ujina	Rhyolite	ep-chl, wm		539006	7679191	4124
CL09MB073	Ujina	Volcaniclastic	ep-chl		537607	7680192	4212
CL09MB080	Ujina	Diorite	ep-chl	py-mag	538409	7677290	4190
CL09MB085	Ujina	Rhyolite	ep-chl		538500	7680000	4162
CL09MB111	Ujina	Diorite	ep, chl-wm	py	536809	7678693	4350
CL09MB113	Ujina	Granodiorite	ep-chl	py	538614	7678681	4063
CL09MB125	Ujina	Dolerite	ep-chl		536662	7679827	4502
CL09MB128	Ujina	Dacite	ep-chl		537345	7676250	4548

Mineral abbreviations: act = actinolite, bn = bornite, cb = carbonate, chl = chlorite, ep = epidote, mag = magnetite, py =

Distance to PCD (m)	As (ppm)	Au (ppb)	Cu (ppm)	La (ppm)	Mn (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)
1293	6.7	9.5	2411	14.4	3728	0.19	25.25	0.39
1297	9.3	3.0	1905	14.1	1468	0.45	12.78	1.38
1090	6.5	1.1	416.1	33.4	1343	0.79	15.39	0.67
912	0.7	1.2	120.5	29.5	202	0.10	13.83	0.33
1524	1.3	0.5	46.0	45.2	1438	1.61	169.3	0.13
1191	28.0	0.7	1181	45.9	910	0.28	8.09	0.44
623	2.7	0.6	11.3	45.8	708	1.42	2.8	0.26
2399	4.4	4.8	37.2	16.5	1421	2.89	17.19	0.12
2653	2.9	0.3	16.8	44.5	2221	0.40	88.64	0.21
2042	6.8	0.5	59.4	36.6	1239	0.57	71.47	0.29
1095	12.7	0.9	456.5	28.3	154	0.12	6.8	0.9
541	1.4	6.9	2064	21.1	765	7.59	3.71	0.16
618	1.1	0.8	290.0	21.3	1010	0.69	4.46	0.2
2829	15.4	0.4	17.8	34.8	1370	0.33	8.9	0.37
1082	2.7	0.5	259.8	22.3	971	0.41	16.22	0.46
1498	5.5	0.3	45.4	16.0	1554	0.12	3.61	0.11
1411	3.8	3.6	91.9	23.2	618	0.32	14.55	0.39
937	3.9	14.0	3938	7.1	888	0.74	2.82	0.23
757	10.4	18.6	268.2	36.8	340	1.56	11.06	0.22
958	4.3	1.1	96.7	24.0	1602	0.27	29.53	0.4
1048	0.8	<0.2	84.6	39.8	148	0.53	11.07	0.15
1116	2.4	<0.2	153.9	17.9	375	1.74	8.36	0.22
1420	5.0	1114	577.3	51.3	317	1.80	178.4	0.86
1258	0.9	1.9	194.6	31.7	804	0.67	65.64	0.22
1834	1.2	2.9	48.5	17.9	597	0.36	3.19	0.09
1385	0.8	<0.2	67.9	29.4	128	0.70	11.3	0.12
854	2.5	9.2	2152	15.3	1441	3.55	28.8	0.1
1060	0.4	2.4	1417	17.2	220	0.85	6.14	0.84
1319	10.0	2.4	79.4	29.6	1143	0.19	2.82	0.16
2713	5.2	0.4	3.6	20.7	504	0.40	3.48	0.16

pyrite, qz = quartz, wm = white mica

Sn (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
<1	20.5	778.3	90.6
2	33.3	584.0	273.6
2	37.1	742.4	278.4
<1	32.9	714.5	127.6
2	39.5	587.2	197.4
3	91.0	371.2	445.2
3	56.4	169.6	386.1
1	27.1	567.6	127.0
3	59.7	649.4	467.9
3	40.7	911.0	241.6
3	23.3	220.0	259.0
6	22.0	131.9	160.3
2	18.4	114.1	140.5
2	42.4	209.4	215.9
1	33.6	1124	160.2
<1	15.5	835.8	95.2
2	27.8	231.2	206.4
8	7.0	145.6	38.3
4	43.8	186.0	256.6
1	32.8	651.1	163.0
2	40.5	85.8	182.9
1	20.7	710.6	106.4
3	84.3	323.1	170.2
3	28.8	158.5	253.9
<1	12.6	109.9	122.2
2	32.0	126.5	218.7
5	19.1	668.7	97.0
3	18.4	296.1	96.2
<1	19.9	71.7	96.9
<1	14.1	32.1	104.7

Table 2

Sample ID	Deposit	Rock Type	Alteration	Mineralization	Easting	Northing	Elevation (m a.s.l.)
CL09MB001	La Grande	Diorite	ep-chl		532208	7680514	4650
CL09MB003	La Grande	Rhyolite	ep-chl		532219	7680520	4615
CL09MB005	La Grande	Rhyolite	ep-chl		532004	7680593	4604
CL09MB007	La Grande	Rhyolite	ep-chl, wm		531947	7680796	4637
CL09MB010	La Grande	Dacite	ep	py	532253	7680232	4686
CL09MB012	La Grande	Andesite	ep-chl		530892	7680230	4580
CL09MB015	La Grande	Andesite	ep	py	531001	7680793	4507
CL09MB018	La Grande	Diorite	chl-wm	py	529002	7680499	4339
CL09MB022	La Grande	Dacite	ep-chl	py-mag	528729	7680507	4406
CL09MB024	La Grande	Andesite	act-ep-chl, wm		529398	7680484	4347
CL09MB028	Rosario	Rhyolite	ep-chl		530201	7681692	4492
CL09MB031	Rosario	Dacite	ep	py-bn	531402	7681799	4350
CL09MB032	Rosario	Diorite	ep-qz	py	531150	7681950	4443
CL09MB033	Rosario	Rhyolite	chl, qz-wm		530121	7683954	4364
CL09MB091	Rosario	Andesite	chl		530300	7681894	4512
CL09MB093	Rosario	Andesite	ep-chl, wm		530001	7682192	4443
CL09MB097	Rosario	Diorite	ep-chl	py	529860	7681287	4341
CL09MB098	Rosario	Dacite	ep, qz	py-bn	530677	7681974	4190
CL09MB104	Rosario	Andesite	ep-chl	py	530532	7681234	4396
CL09MB107	Rosario	Diorite	ep-chl	py	530400	7681800	4459
CL09MB038	Ujina	Rhyolite	ep-chl-cb		538209	7679791	4156
CL09MB041	Ujina	Breccia	ep-chl		538205	7677994	4228
CL09MB043	Ujina	Rhyolite	ep-chl, wm		539006	7679191	4124
CL09MB073	Ujina	Volcaniclastic	ep-chl		537607	7680192	4212
CL09MB080	Ujina	Diorite	ep-chl	py-mag	538409	7677290	4190
CL09MB085	Ujina	Rhyolite	ep-chl		538500	7680000	4162
CL09MB111	Ujina	Diorite	ep, chl-wm	py	536809	7678693	4350
CL09MB113	Ujina	Granodiorite	ep-chl	py	538614	7678681	4063
CL09MB125	Ujina	Dolerite	ep-chl		536662	7679827	4502
CL09MB128	Ujina	Dacite	ep-chl		537345	7676250	4548

BDL = below detection limit; mineral abbreviations: act = actinolite, bn = bornite, cb = carbonate, chl = chlorite, ep = epi

Distance to PCD (m)	No. of analyses	As (ppm)	Au (ppm)	Cu (ppm)	La (ppm)	Mn (ppm)	Mo (ppm)	Pb (ppm)
2018	7	11.2-39.0	BDL-0.023	531-5,000	2.69-154	3,657-6,673	BDL-0.198	24.3-56.6
2034	4	14.3-51.0	BDL	205-8,370	0.635-27.2	5,147-7,077	BDL-0.247	44.8-81.3
1895	2	8.30-17.3	BDL-0.029	BDL-57.1	1.50-11.8	1,758-3,278	BDL	11.7-39.8
1973	2	7.83-9.41	BDL-1.56	4.45-69.9	0.190-5.57	616-1,117	BDL	8.01-35.1
1930	2	24.2-28.9	BDL	BDL	6.90-9.59	1,989-2,906	BDL	30.7-35.4
878	7	18.1-57.6	BDL-0.045	54.2-549	24.9-117	1,617-2,644	BDL-0.189	25.5-70.1
1434	10	14.2-44.0	BDL-0.026	BDL	7.47-322	792-3,269	BDL-0.147	0.921-38.8
1843	7	32.0-133	BDL	BDL	0.048-102	1,368-4,744	BDL	84.2-189
2057	9	4.39-83.9	BDL-0.064	BDL	117-342	997-5,107	BDL-0.385	4.45-33.2
1534	3	39.2-181	BDL	BDL	114-308	3,936-6,496	BDL-0.924	83.1-151
1095	5	5.72-72.4	BDL-0.029	BDL-72.7	2.30-61.4	3,310-8,488	BDL	16.9-60.2
541	3	21.6-43.9	BDL	BDL-1.19	0.201-0.949	2,399-3,781	BDL-0.198	20.1-31.1
618	8	6.20-22.0	BDL	BDL-2.00	7.21-205	1,412-2,720	BDL-0.206	12.5-25.5
2829	3	96.7-141	BDL	BDL	69.7-274	1,770-3,876	BDL	55.9-290
1082	5	22.5-64.7	BDL	9.86-51.2	14.9-115	2,339-4,034	BDL-4.12	39.7-84.3
1498	6	55.3-89.5	BDL	BDL-23.1	0.080-8.99	1,093-2,328	BDL	18.6-50.2
1411	6	39.8-236	BDL	BDL-1.50	0.819-120	2,700-9,867	BDL-0.367	33.9-57.4
937	5	1.28-6.68	BDL	BDL-2.56	0.098-79.4	1,207-7,256	BDL-0.238	5.48-15.9
757	8	5.02-55.0	BDL	BDL-2.08	33.2-275	847-3,688	BDL	2.50-11.1
958	5	16.1-58.2	BDL	BDL-0.780	0.907-210	402-3,555	BDL-0.191	13.3-170
1048	2	10.2-35.7	BDL	BDL-0.213	22.2-35.0	5,955-6,386	BDL-0.116	47.5-73.8
1116	9	4.49-45.0	BDL-0.022	BDL	0.593-25.6	1,250-5,014	BDL-0.868	19.3-78.8
1420	6	175-252	BDL	BDL-5.20	210-596	13,082-25,375	0.200-0.525	128-213
1258	8	3.07-15.7	BDL	BDL-3.02	BDL-259	2,641-11,527	BDL-0.258	25.0-65.8
1834	6	23.3-60.5	BDL-0.065	BDL-7.85	15.6-96.8	2,570-7,556	BDL	19.4-50.7
1385	7	6.50-131	BDL-0.070	BDL-35.6	4.75-2,463	3,061-8,075	BDL-0.197	23.3-53.4
854	3	7.76-13.1	BDL	BDL-1.67	5.52-44.0	2,942-3,714	BDL	72.2-94.7
1060	10	2.77-20.5	BDL	BDL-2.41	0.366-60.8	1,680-11,710	BDL-0.309	2.71-45.7
1319	4	83.5-121	BDL	BDL-25.2	37.9-77.6	2,562-3,299	BDL-0.483	153-361
2713	3	62.8-68.0	BDL	BDL-0.839	2.01-20.4	6,370-12,576	BDL-0.144	96.8-113

dote, mag = magnetite, py = pyrite, qz = quartz, wm = white mica

Sb (ppm)	Sn (ppm)	Y (ppm)	Zn (ppm)	Zr (ppm)
6.00-44.1	2.82-5.44	8.99-226	34.2-781	9.81-52.3
3.65-21.7	5.96-11.4	3.79-54.0	17.7-2,285	2.41-10.8
2.70-11.0	4.75-4.78	4.94-7.01	3.68-194	0.412-0.588
0.745-16.0	3.29-6.51	1.01-34.3	37.7-1,346	1.09-63.0
5.80-6.86	4.15-5.24	3.45-8.38	5.60-12.0	1.34-6.26
4.40-32.5	14.2-3.99	16.6-114	39.6-353	1.18-53.0
0.740-16.1	2.33-16.7	13.3-125	BDL-41.9	0.773-203
7.44-39.7	1.10-4.79	BDL-22.0	8.77-73.0	BDL-2.53
BDL-6.91	6.63-25.3	56.6-316	2.30-117	6.69-176
66.4-117	2.27-4.26	20.5-53.0	341-565	1.41-2.45
4.46-126	4.73-28.4	22.1-394	6.61-32.4	5.47-17.6
1.01-3.32	2.03-2.51	0.461-1.11	4.02-20.1	1.36-35.0
2.60-22.5	4.81-11.0	9.28-79.0	5.59-10.9	1.01-16.4
1.21-78.1	5.40-16.8	173-771	5.19-13.0	25.7-323
26.2-56.5	4.49-8.92	28.8-290	47.2-532	6.76-36.2
2.88-17.7	3.99-7.33	0.047-24.5	79.5-835	0.318-194
1.56-26.1	1.97-5.72	3.02-57.8	8.38-26.7	1.31-64.7
0.320-8.44	1.03-95.9	1.88-91.7	7.05-26.1	4.12-84.9
0.225-8.46	5.28-9.36	62.3-272	1.63-9.73	0.349-9.76
1.23-91.0	1.20-4.20	1.85-94.4	12.3-34.1	0.462-6.48
3.31-32.2	13.4-15.5	33.5-72.4	4.86-23.3	0.321-0.394
0.271-15.6	1.40-6.53	0.653-35.9	3.92-196	0.039-191
24.3-51.0	15.0-20.4	229-549	89.0-161	1.60-23.7
2.59-18.5	13.9-33.5	0.861-219	3.42-19.2	0.697-21.8
12.0-42.7	7.26-14.5	10.1-49.7	8.48-47.6	1.14-4.35
1.00-21.1	6.23-26.4	27.1-1,172	22.6-481	0.153-2.64
2.25-7.15	8.93-15.4	12.2-159	108-653	3.04-9.49
BDL-12.7	5.04-9.94	0.334-49.9	3.73-28.8	BDL-0.479
15.8-43.7	1.78-2.69	71.5-176	9.53-55.3	22.3-98.5
6.06-12.9	3.43-6.34	0.917-15.5	13.3-15.7	0.575-0.683

District_Na	Deposit	FIELD_Sample_ID	UTM_East	UTM_North	Elevation_r	Distance_T	UTM_System
Collahuasi	La Grande	CL09MB001	532208	7680514	4650	1293	UTM Zone 18Q
Collahuasi	La Grande	CL09MB002	532208	7680514	4650	1293	UTM Zone 18Q
Collahuasi	La Grande	CL09MB003	532219	7680520	4615	1297	UTM Zone 18Q
Collahuasi	La Grande	CL09MB004	531503	7681204	4629	312	UTM Zone 18Q
Collahuasi	La Grande	CL09MB005	532004	7680593	4604	1090	UTM Zone 18Q
Collahuasi	La Grande	CL09MB006	531803	7680892	4378	739	UTM Zone 18Q
Collahuasi	La Grande	CL09MB007	531947	7680796	4637	912	UTM Zone 18Q
Collahuasi	La Grande	CL09MB008	531946	7680795	4634	912	UTM Zone 18Q
Collahuasi	La Grande	CL09MB009	531938	7680787	4589	910	UTM Zone 18Q
Collahuasi	La Grande	CL09MB010	532253	7680232	4686	1524	UTM Zone 18Q
Collahuasi	La Grande	CL09MB011	532247	7680233	4669	1519	UTM Zone 18Q
Collahuasi	La Grande	CL09MB012	530892	7680230	4580	1191	UTM Zone 18Q
Collahuasi	La Grande	CL09MB013	530892	7680230	4554	1191	UTM Zone 18Q
Collahuasi	La Grande	CL09MB014	530892	7680230	4534	1191	UTM Zone 18Q
Collahuasi	La Grande	CL09MB015	531001	7680793	4507	623	UTM Zone 18Q
Collahuasi	La Grande	CL09MB016	531001	7680793	4502	623	UTM Zone 18Q
Collahuasi	La Grande	CL09MB017	531001	7680793	4430	623	UTM Zone 18Q
Collahuasi	La Grande	CL09MB018	529002	7680499	4339	2399	UTM Zone 18Q
Collahuasi	La Grande	CL09MB019	529002	7680499	4276	2399	UTM Zone 18Q
Collahuasi	La Grande	CL09MB020	529361	7680451	4272	2090	UTM Zone 18Q
Collahuasi	La Grande	CL09MB021	528371	7680388	4265	3030	UTM Zone 18Q
Collahuasi	La Grande	CL09MB022	528729	7680507	4406	2653	UTM Zone 18Q
Collahuasi	La Grande	CL09MB023	528725	7680507	4400	2656	UTM Zone 18Q
Collahuasi	La Grande	CL09MB024	529398	7680484	4347	2042	UTM Zone 18Q
Collahuasi	La Grande	CL09MB025	529393	7680484	4337	2046	UTM Zone 18Q
Collahuasi	La Grande	CL09MB026	529680	7680490	4432	1789	UTM Zone 18Q
Collahuasi	La Grande	CL09MB027	529672	7680490	4416	1796	UTM Zone 18Q
Collahuasi	La Grande	CL09MB034	530416	7678550	4303	2937	UTM Zone 18Q
Collahuasi	La Grande	CL09MB035	530485	7677510	4369	3932	UTM Zone 18Q
Collahuasi	La Grande	CL09MB036	529994	7677496	4635	4068	UTM Zone 18Q
Collahuasi	La Grande	CL09MB037	531585	7681084	4490	449	UTM Zone 18Q
Collahuasi	La Grande	CL09MB057	532052	7679425	4835	2108	UTM Zone 18Q
Collahuasi	La Grande	CL09MB058	532052	7679425	4835	2108	UTM Zone 18Q
Collahuasi	La Grande	CL09MB059	532557	7679257	4875	2490	UTM Zone 18Q
Collahuasi	La Grande	CL09MB060	531810	7679012	4885	2425	UTM Zone 18Q
Collahuasi	La Grande	CL09MB061	531423	7679442	4802	1936	UTM Zone 18Q
Collahuasi	La Grande	CL09MB062	530745	7678645	4842	2768	UTM Zone 18Q
Collahuasi	La Grande	CL09MB063	530630	7678770	4837	2669	UTM Zone 18Q
Collahuasi	La Grande	CL09MB064	530192	7678915	4832	2668	UTM Zone 18Q
Collahuasi	La Grande	CL09MB065	530270	7678581	4899	2951	UTM Zone 18Q
Collahuasi	La Grande	CL09MB066	531556	7678044	4782	3340	UTM Zone 18Q
Collahuasi	La Grande	CL09MB067	529864	7677457	4706	4146	UTM Zone 18Q
Collahuasi	La Grande	CL09MB068	529404	7677114	4667	4633	UTM Zone 18Q
Collahuasi	La Grande	CL09MB069	528446	7676721	4603	5422	UTM Zone 18Q
Collahuasi	La Grande	CL09MB070	528267	7676622	4598	5600	UTM Zone 18Q
Collahuasi	La Grande	CL09MB071	527931	7676015	4551	6293	UTM Zone 18Q
Collahuasi	La Grande	CL09MB090	529972	7680692	4270	1436	UTM Zone 18Q
Collahuasi	La Grande	CL09MB101	531101	7680700	4469	683	UTM Zone 18Q
Collahuasi	La Grande	CL09MB102	531101	7680700	4466	683	UTM Zone 18Q
Collahuasi	La Grande	CL09MB116	532188	7680503	4589	1285	UTM Zone 18Q
Collahuasi	La Grande	CL09MB117	532188	7680503	4577	1285	UTM Zone 18Q

Collahuasi	La Grande	CL09MB118	532188	7680503	4576	1285 UTM Zone
Collahuasi	La Grande	CL09MB119	532259	7680337	4480	1451 UTM Zone
Collahuasi	La Grande	CL09MB121	532217	7680235	4587	1498 UTM Zone
Collahuasi	La Grande	GC221-230	529523	7679741	4432	2365 UTM Zone
Collahuasi	La Grande	GC227a-456	529669	7679997	4205	2084 UTM Zone
Collahuasi	La Grande	GC231-181	530023	7680200	4459	1686 UTM Zone
Collahuasi	La Grande	TJI150404-26	530004	7677505	4569	4056 UTM Zone
Collahuasi	Rosario	CL09MB028	530201	7681692	4492	1095 UTM Zone
Collahuasi	Rosario	CL09MB029	530201	7681692	4486	1096 UTM Zone
Collahuasi	Rosario	CL09MB030	531256	7681748	4509	399 UTM Zone
Collahuasi	Rosario	CL09MB031	531402	7681799	4350	541 UTM Zone
Collahuasi	Rosario	CL09MB032	531150	7681950	4443	618 UTM Zone
Collahuasi	Rosario	CL09MB033	530121	7683954	4364	2829 UTM Zone
Collahuasi	Rosario	CL09MB045	526748	7682727	4517	4692 UTM Zone
Collahuasi	Rosario	CL09MB046	526364	7682108	4421	4934 UTM Zone
Collahuasi	Rosario	CL09MB047	525960	7682243	4434	5354 UTM Zone
Collahuasi	Rosario	CL09MB048	525801	7682197	4446	5503 UTM Zone
Collahuasi	Rosario	CL09MB053	526048	7681909	4385	5224 UTM Zone
Collahuasi	Rosario	CL09MB054	526620	7681565	4409	4628 UTM Zone
Collahuasi	Rosario	CL09MB055	527027	7681438	4429	4217 UTM Zone
Collahuasi	Rosario	CL09MB056	527224	7681273	4481	4018 UTM Zone
Collahuasi	Rosario	CL09MB091	530300	7681894	4512	1082 UTM Zone
Collahuasi	Rosario	CL09MB092	530300	7681894	4504	1083 UTM Zone
Collahuasi	Rosario	CL09MB093	530001	7682192	4443	1498 UTM Zone
Collahuasi	Rosario	CL09MB094	530001	7682192	4435	1499 UTM Zone
Collahuasi	Rosario	CL09MB095	530306	7681439	4460	951 UTM Zone
Collahuasi	Rosario	CL09MB096	529864	7681287	4348	1406 UTM Zone
Collahuasi	Rosario	CL09MB097	529860	7681287	4341	1411 UTM Zone
Collahuasi	Rosario	CL09MB098	530677	7681974	4190	937 UTM Zone
Collahuasi	Rosario	CL09MB099	530677	7681974	4180	941 UTM Zone
Collahuasi	Rosario	CL09MB100	530400	7681294	4410	871 UTM Zone
Collahuasi	Rosario	CL09MB103	530532	7681234	4399	756 UTM Zone
Collahuasi	Rosario	CL09MB104	530532	7681234	4396	757 UTM Zone
Collahuasi	Rosario	CL09MB105	530404	7681093	4323	932 UTM Zone
Collahuasi	Rosario	CL09MB106	530485	7681504	4314	828 UTM Zone
Collahuasi	Rosario	CL09MB107	530400	7681800	4459	958 UTM Zone
Collahuasi	Rosario	CL09MB108	530400	7681800	4456	959 UTM Zone
Collahuasi	Rosario	CL09MB206	531904	7682941	4612	1707 UTM Zone
Collahuasi	Rosario	CL09MB207	532261	7683377	4600	2254 UTM Zone
Collahuasi	Rosario	CL09MB208	532837	7684043	4578	3116 UTM Zone
Collahuasi	Rosario	CL09MB209	533627	7684455	4484	3905 UTM Zone
Collahuasi	Rosario	CL09MB210	535306	7684313	4395	5027 UTM Zone
Collahuasi	Rosario	TJI111104-05	530128	7684028	4640	5456 UTM Zone
Collahuasi	Rosario	TJI131104-09	531255	7684836	4693	5787 UTM Zone
Collahuasi	Rosario	TJI131104-13	531235	7685048	4575	5916 UTM Zone
Collahuasi	Rosario	TJI231005-01	526705	7680401	4585	6554 UTM Zone
Collahuasi	Ujina	CL09MB038	538209	7679791	4156	1048 UTM Zone
Collahuasi	Ujina	CL09MB039	538209	7679791	4141	1051 UTM Zone
Collahuasi	Ujina	CL09MB040	537810	7679793	4210	882 UTM Zone
Collahuasi	Ujina	CL09MB041	538205	7677994	4228	1116 UTM Zone
Collahuasi	Ujina	CL09MB042	538205	7677994	4194	1120 UTM Zone
Collahuasi	Ujina	CL09MB043	539006	7679191	4124	1420 UTM Zone

Collahuasi	Ujina	CL09MB044	539006	7679191	4108	1423 UTM Zone
Collahuasi	Ujina	CL09MB072	539006	7679191	4119	1421 UTM Zone
Collahuasi	Ujina	CL09MB073	537607	7680192	4212	1258 UTM Zone
Collahuasi	Ujina	CL09MB074	537607	7680192	4200	1259 UTM Zone
Collahuasi	Ujina	CL09MB075	537607	7680192	4192	1260 UTM Zone
Collahuasi	Ujina	CL09MB076	538109	7679089	4016	602 UTM Zone
Collahuasi	Ujina	CL09MB077	538315	7679188	4108	769 UTM Zone
Collahuasi	Ujina	CL09MB078	538106	7679293	4021	677 UTM Zone
Collahuasi	Ujina	CL09MB079	537737	7678938	4092	276 UTM Zone
Collahuasi	Ujina	CL09MB080	538409	7677290	4190	1834 UTM Zone
Collahuasi	Ujina	CL09MB081	538409	7677290	4095	1844 UTM Zone
Collahuasi	Ujina	CL09MB082	537710	7679091	4060	332 UTM Zone
Collahuasi	Ujina	CL09MB083	537792	7678507	4126	513 UTM Zone
Collahuasi	Ujina	CL09MB084	537760	7678237	4218	728 UTM Zone
Collahuasi	Ujina	CL09MB085	538500	7680000	4162	1385 UTM Zone
Collahuasi	Ujina	CL09MB086	538500	7680000	4155	1386 UTM Zone
Collahuasi	Ujina	CL09MB087	538500	7680000	4152	1387 UTM Zone
Collahuasi	Ujina	CL09MB088	537793	7679467	4120	596 UTM Zone
Collahuasi	Ujina	CL09MB089	537793	7679467	4106	601 UTM Zone
Collahuasi	Ujina	CL09MB109	538010	7679593	4170	776 UTM Zone
Collahuasi	Ujina	CL09MB110	538614	7679393	4165	1101 UTM Zone
Collahuasi	Ujina	CL09MB111	536809	7678693	4350	854 UTM Zone
Collahuasi	Ujina	CL09MB112	537810	7677989	4180	984 UTM Zone
Collahuasi	Ujina	CL09MB113	538614	7678681	4063	1060 UTM Zone
Collahuasi	Ujina	CL09MB114	538614	7678681	4048	1064 UTM Zone
Collahuasi	Ujina	CL09MB120	538409	7677290	4252	1830 UTM Zone
Collahuasi	Ujina	CL09MB122	538539	7681774	4324	2977 UTM Zone
Collahuasi	Ujina	CL09MB123	538541	7681498	4301	2716 UTM Zone
Collahuasi	Ujina	CL09MB124	538002	7680226	4377	1339 UTM Zone
Collahuasi	Ujina	CL09MB125	536662	7679827	4502	1319 UTM Zone
Collahuasi	Ujina	CL09MB126	536672	7679830	4495	1313 UTM Zone
Collahuasi	Ujina	CL09MB127	536343	7680678	4523	2167 UTM Zone
Collahuasi	Ujina	CL09MB128	537345	7676250	4548	2713 UTM Zone
Collahuasi	Ujina	CL09MB129	537028	7676734	4584	2299 UTM Zone
Collahuasi	Ujina	CL09MB130	537028	7676734	4584	2299 UTM Zone
Collahuasi	Ujina	CL09MB131	537527	7675838	4556	3112 UTM Zone
Collahuasi	Ujina	CL09MB132	537507	7675830	4555	3120 UTM Zone
Collahuasi	Ujina	CL09MB133	537524	7676175	4527	2774 UTM Zone
Collahuasi	Ujina	CL09MB134	537065	7675672	4598	3326 UTM Zone
Collahuasi	Ujina	CL09MB135	536664	7675375	4659	3707 UTM Zone
Collahuasi	Ujina	CL09MB136	536621	7674508	4731	4562 UTM Zone
Collahuasi	Ujina	CL09MB137	537915	7675285	4468	3670 UTM Zone
Collahuasi	Ujina	CL09MB138	537316	7675186	4528	3772 UTM Zone
Collahuasi	Ujina	CL09MB139	537323	7675184	4525	3774 UTM Zone
Collahuasi	Ujina	CL09MB140	536860	7676178	4657	2884 UTM Zone
Collahuasi	Ujina	CL09MB141	536860	7676178	4657	2884 UTM Zone
Collahuasi	Ujina	CL09MB142	537073	7676996	4524	2030 UTM Zone
Collahuasi	Ujina	CL09MB143	536575	7677329	4546	1935 UTM Zone
Collahuasi	Ujina	CL09MB144	536784	7677231	4656	1931 UTM Zone
Collahuasi	Ujina	CL09MB145	536693	7677556	4525	1680 UTM Zone
Collahuasi	Ujina	CL09MB146	536970	7677405	4482	1676 UTM Zone
Collahuasi	Ujina	CL09MB147	534432	7679330	4712	3239 UTM Zone

Collahuasi	Ujina	CL09MB149	538374	7681889	4363	3041 UTM Zone :
Collahuasi	Ujina	CL09MB150	538341	7681498	4359	2655 UTM Zone :
Collahuasi	Ujina	CL09MB151	538187	7681070	4382	2202 UTM Zone :
Collahuasi	Ujina	CL09MB153	537784	7681264	4461	2331 UTM Zone :
Collahuasi	Ujina	CL09MB215A	538409	7678692	4121	852 UTM Zone :
Collahuasi	Ujina	CL09MB225	536897	7678512	4227	854 UTM Zone :
Collahuasi	Ujina	CL09MB226	536885	7678502	3936	953 UTM Zone :
Collahuasi	Ujina	CL09MB227	539453	7676800	4108	2824 UTM Zone :
Collahuasi	Ujina	CL09MB228	537184	7677684	4352	1333 UTM Zone :
Collahuasi	Ujina	CL09MB229	537184	7677684	4234	1337 UTM Zone :
Collahuasi	Ujina	CL09MB230	537408	7677989	4196	988 UTM Zone :
Collahuasi	Ujina	CL09MB231	537184	7677684	4234	1337 UTM Zone :
Collahuasi	Ujina	CL09MB232	537184	7677684	4234	1337 UTM Zone :
Collahuasi	Ujina	CL09MB233	539415	7678798	3973	1833 UTM Zone :
Collahuasi	Ujina	CL09MB234	539415	7678798	4080	1814 UTM Zone :

Rock_Type	Alteration*	Mineralizat	SiO2	Al2O3	Fe2O3	FeO	MgO	CaO
Diorite	ep-chl		52.23	18.65	8.5	7.65	4.6	2.42
Rhyolite	ep-chl, wm		64.81	15.18	4.84	4.356	1.46	2.66
Rhyolite	ep-chl		66.45	15.44	4.77	4.293	1.2	0.47
Dacite	ep-cb		73.84	13.11	2.77	2.493	0.15	0.82
Rhyolite	ep-chl		70.43	14.07	3.23	2.907	0.82	1.4
Diorite	wm-chl	py	57.23	17.75	8.66	7.794	4.35	0.42
Rhyolite	ep-chl, wm		78.94	11.9	1.4	1.26	0.07	0.5
Andesite	ep-chl		51.06	18.01	8.55	7.695	5.68	2.23
Granodiorit	ep		67.26	15.83	3.64	3.276	1.42	1.17
Dacite	ep	py	76.77	11.89	1.62	1.458	0.37	0.32
Rhyolite	ep-hem-chl	py	77.83	12.06	1.32	1.188	0.25	0.27
Andesite	ep-chl		62.22	14.86	6.54	5.886	2.26	2.71
Andesite	ep-chl, mag		52.65	17.85	9.84	8.856	4.4	5.32
Andesite	ep		54.62	15.06	10.34	9.306	2.28	13.2
Andesite	ep	py	59.63	14.85	8.45	7.605	1.66	3.09
Dacite	ep		62.57	13.2	8.3	7.47	2.31	4.59
Granodiorit	ep	py	71.6	13.87	3.09	2.781	0.4	0.8
Diorite	chl-wm	py	53.24	15.82	11.83	10.647	4.52	7.28
Andesite	ep, chl-wm	py-mag	56.12	13.69	11.84	10.656	2.84	4.84
Diorite	ep-chl	py	51.94	17.74	11.13	10.017	3.21	5.75
Rhyolite	ep-chl	py	56.83	15.43	7.74	6.966	2.18	4.11
Dacite	ep-chl	py-mag	62.65	13.95	8.61	7.749	2.35	3.74
Dacite	ep-chl, wm		60.61	14.97	8.35	7.515	2.23	3.3
Andesite	act-ep-chl, wm		53.25	17.23	10.05	9.045	2.54	6.65
Andesite	chl-wm, hem		47.46	17.89	14.84	13.356	3.95	6.3
Diorite	ep-chl, wm	py	53.35	19	9.43	8.487	3.42	3.6
Diorite	ep-chl	ep	51.89	17.46	11.12	10.008	2.71	8.2
Rhyolite	ep-chl	wm, chl	74.24	13.12	3.17	2.853	0.15	0.08
Diorite	ep-chl	chl	65.83	15.08	5.05	4.545	2.57	0.9
Diorite	ep-chl	ep-chl-cb	58.36	16.75	7.59	6.831	3.48	0.6
Dacite	act-chl-cb		65.7	16.3	3.75	3.375	0.91	0.6
Andesite	chl		66.78	12.01	7.17	6.453	1.95	2.94
Diorite	ep-chl		59.16	14.4	9.07	8.163	0.97	7.94
Granodiorit	ep-chl		76.04	12.27	1.77	1.593	0.11	0.56
Andesite	ep		54.53	13.29	10.71	9.639	2.43	9.41
Andesite	ep-chl, cb		55.06	13.39	9.33	8.397	3.63	10.29
Granodiorit	ep-chl	mo, py	65.45	13.69	6.78	6.102	0.65	1.31
Andesite	ep-chl-cb		58.52	16.8	7.06	6.354	1.26	6.88
Andesite	ep		62.81	13.07	8.29	7.461	1.19	2.88
Andesite	ep-chl		56.92	15.15	9.3	8.37	2.91	3.47
Granodiorit	bt, wm-chl		76.43	12.03	2.17	1.953	0.18	0.17
Andesite	ep-chl		76.53	12.38	2.18	1.962	0.01	0.09
Diorite	chl		62.28	14.92	8.01	7.209	1.62	1.7
Andesite	chl, bt		67.71	13.25	5.66	5.094	0.68	0.26
Andesite	chl, bt		73.18	12.86	3.3	2.97	0.34	0.27
Granodiorit	chl		59.49	15.5	6.74	6.066	2.48	3.29
Breccia	chl	py-mag	71.13	15.89	2.42	2.178	0.71	0.13
Andesite	ep-hem	py	52.85	13.89	15.69	14.121	5.58	2.95
Andesite	ep-chl-wm	py	58.23	14.28	10.87	9.783	3.12	3.1
Volcaniclas	ep-chl		69.81	16.06	2.14	1.926	0.86	0.38
Diorite	ep-chl		52.82	19.56	8.06	7.254	4.71	0.69

Rhyolite	ep-chl		68.9	16.22	2.74	2.466	0.65	0.97
Andesite	ep-chl		50.13	20.14	9.57	8.613	6.04	1.13
Rhyolite	ep		73.88	12.85	2.7	2.43	0.26	0.48
Andesite		py-cpy	58.32	13.06	9.63	8.6654508	3.1	6.45
dacite		py-cpy	72.74	13.23	3.11	2.7984997	0.46	0.51
Andesite		py-cpy	51.93	16.86	10.49	9.4393124	3.63	6.28
Andesite	ep	py-cpy	61.84	13.72	8	7.198713	1.69	3.94
Rhyolite	ep-chl		80.52	9.82	2.01	1.809	0.14	0.85
Rhyolite	ep-chl		65.31	17.63	2.53	2.277	0.89	0.8
Granodiorit	ep-chl, wm	cpy-bn	61.06	15.18	7.78	7.002	1.6	3.42
Dacite	ep	py-bn	65.97	13.46	5.1	4.59	1.76	4.81
Diorite	ep-qz	py	56.63	17.61	6.01	5.409	4.79	5.36
Rhyolite	chl, qz-wm		53.86	17.27	9.22	8.298	2.9	3.12
Ignimbrite			72.97	13.98	2.92	2.628	0.08	0.09
Rhyolite	chl		78.21	11.42	1.51	1.359	0.13	0.05
Rhyolite	chl		76.89	12.05	1.71	1.539	0.12	0.03
Rhyolite	chl		76.28	12.08	1.92	1.728	0.11	0.06
Rhyolite	chl		68	15.65	4.57	4.113	0.08	0.3
Rhyolite	ep-chl		73.08	14.19	2.69	2.421	0.09	0.17
Rhyolite	chl		72.87	14.07	2.6	2.34	0.1	0.18
Rhyolite	chl		73.39	13.93	2.67	2.403	0.09	0.15
Andesite	chl		57.53	16.06	7.16	6.444	4.28	4.45
Diorite	ep-chl		56.68	16.17	8.1	7.29	4.2	4.43
Andesite	ep-chl, wm		50.2	19.72	9.14	8.226	6.14	2.03
Monzodiorite	ep		48.79	18.49	9.94	8.946	4.31	5
Andesite	ep-chl		63.21	16.55	8.47	7.623	2.35	0.13
Diorite	ep-chl	py	69.92	13.8	4.13	3.717	1.12	1.13
Diorite	ep-chl	py	70.79	13.53	4.11	3.699	0.98	3.51
Dacite	ep, qz	py-bn	68.68	4.48	15.78	14.202	1.25	5.28
Dacite	ep, qz	py-bn	48.87	6.12	29.18	26.262	1.12	11.53
Andesite	chl-wm	py	62.78	13.55	10.34	9.306	1.16	0.79
Diorite	chl		63.63	14.08	10.04	9.036	1.8	1.02
Andesite	ep-chl	py	64.96	13.23	9.84	8.856	1.39	1.71
Dacite	chl	py	68.29	12.61	8.29	7.461	1.46	0.1
Andesite	chl	py	71.93	14.16	2.88	2.592	0.45	0.25
Diorite	ep-chl	py	55.44	16.14	8.63	7.767	4.08	3.62
Diorite	ep-chl		55.44	15.97	8.6	7.74	4.17	5.5
Dacite	chl		66.89	15.78	4.51	4.059	0.59	0.45
Breccia	chl		49.91	9.58	1.23	1.107	0.6	18.11
Rhyolite	chl		75.77	13.13	1.61	1.449	0.23	0.27
Rhyolite	chl		74.5	12.49	2.23	2.007	0.42	1.05
Andesite	chl		57.63	18.22	6.63	5.967	2.49	5.75
Andesite	ep		51.94	19.66	7.02	6.3168707	1.85	9.82
Andesite	ep		47.64	14.66	17.84	16.05313	0.08	15.21
Andesite	ep		46.27	15.47	12.99	11.68891	3.27	11.78
Andesite	ep		44.85	11.37	8.94	8.0445618	1.72	19.2
Rhyolite	ep-chl-cb		75.3	12.64	1.69	1.521	0.18	0.52
Rhyolite	ep-chl-cb		75.82	12.45	1.66	1.494	0.12	0.43
Granodiorite	ep-chl-cb	py	64.54	16.96	5.6	5.04	1.25	1.31
Breccia	ep-chl		68.78	15.2	3.82	3.438	1.5	2.08
Andesite	ep-chl	py	61.38	16.21	7.56	6.804	2.27	1.96
Rhyolite	ep-chl, wm		75.5	12.05	2.22	1.998	0.24	1.86

Rhyolite	ep-chl, wm	py	76.3	12.56	1.72	1.548	0.24	0.26
Dacite	ep-chl	py	77	11.72	1.83	1.647	0.53	0.82
Volcaniclas	ep-chl		71.85	14.11	2.47	2.223	0.73	1.6
Diorite	ep	py	65.58	13.71	7.95	7.155	0.77	2.28
Diorite	ep		70.79	14.3	3.06	2.754	0.71	1.12
Rhyolite	ep	py	76.88	12.88	1.56	1.404	0.26	0.12
Granodiorit	ep-chl		76.38	12.7	2.2	1.98	0.28	0.1
Diorite	chl	py	55.45	19.6	8.31	7.479	4.4	0.76
Diorite	chl		67.8	16.96	2.11	1.899	0.77	1.66
Diorite	ep-chl	py-mag	69.3	15.59	2.89	2.601	1.42	1.22
Breccia	ep-chl		71.7	13.12	2.43	2.187	0.95	2.13
Diorite	chl		69.4	16.25	1.26	1.134	1	1.52
Diorite	chl		70.57	16.06	1.4	1.26	0.62	1.62
Diorite	chl		77.62	11.19	1.48	1.332	0.45	0.08
Rhyolite	ep-chl		76.95	12.11	1.63	1.467	0.37	0.39
Rhyolite	ep-chl		77.33	12.21	1.44	1.296	0.33	0.49
Rhyolite	ep-chl	py	78.74	11.9	1.37	1.233	0.23	0.21
Diorite	ep-chl	py	55.64	18.1	9.86	8.874	3.12	1.01
Andesite	chl-wm	py	54.54	17.36	12.11	10.899	2.25	1.62
Granodiorit	chl	py	63.7	18.05	4.81	4.329	1.4	1.82
Granodiorit	chl-wm		65.53	15.95	5.16	4.644	1.45	0.93
Diorite	ep, chl-wm	py	56.1	17.77	8.15	7.335	4.86	1.88
Granodiorit	chl-wm	py-bn	53.3	17.22	9.06	8.154	4.84	0.9
Granodiorit	ep-chl	py	71.02	14.28	3.71	3.339	1.26	0.71
Granodiorit	ep-chl	py-bn	70.57	15.13	2.8	2.52	1.4	1.41
Breccia	ep		70.82	14.28	2.81	2.529	1.15	1.32
Rhyolite	chl-wm		76.86	12.42	1.62	1.458	0.11	0.12
Ignimbrite			64.99	16.25	4.59	4.131	1.06	3.89
Rhyolite	chl-wm		76.26	12.28	1.58	1.422	0.12	0.02
Dolerite	ep-chl		51.43	16.5	8.11	7.299	6.4	5.87
Rhyolite	ep-chl		75.88	12.25	1.76	1.584	0.19	0.69
Dolerite	ep-chl		51.38	16.44	8.04	7.236	6.18	6.21
Dacite	ep-chl		71.41	14.63	2.55	2.295	0.9	1.44
Dolerite	chl		53.34	17.84	7.48	6.732	5.07	2.76
Dacite	chl		70.28	14.88	2.63	2.367	1.08	1.17
Dacite	chl		72.66	14.15	2.17	1.953	0.71	1.29
Dacite	chl		72.22	14.32	2.33	2.097	0.64	1.16
Dacite	chl		70.47	14.76	2.67	2.403	1.08	1.01
Andesite	ep-chl		67.36	15.88	4.15	3.735	1.14	1.97
Andesite	ep-chl		56.33	17.2	7.53	6.777	3.11	6.85
Monzodiori	chl		60.72	16.11	6.24	5.616	2.81	4.41
Granodiorit	ep, qz-cb		59.76	16.59	6.33	5.697	2.88	5.4
Dolerite	chl-hem		46.57	14.49	9.18	8.262	9.26	8.41
Monzodiori	ep-chl		57.44	17	6.81	6.129	2.91	3.94
Dolerite	ep-chl		51.25	17.81	8.47	7.623	5.03	6.39
Granodiorit	chl		70.65	14.72	2.6	2.34	0.89	1.54
Breccia	ep-chl		59.82	16.78	6.28	5.652	3.41	3.26
Granodiorit	ep		68.97	15.66	3	2.7	1.23	1.76
Breccia	ep-chl		70.23	14.63	2.63	2.367	1.41	1.75
Andesite	chl, qz-wm		78.62	12.15	2.31	2.079	0.32	0.01
Rhyolite	chl, wm		74.4	13.35	1.82	1.638	0.53	0.97
Diorite	chl		45.08	17.48	11.76	10.584	6.38	9.85

Dolerite	chl		51.17	17.34	8.64	7.776	6.94	5.53
Dolerite	chl		48.72	18.36	8.88	7.992	3.07	6.32
Dolerite	chl		48.13	17.53	9.6	8.64	6.51	8.3
Dolerite	chl		57.73	19.1	6.58	5.922	2.43	3.1
Diorite	chl	py	63.52	16.65	6.02	5.418	2.66	1.81
Diorite	wm, chl	py	57.27	17.8	9.25	8.325	2.48	0.99
Andesite	chl		58.01	15.53	11.23	10.107	3.44	1.17
Granodiorit	chl-wm	py	60.73	14.84	5.3	4.77	3.07	3.62
Granodiorit	ep-cb		70.64	14.63	2.58	2.322	1.07	1.55
Granodiorit	ep-cb		66.54	15.22	4.47	4.023	1.63	2.24
Diorite	chl, wm	py	53.13	18.54	9.37	8.433	6.28	0.73
Diorite	ep-chl		59.98	15.9	6.74	6.066	3.16	3.43
Diorite	ep-chl		61.54	15.71	6.31	5.679	3.22	3.62
Basalt	chl		46.15	17.35	9.58	8.622	6.18	7.94
Dacite	chl		61.44	16.14	5.65	5.085	2.55	2.63

Na2O	K2O	TiO2	P2O5	MnO	LOI	TOTAL C	TOTAL S	Sum
4.71	3.22	0.78	0.17	0.5	3.5	0.01	<0.01	99.26
4.97	2.64	0.83	0.27	0.24	1.6	<0.01	<0.01	99.53
5.36	3.24	0.83	0.06	0.19	1.4	<0.01	0.02	99.44
5.67	2.27	0.43	0.09	0.05	0.6	<0.01	<0.01	99.79
4.56	3.36	0.48	0.1	0.2	0.9	0.01	0.19	99.61
1.45	3.14	0.86	0.16	0.06	5.3	<0.01	1.93	99.43
6.29	0.18	0.09	0.01	0.04	0.4	<0.01	<0.01	99.83
2.26	4.95	0.98	0.37	0.61	4.2	<0.01	<0.01	98.95
6.85	1.01	0.53	0.13	0.2	1.5	<0.01	0.07	99.53
1.83	5.78	0.13	0.02	0.2	0.8	0.03	0.15	99.68
5.2	1.88	0.1	0.01	0.05	0.9	0.01	0.13	99.85
2.46	3.48	1.19	0.36	0.14	3.2	<0.01	<0.01	99.48
4.6	0.6	1.16	0.22	0.23	2.9	<0.01	<0.01	99.75
0.37	0.39	1.11	0.24	0.21	1.9	<0.01	<0.01	99.73
3.1	5.25	1.51	0.58	0.14	1.4	0.01	0.01	99.64
3.08	1.53	1.49	0.64	0.22	1.8	0.02	0.06	99.73
4.22	4.54	0.34	0.06	0.03	0.8	<0.01	0.09	99.74
1.78	0.82	1.12	0.23	0.36	2.7	0.14	0.1	99.67
3.41	1.21	2.15	0.96	0.36	2.2	0.07	0.5	99.61
3.58	2.1	1.49	0.3	0.3	2.1	0.12	<0.01	99.65
4.97	2.59	1.3	0.38	0.3	3.9	0.64	0.03	99.75
2.72	1.32	1.17	0.34	0.36	2.4	0.12	0.17	99.65
2.38	3.68	1.24	0.34	0.32	2.2	0.08	0.04	99.61
2.72	3.14	1.48	0.44	0.27	1.7	0.02	0.11	99.51
2.75	1.81	1.47	0.43	0.54	2.2	0.12	<0.01	99.61
0.87	2.69	1.57	0.55	0.61	4.5	0.01	0.34	99.54
1.19	1.13	1.36	0.41	0.28	3.8	0.01	0.55	99.53
0.11	5.47	0.15	0.04	0.03	3.2	0.03	0.27	99.76
4.67	2.89	0.49	0.12	0.17	2	0.06	0.01	99.76
3.63	3.14	0.84	0.19	1.44	3.2	<0.01	0.32	99.21
4.15	6.05	0.81	0.19	0.04	1.2	<0.01	0.03	99.67
3.16	2.74	1.15	0.39	0.19	1.3	<0.01	0.01	99.79
2.76	2.63	0.96	0.33	0.12	1.4	<0.01	<0.01	99.75
3.2	5.06	0.13	0.02	0.06	0.6	0.01	<0.01	99.81
3.24	0.08	1.6	0.51	0.22	3.8	0.48	0.03	99.81
2.56	1.09	1.9	0.37	0.23	1.9	<0.01	<0.01	99.73
3.42	5.27	1.1	0.34	0.41	1.2	<0.01	<0.01	99.6
2.62	4.13	0.65	0.13	0.16	1.5	<0.01	<0.01	99.7
3.21	4.6	1.43	0.59	0.09	1.6	<0.01	0.01	99.74
3.73	3.92	1.39	0.48	0.33	2	<0.01	<0.01	99.58
3.01	4.78	0.15	0.02	0.02	0.7	<0.01	<0.01	99.69
5.17	2.91	0.12	0.02	0.01	0.4	<0.01	<0.01	99.83
5.77	2.21	1.3	0.28	0.14	1.4	<0.01	<0.01	99.62
1.54	9	0.84	0.14	0.05	0.6	<0.01	<0.01	99.69
3.73	5.39	0.3	0.05	0.02	0.4	0.01	<0.01	99.82
6.89	1.25	1.14	0.26	0.13	2.6	0.34	0.01	99.83
0.13	3.98	0.63	0.16		4.5	<0.01	1.25	99.68
1.88	0.96	1.65	0.49	0.3	3.5	<0.01	0.02	99.71
3.74	2.15	1.66	0.5	0.17	1.9	<0.01	0.06	99.73
5.3	3.18	0.32	0.02	0.11	1.5	0.09	0.01	99.64
4.16	4.06	0.74	0.05	1.02	3.4	0.01	0.02	99.33

5.59	3.03	0.26	0.02	0.19	1.1	0.02	0.02	99.69
1.57	2.65	0.93	0.45	0.91	5.9	0.01	<0.01	99.48
5.78	1.91	0.39	0.07	0.2	1.3	<0.01	<0.01	99.82
0.94	2.47	1.59	0.46	0.79	2.9			99.78
4.46	3.37	0.4	0.07	0.09	1.4			99.92
2.55	2.17	1.51	0.48	0.29	3.4			99.68
1.67	4.18	0.72	0.19	0.54	3.1			99.79
4.21	0.72	0.28	0.04	0.04	1.2	<0.01	0.01	99.78
5.14	5.64	0.5	0.09	0.12	1	<0.01	0.01	99.63
7.52	0.17	0.77	0.18	0.44	1.5	0.21	0.72	99.64
5.24	0.97	0.5	0.09	0.19	1.5	0.15	0.91	99.59
3.78	2.1	0.81	0.28	0.16	2.2	0.02	0.54	99.73
7.66	0.86	1.04	0.34	0.18	3.3	0.46	0.01	99.78
5.21	3.51	0.36	0.09	0.04	0.6	<0.01	<0.01	99.87
1.91	5.67	0.09	0.03	0.03	0.8	<0.01	<0.01	99.88
1.8	6.49	0.12	0.02	0.03	0.5	<0.01	0.03	99.76
1.94	6.45	0.12	0.02	0.04	0.6	<0.01	0.06	99.62
6.68	3.06	0.61	0.18	0.03	0.7	<0.01	0.02	99.84
5.2	3.65	0.33	0.07	0.01	0.4	<0.01	<0.01	99.86
4.35	4.39	0.34	0.07	0.02	0.8	<0.01	0.02	99.81
5.01	3.79	0.33	0.08	0.02	0.4	<0.01	<0.01	99.85
3.53	2.71	1	0.22	0.24	2.3	<0.01	0.01	99.52
4.31	2.54	1.01	0.22	0.2	1.6	<0.01	<0.01	99.52
5.14	2.18	0.76	0.24	0.21	3.8	<0.01	0.07	99.54
4.02	2.92	1.81	0.6	0.31	3.2	<0.01	0.03	99.38
0.08	3.88	0.9	0.05	0.11	4	<0.01	0.79	99.71
2.5	4.74	0.44	0.1	0.12	1.7	0.05	0.57	99.69
4.08	0.49	0.43	0.09	0.12	1.7	0.02	0.41	99.83
0.15	0.68	0.24	0.07	0.2	2.7	0.25	3.7	99.49
0.04	0.03	0.24	0.13	0.44	1.9	0.74	3.33	99.64
0.15	3.9	1.35	0.48	0.05	5.1	0.01	4.38	99.7
2.09	2.19	1.49	0.54	0.05	2.8	<0.01	0.06	99.73
0.58	3.54	1.08	0.47	0.05	2.8	0.04	0.69	99.66
0.19	3.31	1.2	0.06	0.0077472	4.1	0.02	3.24	99.62
3.96	4.83	0.29	0.07	0.03	0.9	<0.01	0.58	99.72
4.05	3.32	0.99	0.23	0.29	2.8	<0.01	1.41	99.57
2.96	2.66	0.98	0.21	0.55	2.4	0.11	0.65	99.5
6.02	3.82	0.8	0.2	0.05	0.7	0.01	<0.01	99.8
4.27	0.85	0.41	0.1	0.07	14.8	<0.01	<0.01	99.9
4.93	3.34	0.17	0.02	0.03	0.4	3.81	0.01	99.89
3.25	4.49	0.14	0.03	0.06	1.2	0.04	<0.01	99.85
3.73	2.66	0.73	0.28	0.16	1.3	0.15	<0.01	99.62
5.74	0.1	0.81	0.18	0.16	2.5			99.79
1.5	0.04	1.23	0.43	0.15	0.9			99.68
3.6	0.12	1.9	0.57	0.28	3.2			99.47
0.82	0.29	1.26	0.33	0.36	10.5			99.66
2	6.55	0.13	0.02	0.03	0.7	0.01	0.33	100.04
3.31	4.87	0.12	0.02	0.03	1	0.01	0.29	99.81
2.27	2.18	0.43	0.2	0.02	4.9	0.02	3.09	99.67
3.19	3.2	0.42	0.12	0.07	1.3	<0.01	0.15	99.67
3.91	2.47	0.77	0.21	0.2	2.7	0.08	0.47	99.65
1.04	5.38	0.12	0.04	0.16	1	<0.01	0.2	99.57

1.46	6.08	0.12	0.02	0.04	1	<0.01	0.41	99.79
2.52	4.12	0.12	0.02	0.05	1	0.01	0.25	99.78
5.49	2.18	0.34	0.07	0.16	0.8	0.05	0.03	99.81
4.07	2.56	0.39	0.1	0.21	2.1	0.03	2.25	99.76
5.6	2.41	0.36	0.08	0.12	1.3	0.05	0.57	99.84
0.64	4.8	0.11	0.08	0.0041318	1.4	0.02	0.57	98.78
0.35	5.17	0.12	0.03	0.0033571	2.1	0.01	0.71	99.5
0.34	3.6	0.76	0.25	0.08	6.1	0.04	0.57	99.63
4.96	2.51	0.32	0.12	0.07	1.9	0.07	0.55	99.23
6.02	1.13	0.34	0.11	0.08	1.8	0.17	0.27	99.88
3.04	3.61	0.25	0.05	0.1	2.5	0.36	0.01	99.87
4.76	3.87	0.33	0.12	0.01	0.9	0.02	0.3	99.38
4.72	3.75	0.28	0.14	0.03	0.6	0.02	0.11	99.78
0.23	4.17	0.12	0.12	0.0024533	1.6	<0.01	1.37	97.04
1.96	5.06	0.15	0.03	0.03	1.2	<0.01	0.24	99.86
2.59	4.52	0.14	0.05	0.04	0.7	<0.01	0.03	99.83
2.81	3.4	0.13	0.03	0.01	1	<0.01	0.17	99.82
0.11	2.31	1.91	0.54	0.08	6.5	0.03	1.67	99.19
1.2	1.69	1.38	0.43	0.09	6.4	0.03	3.26	99.13
2.79	1.51	0.44	0.18	0.02	4.9	0.02	1.92	99.64
1.14	5.14	0.69	0.19	0.02	3.4	<0.01	2.42	99.64
1.63	2.19	0.77	0.18	0.21	5.6	0.01	2.16	99.34
2.46	4.17	1.78	0.62	0.04	5.2	0.01	4.28	99.59
1.82	3.33	0.35	0.11	0.04	3	<0.01	1.74	99.59
2.23	3.24	0.42	0.12	0.12	2.3	<0.01	0.41	99.72
3.24	3.86	0.35	0.1	0.21	1.6	0.01	0.67	99.73
3.36	4.36	0.12	0.02	0.02	0.8	0.1	<0.01	99.82
3.74	3.4	0.58	0.16	0.08	1.1	0.01	<0.01	99.78
0.12	7.53	0.13		0.04	1.7	<0.01	<0.01	99.78
4.38	2.45	0.77	0.25	0.18	3.3	<0.01	<0.01	99.69
3.37	4.41	0.12	0.02	0.04	1.1	0.15	0.04	99.84
4.78	1.84	0.77	0.26	0.13	3.6	0.11	0.01	99.69
4.79	2.79	0.27	0.08	0.09	0.9	0.25	0.01	99.8
6.54	1.71	0.74	0.26	0.2	3.8	0.01	<0.01	99.73
4.96	3.04	0.3	0.1	0.08	1.3	0.33	0.02	99.8
4.03	3.48	0.25	0.07	0.07	0.9	0.12	<0.01	99.8
4.57	3.4	0.25	0.07	0.07	0.8	0.05	<0.01	99.79
4.93	3.03	0.29	0.09	0.08	1.4	0.05	<0.01	99.82
5	2.32	0.47	0.11	0.09	1.2	0.06	0.01	99.74
2.91	2.9	0.82	0.24	0.13	1.6	0.06	<0.01	99.65
4.25	2.49	0.7	0.16	0.12	1.8	<0.01	0.01	99.76
3.68	2.55	0.71	0.16	0.11	1.6	<0.01	0.02	99.74
2.79	2.21	0.72	0.37	0.14	5.3	0.01	<0.01	99.53
3.91	3.06	0.75	0.18	0.1	3.6	0.46	0.01	99.72
5.39	0.88	0.84	0.34	0.17	3.1	0.48	<0.01	99.73
4.15	2.78	0.28	0.09	0.07	2.1	0.06	<0.01	99.84
3.01	3	0.59	0.13	0.44	2.7	0.23	0.02	99.38
4.48	3.23	0.33	0.1	0.09	0.9	0.01	<0.01	99.8
3.47	3.82	0.35	0.09	0.08	1.3	<0.01	<0.01	99.8
0.08	4.15	0.12	0.02	0.04	2	0.04	<0.01	99.87
2.89	4.71	0.22	0.05	0.05	0.8	<0.01	<0.01	99.77
2.94	1.43	1.2	0.28	0.17	3	<0.01	<0.01	99.61

3.61	2.73	0.79	0.16	0.22	2.5	<0.01	0.01	99.69
5.11	2.39	0.85	0.37	0.18	5.2	0.05	<0.01	99.46
2.97	1.49	0.89	0.24	0.14	3.9	0.83	0.04	99.69
4.22	2.64	0.62	0.4	0.18	2.6	<0.01	<0.01	99.63
2.95	2.15	0.63	0.2	0.09	2.7	0.02	0.01	99.86
1.12	1.32	1.22	0.36	0.19	7.1	0.58	0.01	99.14
0.99	3.36	1.37	0.38	0.24	3.7	0.02	2.53	99.4
4.3	2.58	0.68	0.14	0.14	4.4	0.06	0.95	99.77
3.38	4.22	0.36	0.1	0.08	1.2	0.72	0.19	99.82
4.12	3.47	0.42	0.12	0.13	1.4	<0.01	0.09	99.79
0.3	1.1	0.8	0.19	0.08	8.8	0.02	0.52	99.32
2.83	2.8	0.72	0.15	0.18	3.8	0.03	0.98	99.7
2.44	2.34	0.66	0.15	0.19	3.5	0.2	0.98	99.65
3.29	1.58	0.88	0.27	0.18	6.3	0.12	1	99.69
3.56	3.83	0.71	0.18	0.13	2.9	0.71	0.01	99.74

Ag_ppb	As_ppm	Au_ppb	B_ppm	Ba_ppm	Be_ppm	Bi_ppm	Cd_ppm	Ce_ppm
242	6.7	9.5	2	1159	0.5	0.14	0.8	31.7
118	7.9	2.8	3	792	0.8	0.07	0.95	66.9
782	9.3	3	4	1134	0.5	0.07	0.83	30.4
57	32.1	1.1	2	265	0.9	0.06	0.4	87.1
148	6.5	1.1	2	790	0.4	0.07	1.94	71
304	5.8	5.5	3	1097	0.8	1.19	0.07	37.9
278	0.7	1.2	2	24	0.4	0.32	0.9	65.6
448	2.5	0.7	3	1159	1.8	0.04	8.9	98.1
151	1.6	0.7	2	118	0.4	0.06	35.74	70.3
467	1.3	0.5	1	961	0.7	0.23	4.82	100
215	3.5	0.8	2	211	0.6	0.3	0.18	78.2
51	28	0.7	6	746	0.3	0.1	0.89	113
35	5.4	0.8	6	137	0.4	0.06	0.05	47.4
50	4 <0.2		15	79	0.4	0.05	0.2	74.2
14	2.7	0.6	5	1349	1.2	0.03	0.04	107.1
64	3.8	0.6	4	373	0.7	0.07	0.05	102.5
75	2.6	0.3	4	1274	0.4	0.08	0.05	67.7
108	4.4	4.8	14	85	0.7 <0.02		0.07	40.7
767	9.6	5	1	334	0.5	0.3	0.87	104.3
79	2.9	1	2	646	0.6	0.03	0.19	46.7
72	2.1	0.7	2	509	0.7	0.02	0.12	66.5
138	2.9	0.3	2	216	0.5	0.22	1.5	110
68	2.4 <0.2		2	739	0.7	0.09	0.51	124.8
223	6.8	0.5	5	892	0.7	0.09	0.96	87.2
61	7.6	0.3	2	429	0.7	0.03	0.08	60.3
567	8.5	1.4	4	506	0.6	0.43	3.5	87.2
558	10.4	1.3	5	328	0.4	0.39	4.61	74.8
354	36.6	0.9	3	1114	0.2	0.11	0.05	67.7
169	1.1 <0.2		3	820	0.9	0.06	0.04	28.6
3773	3.1	7.9	2	508	0.5	1.33	73.81	67.1
66	1.4 <0.2		1	994	0.4	0.05	0.35	60.8
85	4.6 <0.2		27	453	1.3	0.25	0.34	70.2
76	2.8 <0.2		13	299	1.1	0.09	0.28	119.6
37	3.4 <0.2		1	845	0.5	0.12	0.39	79.9
15	7.6 <0.2		10	45	0.5	0.05	0.08	61.2
27	1.6	0.8	12	121	0.2	0.12	0.07	43.8
372	2.8 <0.2		4	990	0.8 <0.02		2.37	112.5
47	5.6 <0.2		13	677	0.8	0.08	0.4	62.3
406	2.5 <0.2		7	560	3 <0.02		0.17	101.1
83	4.4 <0.2		7	708	1 <0.02		1.31	86
1156	0.6 <0.2		2	798	0.3	0.17	0.2	65.3
113	0.7 <0.2		<1	294	0.1	0.08	0.03	64.3
45	13.4 <0.2		4	1070	0.9	0.04	0.36	56.2
229	1.6	3.1	2	1811	0.6	0.08	0.36	31.9
152	0.8	1.3 <1		933	0.2	0.03	0.15	36
157	3	1.9	2	251	0.4	0.07	0.5	55.7
107	1.5	3.2	2	620	0.1	0.15	0.03	43.1
11	4.8	0.4	5	329	0.9	0.04	0.03	52.7
74	4	0.3	4	467	0.8	0.09	0.24	56.6
342	1.8	0.4	2	454	0.5	0.1	1.12	47.7
273	4.1 <0.2		3	642	0.8	0.13	0.71	25.7

35	5.1	0.4	3	580	0.6	0.15	1.06	51.2
277	1.2 <0.2		3	571	1.5	0.37	0.15	52.5
64	2.8	1.6	2	250	0.5	0.07	0.07	84.3
33	3.3	0.4	4	561	0.9	0.01	0.09	50.3
368	10.6	1.9	3	634	0.3	0.11	1.72	58.4
994	7.1	1.7	3	674	0.9	0.07	0.26	86
35	7	4	2	1030	0.6	0.13	2.24	25.9
247	12.7	0.9	2	135	0.4	0.43	0.18	76.7
137	4.2	1.2	2	1164	0.5	0.09	0.14	68.2
913	2.2	6.2	2	30	0.7	0.44	0.26	24.3
1374	1.4	6.9	1	117	0.2	0.28	0.58	47.7
203	1.1	0.8	3	165	0.8	0.19	0.08	51.4
18	15.4	0.4	2	244	0.5	0.41	0.1	83.9
21	1.8 <0.2		3	497 <0.1	<0.02		0.05	51.7
2	1.8 <0.2		2	533	0.1 <0.02		0.04	18.6
28	5.4	0.3	2	1512	0.2 <0.02		0.04	51.7
12	3.7 <0.2		2	2802	0.3 <0.02		0.06	48.9
8	5.8 <0.2		3	569	0.2 <0.02		0.08	58.1
5	4.6 <0.2		3	451	0.2 <0.02		0.04	76
9	2.7	1.2	3	725	0.2 <0.02		0.03	64.4
7	2.6 <0.2		3	502	0.1 <0.02		0.03	100.2
45	2.7	0.5	3	712	0.3	0.06	2.5	50.8
44	4.1	0.2	4	605	0.6 <0.02		4.27	49.2
79	5.5	0.3	4	885	0.7	0.03	2.04	37.8
170	5.4	1.2	9	850	0.8 <0.02		0.16	70
190	8.4	6	3	723	0.3	0.67	3.69	28.2
160	3.2	2.9	2	1191	0.1	0.13	0.37	61.3
194	3.8	3.6	5	69	0.2	0.11	0.16	55.1
3631	3.9	14 <1		46	0.4	6.24	0.67	15.5
1317	1.7	3.7	1	1	0.5	6.61	1.83	35.3
179	7.9	3.1	1	741	0.6	1	0.38	126.2
78	0.5	8	2	434	0.3	0.03	6.07	73.9
162	10.4	18.6	3	919	0.9	0.22	0.08	83.8
395	22.4	11.5	2	512	0.5	0.89	0.09	111.9
88	0.3	1.9	1	1449	0.2	0.18	0.04	46
129	4.3	1.1	1	896	0.4	0.84	2.28	53
130	2.3	2.8	4	560	0.9	0.32	0.99	45.4
18	13.5	0.5	3	558	0.4	0.07	0.06	86
247	17.5	0.3	82	107	2.6	0.14	1.72	43.3
26	1 <0.2		2	433	0.8 <0.02		0.07	59
15	0.9 <0.2		3	773	0.3 <0.02		1.16	36.3
19	0.6 <0.2		3	1087	0.2	0.04	0.02	43.3
33	40.7	1.4	12	25	0.6	0.02	0.18	31.1
20	3.7	2.4	6	40	1	0.02	0.08	52.3
942	216.8	3	9	38	0.7	0.03	0.09	68.8
3836	11.2	6.9	11	58	0.5	0.14	2.9	50.4
65	0.8 <0.2		2	1033	0.4	0.13	0.27	85.7
77	0.7 <0.2		1	801	0.6	0.35	0.26	73.5
361	0.1 <0.2		2	749	0.9	1.5	0.14	45.6
120	2.4 <0.2		2	650	0.5	0.43	60.83	37.7
81	1.8	0.4	1	491	0.6	0.44	0.46	45.7
18021	5	1114.3 <1		1576	0.8	1.19	0.67	109.7

163	6.8	6.7 <1		973	0.5	0.19	0.26	83.4
125	0.9	1.9	1	832	0.3	0.28	0.16	63.8
531	0.9	1.9	2	411	0.4	0.48	0.29	66.7
2052	16.1	13.8	2	205	0.5	4.41	0.11	49.5
393	2.3	3.3	2	616	0.3	1.87	0.21	55
1283	1	21.1	1	697	0.6	0.2	0.12	122.3
166	1.2	5.1	1	623	0.3	0.07	0.05	83.3
133	0.3	2.5	3	336	0.8	0.05	0.09	47.7
1915	1	17.1	1	866	0.3	0.23	0.28	30.9
279	1.2	2.9	2	133	0.2	0.05	0.09	35.5
137	1	1.3	2	470	0.5	0.21	0.07	37.4
1441 <0.1		41.1	1	656	0.3	1.06	0.05	32.9
126	0.3	3 <1		735	0.2	0.18	0.11	33.6
1311	26.6	6.8 <1		1115	0.2	0.43	0.34	79.8
20	0.8 <0.2		1	765	0.4	0.09	0.07	67.8
26	0.6 <0.2	<1		875	0.3	0.03	0.12	80.3
77	0.9	1.7	2	541	0.5	0.15	0.23	69.4
625	2	9	3	642	1.2	0.1	0.11	89.7
989	6.4	13.9	4	298	2.2	0.15	0.14	76.1
147	0.3	2.3	4	477	0.9	0.24	0.12	40
194	0.2	3.2	2	1003	0.5	0.16	0.05	59.3
1106	2.5	9.2	4	243	1	2.2	0.55	33.3
118	0.2	2.4	1	475	0.8	0.53	0.06	115.5
576	0.4	2.4	2	817	0.2	0.37	0.1	37.1
148	0.5	2.4	3	965	0.5	0.18	0.18	41.5
164	3.2	0.2	3	1025	0.4	0.14	2.66	40
17	4.4	0.3	3	738	0.3	0.14	0.11	84.1
11	1.2 <0.2		5	669	0.4 <0.02		0.25	49.4
19	1.6 <0.2		2	1190	0.4	0.07	0.02	78.3
45	10	2.4	6	536	0.9	0.03	0.15	59.9
23	0.9	2.8	2	542	0.8	0.17	0.47	84.9
45	10.1	0.5	3	460	0.6 <0.02		0.04	58.8
14	5.2	0.4	3	883	0.4	0.04	0.05	40
65	5.8	1.3	2	442	0.8	0.03	0.21	49.4
18	1.5	0.6	2	732	0.4	0.07	0.02	41.1
11	2.3	0.5	2	923	0.3	0.04	1.57	41.6
13	3.5 <0.2		2	912	0.4	0.05	0.08	42.5
14	3 <0.2		2	776	0.3	0.04	0.08	40.7
10	2.7	0.6	2	833	0.2	0.05	0.06	38.5
107	5.3 <0.2		5	1109	0.2	0.13	0.07	53.9
35	1.8 <0.2		4	580	0.6	0.04	0.11	53
25	1.5 <0.2		3	591	0.3	0.06	0.04	50.3
15	9.5	2.3	4	1283	1	0.03	0.07	154.2
30	1.4	3.2	2	822	0.5	0.06	0.05	51.7
30	7.7	1.8	6	338	1	0.07	0.28	46.5
16	1.9	1	2	642	0.3	0.04	0.07	38.4
524	2.5	1	3	930	0.3	0.05	1.88	35.4
21	1.4	1.2	3	754	0.4	0.04	0.24	38.7
52	1.1	1.1	3	766	0.3	0.05	0.21	42.1
1431	2.1	6.2	2	323	0.3	1.84	0.07	16.9
160	1.2	1.6	3	1032	0.2	0.45	0.16	51
65	4.3	2.2	6	698	0.6	0.03	0.13	28.5

25	6	1	3	345	0.2	0.03	0.11	25.3
32	8.9	1.2	3	2366	0.2	0.06	0.61	41.1
24	9.9	2.4	7	455	0.7	<0.02	0.09	43.9
439	6.5	0.4	3	1097	7.7	0.07	3.83	58
499	0.7	4.1	4	644	0.7	0.27	0.1	65.3
244	6	0.7	3	207	1.8	0.85	0.41	59.7
808	1.9	2.4	2	581	0.7	0.17	0.12	82.6
261	0.9	2.3	1	498	0.5	0.08	0.08	50.8
54	2.3	0.7	1	717	0.3	0.18	0.13	42.3
139	2.6	1.5	1	750	0.3	1.02	0.12	42.2
236	0.9	0.4	4	76	0.4	0.13	0.16	25.1
393	0.8	2.2	1	469	0.5	0.38	0.17	55.6
629	1.3	7.3	3	641	0.5	0.44	0.18	63.8
53	10.2	1.6	4	494	0.6	<0.02	0.06	62.4
35	2	<0.2	2	766	0.5	0.09	0.03	58.8

Co_ppm	Cr_ppm	Cs_ppm	Cu_ppm	Dy_ppm	Er_ppm	Eu_ppm	Ga_ppm	Gd_ppm
26.6	31.5	0.9	2410.87	3.52	1.97	1.03	21.5	3.55
5.7	6.5	1.7	1337.95	7.24	4.47	1.81	15.6	7.23
4	4.3	2.3	1905.21	5.09	3.76	0.97	18	3.82
0.8	9.9	0.6	67.87	6.93	3.98	1.34	11.7	6.98
4.3	10.7	2.1	416.12	5.7	3.77	1.03	13.4	5.26
27.9	15.3	1.7	815.84	3.51	2.39	0.96	21.7	3.4
0.4	10.8	1.5	120.53	4.99	3.25	0.4	13.3	4.64
29	121	2.6	717.47	8.93	4.48	2.38	18.6	10.57
7.6	4.5	1	18.03	8.69	5.62	1.26	18.5	7.33
0.8	9.7	2.7	45.98	6.65	4.3	0.8	15.5	6.73
1.1	11.7	2.3	38.32	4.79	3.09	0.46	12.6	5.04
6.2	10.4	0.7	1180.62	14.81	9.31	2.15	21.8	12.66
16.3	34.4	0.3	17.1	6.43	4.11	1.2	18.7	5.16
5.6	19.4	0.2	26.17	6.71	3.84	1.78	25.7	6.62
4.5	17.1	0.6	11.28	9.67	5.89	1.92	15.4	10.26
3.9	10.6	0.8	80.75	10.04	6.33	2.03	16.7	10.22
2.3	11.8	0.4	106.36	7.17	5.12	1.23	15.1	6.08
18.4	36.3	1.5	37.23	4.66	2.82	1.19	19.9	4.62
18.9	3	1	357.02	10.45	6.41	2.62	21.3	11.53
12.7	16.1	1.1	48.77	5.6	3.23	1.46	21	5.5
10.6	3.8	1.2	6.31	8.35	5.03	2.09	20.9	7.94
8.3	11.5	2.3	16.83	10.28	6.46	2	20.6	10.42
9.2	12.3	1.8	17.56	11.88	7.72	2.36	20.7	11.83
13.8	17	1.4	59.38	7.32	4.19	1.98	20.6	8.37
15.8	19.8	1.4	20.2	6.68	4.08	1.66	18.2	6.94
15	10.8	2	163.81	8.18	4.53	1.96	20.2	8.66
19	13.6	1.6	346.84	6.31	3.65	1.74	19.1	7.05
0.4	5	3.6	79.56	3.78	2.46	0.76	13.3	4.57
5.2	7.3	1.3	15.66	5.12	2.96	0.85	18.6	4.3
17.6	61.7	1.5	646.59	4.76	2.97	1.3	20.8	5
3	6.4	2	230.2	5.94	3.87	1.18	16.7	5.72
17.3	17.6	0.6	59.23	6.83	4.69	1.13	10.9	7.09
3.2	17.7	0.4	46.9	11.49	6.12	5.17	26.9	12.14
0.5	15	2.1	60.31	5.57	3.77	0.6	12.9	5.69
14	4.7	0.2	2.44	6.53	4.03	1.71	17.6	6.86
12.5	9.5	0.2	38.82	5.36	3.17	1.47	17.8	5.64
8	6.6	1.4	265.72	10.13	6.65	2.13	13.7	10.83
7	15.7	1.1	7.69	5.06	3.01	1.31	20.7	5.37
7.6	10.2	1.6	107.76	9.13	5.39	1.91	12.1	9.46
15.5	18.3	2.5	21.79	8.9	5.46	2.03	17.8	9.43
0.9	11.8	1.2	1054.34	4.78	2.92	0.9	12.6	5.35
0.2	18.4	0.5	433.05	5.25	3.28	0.65	12.5	5.41
4.9	5.5	0.8	55.8	5.8	3.67	1.75	15.5	6.26
2.5	11.8	1.1	7.59	5.2	3.92	0.96	10.9	4.25
1.3	25.3	0.7	5.56	1.54	1.16	0.5	11.3	2.23
11.2	9.6	0.7	7.48	6.14	3.45	1.65	15.5	5.8
9.3	1.7	1.4	1224.37	4.68	2.57	1	15.6	5.24
26.4	0.8	0.5	8.96	6.46	3.96	1.46	17.7	6.39
51.5	2	0.2	146.66	7.42	4.46	1.7	19.7	7.09
0.9	1.9	15.1	928.1	8.2	5.7	1.12	16.7	7.27
26.6	30.2	1.5	2012.77	2.54	1.46	0.71	20.1	2.89

2	5.8	2.4	577.01	6.99	5.28	0.95	19	5.79
16.1	53.6	2.4	24.53	3.91	2.37	1.28	20	4.75
2	12.4	0.7	19.62	6.16	3.7	1.32	13.6	6.88
15.6	2.1	0.6	22.48	6.34	3.81	1.36	17.2	6.48
5.4	6.8	0.8	268.33	8.9	4.7	1.48	12.4	8.69
17.7	23.6	0.5	875.8	7.06	4.17	1.62	15.6	8.08
5	3.8	2.1	513.35	5.04	3	1.2	13.6	4.24
0.6	6.8	0.8	456.52	3.82	2.77	1.01	8.5	4.29
3.2	5.1	5	376.46	9.16	5.91	1.65	25	8.17
12.7	9.1	0.2	1588.63	5.38	3.19	0.96	20	4.63
7.9	9.3	0.3	2064.15	3.77	2.36	0.64	14.4	3.46
7.7	70.4	8.2	289.96	3.35	1.81	1.18	20	3.86
21	7.6	1.1	17.75	6.95	3.99	1.88	22.9	7.26
0.9	4	2.5	5.89	3.74	2.25	1.03	11.3	4.55
0.5	3.3	4.7	94.48	2.8	2.12	0.29	9.7	2.08
0.3	4.9	6.9	8.9	5.92	3.88	0.65	14.5	5.27
0.3	8.5	8.8	2.53	6.08	4.27	0.55	12.5	5.12
1.7	4.5	1.6	71.54	4.34	2.91	1.09	14.4	4.53
0.5	5.1	3	11.57	9.34	5.84	1.3	14.6	7.55
0.4	4	3.5	45.92	3.96	2.82	0.81	14.7	4.4
0.4	6.2	1.9	4.25	5.17	3.71	1.44	13.2	7.09
14.3	52.3	1.1	259.8	5.79	3.6	1.39	16.4	5.78
21.3	41.5	4.3	282.66	5.55	3.42	1.34	16.9	5.55
35.7	56.6	2.8	45.4	2.91	1.66	1	19.5	3.3
29.1	29	1.3	120.91	7.57	4.54	1.94	19.5	8.03
12.9	16.4	1.9	360.5	4.26	2.96	0.9	14.9	3.97
4.4	3.9	0.6	68.44	5.33	3.47	1.13	13.1	5.45
3.1	3.1	0.3	91.86	4.74	3.22	1.07	16.1	4.74
17.3	10.3	0.2	3938.14	1.28	0.78	0.46	11.7	1.46
35.4	8.2 <0.1		1662.09	2.04	1.13	0.57	12.5	2.51
13	1.5	0.8	235.98	10.95	6.05	2.49	17.1	12.24
2.6	0.5	0.8	305.88	9.49	6.05	1.87	15.8	8.1
13.9	13.5	2	268.15	7.92	4.29	2.2	16.3	8.66
6.4	3.6	1	1367.46	8.28	5.82	2.14	11.7	9.5
2.8	6.1	1.3	102.39	3.97	2.91	1.03	13.1	3.8
25.2	46.5	0.8	96.68	5.6	3.49	1.52	16.1	5.75
23.9	39	2.9	23.34	5.08	3.25	1.3	17	5.15
5.4	8.8	2	3.1	6.51	4.01	1.44	14.6	6.71
6.2	16.2	0.7	10.02	3.69	1.84	2.76	7.4	5.67
1	13.6	1.1	1.36	2.73	1.72	0.61	12.1	3.28
1.2	9.2	1.7	2.4	2.86	1.88	0.4	11.6	2.52
11.3	2.8	1.8	353.05	3.28	1.97	1.2	18	3.84
15.5	14.9	0.5	28.19	3.51	1.9	1.11	21.8	3.58
3.4	12.2	0.3	36.14	6.42	3.55	2.3	33.5	6.63
33.7	14.2	0.4	3746.4	7.64	4.55	2.39	21.8	8.09
12.4	16.5	0.9	2316.09	5.89	3.45	1.5	16.3	5.68
0.7	5.7	1.6	84.55	6.81	4.27	0.76	13.6	6.75
0.6	7.8	1.6	41.2	5.76	3.74	0.68	12.5	5.86
5.8	2.3	3.4	743.77	1.53	0.78	0.79	20.1	2.43
5.8	10.7	4.1	153.85	3.37	2.16	0.73	14.3	3.08
8.1	2.2	3	97.7	4.19	2.56	1.22	16.2	4.42
1.1	10	3.7	577.32	12.71	8.43	1.18	16.7	10.67

	1	9	4.4	37.73	7.02	4.39	0.61	14.1	6.68
	1.4	7.5	1.6	125.28	5.53	3.57	0.66	12.6	5.2
	3.7	12.3	1.3	194.55	4.88	3.26	1	13.7	4.97
	4	8.1	5.5	840.35	3.23	2.22	1.03	15.7	3.45
	3.9	9.7	2.4	16.09	4.18	2.63	1.03	13	4.4
	2	5.4	2.5	9613.02	7.64	4.52	0.86	9.4	8.19
	2.5	3.4	2	2786.7	6.54	3.84	0.73	15.3	6.96
	13.8	49.1	8	769.7	6.79	3.49	1.53	18.4	6.76
	4.7	4.5	4	3758.32	0.92	0.45	0.61	17.8	1.51
	6.7	4.7	5.6	48.46	1.95	1.32	0.57	10.9	2.13
	4.4	9.6	4.4	34.13	3.21	2.29	0.5	11.8	2.94
	2.4	6.3	1.3	3263.46	1.07	0.61	0.63	15.3	1.74
	2.7	4.7	1	120.98	1.11	0.63	0.65	18.9	1.53
	8	2.8	1.2	>10000.00	6.98	4.17	0.86	14.3	6.6
	0.7	6.7	5.7	67.9	5.14	3.41	0.66	14.5	4.7
	0.4	8	4.4	50.64	5.63	3.42	0.86	14.2	5.39
	0.3	5.3	4.9	58.51	5.09	3.26	0.73	12.5	5.04
	19	25.2	6.4	3114.44	9.12	5.53	1.89	19.9	8.85
	37.3	23	6.7	4560.37	7.41	4.59	1.83	18.4	7.89
	12.4	2.9	6.3	473.21	2.61	1.38	1.15	19.5	3.32
	7.7	2.8	3.8	734.22	4.95	3.23	1.22	18	5.13
	21.3	50.1	3.5	2151.78	3.31	2.01	0.96	19.6	3.48
	15.3	39.6	2.8	546.02	4.16	1.92	2.01	19.6	6.55
	6.2	3.9	3.2	1416.57	2.71	1.94	0.58	14.8	2.65
	3.3	8.4	3.3	186.11	3.3	2.07	0.82	14.6	3.23
	4.2	6.1	4.5	20.97	2.61	1.87	0.63	12.3	2.89
	0.3	6.3	2.8	7.3	6.2	3.96	0.68	14.4	6.23
	9.5	10.5	6.6	36.99	2.46	1.39	0.82	16.6	3.16
	0.2	2.4	5.8	9.17	5.37	3.58	0.61	14.1	5.19
	28.2	72.4	0.9	79.44	3.3	1.74	1.37	16.5	4.61
	0.5	7.2	1.7	5.49	12.23	8.5	0.72	14.7	12.1
	26.2	57.3	2.6	85.71	3.17	1.62	1.39	16.8	4.47
	3.4	8.4	1.4	3.59	2.06	1.4	0.61	13.2	2.34
	24.2	71.5	0.8	39.05	3.05	1.72	1.14	17.9	3.87
	4.4	5.5	2.5	8.5	2.25	1.38	0.63	12.8	2.39
	3	9.9	2.8	1.71	2.26	1.51	0.56	13.1	2.58
	2.8	9.5	1.9	2.1	2.24	1.47	0.56	12.9	2.51
	3.6	6.7	2.4	1.5	2.14	1.34	0.64	13.4	2.45
	7.1	11.8	3.9	7.96	2.55	1.54	0.82	13	2.84
	12.3	35.5	4.1	106.21	4.2	2.43	1.21	15.2	4.65
	10.5	20.3	2.3	37.28	3.89	2.38	1.01	15.8	4.22
	9.1	20.5	4.6	58.09	3.54	2.24	1.04	15.6	4.11
	37.2	154.4	4.3	19.73	3.98	1.65	2.68	14.1	8.39
	16.9	21.2	6.5	67.67	3.58	2.23	1.06	16.4	3.92
	22.8	70.4	1.9	82.24	2.97	1.61	1.23	19.4	3.86
	3.2	2.9	5.2	2.46	1.9	1.26	0.57	13.5	1.83
	17.7	10.1	1.4	209.14	3.61	2.33	1.05	16.4	3.77
	4.4	7	3.2	3.78	2.24	1.49	0.73	14.2	2.28
	5.9	9.2	2.7	8.97	3.46	2.35	0.68	13.6	3.21
<0.1		2.1	5.1	83.47	2.51	2.19	0.13	14.1	1.66
	1.7	12.9	3.2	14.14	3.66	2.43	0.74	12.8	3.67
	25.9	6.8	1.1	90.66	3.41	1.9	1.37	17.7	3.93

23.7	71.6	12	13.09	2.95	1.83	0.92	15.4	3.18
16.8	1	3	29.13	3.56	1.96	1.43	17.7	4.09
31.3	113.3	3.4	95.07	3.33	1.82	1.3	17.6	3.97
11.8	1.8	2.2	83.33	6.46	4.26	1.7	18.6	7.07
10.1	9.9	4.2	1493.09	3.57	2.33	1.19	17	4.57
30.1	20	4.8	315.15	5.84	3.56	1.44	17.5	6.4
19.3	20.3	4.4	2383.24	8.04	4.71	1.81	16.5	8.25
16	20.4	3.6	64.97	2.6	1.59	0.68	12.7	3.27
5.2	8	3.6	29.22	2.94	1.9	0.64	13.8	3.07
11.5	10.2	1.8	89.12	3.33	2.34	0.79	15	3.42
32	90.7	9.2	726.42	1.55	1.03	0.52	18.4	1.87
18.3	26.4	2.6	399.96	2.76	1.56	0.72	15	3.49
22.2	25	1.2	415.14	3.77	2.5	0.89	15.4	4.42
30.1	33.6	6	87.41	3.46	2.11	1.42	17.2	4.46
14.1	8	7.1	44.65	4.16	2.5	1.09	15.9	4.7

Ge_ppm	Hf_ppm	Hg_ppb	Ho_ppm	In_ppm	La_ppm	Li_ppm	Lu_ppm	Mn_ppm
<0.1		2.4 <5		0.74 <0.02		14.4	20.1	0.29 3728
<0.1		6.8 <5		1.54 0.03		30.9	6.6	0.69 1606
<0.1		7.1 <5		1.15 0.04		14.1	6.9	0.65 1468
<0.1		6.4 <5		1.41 <0.02		40.9	1	0.61 250
<0.1		7.7 <5		1.26 <0.02		33.4	3.9	0.64 1343
<0.1		4.3 <5		0.75 0.06		17.6	8.5	0.4 393
<0.1		4.9 <5		1.07 <0.02		29.5	0.5	0.55 202
	0.2	3.4	9	1.65 0.03		47.7	19.4	0.57 4732
<0.1		9 <5		1.84 0.02		34.2	5.6	0.91 1448
<0.1		6.7 <5		1.41 0.03		45.2	1.5	0.75 1438
<0.1		5 <5		1 <0.02		34.2	1.7	0.59 384
	0.1	11.8 <5		3.17 0.03		45.9	5.8	1.29 910
<0.1		3.6 <5		1.32 0.03		18.9	11.5	0.58 794
<0.1		3.9 <5		1.38 0.03		38.7	3.5	0.53 301
	0.1	10.2 <5		2.01 <0.02		45.8	4.1	0.84 708
	0.1	9.7 <5		2.12 <0.02		43.7	5.7	0.95 981
<0.1		6.4 <5		1.62 <0.02		29	0.5	0.81 170
<0.1		3.4 <5		0.93 <0.02		16.5	10	0.4 1421
<0.1		9 <5		2.21 0.05		43.1	9.4	0.95 1290
<0.1		4.6 <5		1.12 <0.02		19.3	4.1	0.46 1159
	0.1	7.3 <5		1.71 0.03		27	16.4	0.74 2205
<0.1		12.6 <5		2.13 <0.02		44.5	20.4	0.98 2221
	0.1	12.6 <5		2.47 <0.02		50.8	22.2	1.1 1897
	0.1	6.2 <5		1.46 0.06		36.6	6.6	0.57 1239
<0.1		5.9 <5		1.36 0.02		23.1	9.8	0.59 2048
<0.1		7.3 <5		1.61 0.03		34.5	8.9	0.65 4456
<0.1		5.7 <5		1.26 0.03		32.4	7.3	0.52 1533
<0.1		6.2 <5		0.77 0.08		33.1	0.6	0.5 105
<0.1		5.6 <5		0.98 <0.02		13.5	5.9	0.51 1224
	0.1	4.3 <5		0.96 0.06		33.2	25.3	0.49 <1
<0.1		9.1 <5		1.21 0.04		28	3.1	0.64 266
	0.1	7.6 <5		1.49 <0.02		29.4	13.1	0.73 815
	0.3	6.2 <5		2.31 0.04		69.9	3.6	0.8 336
<0.1		5.9 <5		1.19 0.03		35.2	1	0.61 293
	0.2	4.2 <5		1.37 0.02		24.8	18.3	0.56 1102
	0.1	3.8 <5		1.09 <0.02		18.4	14.2	0.42 525
	0.1	11.3 <5		2.18 0.02		49.2	5	1.08 3086
	0.3	4.6 <5		1.07 0.03		31.1	7.9	0.47 600
	0.2	8 <5		1.84 <0.02		52.2	4.8	0.81 599
	0.2	7.6 <5		1.83 <0.02		38.3	9.3	0.79 1420
<0.1		4.7 <5		0.97 <0.02		33.8	0.8	0.46 149
<0.1		5.8 <5		1.1 <0.02		27	0.2	0.52 73
	0.1	4 <5		1.25 0.04		25.2	7	0.54 966
<0.1		6.2 <5		1.21 <0.02		13	3.5	0.71 327
<0.1		6.1 <5		0.37 <0.02		16.2	1.5	0.3 106
<0.1		4.6 <5		1.19 0.04		24.6	9	0.52 792
<0.1		5.6	17	0.88 0.12		18.1	0.4	0.46 14
	0.2	4.4 <5		1.29 0.06		20.8	6.1	0.57 2155
	0.2	4.6 <5		1.54 0.03		25	3.4	0.61 1120
<0.1		11.4 <5		1.87 0.03		20.7	2.4	0.9 802
<0.1		1.9 <5		0.52 0.03		13.3	20.2	0.21 7942

<0.1		9.3 <5		1.64	0.03	24	2.7	0.9	1310
<0.1		3.3 <5		0.86	0.03	23.4	25.3	0.31	6167
<0.1		7.8 <5		1.27	0.03	37.2	1.1	0.59	1503
	0.3	5.1	2.5	1.34	0.07	22	10.3	0.56	5415
	0.1	6.2	2.5	1.78	0.02	27.2	1.6	0.68	641
	0.1	6	8	1.43	0.05	36.2	11.9	0.58	1948
	0.2	5.1	12	0.97	0.04	14.5	13.3	0.5	3386
<0.1		7.2 <5		0.85	0.11	28.3	0.7	0.54	154
<0.1		11.6 <5		1.97	0.03	25.1	5	1	787
	0.2	4.2 <5		1.09	0.03	10.1	0.5	0.47	3141
	0.2	4.1 <5		0.78	0.14	21.1	1.5	0.36	765
	0.2	3.5 <5		0.65	0.11	21.3	14.3	0.28	1010
	0.2	6 <5		1.43	0.04	34.8	41.5	0.56	1370
<0.1		5.1 <5		0.71 <0.02		23.5	0.3	0.39	196
<0.1		4.2 <5		0.61 <0.02		9.2	0.5	0.44	181
<0.1		6.1	6	1.27 <0.02		26.5	0.3	0.68	154
<0.1		6.2 <5		1.31 <0.02		31.8	0.5	0.7	228
<0.1		6.6 <5		0.93	0.03	27.5	0.3	0.47	196
<0.1		8.8 <5		1.94 <0.02		35.8	0.4	0.81	72
<0.1		8.1 <5		0.84 <0.02		32.3	0.3	0.56	109
<0.1		7.9 <5		1.13 <0.02		33.2	0.3	0.69	122
	0.1	4.2 <5		1.2	0.02	22.3	8.6	0.53	971
	0.1	4.6	7	1.21 <0.02		21.4	9.4	0.52	889
<0.1		2.6 <5		0.59	0.02	16	35.6	0.22	1554
	0.1	6	11	1.58 <0.02		28.1	19.3	0.64	2063
<0.1		5.2	5	0.96	0.08	12.6	4	0.47	805
<0.1		6.5 <5		1.16 <0.02		26.5	7.2	0.57	711
<0.1		5.7 <5		1.04	0.03	23.2	5.8	0.53	618
	0.9	1.1 <5		0.31	0.74	7.1	2.1	0.12	888
	1.1	1.4 <5		0.41	1.07	16.1	0.6	0.16	2045
<0.1		10.6 <5		2.06	0.06	50	1.6	0.94	300
<0.1		11 <5		1.92 <0.02		30	4.3	0.93	325
<0.1		7.3 <5		1.61	0.05	36.8	3.4	0.58	340
<0.1		9.5 <5		1.82	0.04	46.9	1.6	0.93	60
<0.1		5.3 <5		0.97 <0.02		20.8	1.4	0.52	178
	0.1	4.9 <5		1.17	0.25	24	9.6	0.54	1602
<0.1		4 <5		1.1	0.04	20.1	6.1	0.47	2941
<0.1		8.6 <5		1.38	0.03	41.8	10	0.65	384
<0.1		1.5 <5		0.71	0.03	19.7	6.7	0.22	486
<0.1		4.2 <5		0.61 <0.02		27.6	3.6	0.35	238
<0.1		3.3 <5		0.62 <0.02		17.5	11.8	0.35	450
<0.1		3 <5		0.68 <0.02		20.5	7	0.31	546
	0.2	2.6	9	0.67	0.02	13.7	30.9	0.29	831
	0.4	4.2	5	1.27	0.01	25	0.6	0.51	247
	0.3	5.1	26	1.52	0.04	31.9	25.8	0.66	1227
	0.1	4.1	42	1.17	0.02	24.2	39.9	0.57	2107
<0.1		6.1 <5		1.4 <0.02		39.8	0.8	0.69	148
<0.1		5.9 <5		1.16	0.02	37.8	0.8	0.6	119
<0.1		3.3 <5		0.26	0.07	22.5	2.1	0.12	170
<0.1		3.2 <5		0.69	0.03	17.9	6.3	0.38	375
<0.1		3.7 <5		0.85	0.02	20.9	11.4	0.4	1319
<0.1		5.6 <5		2.75	0.05	51.3	0.7	1.21	317

<0.1	6.3 <5		1.48	0.02	38.5	0.5	0.69	154
<0.1	5.6 <5		1.15	0.02	30.3	1.8	0.64	223
<0.1	7.5 <5		0.98	0.04	31.7	1.9	0.62	804
<0.1	6.3 <5		0.69	0.16	35.4	3.1	0.44	698
<0.1	5.7 <5		0.9	0.07	25.3	3.7	0.46	749
<0.1	4.7 <5		1.48	0.06	52.3	1.4	0.74	32
<0.1	6 <5		1.29	<0.02	39.6	0.6	0.59	26
0.1	4 <5		1.32	<0.02	22.1	9.2	0.44	540
<0.1	3.4	7	0.17	0.1	15.5	4	0.08	479
<0.1	3.5 <5		0.42	<0.02	17.9	10	0.25	597
<0.1	2.7 <5		0.71	<0.02	17.7	4.3	0.39	702
<0.1	3.4 <5		0.21	0.02	16.1	2.7	0.09	72
<0.1	3 <5		0.25	<0.02	16.4	4	0.16	228
<0.1	5.5	6	1.47	<0.02	35.4	0.5	0.68	19
<0.1	6.1 <5		1.09	<0.02	29.4	0.8	0.59	128
<0.1	6.7 <5		1.13	<0.02	34.8	0.9	0.57	122
<0.1	6.1 <5		1.1	0.02	30.1	0.6	0.56	52
<0.1	9.8	5	1.88	0.06	38.2	10.2	0.81	472
<0.1	7.1 <5		1.51	0.12	32.3	8.1	0.61	435
<0.1	3.5 <5		0.54	<0.02	17.3	3.7	0.21	133
<0.1	6 <5		1.04	<0.02	27.2	4.1	0.48	128
<0.1	3.1 <5		0.68	0.18	15.3	13.1	0.29	1441
<0.1	6.3 <5		0.7	<0.02	50.8	14.3	0.23	314
<0.1	3.1 <5		0.61	0.09	17.2	4.2	0.32	220
<0.1	3.3 <5		0.68	0.05	19.8	4.8	0.36	508
<0.1	2.9 <5		0.6	<0.02	19.5	4.6	0.3	1374
<0.1	5.8	9	1.31	0.02	37.2	0.3	0.64	78
<0.1	4.3 <5		0.49	0.02	24	1.5	0.22	399
<0.1	6.2 <5		1.2	<0.02	32.7	0.3	0.58	252
0.3	2.7 <5		0.66	<0.02	29.6	47.5	0.24	1143
<0.1	6.4 <5		2.99	<0.02	51.4	1	1.08	242
0.2	2.8 <5		0.61	<0.02	27.4	40.5	0.22	729
<0.1	3 <5		0.46	<0.02	20.7	9.7	0.25	504
0.3	2.9 <5		0.61	0.03	23	39.6	0.23	1548
<0.1	3.4 <5		0.46	<0.02	21	9.5	0.25	588
<0.1	3 <5		0.48	<0.02	20.8	6.1	0.26	400
<0.1	3 <5		0.47	<0.02	20.9	8.1	0.26	407
<0.1	2.9 <5		0.44	<0.02	20.6	4.2	0.24	487
<0.1	3.6 <5		0.53	<0.02	18.7	12.3	0.25	546
<0.1	4.4 <5		0.87	<0.02	24.3	18.3	0.37	314
<0.1	4.4 <5		0.8	<0.02	23.5	11.7	0.35	412
<0.1	3.4 <5		0.75	<0.02	22.5	10.8	0.33	290
0.1	2.5 <5		0.61	<0.02	68.1	88.7	0.19	855
<0.1	3.6	8	0.75	0.03	24.2	31.2	0.34	683
0.2	2.6 <5		0.6	0.03	21.5	66.5	0.23	1138
<0.1	3.1 <5		0.39	<0.02	19.7	4.5	0.24	465
<0.1	3.5 <5		0.76	<0.02	17	10.2	0.36	2880
<0.1	3.3 <5		0.44	<0.02	20.4	4.1	0.25	436
<0.1	3 <5		0.75	<0.02	19.8	5.1	0.38	466
<0.1	6.4	13	0.63	0.54	8.7	0.7	0.42	79
<0.1	4.6 <5		0.77	<0.02	24.9	1.6	0.47	230
0.1	2.1 <5		0.67	0.02	13.1	31.6	0.26	783

<0.1		2.4 <5		0.63 <0.02	11.6	38.4	0.27	769
<0.1		2.3	6	0.69 <0.02	19.6	19.6	0.29	1264
	0.1	2.3 <5		0.65 <0.02	20.9	41.2	0.26	813
<0.1		2.7 <5		1.43 <0.02	36.2	25.3	0.62	1258
<0.1		5.4 <5		0.77 0.07	31.8	8.6	0.37	601
<0.1		5.6 <5		1.19 0.06	25.9	12.6	0.5	903
<0.1		8.4	7	1.63 <0.02	35.3	21.4	0.71	1318
<0.1		6.1 <5		0.52 0.03	23.8	15.1	0.25	1128
<0.1		3.4 <5		0.62 <0.02	20.1	4	0.33	344
	0.1	2.9 <5		0.75 0.02	19.2	3.6	0.37	633
	0.1	2.4	6	0.33 0.11	10.7	13.8	0.14	565
<0.1		5.2 <5		0.5 0.06	24.7	6.3	0.25	1207
<0.1		7.1 <5		0.78 <0.02	28.2	6.2	0.36	930
<0.1		2.7	6	0.68 0.03	25.9	47.9	0.26	1314
<0.1		5 <5		0.82 <0.02	26.4	20.7	0.35	845

Mo_ppm	Nb_ppm	Nd_ppm	Ni_ppm	Pb_ppm	Pd_ppb	Pr_ppm	Pt_ppb	Rb_ppm
0.19	4.3	16.6	39.7	25.25	<10	4.04	<2	91.6
0.28	11.7	33.2	2.7	19.84	<10	8.35		71.1
0.45	12.8	13.7	2.6	12.78	<10	3.59	<2	95.6
0.14	10.6	35	1.1	8.83	<10	9.72	<2	60.9
0.79	12.3	28.6	3.9	15.39	<10	7.96	<2	99.5
0.58	6.7	17.1	18.5	6.53	<10	4.43	<2	172.5
0.1	12.4	26.3	3.5	13.83	<10	7.2	<2	9.5
0.39	7.6	59.5	127.2	136.34	<10	13.45	<2	167.2
0.12	13.8	33.1	4.1	120.62	<10	8.39	<2	30.8
1.61	13.3	43	1.1	169.33	<10	10.95	<2	229.7
1.02	12.7	32.3	2.4	18.03	<10	8.57	<2	54.4
0.28	22.5	53.6	9	8.09	<10	13.18	<2	97.4
0.3	4.9	22.8	21.4	2.67	<10	5.54	<2	28.2
0.55	5.3	32.7	3	8.38	<10	7.98	<2	14.9
1.42	19.5	54.4	8.4	2.8	<10	12.46	<2	128.9
0.81	18.2	51.1	3.4	3.38	<10	11.87	<2	46.4
0.27	10.8	29.6	1.3	2.47	<10	7.37	<2	99.3
2.89	4.9	21.9	19.4	17.19	<10	4.86	<2	37.3
1.38	16.5	56.4	2.2	48.28	<10	12.58	<2	43
0.82	5.7	26.8	9.5	18.08	<10	5.83	<2	81
0.44	11.5	34.6	1.8	4.15	<10	7.83	<2	92.8
0.4	22.7	54.3	8.8	88.64	<10	12.95	<2	64.1
0.72	22.9	58.5	9.3	74.31	<10	14.22	<2	125.9
0.57	10.9	44.3	14	71.47	<10	10.09	<2	89.5
0.67	10.5	32.1	17.3	13.76	<10	7.19	<2	72.8
0.55	12	43.9	10.3	131.92	<10	9.98	<2	143.7
0.5	9.2	36.4	14	152.47	<10	8.4	<2	47.1
1.72	11.7	29.8	2.6	3.19	<10	7.94	<2	180.6
0.31	11.3	14.5	4.2	35.14	<10	3.56	<2	66.2
0.43	6.7	30.7	19.9	1517.11	<10	7.9	<2	101.2
0.43	14.5	31.3	3.5	40.4	<10	7.52	<2	189.5
1.25	14.8	37.4	5.3	74.42	<10	8.84	<2	86.3
0.65	11.9	56.8	3.1	151.01	<10	13.69	<2	76.8
0.59	12.4	35.5	1	9.47	<10	9.04	<2	176.1
0.46	7.4	30.4	0.8	6.59	<10	7.19	<2	2.5
0.28	6.8	25.5	8.2	69.86	<10	5.71	<2	28.2
0.79	20.7	56	1.2	19.71	<10	13.54		162
0.35	8.5	29.9	12	6.7	<10	7.35		138.1
0.74	15.8	46.9	2.8	47.92	<10	11.73	<2	160.4
0.88	14.9	45.3	8.8	40.68	<10	10.71	<2	170.3
0.38	10.4	29.7	0.8	3.53	<10	7.69	<2	142.3
0.32	11.7	29.7	0.8	4.58	<10	7.58	<2	77.2
0.25	8.2	31.2	0.8	6.77	<10	7.25	<2	76.2
0.78	10.8	20	1.6	12.33	<10	4.34	<2	198.3
0.34	8.7	17.3	4.6	1.41	<10	4.31	<2	102.1
0.3	8.2	28.4	2.8	4.05	<10	7.11	<2	29
9.74	9.2	20.7	2.7	0.94	<10	4.98	<2	163.1
0.35	7.2	27.5	2.2	2.12	<10	6.37	<2	22.1
0.74	7.4	29.2	1.4	1.99	<10	6.61	<2	41.6
0.18	18.5	27.4	1.5	24.06	<10	6.09	<2	180.2
0.19	3.2	13.3	50.9	336.17	<10	3.29	<2	150.4

0.25	14.7	23.8	2.6	83.15 <10		5.92 <2		100.5
1.39	5.5	25.5	56.8	94.62	11	6.47 <2		137.9
0.37	12.4	38.5	2	60.2 <10		9.83 <2		46.5
0.26	5.8	26.6	2	15.28	3	6.03	1	69.3
0.24	7.8	28.4	1.2	12.07	1	6.96	1	81
0.36	9	41	16.6	39.44	2	10.3	2	67.3
0.64	7.6	14.7	1.4	25.92	2	3.41	1	118
0.12	9.9	29.2	1.2	6.8 <10		7.78 <2		26.2
0.28	17.1	36	1.3	7.89 <10		8.01	2	256.9
21.95	7.3	13.3	4.5	3.61 <10		2.9 <2		4.4
7.59	6.6	18.9	5.9	3.71 <10		4.8 <2		29.4
0.69	4.9	23.1	58.1	4.46 <10		5.58 <2		170.8
0.33	10.5	37.7	16.4	8.9 <10		8.96	3	22.7
0.15	7.2	24.8	0.6	11.22 <10		6.22 <2		111.8
0.46	10.4	9.5	0.5	8.4 <10		1.94 <2		186.7
0.41	12.8	31.1	0.4	6.08 <10		7.92 <2		224.7
0.3	12.2	32.4	0.6	4.8 <10		7.95	2	208
0.28	9.6	25.9	0.8	16.64 <10		6.63	3	88.4
0.45	14	31.6	0.6	11.23 <10		8.17	2	119.6
0.69	13.8	28.7	0.6	18.3 <10		7.75 <2		150.2
1.05	14.3	48.5	0.5	11.95 <10		10.99 <2		117.8
0.41	6.9	25.7	35.5	16.22 <10		6.15	3	93.5
0.47	7.2	25.1	31.8	6.47 <10		5.93	4	110.5
0.12	3.6	19.7	52	3.61 <10		4.49	3	81.7
0.58	10.5	38.5	25.7	33.54 <10		8.6 <2		108.6
1.6	8.5	16.2	13.5	3.72 <10		3.53 <2		110.7
0.35	8.8	27.3	2.2	48.9 <10		6.76 <2		92.8
0.32	8.4	23.8	1.7	14.55 <10		6.05 <2		19.7
0.74	1.9	6.9	12.1	2.82 <10		1.75 <2		21.9
0.47	2.8	13.3	5.2	3.96 <10		3.71 <2		0.5
1.62	20.3	61	2.4	1.92 <10		14.45 <2		104.8
2.95	19.1	36	0.5	5.74 <10		8.51 <2		72.3
1.56	13.7	42.4	8.7	11.06 <10		10 <2		113.3
5.64	18.7	54.8	3.9	1.44 <10		13.2 <2		135.8
0.55	7.6	19.8	2.7	4.35 <10		5.23 <2		119.5
0.27	6.9	28.8	29.2	29.53 <10		6.44 <2		103.6
0.83	6.3	22.8	26.6	24.23 <10		5.71	3	116.6
0.79	13.8	32.4	3	7.96 <10		9.16 <2		122.5
0.41	2.8	23.6	4.6	42.26 <10		5.14 <2		34
0.29	8.5	23.9	0.7	4.48 <10		6.44 <2		95.8
0.35	7.4	12.7	1.4	5.88 <10		3.6 <2		129.6
0.34	7.1	20	3.5	1.25 <10		4.87 <2		52.3
0.55	3.4	16.1	8.7	14.92	3	3.96	2	3.4
0.62	5	29.2	3.4	17.03	5	6.46	3	0.9
0.78	9.4	36	25.5	14.42	12	9.36	6	2.5
0.94	7.7	27.4	11.2	11.51	10	6.78 <2		13
0.53	12.6	37.2	0.6	11.07 <10		9.81 <2		197.8
0.98	12.1	35.4	0.6	13.41 <10		9.29 <2		147.5
0.42	6.9	19.8	2.8	3.27 <10		5.19 <2		61.7
1.74	7.4	16.9	6.9	8.36 <10		4.4 <2		111.7
0.21	5.8	23.8	2.4	7.09 <10		5.7 <2		83
1.8	12.3	48	0.8	178.44 <10		12.05 <2		196.7

0.85	12.8	38.4	2	19.78 <10	9.46 <2	223.6
0.31	12.3	28.2	2.2	4.86 <10	7.67 <2	136.2
0.67	12.4	27.6	1.9	65.64 <10	7.57 <2	83.3
0.56	7.6	20.8	3	19.2 <10	5.49 <2	165.8
0.79	7.6	24.3	1.4	19.85 <10	6.41 <2	76.7
67.61	9.5	47	1.4	11.41 <10	12.68 <2	108.5
4.4	12	39.7	0.7	4.52 <10	10.29 <2	166.3
2.18	5.2	23.6	38.4	2.16 <10	5.74 <2	214.5
6.94	5.8	12.9	3.6	9.63 <10	3.52 <2	49.3
0.36	5.9	13.4	1.8	3.19 <10	3.81 <2	47.5
0.96	9.8	15	3	11.65 <10	4.13 <2	121.6
18.53	5.7	13.4	3.2	3.02 <10	3.69 <2	80.7
20.27	8.3	13.5	1.8	7.46 <10	3.87 <2	65.6
40.45	12.1	33.5	1.7	5.57 <10	8.93 <2	128.7
0.7	12.6	27.1	0.9	11.3 <10	7.2 <2	199.2
0.25	12	33.3	0.7	7.46 <10	8.76 <2	185
0.32	12.4	29.8	0.6	11.55 <10	7.61 <2	141.5
20.77	18.2	44.3	27.4	5.36 <10	10.58 <2	117.9
2.54	11.1	39	37.2	4.98 <10	9.16 <2	86.1
1.71	6.8	19.6	5.5	2.89 <10	4.78 <2	64.6
11.61	12.6	29	3.3	5.26 <10	7.11 <2	162.2
3.55	5	18.3	40.3	28.8 <10	4.17	2 107
0.44	23.9	49.2	35.2	3.49 <10	13.12 <2	185.4
0.85	7.7	15.2	4.2	6.14 <10	4.04 <2	129.4
0.53	7.4	17.3	4.6	6.98 <10	4.56 <2	140.5
0.4	6.9	16.5	3.8	43.91 <10	4.36 <2	113
0.74	13.1	35.4	1.1	11.9 <10	9.28	2 167.4
0.79	8.4	21.2	8.1	1.55 <10	5.58 <2	119.3
0.86	12.1	27.9	0.6	13.16 <10	7.91 <2	345.4
0.19	4.2	32.2	110.6	2.82 <10	7.57	3 73.5
0.71	13.5	44.6	1.8	20.71 <10	11.58 <2	165.5
0.21	4.1	28.3	100.7	3.49 <10	7.2 <2	50.9
0.4	6.3	14.3	2.1	3.48 <10	4.15	2 76
0.15	5.2	23.2	46.5	4.26 <10	5.68	4 35.1
0.3	6.5	14.5	2.1	4.7 <10	4.21 <2	84.3
0.16	6.9	14.1	1.6	1.88 <10	4.22 <2	89.5
0.29	6.9	15.7	1.7	2.34 <10	4.28	2 85
0.23	6	14.1	1.4	3.03 <10	4.16	3 83
0.33	5.8	15.4	5.3	5.61 <10	4.09 <2	68.2
0.4	7.6	23.4	13.5	4.97 <10	6 <2	86.8
0.42	7.1	23.8	7.7	12.31 <10	5.9 <2	84.8
0.58	6.4	21.6	6.9	6.89 <10	5.52 <2	84.1
0.25	3.2	67.2	121	7.91 <10	16.48	6 54.2
0.26	6.7	23.9	10.9	4.22 <10	6.02 <2	117.9
0.34	5.1	23.6	47.5	16.68 <10	5.72	4 21.8
0.23	6	13.7	1.4	3.83 <10	3.97 <2	88.6
0.12	6	18.2	13.5	22.37 <10	4.32 <2	83.1
0.27	5.5	15.6	2.4	16.35 <10	4.22 <2	102.5
0.14	8.3	18.2	4	20.43 <10	4.71 <2	130.1
2.53	12.4	7.8	0.7	66.7 <10	2.01 <2	295.9
0.29	7.3	21.1	4.8	12.79 <10	5.57 <2	157.8
0.16	3.4	18.1	14.4	1.75 <10	3.86 <2	31.1

0.2	3.8	13.8	66.6	3.22 <10		3.21 <2	167.4
0.17	5.5	22.9	1.9	25.68 <10		5.08 <2	96
0.2	3.1	25.1	116	5.35 <10		5.37	3 52.6
0.22	6.6	32.7	7.8	3.8 <10		7.65 <2	125.6
1.04	6.9	30.4	9.9	3.85 <10		7.62 <2	90.2
1.75	10.4	29.5	33.5	17.11 <10		7.16	4 73.2
8.55	13.6	40.4	22.9	2.63 <10		9.94 <2	136.7
2.68	8.6	20.7	14.1	4.87 <10		5.44 <2	82.7
1.68	8.6	17.5	4	6.79 <10		4.59 <2	114.9
1.78	8.1	17.1	6.4	14.18 <10		4.56 <2	98.6
2.38	3.4	11.1	62	4.99	17	2.71	3 67.6
2.13	8	23	17.1	9.45 <10		6.06	4 101.2
1.59	7.8	26	14.4	22.05 <10		6.81 <2	69.2
0.21	3.5	30.9	31.5	3.85 <10		7.31	4 46.7
0.39	9.1	26.1	4.9	7.51 <10		6.52 <2	128

Re_ppb	Sb_ppm	Sc_ppm	Se_ppm	Sm_ppm	Sn_ppm	Sr_ppm	Ta_ppm	Tb_ppm	
	2	0.39	20	<0.1	3.47	<1	370.6	0.3	0.62
<1		0.56	14	<0.1	7.2	2	269.5	0.7	1.25
	1	1.38	13	<0.1	3.3	2	214.3	0.8	0.78
<1		1.08	8	<0.1	6.99	<1	58	0.8	1.2
	2	0.67	9	<0.1	5.57	2	180.1	0.7	0.95
	2	0.14	26	4.3	3.56	5	37.9	0.5	0.59
	1	0.33	6	<0.1	4.9	<1	57	0.9	0.83
<1		0.52	25	0.2	10.89	<1	328	0.4	1.61
	2	0.22	10	0.3	6.9	2	105.7	1	1.35
	16	0.13	8	<0.1	7.37	2	77.4	1.1	1.1
	4	0.17	5	<0.1	5.61	<1	56.6	1	0.82
	2	0.44	22	0.4	11.36	3	237.2	1.3	2.3
<1		0.25	31	<0.1	4.85	2	308.8	0.3	1
<1		0.34	32	<0.1	6.54	2	697.4	0.4	1.12
	2	0.26	27	<0.1	10.5	3	208.9	1.2	1.65
	1	0.22	23	<0.1	10.32	3	245.1	1.1	1.7
	2	0.27	9	<0.1	5.75	3	129.3	0.7	1.1
	3	0.12	32	<0.1	4.66	1	368.3	0.3	0.78
	2	0.29	33	0.4	11.45	3	208	1	1.82
<1		0.17	31	<0.1	5.63	2	364.1	0.3	0.92
<1		0.21	24	<0.1	7.41	2	124.3	0.7	1.39
	1	0.21	22	0.2	10.79	3	199.2	1.3	1.74
	2	0.33	23	<0.1	11.97	4	184.3	1.4	1.98
	2	0.29	25	<0.1	8.59	3	409.6	0.7	1.28
	1	0.15	26	<0.1	6.94	4	278.3	0.7	1.14
	3	0.63	26	0.2	8.65	3	141.4	0.9	1.37
	4	0.73	22	0.5	7.11	5	454	0.6	1.1
	2	0.6	8	<0.1	5.12	1	60.2	0.9	0.72
	1	0.08	20	<0.1	3.51	3	46.5	0.7	0.87
	1	0.13	29	0.7	5.09	5	57.7	0.5	0.81
<1		0.17	12	0.2	6.11	3	134.8	1	1
<1		0.11	21	0.1	7.35	2	121.5	0.9	1.15
<1		0.35	21	<0.1	11.18	5	556.5	0.7	1.96
<1		0.43	8	<0.1	6.09	2	83.9	0.9	0.94
<1		0.23	31	<0.1	6.66	2	423	0.4	1.15
<1		0.21	49	<0.1	5.5	1	455.8	0.4	0.95
<1		0.28	23	<0.1	11.03	3	91.9	1.3	1.73
<1		0.64	17	<0.1	5.77	3	780.6	0.6	0.87
<1		0.17	22	<0.1	9.18	3	120.6	0.9	1.51
<1		0.47	27	0.1	9.34	3	257	1	1.53
<1		0.13	6	<0.1	5.56	<1	79.3	0.8	0.84
	1	0.08	4	<0.1	5.8	<1	23.4	0.9	0.89
<1		0.28	25	0.1	6.3	2	88.8	0.5	1.03
<1		0.22	14	0.2	4.71	3	22.9	0.6	0.79
	1	0.08	7	0.1	2.91	<1	25.1	0.7	0.31
	1	0.2	26	<0.1	6.17	1	64.5	0.5	0.99
	20	0.13	17	0.5	4.76	3	36	0.6	0.86
	1	0.12	32	0.2	6.32	2	145.4	0.4	1.1
	2	0.23	32	0.1	6.46	2	122.3	0.5	1.21
<1		0.48	10	<0.1	6.74	3	150.5	1.2	1.38
	1	0.77	22	<0.1	2.62	<1	275.1	0.2	0.47

	1	0.78	8	0.1	5.13	3	176.1	0.9	1.12
	1	0.15	26	0.2	4.75	1	86.2	0.3	0.77
<1		0.26	8	0.1	7.06 <1		86.1	0.8	1.12
	1	0.84	29	0.05	5.8	1	289.8	0.5	1.05
	0.5	0.25	10	0.05	6.7	0.5	88.8	0.6	1.47
	1	0.51	24	0.05	8.2	3	313.9	0.7	1.23
	0.5	0.71	16	0.05	3.6	2	182.4	0.6	0.82
<1		0.9	5 <0.1		4.97	3	108.8	0.7	0.66
<1		0.38	11 <0.1		8.29	5	165.7	1.2	1.48
	67	0.17	20	0.9	3.64	6	68.3	0.5	0.87
	23	0.16	15	0.6	3.63	6	73.4	0.5	0.6
	4	0.2	20	0.3	4.32	2	295.1	0.3	0.59
<1		0.37	20 <0.1		7.63	2	160.5	0.7	1.2
<1		0.41	8	0.1	4.99 <1		45.4	0.6	0.71
<1		0.63	5 <0.1		2.12	1	31.3	0.8	0.42
<1		0.62	9 <0.1		5.6	1	21.3	0.9	0.91
<1		0.45	8 <0.1		5.53	1	40.5	0.9	0.92
<1		0.76	10 <0.1		4.74	1	43	0.7	0.73
<1		1.07	7 <0.1		6.69	2	104.7	1	1.47
<1		1.74	8 <0.1		5.04	1	102.2	1	0.7
<1		1.03	6 <0.1		9.26	2	93.7	1	0.97
	2	0.46	27	0.2	5.66	1	351.8	0.4	1
<1		0.37	27	0.2	5.4	1	451.3	0.5	0.95
	2	0.11	25	0.4	3.68 <1		433.5	0.2	0.53
	2	0.38	35	0.3	8.56	2	286.9	0.6	1.32
	3	0.13	20	0.6	4	2	53.6	0.6	0.71
	3	0.19	11	0.4	5.48	1	185.5	0.5	0.92
	3	0.39	11	0.4	5.05	2	270.3	0.5	0.81
	2	0.23	6	3.1	1.5	8	41.4	0.1	0.26
	4	0.19	6	3.5	2.64	6	63.4	0.2	0.39
	2	0.38	22	2.1	13.03	5	18.3	1.3	1.97
	14	0.3	25	0.3	7.74	3	74.6	1.2	1.47
	11	0.22	21	0.5	8.6	4	117.3	0.9	1.42
	21	0.1	19	4.1	10.42	7	11.3	1.1	1.54
<1		0.17	6	0.3	3.8	1	145.4	0.6	0.72
<1		0.4	28	0.4	5.42	1	222.1	0.5	0.98
	1	0.35	27	0.2	4.98	1	324.7	0.5	0.9
<1		0.42	12	0.1	6.65	2	110.9	0.9	1.11
<1		0.22	12	0.1	5.33 <1		250.5	0.2	0.75
<1		0.31	3 <0.1		3.71	2	39.9	0.8	0.48
<1		0.07	3	0.2	2.47	2	53.8	0.7	0.48
<1	<0.02		15	0.1	4.06 <1		734.4	0.5	0.61
	1	0.19	20	0.05	3.3	0.5	991.2	0.2	0.62
	0.5	0.63	23	0.05	6.3	1	1840.3	0.3	0.99
<1		0.35	44 <0.1		7.97	2	1372.3	0.4	1.58
<1		0.44	27 <0.1		5.79	2	702	0.4	1.13
	5	0.15	9	0.1	7.07	2	70	1	1.17
	2	0.09	9	0.2	6.49	2	62.5	0.9	0.99
	2	0.07	5	1.3	2.99	3	262.2	0.5	0.31
<1		0.22	12	0.3	3.07	1	214.7	0.6	0.55
<1		0.25	19	0.3	4.69	2	230.2	0.4	0.75
	1	0.86	9	0.3	9.76	3	106.3	0.9	2.04

	2	0.22	9 <0.1	6.8	3	75.4	1	1.15
	2	0.16	8	0.2	2	101.1	0.9	0.92
	4	0.22	8	0.1	3	112.8	0.9	0.82
	2	0.24	8	0.6	6	115.1	0.5	0.54
	11	0.11	8	0.2	1	105.1	0.5	0.73
	154	0.23	6	2.4	3	185	0.9	1.28
	28	0.85	8	0.7	4	60.1	1	1.07
	17	0.04	20	1	3	42.6	0.3	1.13
	23	0.18	3	2.1		613.8	0.4	0.18
	2	0.09	6	0.5		191.1	0.4	0.33
	2	0.19	8	0.2	2	121.6	0.8	0.54
	57	0.05	5	2.2		522.4	0.4	0.22
	49	0.06	3	0.2	1	550.3	0.5	0.27
	104	0.25	8	3.3	6	116.3	0.9	1.19
	4	0.12	9	0.1	2	61.8	0.9	0.85
<1		0.1	8	0.1	1	97.2	0.8	0.97
	2	0.16	8	0.2	1	77.6	0.9	0.87
	143	0.12	28	2.1	5	23.3	1.1	1.54
	18	0.12	26	7	4	94.3	0.7	1.32
	22	0.05	6	1	2	375.1	0.5	0.53
	53	0.09	17	1.7	4	157.9	0.8	0.87
	18	0.1	24	0.7	5	191	0.3	0.58
	11	0.13	17	2	4	53.8	1.1	0.85
	2	0.84	9	0.8	3	129.9	0.6	0.47
	2	0.49	11 <0.1	3.26	1	223.5	0.6	0.55
<1		0.21	10	0.1		213.5	0.6	0.49
<1		0.45	9 <0.1	6.63	3	41.4	1	1.09
<1		0.24	10 <0.1	3.48 <1		435.1	0.7	0.47
	2	0.41	8 <0.1	5.14	2	37.5	1	0.91
<1		0.16	24 <0.1	5.33 <1		334.9	0.2	0.63
<1		0.2	9	0.3	3	50.3	1.1	2.02
<1		0.1	24 <0.1	5.08 <1		442.6	0.2	0.6
	1	0.16	5 <0.1	2.4 <1		332.2	0.5	0.36
<1		0.23	21	0.1		265.1	0.3	0.56
<1		0.1	5 <0.1	2.44 <1		345.1	0.5	0.37
<1		0.16	5 <0.1	2.47 <1		259.8	0.6	0.39
<1		0.19	5 <0.1	2.52 <1		360.7	0.5	0.36
<1		0.12	5 <0.1	2.35 <1		234.6	0.5	0.35
<1		0.11	11 <0.1	2.77 <1		633.5	0.4	0.42
<1		0.1	22	0.2	2	478.6	0.5	0.74
<1		0.03	20 <0.1	4.47	1	333.2	0.4	0.67
<1		0.04	20	0.1		391.2	0.4	0.62
	1	0.11	30 <0.1	10.97 <1		388.7	0.2	0.85
<1		0.09	21 <0.1	4.33	1	470.8	0.4	0.64
<1		0.23	24	0.1	1	357.9	0.2	0.58
<1		0.07	6	0.2		239.5	0.5	0.32
<1		0.19	18	0.2	2	276.2	0.5	0.61
<1		0.23	6 <0.1	2.52 <1		308.5	0.4	0.38
<1		0.21	11	0.2	1	261.1	0.7	0.59
<1		0.09	9	0.3	4	9.7	0.9	0.38
<1		0.17	7	0.3	2	131.1	0.5	0.63
<1		0.06	40	0.3		753.3	0.2	0.64

<1		0.22	30	0.1	3.02	1	478.2	0.2	0.54
	1	0.2	13	0.2	4.55	<1	1010.8	0.4	0.65
<1		0.1	27	0.1	4.38	<1	451.8	0.2	0.6
<1		0.34	10	0.3	6.05	1	552.2	0.4	1.15
	5	0.47	17	0.6	4.92	2	254.5	0.4	0.67
	20	0.25	27	1.4	6.38	5	72.1	0.6	1.06
	12	0.1	24	1.5	8.43	9	114.1	0.9	1.39
	7	0.25	19	0.2	3.58	2	157.7	0.6	0.46
	6	0.21	10	0.5	3.13	1	225.3	0.7	0.5
	2	0.18	13	0.3	3.48	1	166.4	0.6	0.59
	26	0.22	46	0.8	2.1	2	43.7	0.2	0.27
	26	0.08	21	0.4	4.11	2	279.3	0.5	0.48
	9	0.07	20	0.9	4.87	2	289	0.6	0.67
<1		0.11	32	0.2	5.21	<1	356.9	0.1	0.62
	7	0.2	17	0.5	5.13	2	222.7	0.6	0.73

Te_ppm	Th_ppm	Tl_ppm	Tm_ppm	U_ppm	V_ppm	W_ppm	Y_ppm	Yb_ppm
0.04	2.1	0.04	0.31	0.7	152	1.6	20.5	1.84
<0.02	10	0.05	0.7	2.8	56	2.6	44.1	4.39
<0.02	10.6	0.06	0.6	7.3	39	2.3	33.3	4.01
<0.02	13.5	<0.02	0.61	2.9	18	1.5	43.6	4.01
<0.02	15.1	0.05	0.6	3.8	29	2.3	37.1	4.14
0.93	7.2	0.3	0.37	3.8	165	25	21.5	2.49
<0.02	21.6	0.04	0.53	4.4	<8	1.2	32.9	3.53
<0.02	7.9	0.04	0.65	1.4	190	1.9	47	3.94
<0.02	18	0.05	0.88	5.9	46	1.9	53.4	5.71
<0.02	19.7	0.1	0.72	5	8	1.6	39.5	4.74
<0.02	22.6	0.04	0.53	4.3	10	0.6	28.3	3.66
<0.02	18.2	0.02	1.45	4.3	86	3.6	91	8.9
0.04	4.8	<0.02	0.65	1.3	250	1.8	35.7	4.09
0.03	5.2	<0.02	0.6	1.4	290	0.9	38.9	3.68
<0.02	18.3	0.02	0.9	4.1	157	1.7	56.4	5.72
<0.02	17.3	0.16	0.96	4.1	123	2.2	61.6	6.29
<0.02	14.4	0.03	0.82	4.1	22	1	46.6	5.2
<0.02	4.4	0.04	0.43	1.3	282	2	27.1	2.6
0.03	12.9	0.06	0.98	2.9	172	2	60.8	6.26
<0.02	4.8	<0.02	0.5	1.3	338	1.3	30.8	3.1
<0.02	7.8	0.03	0.76	2.1	155	3.6	46.2	4.93
0.03	18.9	0.06	1	4.4	83	2	59.7	6.58
<0.02	19.4	0.07	1.15	4.6	87	2.9	72	7.4
<0.02	14.9	0.02	0.62	3.6	255	1.5	40.7	3.93
<0.02	15.5	0.05	0.62	3.5	241	4.5	38.9	3.94
0.12	18.7	0.12	0.68	4.1	215	4.7	43.7	4.36
0.17	14.3	0.07	0.54	3.3	205	2.2	34.4	3.59
1.29	12.8	0.1	0.45	2.9	25	18.1	23	2.97
<0.02	11.8	0.03	0.49	3.2	50	1.9	26.8	3.16
0.07	6.8	0.03	0.49	1.9	139	3.4	28.8	3.17
<0.02	17.8	0.25	0.61	4.7	76	5.5	34.8	4.08
<0.02	15.3	<0.02	0.74	3.2	87	1.5	42.6	4.92
0.02	12.6	<0.02	0.88	4.5	142	1.7	65.1	5.43
<0.02	17.3	0.06	0.6	3.9	12	1.6	34.8	3.82
<0.02	8.7	<0.02	0.59	2.1	191	1.7	41	3.74
<0.02	4.8	<0.02	0.46	1.2	496	2.2	30.6	2.96
<0.02	19.5	0.05	1.06	5.4	43	2.8	61.2	7.16
<0.02	11.8	0.03	0.48	2.8	117	1.4	32	3.1
<0.02	15.8	<0.02	0.84	3.8	110	1.3	52.7	5.49
<0.02	15.9	<0.02	0.84	3.5	135	1.7	52.3	5.21
<0.02	13.7	0.06	0.47	3.3	<8	1	29.7	2.94
<0.02	18.7	<0.02	0.52	3.2	<8	0.8	32.8	3.38
<0.02	8.2	<0.02	0.57	2	54	1.2	34.6	3.6
<0.02	11.3	0.03	0.63	3.3	33	3	33.4	4.19
<0.02	14.1	<0.02	0.23	3.2	32	0.9	9.6	1.46
<0.02	8.5	<0.02	0.51	2.2	189	1	35.4	3.51
0.16	11.9	0.14	0.43	3	101	18.9	23.1	2.84
<0.02	8.9	<0.02	0.59	2.4	228	1.8	32	3.75
<0.02	8.9	<0.02	0.68	2.6	198	2.7	40	4.22
<0.02	20.7	0.18	0.86	6.1	21	1.7	55.8	5.98
<0.02	1.5	0.05	0.21	6.1	183	3	14.4	1.33

<0.02	16.5	0.08	0.84	6.1	19	1.8	49.2	5.65
0.06	2.7	0.1	0.34	1	220	8.5	24.8	2.24
<0.02	13.2	0.03	0.58	3.4	21	1.7	35.5	3.83
0.01	8.7	0.03	0.55	2.2	186	2.6	38	3.94
0.04	14.9	0.03	0.73	3.4	22	2.2	49	4.66
0.02	15.5	0.05	0.6	3.5	218	2.8	44.2	3.99
0.01	9.1	0.06	0.46	2.4	77	1.7	29.6	3.19
0.03	11.7	0.02	0.47	3.1	20	1.3	23.3	3.21
<0.02	19.9	0.77	0.97	5.2	21	1.6	55.6	6.36
0.32	8.5	<0.02	0.49	3.1	133	5.9	31	3.11
0.12	9.8	<0.02	0.37	4.4	109	3.2	22	2.38
0.1	3.2	1.52	0.28	1	178	10.4	18.4	1.84
<0.02	11	<0.02	0.62	2.6	123	3	42.4	3.63
<0.02	10.7	0.06	0.36	2.4	21	1.9	22.2	2.44
<0.02	19.2	0.05	0.39	2.7	9	1.2	17.2	2.66
<0.02	17.4	0.04	0.64	3	11	2.2	36.2	4.4
<0.02	17.9	0.04	0.69	3.4	<8	1.5	38.4	4.5
<0.02	13.4	0.03	0.47	3.3	39	3.4	26.7	3.24
<0.02	15.3	0.06	0.87	3.9	25	3.1	59.8	5.54
<0.02	16.3	0.06	0.5	4.1	16	3.3	25.3	3.58
<0.02	16.6	0.06	0.62	4.3	23	2.4	32.7	4.26
<0.02	7.3	0.03	0.54	2.1	163	2.5	33.6	3.41
<0.02	8.1	0.77	0.54	2.1	176	1.1	31.5	3.25
<0.02	1.6	0.02	0.26	0.7	216	0.9	15.5	1.46
<0.02	8.6	<0.02	0.65	2.4	283	4.5	40.9	4.26
0.69	8.7	0.18	0.45	2.1	111	5	27.8	2.86
0.05	11.7	0.04	0.55	2.7	29	1.3	31.4	3.53
0.06	11.1	0.03	0.49	2.7	35	1.9	27.8	3.31
2.98	2.4	<0.02	0.13	6.7	119	4.5	7	0.77
3.11	2.8	<0.02	0.18	13.2	155	3.2	11.6	1.04
0.41	18.2	0.13	0.93	4.7	28	6.5	51.2	5.99
<0.02	17.9	0.16	0.93	4.7	35	3.8	47.7	6.04
0.07	13.8	0.17	0.63	3.6	127	6.4	43.8	4.13
0.46	18.6	0.15	0.9	4.9	63	14.8	50.8	6.08
0.03	13.5	0.08	0.5	3.4	27	1.6	26.5	3.19
0.21	7.9	<0.02	0.53	2.2	193	1.5	32.8	3.34
0.08	7.5	0.4	0.49	2.1	185	1.3	30	3.16
<0.02	17.6	0.05	0.62	4.7	58	2.5	36.1	4.28
0.04	3.3	0.03	0.25	2.5	82	1.1	23.3	1.51
<0.02	22.1	0.03	0.3	4.3	<8	0.8	17.6	2.13
<0.02	22.5	0.05	0.32	4.3	<8	0.5	17.6	2.14
<0.02	5.1	0.03	0.29	1.9	142	0.6	18.2	1.98
0.01	3.2	0.01	0.3	0.9	174	0.5	20.1	2.12
0.01	3.6	0.01	0.51	1.1	322	1.7	37.1	3.6
<0.02	6.3	<0.02	0.75	2.1	394	0.7	50.8	4.32
0.03	9.7	0.06	0.59	2.9	279	5.2	38.2	3.57
0.05	18.4	0.06	0.69	4.4	24	3.2	40.5	4.38
0.11	17.9	0.05	0.59	4.2	13	2.6	34	3.94
0.54	5.3	0.04	0.11	2.5	64	9.3	8.3	0.78
0.14	9.5	0.58	0.34	3.2	65	2	20.7	2.34
0.18	7.4	0.27	0.41	1.8	92	2.6	24.5	2.59
1.35	16.9	0.08	1.26	12.3	9	2.1	84.3	8.03

	0.03	17.7	0.12	0.67	3.2	<8	1.4	45	4.53
	0.14	15.9	0.04	0.57	3.2	13	4.5	34.6	3.86
	0.25	14.4	0.17	0.51	5.6	39	2.1	28.8	3.62
	1.42	12.3	0.79	0.35	4.3	31	9.6	19.9	2.47
	0.77	11.2	0.13	0.41	3.4	24	1.6	26.3	2.8
	0.08	21.9	0.12	0.67	4	35	11.4	46	4.51
<0.02		18	0.06	0.55	2.7	13	7	39	3.82
<0.02		3.7	1.15	0.47	2.2	189	7.1	42	2.86
	0.03	4.5	0.06	0.08	1.8	35	6	5.1	0.46
	0.03	8.2	0.04	0.21	2.1	46	0.7	12.6	1.45
<0.02		13.3	0.07	0.37	4.3	42	1.2	21.9	2.63
	0.1	4.2	0.09	0.09	1.6	52	8	6.1	0.59
	0.03	5.6	<0.02	0.14	2.1	44	16.3	6.7	0.71
	0.03	17	0.1	0.66	3	32	12.3	41	4.04
	0.03	17.4	0.1	0.54	5.2	9	1.7	32	3.57
<0.02		17	0.1	0.52	3.5	18	1.6	32.2	3.65
	0.06	15.8	0.1	0.52	3.5	<8	14.2	32.8	3.43
	0.04	14.3	0.42	0.84	6.4	209	17.2	52.8	5.08
	0.08	12.5	0.37	0.63	4.8	196	14.5	41.4	4.06
	0.33	6.1	0.36	0.23	2.8	72	3.4	14.1	1.34
	0.06	9	0.34	0.48	3.4	62	16.2	29.6	3.26
	0.47	3.9	0.45	0.3	1.4	189	15.9	19.1	1.94
	0.37	7.3	1.53	0.27	1.9	148	18.5	21.3	1.75
	0.07	10.9	0.27	0.31	3.3	51	6.7	18.4	2.1
	0.05	10.8	0.56	0.33	3	61	3.6	20.7	2.27
<0.02		10.7	0.03	0.28	2.8	49	1.2	17.4	2.06
	0.02	17.8	0.04	0.63	3	<8	1.6	37.2	4.16
<0.02		19.3	0.03	0.21	4.9	104	0.9	14.5	1.43
<0.02		15.9	0.15	0.57	2.2	<8	1.8	34	3.67
<0.02		5.2	<0.02	0.25	1.1	187	0.8	19.9	1.62
<0.02		18.9	0.04	1.17	3.3	<8	1.5	128.9	6.52
<0.02		5.1	<0.02	0.23	1.1	189	0.6	16.8	1.51
<0.02		9.2	<0.02	0.23	2.4	30	0.6	14.1	1.53
<0.02		3.2	<0.02	0.25	0.9	174	0.9	16.8	1.57
<0.02		9.2	<0.02	0.22	2.4	39	0.7	14	1.55
<0.02		9.9	<0.02	0.24	2.8	33	0.9	15	1.65
<0.02		10.3	<0.02	0.22	2.7	29	0.9	14	1.7
<0.02		8.4	<0.02	0.21	2.1	44	0.8	13.3	1.41
<0.02		7.6	<0.02	0.22	1.7	79	2.8	14.2	1.61
	0.07	9.4	<0.02	0.36	2.5	183	0.8	23.3	2.38
<0.02		10.4	<0.02	0.34	2.1	144	0.9	21.3	2.35
<0.02		9.2	<0.02	0.31	1.9	161	1.3	18.8	2.11
<0.02		16.3	<0.02	0.19	2.9	226	0.9	16.6	1.44
<0.02		9.5	0.02	0.34	1.7	160	1.1	21.7	2.19
	0.03	1.8	<0.02	0.25	0.6	210	1	17.8	1.51
	0.04	8.8	0.04	0.2	2.2	45	0.8	12.7	1.51
	0.03	7.6	0.03	0.38	2.2	132	1.3	23.1	2.43
<0.02		7.8	0.12	0.22	2.1	42	0.7	14.3	1.61
	0.02	10.9	0.06	0.36	3	61	1.8	23.2	2.58
	0.17	14.1	0.31	0.38	2.1	<8	5.8	18.9	2.59
	0.07	12.8	0.15	0.41	3.4	19	1.1	24.8	2.85
<0.02		2.2	<0.02	0.3	0.6	346	<0.5	19	1.78

<0.02	1.9	0.64	0.28	0.6	208	<0.5	18.4	1.78
0.04	3.8	0.04	0.32	1.1	211	0.6	20.2	1.95
0.02	4.3	<0.02	0.27	1	235	<0.5	18.6	1.79
<0.02	6.1	0.07	0.66	1.4	132	0.9	50.4	3.88
0.08	11.6	0.58	0.34	2.7	118	7.4	22.1	2.32
0.13	12.4	0.12	0.55	3.4	133	8	33.1	3.55
0.02	14.8	0.15	0.73	4.3	143	16.8	44.6	4.64
<0.02	14.8	0.03	0.25	3.1	115	3	14	1.75
0.03	11.4	0.18	0.32	3.6	47	1.7	18.4	2.31
0.25	10	0.22	0.35	3.4	53	2.1	21.7	2.45
0.08	4.6	0.72	0.15	1.5	241	3.2	9.2	1.01
0.22	13.4	0.07	0.24	2.5	145	2.1	13.9	1.73
0.34	13.6	0.1	0.35	3.9	149	2.4	22	2.48
<0.02	3.6	<0.02	0.27	0.8	254	0.7	18.8	1.94
<0.02	9.5	<0.02	0.38	2.6	112	1.6	22.9	2.47

Zn_ppm	Zr_ppm
778.3	90.6
396.5	247.4
584	273.6
577.9	242.9
742.4	278.4
1331.3	146.5
714.5	127.6
4684.9	128.2
2356.8	319.1
587.2	197.4
307.5	125
371.2	445.2
245.3	126.3
71.5	133.1
169.6	386.1
181.9	354.3
88.1	241.8
567.6	127
534.7	319.7
293.8	151.7
171.2	302.9
649.4	467.9
551.7	477.7
911	241.6
821.5	236.7
747.9	276.2
851.9	212.4
82.3	168.6
192.1	195.7
2472.2	145.7
238.3	319.3
88.7	277.3
25.7	226.3
137	181.1
68.8	154.8
29.9	134.1
898.2	401.6
206.5	160
214.8	300
1086.8	280.4
182.4	146
205.2	158.9
1374	148.4
199	206.6
15.4	202.4
101.1	158.5
69.4	202.8
234.8	159.9
138.8	161.6
353.4	382.2
699.4	73.2

321.1	315
1211.7	120.1
389.6	274.4
726.7	152.3
178.3	201.1
548.2	218
1460.8	179.8
220	259
226.4	450.8
369.4	153.9
131.9	160.3
114.1	140.5
209.4	215.9
14.7	190.9
43.9	111.8
11.2	186.1
22.1	174.3
39.6	253.4
10.9	302.1
35.4	309
7.9	310.9
1123.8	160.2
1169.4	161
835.8	95.2
2073.4	220.7
326.9	174.3
322.5	217.7
231.2	206.4
145.6	38.3
372.6	44
137.2	402.1
126.7	370.4
186	256.6
74.8	361.4
88.9	184.5
651.1	163
1771	148.5
137.4	324.7
38.1	58.9
42.2	148.3
62	124.6
52.7	125.4
50.5	103
9.8	141.2
79.6	200
103.1	161.2
85.8	182.9
123.7	174.6
200.3	115.6
710.6	106.4
774.3	123.3
323.1	170.2

130.4	180.9
189.1	165.2
158.5	253.9
102.4	207.9
130.3	182.5
63.2	115.6
84	178.5
254.1	131.1
364.1	121.1
109.9	122.2
73.1	76
32.1	109.9
68.3	99.9
121.3	172.6
126.5	218.7
98.3	192.3
193.3	198.8
674.8	358.2
753.9	242.1
204.3	122.8
186.7	219.6
668.7	97
442.1	274.1
296.1	96.2
226.3	111.1
361.8	90.9
16.7	177.5
39.9	129.2
12	188.5
71.7	96.9
32.4	183.2
59.5	100
32.1	104.7
91.1	114.5
47.6	118.2
97.8	98.9
26.1	101.7
37.5	111.9
48.6	118.2
27.2	159.8
41.9	157.6
34	134
69.1	102
55.4	128.3
61.6	105.5
27.4	104.4
2358.7	112.7
65.3	121.4
95.4	90.6
57.5	188.4
230.5	141.1
64.8	58.4

132.2	76.4
99.7	75.8
60.2	84
329.3	110.4
714.3	184.8
1944.5	202.6
161.2	315.2
165.9	217.6
100.8	105.2
120	100.3
1091.7	84.4
196.6	191.5
258.1	261.9
120.4	91.4
155.9	172.6

Sample_ID	Deposit	Material	Analysis #	O_Pct_EMP	Na_Pct_EMP	Mg_Pct_EMP	Al_Pct_EMP	Si_Pct_EMP
CL09MB009	La Grande	Epidote	CL09MB009 C	40.05	-0.02	0.04	11.27	17.47
CL09MB009	La Grande	Epidote	CL09MB009 C	40.31	0.02	0.01	11.91	17.55
CL09MB010	La Grande	Epidote	CL09MB010 C	40.19	0.01	0.01	11.5	17.57
CL09MB010	La Grande	Epidote	CL09MB010 C	39.1	0.02	0.04	10.5	17.11
CL09MB010	La Grande	Epidote	CL09MB010 C	40.78	0.31	0.02	12.3	18.27
CL09MB011	La Grande	Epidote	CL09MB011 C	40.25	0.02	0.03	12.02	17.32
CL09MB011	La Grande	Epidote	CL09MB011 C	40.11	-0.02	0	11.95	17.3
CL09MB011	La Grande	Epidote	CL09MB011 C	40.68	0	0.05	12.77	17.51
CL09MB011	La Grande	Epidote	CL09MB011 C	40.29	0.02	0.01	11.97	17.47
CL09MB012	La Grande	Epidote	CL09MB012 C	39.73	-0.01	0.03	10.77	17.44
CL09MB012	La Grande	Epidote	CL09MB012 C	40.34	0	0.04	12.09	17.49
CL09MB013	La Grande	Epidote	CL09MB013 C	40.29	-0.01	0	12.12	17.43
CL09MB013	La Grande	Epidote	CL09MB013 C	40.23	-0.03	0.02	11.76	17.44
CL09MB013	La Grande	Epidote	CL09MB013 C	40.63	0.1	0.03	12.55	17.73
CL09MB014	La Grande	Epidote	CL09MB014 C	40.65	0.02	0.01	12.57	17.54
CL09MB014	La Grande	Epidote	CL09MB014 C	40.78	-0.02	0.05	12.59	17.65
CL09MB014	La Grande	Epidote	CL09MB014 C	40.63	0.01	0.02	12.55	17.57
CL09MB014	La Grande	Epidote	CL09MB014 C	40.35	0.02	0.05	12.13	17.42
CL09MB014	La Grande	Epidote	CL09MB014 C	40.26	0	0.32	11.94	17.45
CL09MB015	La Grande	Epidote	CL09MB015 C	39.88	0.01	0.02	11.51	17.34
CL09MB015	La Grande	Epidote	CL09MB015 C	39.96	0.01	0.01	11.61	17.33
CL09MB015	La Grande	Epidote	CL09MB015 C	39.13	0.01	0.03	10.41	17.13
CL09MB021	La Grande	Epidote	CL09MB021-3	39.73	0	0.04	11.23	17.3
CL09MB021	La Grande	Epidote	CL09MB021-4	39.93	0.03	0.02	11.1	17.53
CL09MB021	La Grande	Epidote	CL09MB021-2	39.5	0.04	0.02	10.62	17.45
CL09MB021	La Grande	Epidote	CL09MB021-4	38.04	0.07	0.01	10.92	16.56
CL09MB021	La Grande	Epidote	CL09MB021-1	39.73	-0.01	0.03	11.37	17.25
CL09MB022	La Grande	Epidote	CL09MB022-2	40.86	0.01	0	12.85	17.69
CL09MB022	La Grande	Epidote	CL09MB022-5	40.11	0.01	0	12.06	17.29
CL09MB022	La Grande	Epidote	CL09MB022-3	40.61	0	0.02	13.19	17.28
CL09MB022	La Grande	Epidote	CL09MB022-1	40.82	0.01	0	13.24	17.45
CL09MB022	La Grande	Epidote	CL09MB022-4	41.03	0	0.01	13.48	17.6
CL09MB022	La Grande	Epidote	CL09MB022-1	40.3	0.03	0	12.49	17.41
CL09MB026	La Grande	Epidote	CL09MB026-1	40.33	-0.02	0	12.55	17.38
CL09MB026	La Grande	Epidote	CL09MB026-2	40.22	0.01	-0.01	12.04	17.46
CL09MB026	La Grande	Epidote	CL09MB026-3	40.37	0.01	0	12.07	17.51
CL09MB026	La Grande	Epidote	CL09MB026-4	40.75	-0.01	0	12.88	17.56
CL09MB026	La Grande	Epidote	CL09MB026-5	40.98	0	-0.01	13.21	17.62
CL09MB027	La Grande	Epidote	CL09MB027-1	39.6	0.03	0	11.38	17.28
CL09MB027	La Grande	Epidote	CL09MB027-4	40.17	0.02	0.02	11.91	17.47
CL09MB027	La Grande	Epidote	CL09MB027-5	40.28	0.02	0.03	11.98	17.69
CL09MB027	La Grande	Epidote	CL09MB027-2	40.38	0	0.09	12.51	17.36
CL09MB027	La Grande	Epidote	CL09MB027-3	40.67	0.04	0	12.65	17.68
CL09MB036	La Grande	Epidote	CL09MB036 C	39.59	0	0.03	10.82	17.38
CL09MB036	La Grande	Epidote	CL09MB036 C	39.88	0	-0.02	11.05	17.52
CL09MB036	La Grande	Epidote	CL09MB036 C	39.8	0	0.01	11.22	17.31
CL09MB036	La Grande	Epidote	CL09MB036 C	39.82	-0.01	0.03	11.47	17.41
CL09MB036	La Grande	Epidote	CL09MB036 C	39.48	0.02	0.04	11.23	17.24
CL09MB057	La Grande	Epidote	CL09MB057 C	40.48	0.02	0	12.73	17.41
CL09MB057	La Grande	Epidote	CL09MB057 C	39.59	0.02	0	11.38	17.23
CL09MB057	La Grande	Epidote	CL09MB057 C	39.39	0.03	-0.04	11.08	17.21
CL09MB058	La Grande	Epidote	CL09MB058 C	39.25	0	-0.02	10.2	17.31
CL09MB058	La Grande	Epidote	CL09MB058 C	39.65	0.02	0.01	11.19	17.24
CL09MB058	La Grande	Epidote	CL09MB058 C	39.4	0.07	-0.03	10.74	17.23
CL09MB058	La Grande	Epidote	CL09MB058 C	40.43	0.03	0.01	13.14	17.28
CL09MB059	La Grande	Epidote	CL09MB059 C	40.05	-0.01	0.09	11.94	17.49
CL09MB059	La Grande	Epidote	CL09MB059 C	40.39	-0.03	0.22	12.54	17.57
CL09MB059	La Grande	Epidote	CL09MB059 C	39.4	0.02	1.13	11.86	16.67
CL09MB060	La Grande	Epidote	CL09MB060 C	40	-0.01	-0.05	11.93	17.33
CL09MB060	La Grande	Epidote	CL09MB060 C	39.72	0.01	-0.01	11.76	17.2
CL09MB060	La Grande	Epidote	CL09MB060 C	39.36	0.01	0	11.18	17.14
CL09MB060	La Grande	Epidote	CL09MB060 C	39.79	0.03	0.02	11.74	17.23
CL09MB061	La Grande	Epidote	CL09MB061 C	39.76	0.05	0.01	11.82	17.18
CL09MB061	La Grande	Epidote	CL09MB061 C	40.56	0.02	-0.09	12.52	17.59
CL09MB061	La Grande	Epidote	CL09MB061 C	40.32	0.01	0.01	12.65	17.39
CL09MB061	La Grande	Epidote	CL09MB061 C	40	0.04	-0.15	12.01	17.31
CL09MB062	La Grande	Epidote	CL09MB062 C	38.91	0.01	-0.01	10.75	17.03
CL09MB062	La Grande	Epidote	CL09MB062 C	39.59	0	-0.03	11.17	17.31
CL09MB062	La Grande	Epidote	CL09MB062 C	39.45	-0.01	-0.02	11.82	17.23
CL09MB062	La Grande	Epidote	CL09MB062 C	39.16	0	0	10.48	17.25
CL09MB063	La Grande	Epidote	CL09MB063 C	39.24	0.04	0.05	11.87	16.35

CL09MB063	La Grande	Epidote	CL09MB063 C	40.01	-0.01	0.06	12.41	17.2
CL09MB063	La Grande	Epidote	CL09MB063 C	40.35	-0.01	0.03	12.58	17.46
CL09MB064	La Grande	Epidote	CL09MB064 C	39.81	-0.01	-0.01	11.42	17.38
CL09MB064	La Grande	Epidote	CL09MB064 C	39.19	0.01	0	11.08	17.19
CL09MB065	La Grande	Epidote	CL09MB065 C	39.84	0.09	0	11.5	17.34
CL09MB101	La Grande	Epidote	CL09MB101 C	40.09	0.03	0.04	12	17.41
CL09MB101	La Grande	Epidote	CL09MB101 C	39.81	0.02	0.01	11.25	17.43
CL09MB101	La Grande	Epidote	CL09MB101 C	40.16	0.05	0.01	12.22	17.37
CL09MB102	La Grande	Epidote	CL09MB102 C	39.37	0.01	0.04	10.42	17.34
CL09MB102	La Grande	Epidote	CL09MB102 C	39.68	0	0.04	10.79	17.44
CL09MB102	La Grande	Epidote	CL09MB102 C	39.61	0.01	0.06	11.16	17.3
CL09MB102	La Grande	Epidote	CL09MB102 C	40.24	0.01	0.1	11.99	17.46
CL09MB118	La Grande	Epidote	CL09MB118 C	39.43	0.01	0.09	11.37	17.04
CL09MB118	La Grande	Epidote	CL09MB118 C	39.5	-0.02	0.01	11.54	16.98
CL09MB119	La Grande	Epidote	CL09MB119 C	38.77	0.01	-0.01	10.37	16.86
CL09MB119	La Grande	Epidote	CL09MB119 C	39.32	0.03	0.04	11.38	16.86
CL09MB119	La Grande	Epidote	CL09MB119 C	39.05	0	0.02	11.27	16.74
CL09MB121	La Grande	Epidote	CL09MB121 C	38.67	0.01	-0.01	10.44	16.79
CL09MB028	Rosario	Epidote	CL09MB028-1	39.35	0	-0.01	11.42	16.91
CL09MB028	Rosario	Epidote	CL09MB028-5	40.01	0.06	0	12.23	17.19
CL09MB028	Rosario	Epidote	CL09MB028-3	40	0.03	0.01	11.82	17.34
CL09MB028	Rosario	Epidote	CL09MB028-2	40.17	0.03	0.12	11.89	17.55
CL09MB029	Rosario	Epidote	CL09MB029-1	40.81	0.03	0	12.8	17.6
CL09MB029	Rosario	Epidote	CL09MB029-3	39.85	0.04	0.02	10.98	17.56
CL09MB029	Rosario	Epidote	CL09MB029-5	39.49	0.02	0.04	10.84	17.25
CL09MB029	Rosario	Epidote	CL09MB029-2	39.58	0.02	0.1	10.67	17.4
CL09MB029	Rosario	Epidote	CL09MB029-4	40.31	0.02	0	12.19	17.49
CL09MB029	Rosario	Epidote	CL09MB029-4	39.46	0.02	0.04	10.93	17.3
CL09MB031	Rosario	Epidote	CL09MB031 C	41.19	0.02	0.01	13.61	17.61
CL09MB031	Rosario	Epidote	CL09MB031 C	40.29	0	0.06	11.77	17.66
CL09MB031	Rosario	Epidote	CL09MB031 C	40.98	0.08	0.03	12.78	17.82
CL09MB031	Rosario	Epidote	CL09MB031 C	40.4	0.02	0.03	12.1	17.52
CL09MB031	Rosario	Epidote	CL09MB031 C	40.43	0.03	0.01	12.13	17.58
CL09MB032	Rosario	Epidote	CL09MB032 C	38.09	-0.01	0.01	12.44	17.67
CL09MB032	Rosario	Epidote	CL09MB032 C	40.34	0.02	0.02	11.89	17.51
CL09MB032	Rosario	Epidote	CL09MB032 C	40.92	0	0.02	12.49	17.8
CL09MB033	Rosario	Epidote	CL09MB033 C	40.34	0.01	0	12	17.62
CL09MB033	Rosario	Epidote	CL09MB033 C	40.24	0	0	12.16	17.47
CL09MB033	Rosario	Epidote	CL09MB033 C	40.53	0.01	-0.01	12.46	17.53
CL09MB033	Rosario	Epidote	CL09MB033 C	40.73	-0.01	-0.02	12.54	17.79
CL09MB091	Rosario	Epidote	CL09MB091 C	40.6	0.01	0.14	12.23	17.74
CL09MB091	Rosario	Epidote	CL09MB091 C	40.63	0	0.05	12.17	17.76
CL09MB091	Rosario	Epidote	CL09MB091 C	40.83	0	0.09	12.85	17.73
CL09MB092	Rosario	Epidote	CL09MB092 C	39.88	0.04	0.01	11.46	17.38
CL09MB092	Rosario	Epidote	CL09MB092 C	39.77	0.06	0.11	11.42	17.45
CL09MB092	Rosario	Epidote	CL09MB092 C	39.62	0.03	0.03	11.42	17.37
CL09MB093	Rosario	Epidote	CL09MB093 C	40.82	0.04	0.05	12.69	17.81
CL09MB093	Rosario	Epidote	CL09MB093 C	40.82	-0.01	0.06	12.88	17.69
CL09MB093	Rosario	Epidote	CL09MB093 C	41.5	0.01	0.04	13.88	17.89
CL09MB094	Rosario	Epidote	CL09MB094 C	40.25	0.04	0.01	12.15	17.39
CL09MB094	Rosario	Epidote	CL09MB094 C	40.33	0.02	0	11.98	17.59
CL09MB094	Rosario	Epidote	CL09MB094 C	40.91	0	0	13.17	17.53
CL09MB094	Rosario	Epidote	CL09MB094 C	40.88	-0.01	0.02	13.17	17.62
CL09MB096	Rosario	Epidote	CL09MB096 C	40.79	0.02	0.04	12.87	17.59
CL09MB097	Rosario	Epidote	CL09MB097 C	41.41	0.01	0.01	13.7	17.74
CL09MB097	Rosario	Epidote	CL09MB097 C	40.85	0.02	0.02	12.68	17.7
CL09MB098	Rosario	Epidote	CL09MB098 C	39.94	0.02	-0.03	11.84	17.33
CL09MB098	Rosario	Epidote	CL09MB098 C	39.71	0	0	11.38	17.4
CL09MB098	Rosario	Epidote	CL09MB098 C	40.28	-0.01	-0.02	11.68	17.53
CL09MB098	Rosario	Epidote	CL09MB098 C	40.2	0.01	-0.02	11.82	17.39
CL09MB099	Rosario	Epidote	CL09MB099 C	39.52	-0.01	0.04	11.27	17.05
CL09MB099	Rosario	Epidote	CL09MB099 C	39.99	-0.01	0.02	11.68	17.4
CL09MB099	Rosario	Epidote	CL09MB099 C	40.23	0.07	0.07	11.87	17.55
CL09MB099	Rosario	Epidote	CL09MB099 C	40.62	-0.01	0.09	12.18	17.67
CL09MB104	Rosario	Epidote	CL09MB104 C	40.38	0	0.02	11.94	17.59
CL09MB104	Rosario	Epidote	CL09MB104 C	39.29	0	-0.02	10.5	17.29
CL09MB104	Rosario	Epidote	CL09MB104 C	39.86	0.02	0.02	11.58	17.33
CL09MB107	Rosario	Epidote	CL09MB107 C	40.31	0.04	0.03	12	17.44
CL09MB107	Rosario	Epidote	CL09MB107 C	39.7	0	-0.01	11.12	17.42
CL09MB107	Rosario	Epidote	CL09MB107 C	40.12	0.01	0.03	11.57	17.57
CL09MB108	Rosario	Epidote	CL09MB108 C	40.66	0.01	0.12	12.47	17.61
CL09MB108	Rosario	Epidote	CL09MB108 C	40.17	0.01	0.04	12.09	17.4
CL09MB209	Rosario	Epidote	CL09MB209 C	39.97	-0.01	0	11.71	17.44

CL09MB210	Rosario	Epidote	CL09MB210 C	43.26	0	0.02	16.59	18.31
CL09MB210	Rosario	Epidote	CL09MB210 C	43.21	0.09	0.05	16.36	18.43
CL09MB210	Rosario	Epidote	CL09MB210 C	40.57	0.01	0.04	12.74	17.57
TI131104-13	Rosario	Epidote	TI131104-13 5	39.6	-0.01	0.02	10.74	17.07
TI131104-13	Rosario	Epidote	TI131104-13 3	39.78	-0.05	-0.01	11.58	16.99
TI131104-13	Rosario	Epidote	TI131104-13 5	40.18	-0.01	0	11.96	17.32
TI131104-13	Rosario	Epidote	TI131104-13 5	39.67	0.01	0.22	11.15	17.15
TI131104-13	Rosario	Epidote	TI131104-13 1	40.18	-0.01	0.02	11.51	17.3
TI131104-13	Rosario	Epidote	TI131104-13 5	40.54	0.02	0	12.13	17.2
TI131104-13	Rosario	Epidote	TI131104-13 5	39.77	0	0	10.79	17.32
TI131104-13	Rosario	Epidote	TI131104-13 1	40.59	-0.01	0.01	12.51	17.32
TI131104-13	Rosario	Epidote	TI131104-13 3	40.21	-0.02	0.01	11.67	17.36
TI131104-13	Rosario	Epidote	TI131104-13 5	39.77	0	0.18	11.4	17.13
TI131104-13	Rosario	Epidote	TI131104-13 5	40.65	-0.01	0.01	12.49	17.38
TI131104-13	Rosario	Epidote	TI131104-13 5	39.45	0	0.02	11.22	16.97
TI131104-13	Rosario	Epidote	TI131104-13 3	40	-0.02	0	11.51	17.24
TI131104-13	Rosario	Epidote	TI131104-13 5	40.05	0.03	0.18	11.59	17.42
TI131104-13	Rosario	Epidote	TI131104-13 5	39.86	0	0.2	10.5	16.14
TI131104-13	Rosario	Epidote	TI131104-13 5	40.63	0.06	0.96	10.92	18.2
TI131104-13	Rosario	Epidote	TI131104-13 5	39.77	-0.01	-0.01	11.29	17.1
TI131104-13	Rosario	Epidote	TI131104-13 3	39.75	0.03	0.25	11.46	17.02
TI131104-13	Rosario	Epidote	TI131104-13 5	40.07	0.03	0.02	11.86	17.09
TI131104-13	Rosario	Epidote	TI131104-13 1	40.05	-0.02	0	11.9	17.17
TI131104-13	Rosario	Epidote	TI131104-13 5	40.34	0.02	-0.01	11.96	17.3
TI131104-13	Rosario	Epidote	TI131104-13 5	40.45	0.03	0	12.23	17.34
TI131104-13	Rosario	Epidote	TI131104-13 5	40.11	0.01	-0.01	12.19	17.2
TI131104-13	Rosario	Epidote	TI131104-13 5	40.18	0.04	0	12.21	17.18
CL09MB042	Ujina	Epidote	CL09MB042 C	40.12	0.15	0.08	11.31	17.74
CL09MB043	Ujina	Epidote	CL09MB043 C	39.91	0	0	11.28	17.39
CL09MB043	Ujina	Epidote	CL09MB043 C	41.44	0.01	0.01	13.46	17.96
CL09MB043	Ujina	Epidote	CL09MB043 C	40.25	0.01	0.03	12.43	17.45
CL09MB072	Ujina	Epidote	CL09MB072 C	39.77	0.03	0.01	11.32	17.25
CL09MB072	Ujina	Epidote	CL09MB072 C	40.05	0	0.05	11.31	17.48
CL09MB072	Ujina	Epidote	CL09MB072 C	40.69	-0.01	-0.01	12.59	17.62
CL09MB072	Ujina	Epidote	CL09MB072 C	40.62	-0.02	0.11	12.62	17.51
CL09MB073	Ujina	Epidote	CL09MB073 C	40.93	0	0.32	12.36	17.7
CL09MB073	Ujina	Epidote	CL09MB073 C	40.51	-0.03	0.05	12.35	17.56
CL09MB073	Ujina	Epidote	CL09MB073 C	40.39	0.01	0.03	12.2	17.47
CL09MB074	Ujina	Epidote	CL09MB074 C	40.49	0.03	0.01	12.14	17.55
CL09MB074	Ujina	Epidote	CL09MB074 C	40.02	-0.01	0.04	11.62	17.31
CL09MB074	Ujina	Epidote	CL09MB074 C	40.78	0.02	0.03	12.79	17.66
CL09MB075	Ujina	Epidote	CL09MB075 C	39.96	0.03	0.06	11.26	17.49
CL09MB075	Ujina	Epidote	CL09MB075 C	40.87	0.02	-0.02	12.96	17.64
CL09MB075	Ujina	Epidote	CL09MB075 C	39.79	0	-0.01	11.62	17.37
CL09MB080	Ujina	Epidote	CL09MB080 C	40.56	0.01	0.02	11.9	17.81
CL09MB080	Ujina	Epidote	CL09MB080 C	40.67	0.03	0.2	12.45	17.72
CL09MB080	Ujina	Epidote	CL09MB080 C	40.58	-0.01	0.02	12.51	17.64
CL09MB081	Ujina	Epidote	CL09MB081 C	41.1	0	0.01	13.03	17.8
CL09MB085	Ujina	Epidote	CL09MB085 C	41.49	0	-0.07	13.75	18
CL09MB085	Ujina	Epidote	CL09MB085 C	40.22	0.01	0	11.8	17.68
CL09MB085	Ujina	Epidote	CL09MB085 C	40.25	0	0.01	12.33	17.56
CL09MB085	Ujina	Epidote	CL09MB085 C	39.4	0.03	-0.01	11.64	17.26
CL09MB086	Ujina	Epidote	CL09MB086 C	40.93	0.04	0	12.94	17.99
CL09MB086	Ujina	Epidote	CL09MB086 C	40.17	0	-0.02	12.04	17.56
CL09MB086	Ujina	Epidote	CL09MB086 C	37.99	0.01	0.04	11.66	16.86
CL09MB111	Ujina	Epidote	CL09MB111 C	40.3	0.02	0.06	12.19	17.39
CL09MB111	Ujina	Epidote	CL09MB111 C	39.91	0	0.11	11.61	17.49
CL09MB113	Ujina	Epidote	CL09MB113 C	40.29	0.02	0.02	12.33	17.51
CL09MB113	Ujina	Epidote	CL09MB113 C	40.93	0	0.06	12.74	17.78
CL09MB113	Ujina	Epidote	CL09MB113 C	40.83	-0.01	0.01	12.8	17.65
CL09MB114	Ujina	Epidote	CL09MB114 C	40.51	0.03	0.03	12.7	17.53
CL09MB114	Ujina	Epidote	CL09MB114 C	40.74	0.02	0.05	12.62	17.74
CL09MB114	Ujina	Epidote	CL09MB114 C	40.59	0	0.08	12.71	17.63
CL09MB114	Ujina	Epidote	CL09MB114 C	40.06	-0.01	0.02	12.29	17.34
CL09MB115	Ujina	Epidote	CL09MB115 C	40.87	0.02	0.02	12.94	17.6
CL09MB120	Ujina	Epidote	CL09MB120 C	39.56	0.02	0.01	10.7	17.41
CL09MB120	Ujina	Epidote	CL09MB120 C	39.37	0.01	0.1	10.87	17.27
CL09MB120	Ujina	Epidote	CL09MB120 C	39.39	0.01	0.03	11.27	17.14
CL09MB120	Ujina	Epidote	CL09MB120 C	39.63	0	0.15	11.52	17.41
CL09MB125	Ujina	Epidote	CL09MB125 C	39.69	0.06	0.04	11.12	17.33
CL09MB125	Ujina	Epidote	CL09MB125 C	40.14	0.05	0.11	12	17.48
CL09MB125	Ujina	Epidote	CL09MB125 C	39.72	0.01	0.07	11.65	17.26
CL09MB127	Ujina	Epidote	CL09MB127 C	39.94	0	0.05	11.88	17.26

CL09MB127	Ujina	Epidote	CL09MB127 C	39.9	0.04	0.05	12.02	17.24
CL09MB127	Ujina	Epidote	CL09MB127 C	40.07	-0.01	0.1	11.87	17.43
CL09MB128	Ujina	Epidote	CL09MB128 C	40.35	0.04	-0.01	12.43	17.36
CL09MB129	Ujina	Epidote	CL09MB129 C	39.09	0.04	0.02	10.82	17.56
CL09MB129	Ujina	Epidote	CL09MB129 C	37.73	0	0.4	10.26	16.73
CL09MB130	Ujina	Epidote	CL09MB130 C	35.27	0.01	0.05	10.28	15.72
CL09MB130	Ujina	Epidote	CL09MB130 C	39.93	0.02	0.03	11.8	17.28
CL09MB131	Ujina	Epidote	CL09MB131 C	40.74	0.03	0.03	12.74	17.61
CL09MB132	Ujina	Epidote	CL09MB132 C	40.4	0.01	0.12	11.86	17.58
CL09MB133	Ujina	Epidote	CL09MB133 C	40.17	0	0.05	11.67	17.48
CL09MB134	Ujina	Epidote	CL09MB134 C	40.52	-0.01	0.05	12.73	17.46
CL09MB134	Ujina	Epidote	CL09MB134 C	40.14	0	0.07	11.31	17.61
CL09MB134	Ujina	Epidote	CL09MB134 C	40.05	-0.02	0.07	11.7	17.46
CL09MB134	Ujina	Epidote	CL09MB134 C	39.68	-0.02	0.03	11.1	17.35
CL09MB135	Ujina	Epidote	CL09MB135 C	40.56	0	0.06	12.25	17.67
CL09MB135	Ujina	Epidote	CL09MB135 C	40.39	0	0.24	12.21	17.61
CL09MB136	Ujina	Epidote	CL09MB136 C	40.2	0	0.1	11.68	17.52
CL09MB136	Ujina	Epidote	CL09MB136 C	40.02	0.02	0.02	12.64	17.51
CL09MB137	Ujina	Epidote	CL09MB137 C	40.47	0.04	0.02	12.63	17.54
CL09MB137	Ujina	Epidote	CL09MB137 C	40.68	0	0.04	13.24	17.47
CL09MB139	Ujina	Epidote	CL09MB139 C	40.19	0.01	0.03	12.04	17.26
CL09MB140	Ujina	Epidote	CL09MB140 C	38.52	0.01	0.03	10.47	16.87
CL09MB142	Ujina	Epidote	CL09MB142 C	38.38	0.02	0.01	9.16	16.93
CL09MB142	Ujina	Epidote	CL09MB142 C	40.73	0.06	0.03	12.7	17.7
CL09MB144	Ujina	Epidote	CL09MB144 C	40.15	0.01	0.01	12.04	17.39
CL09MB144	Ujina	Epidote	CL09MB144 C	40.87	0.04	0.01	13.17	17.45
CL09MB144	Ujina	Epidote	CL09MB144 C	40.67	0.01	0	12.9	17.45
CL09MB146	Ujina	Epidote	CL09MB146 C	39.89	0.01	0	11.51	17.28
CL09MB146	Ujina	Epidote	CL09MB146 C	40.01	0.01	0	11.77	17.31
CL09MB146	Ujina	Epidote	CL09MB146 C	40.12	0.01	0.02	12.1	17.37
CL09MB147	Ujina	Epidote	CL09MB147 C	39.76	0.02	0.01	11.22	17.28
CL09MB147	Ujina	Epidote	CL09MB147 C	40.53	-0.01	0	12.67	17.55
CL09MB147	Ujina	Epidote	CL09MB147 C	40.14	-0.02	0.02	12.14	17.35
CL09MB149	Ujina	Epidote	CL09MB149 C	40.45	-0.01	0	12.63	17.45
CL09MB149	Ujina	Epidote	CL09MB149 C	40.44	0	0.05	12.56	17.38
CL09MB150	Ujina	Epidote	CL09MB150 C	40.1	0.01	0.23	12.02	17.28
CL09MB151	Ujina	Epidote	CL09MB151 C	40.21	0.05	0.02	12.16	17.5
CL09MB151	Ujina	Epidote	CL09MB151 C	40.38	0.01	0.01	12.48	17.41
CL09MB151	Ujina	Epidote	CL09MB151 C	39.84	0.03	0.01	11.66	17.29
CL09MB151	Ujina	Epidote	CL09MB151 C	41.23	-0.01	0.03	13.86	17.69
CL09MB151	Ujina	Epidote	CL09MB151 C	40.39	-0.01	0.04	12.7	17.42
CL09MB151	Ujina	Epidote	CL09MB151 C	40.41	0.01	0.01	12.42	17.53
CL09MB151	Ujina	Epidote	CL09MB151 C	40.32	0	0.15	12.3	17.44
CL09MB151	Ujina	Epidote	CL09MB151 C	40.26	0.04	0.03	12.09	17.62
CL09MB151	Ujina	Epidote	CL09MB151 C	40.42	0	0.02	12.17	17.59
CL09MB228	Ujina	Epidote	CL09MB228 C	40.11	0.01	-0.01	11.48	17.45
CL09MB228	Ujina	Epidote	CL09MB228 C	40.66	0.04	0.01	12.32	17.54
CL09MB228	Ujina	Epidote	CL09MB228 C	40.72	0.05	-0.02	12.43	17.7
CL09MB229	Ujina	Epidote	CL09MB229 C	40.02	-0.01	0	11.19	17.52
CL09MB229	Ujina	Epidote	CL09MB229 C	40.57	-0.02	0.01	12.14	17.6
CL09MB229	Ujina	Epidote	CL09MB229 C	40.74	-0.01	0.01	12.58	17.64
CL09MB229	Ujina	Epidote	CL09MB229 C	40.69	-0.02	0.01	12.31	17.64
CL09MB231	Ujina	Epidote	CL09MB231 C	40.64	-0.01	0.03	12.27	17.66
CL09MB231	Ujina	Epidote	CL09MB231 C	40.77	0.03	0.01	12.61	17.62
CL09MB231	Ujina	Epidote	CL09MB231 C	40.41	0.06	0.01	12.31	17.48
CL09MB231	Ujina	Epidote	CL09MB231 C	40.59	0.05	0.04	12.43	17.67
CL09MB232	Ujina	Epidote	CL09MB232 C	40.54	0.02	0	11.96	17.62
CL09MB232	Ujina	Epidote	CL09MB232 C	41.01	0.02	0.02	12.59	17.77
CL09MB232	Ujina	Epidote	CL09MB232 C	40.12	0.04	0.02	11.73	17.37
CL09MB232	Ujina	Epidote	CL09MB232 C	40.61	0.02	0.01	12.66	17.47
CL09MB233	Ujina	Epidote	CL09MB233 C	40.41	0.01	0	11.98	17.55
CL09MB233	Ujina	Epidote	CL09MB233 C	40.61	-0.01	0.01	12.25	17.66
CL09MB233	Ujina	Epidote	CL09MB233 C	40.99	-0.01	0.01	13.24	17.64
CL09MB233	Ujina	Epidote	CL09MB233 C	40.55	0.02	0.03	12.39	17.56

K_Pct_EMP	Ca_Pct_EMP	Ti_Pct_EMP	Mn_Pct_EMP	Fe_Pct_EMP	Total_EMP	Na2O	MgO	Al2O3
0	16.57	0.01	0.22	11.93	97.56	-0.03	0.06	21.29
0.01	16.42	0.02	0.43	10.47	97.16	0.03	0.02	22.51
0.02	16.65	0.01	0.16	11.29	97.41	0.01	0.01	21.72
0.01	16.38	0	0.25	12.62	96.04	0.03	0.07	19.84
0.03	14.85	0.01	1.28	9.04	96.89	0.42	0.04	23.24
-0.01	16.65	0.05	0.37	10.49	97.2	0.03	0.05	22.72
0.01	16.54	0.12	0.48	10.34	96.84	-0.03	0	22.57
0.02	16.44	0.03	0.66	8.91	97.07	0	0.08	24.14
0	16.38	0.04	0.66	10.36	97.21	0.02	0.02	22.62
-0.01	16.56	0.03	0.12	12.57	97.25	-0.01	0.04	20.35
0.06	16.45	0.07	0.19	10.3	97.02	0	0.06	22.85
-0.01	16.64	0.04	0.05	10.39	96.97	-0.01	-0.01	22.91
0.01	16.65	0.01	0.08	11.27	97.46	-0.03	0.03	22.21
0.03	16.33	0.03	0.19	9.1	96.72	0.14	0.05	23.72
0.01	16.73	0.02	0.2	9.49	97.24	0.03	0.02	23.75
0.03	16.4	0.06	0.27	9.69	97.53	-0.02	0.09	23.8
0	16.44	0.03	0.35	9.62	97.21	0.01	0.03	23.71
0.01	16.29	0.02	0.49	10.53	97.29	0.03	0.08	22.92
0.01	15.78	0.01	0.53	10.78	97.08	0	0.52	22.56
0	16.48	0.02	0.15	11.31	96.7	0.01	0.03	21.74
0	16.69	0.02	0.19	10.94	96.78	0.02	0.02	21.94
-0.01	16.32	0.03	0.36	12.88	96.3	0.02	0.05	19.67
0	16.49	0.04	0.18	11.64	96.65	0	0.07	21.23
-0.01	16.39	0.07	0.21	11.92	97.2	0.03	0.04	20.98
0.02	16.29	0.01	0.24	12.44	96.64	0.06	0.04	20.06
0.04	15.64	0.05	0.3	10.63	92.28	0.1	0.01	20.64
0	16.37	0.04	0.32	11.46	96.57	-0.01	0.05	21.48
0	16.75	0.06	0.09	8.77	97.1	0.02	0	24.28
0.01	16.68	0.12	0.1	10.19	96.56	0.01	-0.01	22.78
0	16.77	0.01	0.15	8.44	96.48	0.01	0.03	24.93
0.02	16.83	0.05	0.16	8.2	96.78	0.02	0	25.02
0	16.52	0	0.41	7.91	96.95	-0.01	0.01	25.47
0.02	16.22	0.02	0.43	9.51	96.43	0.04	0	23.6
0	16.55	0	0.08	9.6	96.49	-0.03	0	23.72
0.01	16.61	0.02	0.11	10.23	96.71	0.01	-0.01	22.75
0.02	16.65	0.01	0.17	10.37	97.21	0.02	0.01	22.8
0	16.57	0	0.27	9.09	97.11	-0.01	0	24.33
0.01	16.6	0.02	0.46	8.37	97.27	0	-0.02	24.95
-0.01	16.45	0.02	0.09	11.1	95.95	0.04	0.01	21.5
0	16.58	0.03	0.11	10.42	96.71	0.02	0.03	22.5
0.02	16.16	0.03	0.16	10.18	96.55	0.03	0.04	22.64
0.01	16.55	0.04	0.17	9.53	96.63	0	0.15	23.63
0.01	16.29	0.04	0.3	9.23	96.9	0.05	0	23.9
0.01	16.43	0.01	0.5	11.94	96.72	0	0.06	20.44
0	16.59	0.02	0.52	11.55	97.14	0	-0.03	20.88
-0.01	16.27	0.02	0.68	11.84	97.15	0	0.01	21.19
0	16.07	0.02	1.12	10.54	96.48	-0.02	0.05	21.66
0	15.97	0.01	1.29	10.67	95.96	0.03	0.06	21.21
0.01	16.93	0.01	0.05	8.85	96.48	0.02	0	24.05
0.02	16.27	0.05	0.06	11.44	96.06	0.03	0	21.5
0	16.26	0.02	0.14	11.84	95.98	0.04	-0.06	20.94
0.01	16.57	0	0.02	13.42	96.77	0	-0.03	19.27
0.01	16.45	0.02	0.06	12	96.66	0.02	0.01	21.15
0.01	16.57	0	0.07	12.49	96.57	0.09	-0.04	20.29
0	16.56	0	0.2	8.26	95.91	0.04	0.01	24.83
0.21	15.49	0.06	0.63	10.49	96.45	-0.01	0.15	22.56
0.32	15.01	0.05	0.75	9.65	96.51	-0.04	0.36	23.7
0.15	13.23	0.04	1.05	12.11	95.66	0.03	1.87	22.41
-0.01	16.52	0.08	0.14	10.43	96.43	-0.01	-0.09	22.55
0.01	16.32	0	0.15	10.84	96.02	0.02	-0.02	22.23
0	16.24	0.01	0.31	11.54	95.79	0.01	0	21.13
0	16.55	0	0.36	10.45	96.17	0.04	0.03	22.18
0	16.47	0.02	0.06	10.63	96.01	0.06	0.02	22.34
0.01	16.35	0.02	0.23	9.89	97.18	0.03	-0.16	23.66
0.02	16.28	0.01	0.35	9.21	96.25	0.02	0.01	23.9
0.01	16.11	0.02	0.52	10.77	96.79	0.05	-0.24	22.68
0	15.89	0.04	0.23	12.21	95.08	0.02	-0.02	20.32
0.01	16.25	0.02	0.34	11.7	96.38	0	-0.04	21.1
0.02	15.79	0.05	0.36	10.04	94.76	-0.01	-0.03	22.32
0.01	15.97	0.02	0.44	12.76	96.1	0	0.01	19.8
0.12	14.86	0.12	0.34	13.49	96.48	0.06	0.08	22.43

0.12	15.76	0.05	0.35	10.09	96.05	-0.02	0.1	23.45
0.06	16.24	0.04	0.36	9.15	96.27	-0.02	0.06	23.77
0.02	16.47	0	0.11	11.35	96.56	-0.01	-0.02	21.58
-0.01	16.11	0.01	0.23	11.31	95.14	0.01	0	20.94
0	16.31	0.04	0.31	11.16	96.58	0.12	0	21.73
0	16.47	0.07	0.13	10.07	96.3	0.05	0.07	22.68
-0.01	16.41	0.05	0.17	11.51	96.66	0.03	0.01	21.26
0.01	16.31	0.03	0.29	9.98	96.43	0.06	0.02	23.09
0	16.53	0.03	0.1	12.77	96.61	0.01	0.07	19.69
0	16.29	0.14	0.13	12.41	96.92	0.01	0.06	20.39
-0.01	16.33	0.02	0.27	11.58	96.34	0.01	0.1	21.09
0.02	16.36	0.03	0.31	10.35	96.89	0.01	0.17	22.65
0	15.91	0.07	0.84	11.18	95.93	0.02	0.14	21.48
0.03	15.72	0.03	1.22	11.3	96.32	-0.02	0.01	21.8
0	16.28	-0.01	0.11	13.3	95.69	0.01	-0.01	19.59
0.03	16.52	0.01	0.23	11.44	95.85	0.04	0.06	21.5
-0.01	16.45	0.01	0.31	11.47	95.32	0	0.03	21.3
0.02	16.37	0.05	0.12	12.75	95.22	0.02	-0.02	19.72
0.01	16.08	0.07	0.33	11.77	95.94	0	-0.01	21.57
0	15.93	0.02	0.35	10.67	96.45	0.08	0	23.1
0	16.31	0.01	0.41	10.75	96.67	0.03	0.02	22.33
0.01	15.96	0.01	0.56	10.36	96.66	0.04	0.19	22.47
0.01	16.83	0.06	0.09	8.95	97.2	0.04	0	24.19
0	16.5	0.01	0.1	12	97.04	0.05	0.03	20.75
0.02	16.52	0.1	0.17	12.02	96.48	0.03	0.07	20.48
0	16.54	0.01	0.25	12.24	96.82	0.02	0.17	20.16
0.03	16.58	0.06	0.3	9.74	96.7	0.02	-0.01	23.03
0.15	16.05	0.01	0.35	12.04	96.34	0.02	0.07	20.65
0	16.98	0.01	0.1	7.64	97.17	0.03	0.02	25.72
-0.01	16.39	0.06	0.11	10.65	96.99	0	0.09	22.24
0.01	16.52	0.04	0.37	8.83	97.46	0.1	0.05	24.14
0.01	16.32	0.06	0.53	10.25	97.24	0.03	0.05	22.86
0	16.08	0.03	0.69	10.3	97.28	0.04	0.02	22.92
-0.01	16.99	0.04	0	0.28	85.52	-0.01	0.02	23.5
0	16.7	0.04	0.15	10.64	97.32	0.02	0.03	22.47
0.01	16.39	0.02	0.47	9.91	98.02	0	0.03	23.59
-0.01	16.5	0.01	0.26	10.19	96.94	0.02	0	22.67
-0.01	16.44	0.02	0.33	9.91	96.59	0	0	22.98
0.01	16.4	0.01	0.36	9.81	97.12	0.02	-0.01	23.53
-0.01	15.99	0	0.83	9.44	97.33	-0.02	-0.04	23.69
-0.01	16.26	0.03	0.15	9.98	97.14	0.01	0.24	23.11
-0.01	16.25	0.04	0.3	10.26	97.45	0	0.08	22.99
0.01	16.24	0.01	0.37	8.85	96.99	0.01	0.15	24.28
0	16.3	0.07	0.12	11.43	96.67	0.05	0.01	21.65
0.01	15.79	0.1	0.32	11.04	96.08	0.08	0.18	21.58
0	15.39	0.02	0.76	11.38	96.03	0.04	0.05	21.58
0.02	16.45	0.01	0.09	9.04	97.04	0.05	0.09	23.98
0.01	16.66	0.03	0.09	8.64	96.88	-0.01	0.11	24.33
0.01	16.32	0.01	0.32	7.44	97.42	0.02	0.06	26.23
0.01	16.76	0.01	0.11	10.07	96.79	0.05	0.02	22.95
-0.01	16.43	0.04	0.15	10.48	97.02	0.03	0	22.63
-0.01	16.74	0	0.18	8.7	97.22	0	0	24.88
0	16.34	0.05	0.4	8.41	96.88	-0.01	0.03	24.88
0.01	16.55	0.04	0.28	8.88	97.06	0.02	0.06	24.32
0.02	16.86	0.02	0.19	7.68	97.64	0.02	0.02	25.89
0	16.5	0.03	0.37	9.29	97.47	0.02	0.04	23.95
-0.01	16.61	0.09	0.11	10.3	96.25	0.03	-0.04	22.37
0.13	16.19	0.04	0.16	11.18	96.19	0	-0.01	21.5
0.01	16.75	0.02	0.19	11.04	97.51	-0.01	-0.03	22.08
0.01	16.73	0.11	0.21	10.73	97.19	0.01	-0.03	22.33
0.02	16.18	0.05	0.09	12.3	96.52	-0.01	0.07	21.3
0	16.47	0.02	0.14	10.96	96.67	-0.02	0.03	22.08
0.02	16.43	0.05	0.27	10.21	96.78	0.09	0.12	22.44
0.01	16.39	0.05	0.36	10.18	97.54	-0.01	0.14	23.01
0.02	16.59	0.02	0.07	10.6	97.24	0	0.03	22.57
0.01	16.46	0.03	0.08	12.74	96.39	0	-0.04	19.84
0	16.69	0.01	0.08	10.83	96.42	0.02	0.03	21.89
0.01	16.75	0.01	0.1	10.53	97.21	0.06	0.04	22.67
0.01	16.33	0.02	0.16	11.82	96.58	0	-0.02	21
0.02	16.4	0.02	0.17	11.08	96.98	0.01	0.04	21.86
-0.01	16.53	0	0.24	9.59	97.23	0.02	0.2	23.56
0	15.69	0.01	0.76	10.71	96.87	0.02	0.06	22.84
0	16.52	0.04	0.08	10.64	96.4	-0.01	0.01	22.13

0.02	17.19	0.01	0.28	2.36	98.04	0	0.04	31.35
0.01	16.92	0.02	0.29	2.54	97.93	0.13	0.09	30.91
-0.02	16.36	0.02	0.29	8.95	96.56	0.01	0.07	24.07
0	16.71	0.15	0.05	13.11	97.61	-0.01	0.03	20.29
0	16.81	0.03	0.05	11.67	97.24	-0.07	-0.01	21.88
-0.02	16.45	0.06	0.06	10.76	97.28	-0.02	0	22.6
-0.02	16.02	0.03	0.06	12.44	97.34	0.01	0.37	21.07
0	16.74	0.04	0.08	11.76	98.2	-0.02	0.03	21.75
0.01	16.77	0.5	0.08	10.35	98.12	0.03	0.01	22.92
-0.06	16.3	0.05	0.1	12.97	97.84	0	0	20.4
0	16.65	0.06	0.1	10.01	97.82	-0.02	0.02	23.64
0	16.67	0.06	0.1	11.58	97.8	-0.02	0.01	22.05
0.02	15.97	0.02	0.11	12	97.18	0	0.29	21.54
0.03	16.62	0.07	0.11	10.07	98.12	-0.01	0.02	23.6
0	16.45	0.2	0.12	11.71	96.39	-0.01	0.04	21.21
0	16.62	0.04	0.13	11.88	97.71	-0.03	-0.01	21.74
0	16.14	0.06	0.17	10.98	97.07	0.03	0.29	21.9
-0.01	16.99	1.16	0.17	10.91	97.45	0	0.33	19.83
0.01	16.04	0.04	0.19	10.35	97.86	0.08	1.59	20.62
0.01	16.34	0.04	0.25	12.18	97.54	-0.01	-0.01	21.33
0.04	15.75	0.06	0.32	11.81	97.2	0.05	0.41	21.66
-0.01	16.18	0	0.32	11.6	97.77	0.04	0.03	22.41
-0.02	16.19	0.02	0.38	11.31	97.51	-0.03	0	22.49
0.01	16.06	0.03	0.5	11.52	98.28	0.03	-0.01	22.61
0.02	15.79	0.03	0.82	10.85	98.13	0.04	0.01	23.1
0.02	15.27	0.03	1.08	10.96	97.4	0.02	-0.02	23.03
-0.01	15.33	0	1.18	10.84	97.75	0.05	0	23.07
0.05	15.98	0.04	0.3	11.32	97.07	0.2	0.13	21.36
0	16.06	0.02	0.8	11.87	97.34	0.01	0	21.31
0.08	15.9	0.03	1.35	7.73	97.98	0.02	0.02	25.44
0.1	15.53	0.08	1.39	9.08	96.35	0.01	0.05	23.5
0	16.59	0.01	0.09	11.8	96.87	0.04	0.01	21.38
0.02	16.65	0.11	0.21	11.38	97.26	0	0.08	21.36
0.02	16.32	0.07	0.55	9.43	97.28	-0.01	-0.02	23.79
0.02	16.22	0.03	0.6	9.38	97.13	-0.02	0.19	23.85
0.04	16.71	0.12	0.26	9.54	97.97	0	0.53	23.35
0.01	16.09	0	0.7	10.03	97.3	-0.04	0.09	23.33
0	15.79	0	1.17	10.33	97.39	0.01	0.05	23.05
-0.01	16.57	0.03	0.11	10.5	97.44	0.04	0.02	22.95
0.06	16.41	0.04	0.56	11.14	97.2	-0.01	0.06	21.95
0	16.24	0.01	0.57	9.08	97.18	0.03	0.05	24.17
0.01	16.23	0	0.81	11.37	97.22	0.04	0.1	21.28
-0.02	16.33	0.01	0.91	8.59	97.34	0.03	-0.03	24.48
-0.01	15.54	0.03	1.41	10.61	96.39	0	-0.02	21.96
0.01	16.58	0.01	0.16	10.45	97.51	0.02	0.04	22.48
0.04	16.17	0.03	0.39	9.3	96.99	0.04	0.33	23.53
0.01	15.86	0.01	0.92	9.54	97.08	-0.01	0.03	23.64
0.01	16.75	0.02	0.34	8.47	97.53	0	0.02	24.62
0.02	16.47	0.01	0.2	7.53	97.46	0	-0.12	25.98
0.01	15.93	0	0.36	10.83	96.85	0.01	-0.01	22.31
0.01	15.57	0.01	0.91	9.68	96.33	0	0.01	23.3
-0.02	15.21	0	1.04	10.49	95.08	0.04	-0.02	22
0.33	15.8	0.11	0.51	8.09	96.74	0.05	0.01	24.44
0	15.79	0	0.84	10.17	96.57	0	-0.04	22.75
0.05	13.59	0.05	1.4	8.74	90.4	0.01	0.07	22.04
0.01	16.62	0.02	0.22	10.07	96.89	0.03	0.09	23.03
0.01	15.96	0.03	0.39	10.74	96.24	-0.01	0.18	21.95
0.08	16.36	0.1	0.22	9.36	96.29	0.03	0.03	23.29
0.05	16.61	0.01	0.39	8.86	97.43	0	0.09	24.07
0.02	16.62	0.08	0.41	8.82	97.24	-0.01	0.02	24.18
0.1	16.32	0.02	0.52	8.74	96.52	0.04	0.05	24
0.02	16.41	0.02	0.66	8.74	97.03	0.03	0.08	23.85
0.22	15.88	0.02	0.76	8.85	96.74	0	0.14	24.01
0.01	15.68	0.01	1.48	9.27	96.17	-0.01	0.04	23.23
0.01	16.54	0.02	0.44	8.85	97.31	0.03	0.03	24.45
0.01	16.41	0	0.21	12.45	96.79	0.03	0.02	20.22
0.1	16.1	0.01	0.39	11.81	96.03	0.02	0.17	20.54
0.06	15.96	0.06	0.62	11.21	95.74	0.01	0.05	21.3
0.25	15.29	0.03	0.72	10.68	95.69	0	0.26	21.76
0.01	16.24	0.11	0.24	11.8	96.64	0.08	0.07	21.01
0.01	16.22	0.04	0.25	10.13	96.41	0.06	0.17	22.67
-0.01	16.3	0.04	0.32	10.53	95.9	0.02	0.12	22.01
0	16.41	0.05	0.15	10.61	96.38	0	0.09	22.45

0.01	16.34	0.05	0.19	10.16	96	0.06	0.08	22.71
-0.01	16.27	0.03	0.2	10.54	96.51	-0.02	0.16	22.42
0	16.21	0.05	0.8	9.67	96.92	0.05	-0.02	23.48
0.01	15.29	0.03	0.34	11.2	94.39	0.05	0.04	20.45
-0.03	14.3	0.03	0.66	11.71	91.82	0.01	0.66	19.4
-0.01	13.12	0.26	0.35	9.3	84.37	0.01	0.09	19.43
-0.02	16.36	0.02	0.39	10.73	96.54	0.02	0.04	22.29
0.01	16.4	0.02	0.54	9.06	97.19	0.04	0.04	24.07
0	16	0.13	0.93	10.43	97.46	0.02	0.2	22.41
0.01	16.53	0.12	0.37	10.63	97.03	0	0.08	22.05
-0.01	16.38	0.04	0.42	9.03	96.63	-0.01	0.08	24.05
0.01	16.39	0.09	0.51	11.24	97.36	-0.01	0.11	21.36
0	16.24	0.08	0.57	10.52	96.69	-0.03	0.11	22.11
0.01	16.14	0.14	0.58	11.63	96.65	-0.02	0.04	20.97
0	16.5	0.03	0.18	9.87	97.12	0.01	0.09	23.15
0.02	16	0.03	0.27	9.83	96.6	0	0.4	23.07
0.03	16.21	0.38	0.25	10.37	96.75	0.01	0.17	22.07
0	16.14	0.09	0.52	7.52	94.47	0.02	0.03	23.89
0.01	16.38	0.02	0.15	9.19	96.44	0.06	0.03	23.86
0.01	16.26	0.01	0.24	8.36	96.31	0	0.07	25.02
0	16.21	0.17	0.39	10.75	97.06	0.01	0.06	22.76
-0.02	15.73	0.08	0.12	12.55	94.38	0.02	0.05	19.78
0.01	16.33	-0.02	0.06	15.39	96.29	0.03	0.01	17.31
0.02	16.3	0.02	0.61	8.81	96.99	0.08	0.06	24
-0.01	16.58	0.01	0.19	10.27	96.65	0.01	0.02	22.75
0	16.87	0.01	0.2	8.56	97.18	0.05	0.02	24.88
-0.01	16.65	0.01	0.29	8.97	96.95	0.01	0	24.38
0	16.46	0.06	0.24	11.41	96.87	0.02	0	21.75
0	16.37	0.02	0.36	11.05	96.89	0.01	0	22.23
0.01	15.9	0	0.81	10.32	96.66	0.02	0.04	22.87
0.01	16.62	0.07	0.11	11.71	96.82	0.02	0.02	21.21
0.02	16.58	0.16	0.26	8.61	96.38	-0.01	0	23.94
-0.01	16.29	0.03	0.29	10.32	96.59	-0.03	0.03	22.95
0	16.67	0.07	0.13	9.05	96.45	-0.01	0	23.86
0.01	16.61	0.02	0.23	9.47	96.79	0	0.09	23.73
0.02	16.05	0.18	0.29	10.3	96.48	0.02	0.38	22.71
0.12	16.32	0.03	0.01	9.99	96.41	0.07	0.03	22.97
0	16.65	0.02	0.03	9.65	96.65	0.02	0.02	23.59
-0.01	16.49	0.01	0.03	11.03	96.39	0.04	0.02	22.03
0.06	16.59	0	0.04	7.32	96.81	-0.02	0.05	26.18
0.02	16.47	0	0.05	9.13	96.22	-0.01	0.06	24.01
0.01	16.56	0.01	0.06	9.6	96.62	0.01	0.01	23.46
0.01	16.46	0.05	0.07	9.68	96.49	0	0.24	23.25
0.07	16.19	0.03	0.08	10.06	96.47	0.06	0.04	22.84
0	16.38	-0.01	0.17	10.32	97.09	0.01	0.03	23
0.01	16.68	0.01	0.11	11.6	97.45	0.01	-0.01	21.68
-0.01	16.69	0	0.16	10.42	97.84	0.06	0.02	23.27
0	16.56	0.01	0.29	9.75	97.51	0.07	-0.03	23.48
0.01	16.56	0	0.15	12.06	97.51	-0.01	0.01	21.14
0.01	16.65	0	0.27	10.41	97.67	-0.03	0.02	22.94
-0.02	16.41	0.01	0.45	9.64	97.49	-0.01	0.02	23.77
0.01	16.39	0.03	0.66	10.07	97.8	-0.02	0.02	23.25
0.01	16.75	-0.01	0.15	10.02	97.52	-0.02	0.04	23.18
-0.01	16.84	0	0.17	9.4	97.44	0.04	0.01	23.82
0.01	16.59	0.03	0.32	9.69	96.91	0.08	0.02	23.26
0.02	16.31	0.05	0.37	9.44	96.95	0.06	0.06	23.48
0.02	16.82	0.01	0.13	10.68	97.8	0.03	-0.01	22.6
-0.01	16.83	0.01	0.14	9.68	98.08	0.02	0.03	23.79
0.01	16.67	0.01	0.17	11	97.15	0.06	0.02	22.16
0.02	16.45	0.08	0.42	9.34	97.08	0.03	0.02	23.93
0.01	16.69	0.02	0.07	10.69	97.43	0.01	0	22.64
0.03	16.58	0.11	0.1	9.99	97.33	-0.01	0.02	23.16
0.01	16.7	0.04	0.15	8.3	97.08	-0.02	0.02	25.02
0.01	16.37	0.03	0.21	10.04	97.22	0.03	0.04	23.42

SiO2	K2O	CaO	TiO2	MnO	FeO	Total
37.38	0	23.19	0.01	0.29	15.35	97.57
37.55	0.02	22.97	0.03	0.55	13.47	97.16
37.59	0.02	23.3	0.02	0.2	14.53	97.41
36.61	0.01	22.92	-0.01	0.32	16.24	96.04
39.08	0.04	20.78	0.02	1.65	11.63	96.89
37.06	-0.01	23.3	0.08	0.48	13.49	97.2
37.01	0.01	23.14	0.19	0.61	13.31	96.85
37.46	0.03	23	0.05	0.85	11.47	97.07
37.37	0	22.92	0.07	0.86	13.33	97.21
37.31	-0.01	23.17	0.05	0.15	16.17	97.25
37.42	0.08	23.01	0.11	0.24	13.25	97.02
37.29	-0.01	23.29	0.06	0.07	13.37	96.98
37.3	0.01	23.3	0.02	0.11	14.5	97.47
37.93	0.04	22.85	0.04	0.24	11.71	96.72
37.53	0.02	23.41	0.04	0.26	12.2	97.24
37.75	0.04	22.94	0.11	0.35	12.46	97.53
37.58	0	23	0.06	0.45	12.37	97.21
37.26	0.01	22.79	0.04	0.63	13.54	97.29
37.33	0.01	22.08	0.02	0.69	13.87	97.08
37.1	0	23.05	0.03	0.19	14.55	96.7
37.08	0.01	23.36	0.03	0.24	14.08	96.78
36.65	-0.02	22.83	0.05	0.46	16.57	96.3
37.01	0	23.07	0.06	0.24	14.98	96.65
37.5	-0.01	22.93	0.12	0.26	15.34	97.2
37.33	0.02	22.79	0.02	0.31	16	96.64
35.44	0.05	21.89	0.09	0.38	13.68	92.28
36.91	0	22.9	0.07	0.42	14.74	96.58
37.85	0.01	23.44	0.11	0.11	11.29	97.1
36.99	0.01	23.34	0.19	0.13	13.1	96.56
36.98	0	23.47	0.02	0.19	10.86	96.48
37.34	0.02	23.54	0.09	0.21	10.55	96.78
37.65	0	23.12	0.01	0.53	10.17	96.95
37.25	0.02	22.69	0.03	0.56	12.24	96.43
37.17	0	23.15	0	0.1	12.36	96.5
37.36	0.01	23.24	0.04	0.14	13.17	96.72
37.46	0.03	23.3	0.02	0.22	13.35	97.21
37.56	0	23.18	0	0.35	11.69	97.12
37.69	0.01	23.23	0.03	0.6	10.77	97.28
36.96	-0.01	23.01	0.04	0.11	14.27	95.95
37.38	0	23.2	0.05	0.14	13.4	96.71
37.85	0.02	22.61	0.05	0.2	13.09	96.55
37.14	0.01	23.16	0.07	0.22	12.26	96.63
37.83	0.01	22.79	0.07	0.38	11.87	96.9
37.19	0.01	22.99	0.02	0.65	15.36	96.72
37.48	0	23.21	0.04	0.67	14.86	97.15
37.03	-0.01	22.76	0.04	0.88	15.23	97.16
37.24	0.01	22.48	0.04	1.44	13.56	96.49
36.89	0	22.34	0.02	1.67	13.73	95.96
37.25	0.01	23.69	0.02	0.06	11.38	96.48
36.87	0.02	22.77	0.08	0.08	14.71	96.06
36.83	0	22.76	0.03	0.18	15.23	96
37.03	0.01	23.18	0	0.03	17.26	96.79
36.88	0.02	23.02	0.04	0.07	15.44	96.66
36.85	0.01	23.18	0	0.09	16.07	96.59
36.97	0	23.17	0	0.26	10.63	95.91
37.42	0.26	21.67	0.1	0.81	13.49	96.45
37.58	0.38	21	0.09	0.97	12.42	96.51
35.66	0.18	18.51	0.06	1.36	15.58	95.66
37.07	-0.01	23.12	0.14	0.18	13.42	96.47
36.79	0.01	22.84	0	0.19	13.95	96.02
36.67	0	22.72	0.01	0.41	14.84	95.79
36.86	0	23.16	0	0.47	13.44	96.17
36.75	0.01	23.05	0.03	0.08	13.67	96.01
37.62	0.01	22.88	0.03	0.3	12.72	97.24
37.2	0.02	22.78	0.02	0.45	11.85	96.25
37.04	0.01	22.54	0.03	0.67	13.85	96.88
36.44	0	22.23	0.07	0.29	15.71	95.09
37.03	0.01	22.74	0.03	0.44	15.06	96.4
36.87	0.03	22.09	0.08	0.47	12.92	94.78
36.9	0.02	22.35	0.03	0.57	16.42	96.1
34.98	0.15	20.8	0.21	0.44	17.35	96.48

36.79	0.14	22.05	0.09	0.46	12.98	96.06
37.34	0.07	22.73	0.07	0.46	11.77	96.27
37.19	0.02	23.04	0	0.15	14.6	96.58
36.78	-0.01	22.55	0.02	0.3	14.55	95.15
37.09	0	22.82	0.06	0.4	14.36	96.58
37.24	0	23.04	0.11	0.16	12.95	96.3
37.28	-0.01	22.97	0.08	0.22	14.81	96.66
37.17	0.01	22.82	0.04	0.38	12.84	96.43
37.1	0	23.12	0.05	0.13	16.43	96.61
37.31	0	22.79	0.23	0.16	15.97	96.92
37.01	-0.01	22.85	0.03	0.35	14.9	96.34
37.36	0.03	22.89	0.06	0.41	13.32	96.89
36.45	0	22.26	0.11	1.08	14.38	95.93
36.33	0.04	21.99	0.04	1.57	14.54	96.32
36.06	0	22.79	-0.01	0.14	17.11	95.7
36.08	0.04	23.11	0.02	0.29	14.72	95.85
35.81	-0.01	23.01	0.01	0.4	14.76	95.32
35.92	0.02	22.9	0.09	0.15	16.4	95.23
36.17	0.02	22.5	0.12	0.42	15.14	95.95
36.77	0	22.29	0.04	0.45	13.72	96.45
37.09	0	22.82	0.02	0.53	13.83	96.67
37.54	0.01	22.33	0.02	0.72	13.33	96.66
37.66	0.02	23.55	0.1	0.12	11.52	97.2
37.56	0	23.09	0.01	0.12	15.43	97.04
36.91	0.03	23.12	0.17	0.22	15.46	96.48
37.22	0	23.15	0.02	0.32	15.75	96.82
37.42	0.04	23.19	0.11	0.38	12.53	96.71
37	0.18	22.46	0.02	0.45	15.49	96.34
37.67	0	23.76	0.01	0.13	9.83	97.17
37.78	-0.01	22.93	0.1	0.15	13.7	96.99
38.13	0.01	23.11	0.07	0.48	11.36	97.46
37.49	0.02	22.83	0.11	0.68	13.18	97.24
37.61	0	22.51	0.04	0.89	13.25	97.28
37.8	-0.01	23.77	0.07	0	0.36	85.52
37.47	0.01	23.37	0.07	0.19	13.69	97.32
38.07	0.01	22.93	0.03	0.61	12.75	98.02
37.7	-0.02	23.08	0.02	0.33	13.11	96.94
37.38	-0.01	23.01	0.04	0.43	12.75	96.59
37.51	0.01	22.95	0.02	0.47	12.63	97.13
38.06	-0.01	22.38	0.01	1.07	12.14	97.35
37.95	-0.01	22.76	0.05	0.2	12.83	97.15
38	-0.01	22.73	0.07	0.38	13.19	97.45
37.93	0.01	22.73	0.02	0.48	11.39	96.99
37.19	0	22.8	0.11	0.15	14.7	96.67
37.34	0.01	22.1	0.17	0.41	14.21	96.08
37.17	0	21.54	0.03	0.98	14.64	96.03
38.09	0.03	23.02	0.02	0.11	11.64	97.04
37.84	0.02	23.31	0.05	0.11	11.11	96.88
38.26	0.01	22.84	0.02	0.41	9.57	97.42
37.2	0.01	23.45	0.02	0.14	12.96	96.79
37.63	-0.01	22.99	0.07	0.19	13.48	97.02
37.5	-0.01	23.42	0	0.23	11.19	97.23
37.7	0	22.86	0.08	0.52	10.82	96.88
37.64	0.01	23.15	0.07	0.37	11.42	97.06
37.95	0.02	23.59	0.03	0.25	9.88	97.64
37.87	0	23.09	0.06	0.48	11.95	97.47
37.08	-0.01	23.25	0.15	0.14	13.25	96.27
37.22	0.16	22.65	0.06	0.21	14.38	96.19
37.51	0.01	23.44	0.04	0.25	14.21	97.52
37.2	0.01	23.4	0.19	0.27	13.8	97.2
36.48	0.02	22.64	0.08	0.12	15.82	96.52
37.22	0	23.04	0.03	0.18	14.1	96.68
37.54	0.02	22.99	0.09	0.35	13.14	96.78
37.81	0.01	22.93	0.08	0.46	13.09	97.54
37.64	0.02	23.21	0.04	0.08	13.64	97.24
36.98	0.01	23.03	0.05	0.1	16.39	96.4
37.08	0	23.35	0.02	0.1	13.93	96.42
37.31	0.01	23.43	0.02	0.12	13.55	97.21
37.27	0.01	22.85	0.03	0.21	15.21	96.58
37.59	0.03	22.95	0.04	0.22	14.25	96.98
37.68	-0.02	23.13	0	0.31	12.33	97.23
37.23	0	21.96	0.01	0.98	13.78	96.88
37.31	0	23.11	0.06	0.1	13.69	96.4

39.16	0.03	24.05	0.01	0.37	3.03	98.04
39.44	0.01	23.68	0.04	0.37	3.27	97.93
37.59	-0.02	22.9	0.03	0.37	11.51	96.56
36.53	-0.01	23.38	0.25	0.07	16.87	97.64
36.34	0	23.52	0.04	0.07	15.02	97.28
37.05	-0.02	23.02	0.11	0.08	13.84	97.31
36.69	-0.02	22.42	0.05	0.08	16	97.37
37.02	-0.01	23.42	0.06	0.1	15.13	98.21
36.8	0.01	23.46	0.84	0.11	13.31	98.13
37.05	-0.07	22.8	0.09	0.12	16.68	97.86
37.05	-0.01	23.3	0.1	0.12	12.88	97.83
37.14	0	23.32	0.09	0.13	14.9	97.84
36.65	0.03	22.35	0.04	0.14	15.44	97.18
37.17	0.04	23.25	0.12	0.15	12.96	98.14
36.31	0	23.02	0.34	0.16	15.07	96.42
36.88	-0.01	23.26	0.07	0.17	15.28	97.74
37.27	0	22.59	0.1	0.22	14.13	97.1
34.53	-0.02	23.78	1.93	0.22	14.03	97.48
38.93	0.01	22.44	0.07	0.25	13.32	97.89
36.59	0.01	22.86	0.06	0.32	15.67	97.56
36.42	0.04	22.04	0.09	0.41	15.2	97.2
36.57	-0.01	22.64	0	0.42	14.92	97.77
36.74	-0.02	22.65	0.04	0.49	14.55	97.54
37.02	0.01	22.47	0.04	0.64	14.82	98.3
37.09	0.02	22.09	0.06	1.05	13.96	98.14
36.8	0.02	21.36	0.05	1.4	14.1	97.42
36.76	-0.01	21.45	0	1.53	13.94	97.76
37.96	0.06	22.36	0.06	0.39	14.56	97.07
37.21	0	22.47	0.04	1.03	15.27	97.34
38.42	0.09	22.25	0.05	1.74	9.95	97.98
37.34	0.12	21.73	0.13	1.79	11.68	96.35
36.9	0	23.22	0.02	0.12	15.18	96.87
37.4	0.03	23.29	0.19	0.27	14.64	97.26
37.7	0.02	22.84	0.11	0.71	12.13	97.29
37.46	0.03	22.7	0.06	0.77	12.07	97.13
37.87	0.05	23.38	0.19	0.33	12.27	97.97
37.56	0.01	22.51	0	0.9	12.9	97.31
37.38	0	22.1	0.01	1.51	13.29	97.39
37.54	-0.01	23.19	0.05	0.14	13.5	97.45
37.02	0.07	22.96	0.07	0.73	14.34	97.21
37.78	0	22.72	0.01	0.74	11.69	97.18
37.41	0.02	22.71	-0.01	1.04	14.63	97.22
37.74	-0.02	22.85	0.01	1.18	11.06	97.35
37.15	-0.02	21.75	0.06	1.83	13.65	96.4
38.09	0.01	23.2	0.02	0.21	13.45	97.51
37.91	0.05	22.62	0.05	0.5	11.96	96.99
37.74	0.02	22.19	0.02	1.18	12.27	97.09
38.07	0.01	23.43	0.03	0.44	10.9	97.53
38.5	0.02	23.04	0.01	0.26	9.69	97.51
37.83	0.01	22.29	0	0.46	13.93	96.85
37.57	0.01	21.79	0.02	1.17	12.45	96.33
36.93	-0.02	21.29	0	1.34	13.49	95.09
38.49	0.39	22.11	0.19	0.65	10.41	96.74
37.56	0	22.1	0.01	1.08	13.09	96.59
36.07	0.06	19.01	0.08	1.81	11.24	90.4
37.2	0.02	23.26	0.04	0.28	12.95	96.89
37.41	0.01	22.33	0.05	0.5	13.82	96.24
37.46	0.1	22.89	0.16	0.29	12.04	96.29
38.04	0.06	23.25	0.02	0.5	11.39	97.43
37.75	0.03	23.25	0.14	0.53	11.35	97.24
37.51	0.13	22.84	0.03	0.67	11.25	96.52
37.95	0.03	22.97	0.04	0.85	11.24	97.03
37.71	0.26	22.22	0.03	0.98	11.39	96.74
37.09	0.01	21.94	0.02	1.91	11.93	96.17
37.66	0.01	23.15	0.03	0.56	11.39	97.31
37.25	0.01	22.96	0	0.27	16.02	96.79
36.94	0.12	22.53	0.02	0.5	15.19	96.03
36.66	0.07	22.33	0.1	0.8	14.42	95.74
37.25	0.3	21.4	0.05	0.92	13.74	95.69
37.07	0.01	22.73	0.19	0.31	15.18	96.64
37.39	0.01	22.69	0.06	0.32	13.03	96.41
36.93	-0.01	22.81	0.06	0.41	13.54	95.9
36.93	0	22.97	0.08	0.2	13.65	96.38

36.88	0.01	22.86	0.09	0.25	13.07	96
37.29	-0.01	22.77	0.06	0.26	13.56	96.52
37.14	0.01	22.68	0.09	1.04	12.45	96.93
37.56	0.01	21.39	0.04	0.43	14.41	94.39
35.79	-0.03	20.01	0.05	0.86	15.06	91.83
33.63	-0.01	18.36	0.44	0.45	11.96	84.37
36.97	-0.02	22.89	0.03	0.5	13.8	96.55
37.68	0.01	22.95	0.03	0.7	11.66	97.19
37.61	0.01	22.39	0.21	1.2	13.42	97.46
37.4	0.01	23.13	0.2	0.48	13.67	97.03
37.36	-0.01	22.92	0.06	0.54	11.62	96.64
37.68	0.01	22.93	0.15	0.66	14.46	97.36
37.36	-0.01	22.73	0.13	0.73	13.53	96.7
37.11	0.01	22.58	0.23	0.75	14.96	96.65
37.81	-0.01	23.09	0.05	0.23	12.7	97.12
37.68	0.03	22.38	0.04	0.35	12.64	96.6
37.48	0.04	22.69	0.64	0.32	13.34	96.75
37.46	0	22.58	0.14	0.67	9.67	94.47
37.52	0.01	22.92	0.03	0.19	11.82	96.44
37.37	0.01	22.75	0.02	0.31	10.75	96.31
36.93	0	22.68	0.28	0.51	13.83	97.06
36.09	-0.02	22.01	0.13	0.15	16.15	94.38
36.21	0.01	22.85	-0.03	0.08	19.8	96.3
37.86	0.02	22.81	0.04	0.79	11.33	96.99
37.2	-0.02	23.2	0.01	0.24	13.21	96.65
37.34	0	23.6	0.02	0.25	11.01	97.18
37.34	-0.01	23.3	0.02	0.37	11.54	96.95
36.98	0	23.03	0.11	0.3	14.67	96.87
37.03	0	22.91	0.03	0.46	14.22	96.89
37.16	0.01	22.24	0	1.05	13.28	96.66
36.97	0.02	23.26	0.12	0.15	15.07	96.82
37.54	0.02	23.2	0.27	0.34	11.07	96.38
37.12	-0.01	22.79	0.05	0.38	13.28	96.59
37.34	0	23.32	0.12	0.16	11.65	96.45
37.19	0.01	23.25	0.04	0.3	12.19	96.79
36.97	0.03	22.46	0.29	0.37	13.26	96.48
37.43	0.15	22.84	0.05	0.01	12.86	96.41
37.24	0	23.3	0.04	0.04	12.41	96.65
36.98	-0.01	23.07	0.02	0.04	14.19	96.39
37.84	0.07	23.21	0	0.05	9.42	96.82
37.28	0.02	23.05	0.01	0.06	11.74	96.22
37.5	0.01	23.17	0.02	0.08	12.35	96.62
37.32	0.01	23.04	0.08	0.09	12.45	96.49
37.69	0.09	22.65	0.05	0.11	12.94	96.47
37.63	0	22.92	-0.02	0.22	13.28	97.09
37.33	0.01	23.34	0.02	0.15	14.92	97.46
37.53	-0.01	23.35	0	0.2	13.4	97.84
37.87	0	23.18	0.01	0.37	12.54	97.52
37.48	0.01	23.17	0	0.19	15.51	97.51
37.65	0.01	23.3	0.01	0.35	13.4	97.68
37.74	-0.02	22.97	0.01	0.59	12.4	97.5
37.74	0.01	22.93	0.04	0.85	12.95	97.8
37.77	0.01	23.43	-0.01	0.2	12.9	97.52
37.7	-0.01	23.56	0	0.22	12.1	97.44
37.4	0.01	23.21	0.05	0.41	12.47	96.91
37.8	0.02	22.82	0.08	0.48	12.14	96.95
37.69	0.02	23.54	0.02	0.16	13.74	97.8
38.03	-0.01	23.55	0.02	0.18	12.45	98.08
37.17	0.02	23.33	0.02	0.23	14.15	97.15
37.37	0.02	23.02	0.14	0.54	12.01	97.08
37.54	0.01	23.36	0.03	0.1	13.75	97.43
37.77	0.04	23.2	0.18	0.13	12.85	97.34
37.73	0.01	23.37	0.06	0.19	10.68	97.08
37.57	0.01	22.9	0.06	0.27	12.92	97.22

Material	Run #	SiO2	TiO2	Al2O3	Cr2O3	Fe2O3	FeO	MnO
ep	CL09MB009 C	37.5544	0.0323	22.5083	0	0	13.4738	0.5494
ep	CL09MB009 C	37.3755	0.0134	21.293	0	0	15.3541	0.2869
ep	CL09MB010 C	39.0828	0.0245	23.236	0	0	11.6286	1.6503
ep	CL09MB010 C	36.6089	-0.0067	19.8417	0	0	16.2378	0.3191
ep	CL09MB010 C	37.5941	0.0205	21.7201	0	0	14.5251	0.2039
ep	CL09MB011 C	37.009	0.1926	22.5714	0	0	13.3083	0.6146
ep	CL09MB011 C	37.4615	0.0487	24.137	0	0	11.4684	0.8506
ep	CL09MB011 C	37.3675	0.0676	22.6196	0	0	13.3254	0.8584
ep	CL09MB011 C	37.0561	0.0842	22.7162	0	0	13.491	0.4828
ep	CL09MB012 C	37.3083	0.0495	20.3484	0	0	16.1745	0.1549
ep	CL09MB012 C	37.4179	0.11	22.8473	0	0	13.2458	0.2404
ep	CL09MB013 C	37.3006	0.019	22.212	0	0	14.5008	0.1063
ep	CL09MB013 C	37.2875	0.0617	22.9066	0	0	13.3677	0.0659
ep	CL09MB013 C	37.9269	0.0425	23.7166	0	0	11.7123	0.2431
ep	CL09MB014 C	37.3295	0.0165	22.5645	0	0	13.8708	0.6861
ep	CL09MB014 C	37.7499	0.1063	23.7955	0	0	12.462	0.3526
ep	CL09MB014 C	37.2581	0.0398	22.9159	0	0	13.5449	0.6309
ep	CL09MB014 C	37.5833	0.0583	23.7063	0	0	12.373	0.4497
ep	CL09MB014 C	37.53	0.0361	23.7473	0	0	12.2026	0.2552
ep	CL09MB015 C	37.0802	0.0349	21.9429	0	0	14.078	0.2429
ep	CL09MB015 C	37.1044	0.0257	21.7417	0	0	14.5468	0.1912
ep	CL09MB015 C	36.6527	0.0518	19.67	0	0	16.5737	0.4603
ep	CL09MB021-1	36.9121	0.074	21.4769	0	0	14.7447	0.418
ep	CL09MB021-2	37.3316	0.016	20.0577	0	0	16.0048	0.3124
ep	CL09MB021-3	37.0107	0.0633	21.2261	0	0	14.9786	0.2369
ep	CL09MB021-4	35.438	0.0878	20.6397	0	0	13.6785	0.383
ep	CL09MB021-4	37.4976	0.124	20.9768	0	0	15.3353	0.2647
ep	CL09MB022-1	37.3388	0.0891	25.0158	0	0	10.5497	0.2119
ep	CL09MB022-1	37.2508	0.03	23.6016	0	0	12.2365	0.5571
ep	CL09MB022-2	37.8496	0.1063	24.2824	0	0	11.2889	0.1107
ep	CL09MB022-3	36.975	0.0245	24.9257	0	0	10.858	0.1934
ep	CL09MB022-4	37.6465	0.0074	25.4688	0	0	10.1726	0.5293
ep	CL09MB022-5	36.9944	0.1945	22.778	0	0	13.1038	0.1274
ep	CL09MB026-1	37.1747	-0.0036	23.7169	0	0	12.3554	0.1035
ep	CL09MB026-2	37.3627	0.0392	22.7536	0	0	13.167	0.1385
ep	CL09MB026-3	37.4586	0.0176	22.803	0	0	13.3466	0.2242
ep	CL09MB026-4	37.559	-0.0032	24.3304	0	0	11.6917	0.3549
ep	CL09MB026-5	37.6888	0.0276	24.9517	0	0	10.7669	0.5964
ep	CL09MB027-1	36.9598	0.0397	21.5044	0	0	14.2744	0.1148
ep	CL09MB027-2	37.1352	0.0692	23.6297	0	0	12.2585	0.2223
ep	CL09MB027-3	37.8335	0.0699	23.8976	0	0	11.8683	0.3828
ep	CL09MB027-4	37.3778	0.0455	22.4953	0	0	13.4025	0.1361
ep	CL09MB027-5	37.8547	0.0468	22.6431	0	0	13.0928	0.2005
ep	CL09MB028-1	36.1676	0.1218	21.5733	0	0	15.1442	0.4215
ep	CL09MB028-2	37.5449	0.0235	22.4741	0	0	13.3271	0.7195
ep	CL09MB028-3	37.0898	0.0187	22.3251	0	0	13.8275	0.526
ep	CL09MB028-5	36.7661	0.0358	23.1049	0	0	13.7215	0.4505
ep	CL09MB029-1	37.656	0.1014	24.1918	0	0	11.5193	0.1212
ep	CL09MB029-2	37.2224	0.0216	20.1606	0	0	15.7481	0.3228
ep	CL09MB029-3	37.5631	0.0121	20.751	0	0	15.4325	0.1247
ep	CL09MB029-4	37.0027	0.0235	20.6476	0	0	15.4914	0.4456
ep	CL09MB029-4	37.4157	0.1051	23.0274	0	0	12.5257	0.3821
ep	CL09MB029-5	36.907	0.1692	20.4786	0	0	15.4625	0.2181
ep	CL09MB031 C	37.6108	0.0422	22.9222	0	0	13.2512	0.8939
ep	CL09MB031 C	38.1255	0.0708	24.1385	0	0	11.3623	0.4833
ep	CL09MB031 C	37.4894	0.1062	22.8572	0	0	13.181	0.6829
ep	CL09MB031 C	37.6713	0.012	25.7181	0	0	9.8269	0.1304
ep	CL09MB031 C	37.7766	0.1025	22.2364	0	0	13.7025	0.1465
ep	CL09MB032 C	38.0725	0.0277	23.5932	0	0	12.7494	0.6124
ep	CL09MB032 C	37.4697	0.0724	22.4686	0	0	13.6932	0.1896
ep	CL09MB032 C	37.8003	0.0727	23.5021	0	0	0.3596	-0.0039
ep	CL09MB033 C	37.7026	0.0202	22.6733	0	0	13.1142	0.3334
ep	CL09MB033 C	37.5054	0.0213	23.5347	0	0	12.6262	0.4683
ep	CL09MB033 C	37.3795	0.0375	22.9824	0	0	12.75	0.4284
ep	CL09MB033 C	38.0593	0.0065	23.6916	0	0	12.1437	1.0704
ep	CL09MB036 C	37.4828	0.0404	20.8774	0	0	14.8648	0.6719
ep	CL09MB036 C	36.8929	0.0175	21.2143	0	0	13.7321	1.6652
ep	CL09MB036 C	37.2399	0.0357	21.6632	0	0	13.5625	1.4442
ep	CL09MB036 C	37.1887	0.0186	20.439	0	0	15.3633	0.6493
ep	CL09MB036 C	37.0329	0.0356	21.1917	0	0	15.2347	0.8827
ep	CL09MB057 C	36.83	0.03	20.94	0	0	15.23	0.18

ep	CL09MB057 C	37.25	0.02	24.05	0	0	11.38	0.06
ep	CL09MB057 C	36.87	0.08	21.5	0	0	14.71	0.08
ep	CL09MB058 C	36.88	0.04	21.15	0	0	15.44	0.07
ep	CL09MB058 C	36.97	0	24.83	0	0	10.63	0.26
ep	CL09MB058 C	36.85	0	20.29	0	0	16.07	0.09
ep	CL09MB058 C	37.03	0	19.27	0	0	17.26	0.03
ep	CL09MB059 C	35.66	0.06	22.41	0	0	15.58	1.36
ep	CL09MB059 C	37.58	0.09	23.7	0	0	12.42	0.97
ep	CL09MB059 C	37.42	0.1	22.56	0	0	13.49	0.81
ep	CL09MB060 C	36.67	0.01	21.13	0	0	14.84	0.41
ep	CL09MB060 C	37.07	0.14	22.55	0	0	13.42	0.18
ep	CL09MB060 C	36.86	0	22.18	0	0	13.44	0.47
ep	CL09MB060 C	36.79	0	22.23	0	0	13.95	0.19
ep	CL09MB061 C	37.04	0.03	22.68	0	0	13.85	0.67
ep	CL09MB061 C	37.62	0.03	23.66	0	0	12.72	0.3
ep	CL09MB061 C	36.75	0.03	22.34	0	0	13.67	0.08
ep	CL09MB061 C	37.2	0.02	23.9	0	0	11.85	0.45
ep	CL09MB062 C	36.44	0.07	20.32	0	0	15.71	0.29
ep	CL09MB062 C	37.03	0.03	21.1	0	0	15.06	0.44
ep	CL09MB062 C	36.9	0.03	19.8	0	0	16.42	0.57
ep	CL09MB062 C	36.87	0.08	22.32	0	0	12.92	0.47
ep	CL09MB063 C	34.98	0.21	22.43	0	0	17.35	0.44
ep	CL09MB063 C	36.79	0.09	23.45	0	0	12.98	0.46
ep	CL09MB063 C	37.34	0.07	23.77	0	0	11.77	0.46
ep	CL09MB064 C	36.78	0.02	20.94	0	0	14.55	0.3
ep	CL09MB064 C	37.19	0	21.58	0	0	14.6	0.15
ep	CL09MB065 C	37.09	0.06	21.73	0	0	14.36	0.4
ep	CL09MB091 C	37.93	0.02	24.28	0	0	11.39	0.48
ep	CL09MB091 C	37.95	0.05	23.11	0	0	12.83	0.2
ep	CL09MB091 C	38	0.07	22.99	0	0	13.19	0.38
ep	CL09MB092 C	37.17	0.03	21.58	0	0	14.64	0.98
ep	CL09MB092 C	37.34	0.17	21.58	0	0	14.21	0.41
ep	CL09MB092 C	37.19	0.11	21.65	0	0	14.7	0.15
ep	CL09MB093 C	37.84	0.05	24.33	0	0	11.11	0.11
ep	CL09MB093 C	38.09	0.02	23.98	0	0	11.64	0.11
ep	CL09MB093 C	38.26	0.02	26.23	0	0	9.57	0.41
ep	CL09MB094 C	37.7	0.08	24.88	0	0	10.82	0.52
ep	CL09MB094 C	37.2	0.02	22.95	0	0	12.96	0.14
ep	CL09MB094 C	37.5	0	24.88	0	0	11.19	0.23
ep	CL09MB094 C	37.63	0.07	22.63	0	0	13.48	0.19
ep	CL09MB096 C	37.64	0.07	24.32	0	0	11.42	0.37
ep	CL09MB097 C	37.87	0.06	23.95	0	0	11.95	0.48
ep	CL09MB097 C	37.95	0.03	25.89	0	0	9.88	0.25
ep	CL09MB098 C	37.08	0.15	22.37	0	0	13.25	0.14
ep	CL09MB098 C	37.2	0.19	22.33	0	0	13.8	0.27
ep	CL09MB098 C	37.22	0.06	21.5	0	0	14.38	0.21
ep	CL09MB098 C	37.51	0.04	22.08	0	0	14.21	0.25
ep	CL09MB099 C	36.4807	0.0801	21.2988	0	0	15.8187	0.1196
ep	CL09MB099 C	37.2195	0.0262	22.0765	0	0	14.1019	0.1787
ep	CL09MB099 C	37.5387	0.0914	22.4368	0	0	13.1403	0.3518
ep	CL09MB099 C	37.8106	0.0754	23.0142	0	0	13.0919	0.463
ep	CL09MB101 C	37.2392	0.1089	22.6762	0	0	12.952	0.1633
ep	CL09MB101 C	37.1659	0.0423	23.0884	0	0	12.8432	0.3764
ep	CL09MB101 C	37.2846	0.0755	21.2629	0	0	14.8121	0.2206
ep	CL09MB102 C	37.006	0.0309	21.093	0	0	14.8977	0.3467
ep	CL09MB102 C	37.3141	0.2267	20.3868	0	0	15.965	0.1636
ep	CL09MB102 C	37.1035	0.0536	19.6858	0	0	16.4256	0.1341
ep	CL09MB102 C	37.3559	0.0563	22.649	0	0	13.321	0.4055
ep	CL09MB104 C	37.6371	0.0404	22.5692	0	0	13.6417	0.0844
ep	CL09MB104 C	36.9841	0.0482	19.8377	0	0	16.3903	0.0982
ep	CL09MB104 C	37.0776	0.0237	21.8863	0	0	13.9345	0.0997
ep	CL09MB107 C	37.311	0.0227	22.6655	0	0	13.5482	0.1248
ep	CL09MB107 C	37.27	0.0301	21.0026	0	0	15.21	0.2103
ep	CL09MB107 C	37.5863	0.0352	21.8555	0	0	14.2525	0.2246
ep	CL09MB108 C	37.2339	0.0088	22.8422	0	0	13.7769	0.9796
ep	CL09MB108 C	37.6846	-0.0031	23.5579	0	0	12.3331	0.3107
ep	CL09MB118 C	36.328	0.0423	21.8045	0	0	14.5353	1.5735
ep	CL09MB118 C	36.4475	0.1114	21.4805	0	0	14.3825	1.0847
ep	CL09MB119 C	36.0801	0.0176	21.4967	0	0	14.7154	0.2918
ep	CL09MB119 C	35.8071	0.0139	21.2997	0	0	14.7624	0.3985
ep	CL09MB119 C	36.0638	-0.0095	19.5896	0	0	17.1092	0.1428
ep	CL09MB121 C	35.9224	0.0876	19.7225	0	0	16.4036	0.149
ep	CL09MB209 C	37.3066	0.0595	22.1276	0	0	13.6854	0.1021

ep	CL09MB210 C	39.4375	0.0404	30.9098	0	0	3.2689	0.3709
ep	CL09MB210 C	37.5873	0.0348	24.0746	0	0	11.5122	0.3737
ep	CL09MB210 C	39.1613	0.0118	31.3469	0	0	3.0299	0.3671
ep	TI131104-13 1	36.7378	0.0376	22.4897	0	0	14.545	0.4914
ep	TI131104-13 1	37.0184	0.0622	21.7549	0	0	15.1345	0.1039
ep	TI131104-13 1	37.0495	0.1003	23.6429	0	0	12.8766	0.1245
ep	TI131104-13 3	36.8776	0.0672	21.7394	0	0	15.2792	0.1679
ep	TI131104-13 3	36.4153	0.0935	21.6585	0	0	15.1962	0.4075
ep	TI131104-13 3	36.3433	0.0438	21.8808	0	0	15.0155	0.0702
ep	TI131104-13 3	37.1374	0.0938	22.0508	0	0	14.8991	0.1326
ep	TI131104-13 5	37.0486	0.0894	20.3968	0	0	16.6847	0.1227
ep	TI131104-13 5	36.7955	0.0517	23.0332	0	0	14.102	1.399
ep	TI131104-13 5	37.2656	0.0959	21.9012	0	0	14.1308	0.2176
ep	TI131104-13 5	36.5673	0.001	22.4139	0	0	14.9184	0.4171
ep	TI131104-13 5	36.7593	-0.0041	23.0662	0	0	13.9424	1.5299
ep	TI131104-13 5	37.0925	0.0558	23.1049	0	0	13.9624	1.0527
ep	TI131104-13 5	36.6477	0.0375	21.537	0	0	15.4443	0.1406
ep	TI131104-13 5	37.0154	0.0417	22.6069	0	0	14.8182	0.6411
ep	TI131104-13 5	34.5345	1.9268	19.8346	0	0	14.0318	0.2245
ep	TI131104-13 5	36.7957	0.8371	22.9164	0	0	13.3148	0.1084
ep	TI131104-13 5	38.9301	0.0653	20.6244	0	0	13.3163	0.2459
ep	TI131104-13 5	37.0501	0.1062	22.6011	0	0	13.8369	0.0794
ep	TI131104-13 5	37.1731	0.1187	23.5958	0	0	12.9611	0.147
ep	TI131104-13 5	36.5909	0.062	21.326	0	0	15.6688	0.3248
ep	TI131104-13 5	36.526	0.2482	20.2932	0	0	16.8677	0.0679
ep	TI131104-13 5	36.307	0.3381	21.2072	0	0	15.0674	0.1601
ep	TI131104-13 5	36.6861	0.0488	21.0738	0	0	15.9984	0.0829
ep	CL09MB042 C	37.9597	0.0619	21.3614	0	0	14.5591	0.3857
ep	CL09MB043 C	37.3421	0.13	23.4954	0	0	11.679	1.7902
ep	CL09MB043 C	37.2061	0.0391	21.3139	0	0	15.2684	1.0296
ep	CL09MB043 C	38.4204	0.0516	25.4386	0	0	9.95	1.7427
ep	CL09MB072 C	37.7	0.1084	23.7864	0	0	12.1301	0.7068
ep	CL09MB072 C	37.4002	0.1897	21.3629	0	0	14.6437	0.2668
ep	CL09MB072 C	36.8988	0.0208	21.3823	0	0	15.1812	0.1159
ep	CL09MB072 C	37.463	0.0565	23.8542	0	0	12.0736	0.7738
ep	CL09MB073 C	37.3794	0.0079	23.0513	0	0	13.2872	1.5081
ep	CL09MB073 C	37.5582	0.0036	23.3301	0	0	12.9002	0.9025
ep	CL09MB073 C	37.8654	0.1936	23.3467	0	0	12.2747	0.3296
ep	CL09MB074 C	37.022	0.0739	21.9519	0	0	14.3367	0.7252
ep	CL09MB074 C	37.7771	0.0144	24.1677	0	0	11.6854	0.7363
ep	CL09MB074 C	37.5442	0.0539	22.9458	0	0	13.5043	0.1449
ep	CL09MB075 C	37.4091	-0.0075	21.2794	0	0	14.6291	1.0432
ep	CL09MB075 C	37.1541	0.0576	21.9597	0	0	13.6549	1.8256
ep	CL09MB075 C	37.7436	0.0126	24.4808	0	0	11.0555	1.1763
ep	CL09MB080 C	37.9074	0.0543	23.5335	0	0	11.9595	0.5012
ep	CL09MB080 C	38.0927	0.0197	22.4808	0	0	13.4495	0.2059
ep	CL09MB080 C	37.7386	0.0158	23.6435	0	0	12.2677	1.1829
ep	CL09MB081 C	38.0734	0.0317	24.6249	0	0	10.897	0.4395
ep	CL09MB085 C	38.4982	0.0149	25.9811	0	0	9.6866	0.2601
ep	CL09MB085 C	37.5726	0.0166	23.2996	0	0	12.4516	1.1731
ep	CL09MB085 C	37.8309	0.0029	22.3052	0	0	13.9325	0.4608
ep	CL09MB085 C	36.9292	0.0029	21.9967	0	0	13.4901	1.3412
ep	CL09MB086 C	36.0663	0.0848	22.0382	0	0	11.2431	1.8082
ep	CL09MB086 C	38.4853	0.1902	24.4444	0	0	10.4063	0.6538
ep	CL09MB086 C	37.5603	0.0065	22.7538	0	0	13.0884	1.083
ep	CL09MB111 C	37.1962	0.0355	23.0313	0	0	12.9517	0.2833
ep	CL09MB111 C	37.4132	0.051	21.9453	0	0	13.823	0.498
ep	CL09MB113 C	37.46	0.16	23.29	0	0	12.04	0.29
ep	CL09MB113 C	38.04	0.02	24.07	0	0	11.39	0.5
ep	CL09MB113 C	37.75	0.14	24.18	0	0	11.35	0.53
ep	CL09MB114 C	37.95	0.04	23.85	0	0	11.24	0.85
ep	CL09MB114 C	37.51	0.03	24	0	0	11.25	0.67
ep	CL09MB114 C	37.71	0.03	24.01	0	0	11.39	0.98
ep	CL09MB114 C	37.09	0.02	23.23	0	0	11.93	1.91
ep	CL09MB115 C	37.66	0.03	24.45	0	0	11.39	0.56
ep	CL09MB120 C	36.66	0.1	21.3	0	0	14.42	0.8
ep	CL09MB120 C	37.25	0	20.22	0	0	16.02	0.27
ep	CL09MB120 C	37.25	0.05	21.76	0	0	13.74	0.92
ep	CL09MB120 C	36.94	0.02	20.54	0	0	15.19	0.5
ep	CL09MB125 C	37.3873	0.0584	22.6749	0	0	13.0319	0.3171
ep	CL09MB125 C	37.0692	0.1857	21.0073	0	0	15.1781	0.3128
ep	CL09MB125 C	36.9319	0.0591	22.0131	0	0	13.5412	0.4091
ep	CL09MB127 C	36.8788	0.0874	22.7099	0	0	13.0664	0.246

ep	CL09MB127 C	36.9331	0.0812	22.4531	0	0	13.6531	0.1979
ep	CL09MB127 C	42.8211	-0.0029	20.0472	0	0	5.8052	-0.0164
ep	CL09MB127 C	37.2909	0.0572	22.422	0	0	13.5649	0.2554
ep	CL09MB128 C	37.1372	0.0884	23.4843	0	0	12.4454	1.0371
ep	CL09MB129 C	37.5642	0.0435	20.4467	0	0	14.4107	0.4342
ep	CL09MB129 C	35.7936	0.0497	19.3952	0	0	15.0635	0.8557
ep	CL09MB130 C	33.6349	0.4363	19.4303	0	0	11.9621	0.4459
ep	CL09MB130 C	36.9681	0.0322	22.287	0	0	13.8046	0.5032
ep	CL09MB131 C	37.6849	0.0268	24.073	0	0	11.6581	0.6956
ep	CL09MB132 C	37.6108	0.2131	22.4114	0	0	13.419	1.1955
ep	CL09MB133 C	37.4018	0.2043	22.0452	0	0	13.6734	0.4828
ep	CL09MB134 C	37.3632	0.0647	24.0505	0	0	11.6153	0.5395
ep	CL09MB134 C	37.1121	0.2255	20.9698	0	0	14.9605	0.7458
ep	CL09MB134 C	37.6779	0.1474	21.3631	0	0	14.4567	0.6601
ep	CL09MB134 C	37.3562	0.1288	22.1085	0	0	13.5297	0.7306
ep	CL09MB135 C	37.806	0.0546	23.15	0	0	12.6959	0.2331
ep	CL09MB135 C	37.6841	0.0439	23.0718	0	0	12.641	0.3458
ep	CL09MB136 C	37.4775	0.6413	22.0724	0	0	13.3388	0.3245
ep	CL09MB136 C	37.4569	0.144	23.8921	0	0	9.6736	0.6661
ep	CL09MB137 C	37.5215	0.0291	23.8567	0	0	11.8215	0.1883
ep	CL09MB137 C	37.3665	0.0173	25.0227	0	0	10.7521	0.3138
ep	CL09MB138 C	42.789	0.085	21.4889	0	0	3.8242	0.0084
ep	CL09MB138 C	42.9764	0.1228	20.3908	0	0	4.7315	0.0367
ep	CL09MB139 C	36.9327	0.2849	22.7575	0	0	13.832	0.5083
ep	CL09MB140 C	42.2467	0.0845	19.6008	0	0	6.4771	0.0759
ep	CL09MB140 C	42.0327	0.0771	20.8368	0	0	4.7989	0.1192
ep	CL09MB140 C	36.0874	0.1344	19.7841	0	0	16.1513	0.1515
ep	CL09MB142 C	37.8607	0.0378	23.995	0	0	11.3327	0.7877
ep	CL09MB142 C	36.2111	-0.032	17.308	0	0	19.8041	0.0832
ep	CL09MB144 C	37.3375	0.0191	24.381	0	0	11.5354	0.371
ep	CL09MB144 C	37.3392	0.0198	24.8781	0	0	11.008	0.2527
ep	CL09MB144 C	37.203	0.0137	22.7542	0	0	13.2098	0.2414
ep	CL09MB146 C	36.9756	0.1064	21.7494	0	0	14.6736	0.3048
ep	CL09MB146 C	37.1626	0.0004	22.8679	0	0	13.275	1.0472
ep	CL09MB146 C	37.0341	0.0267	22.2307	0	0	14.2175	0.4619
ep	CL09MB147 C	37.1211	0.0472	22.9477	0	0	13.2795	0.3784
ep	CL09MB147 C	37.5409	0.2673	23.9413	0	0	11.0717	0.3361
ep	CL09MB147 C	36.9675	0.1209	21.2061	0	0	15.0653	0.1467
ep	CL09MB149 C	37.3366	0.1214	23.8636	0	0	11.6459	0.1627
ep	CL09MB149 C	37.1879	0.0399	23.725	0	0	12.1876	0.303
ep	CL09MB150 C	36.9687	0.2935	22.7068	0	0	13.2565	0.3715
ep	CL09MB151 C	37.4307	0.046	22.972	0	0	12.8558	0.0123
ep	CL09MB151 C	37.6938	0.0457	22.8439	0	0	12.9411	0.1089
ep	CL09MB151 C	36.9845	0.0196	22.0315	0	0	14.1941	0.0382
ep	CL09MB151 C	37.8362	0.0026	26.1847	0	0	9.4152	0.0518
ep	CL09MB151 C	37.321	0.0833	23.2495	0	0	12.4523	0.0931
ep	CL09MB151 C	37.2771	0.0055	24.0055	0	0	11.7442	0.0601
ep	CL09MB151 C	37.6287	-0.0215	23.0036	0	0	13.278	0.2215
ep	CL09MB151 C	37.4991	0.0232	23.4621	0	0	12.3495	0.0768
ep	CL09MB151 C	37.2415	0.0357	23.5856	0	0	12.4148	0.0363
ep	CL09MB228 C	37.5307	0.0004	23.2721	0	0	13.4047	0.2021
ep	CL09MB228 C	37.3282	0.0232	21.6825	0	0	14.9182	0.1465
ep	CL09MB228 C	37.8708	0.0106	23.4826	0	0	12.5431	0.3692
ep	CL09MB229 C	37.7397	0.013	23.7697	0	0	12.4039	0.587
ep	CL09MB229 C	37.6522	0.0081	22.9356	0	0	13.3959	0.3517
ep	CL09MB229 C	37.7429	0.0422	23.2531	0	0	12.9527	0.8546
ep	CL09MB229 C	37.4807	0.0032	21.1398	0	0	15.5144	0.1876
ep	CL09MB231 C	37.7016	0	23.8184	0	0	12.0985	0.2154
ep	CL09MB231 C	37.8048	0.0798	23.4803	0	0	12.1389	0.4759
ep	CL09MB231 C	37.771	-0.0102	23.1778	0	0	12.8956	0.198
ep	CL09MB231 C	37.3974	0.0487	23.257	0	0	12.4716	0.4107
ep	CL09MB232 C	37.373	0.1373	23.9285	0	0	12.0104	0.5371
ep	CL09MB232 C	38.0269	0.0191	23.7875	0	0	12.4545	0.1846
ep	CL09MB232 C	37.6947	0.0173	22.601	0	0	13.7351	0.1629
ep	CL09MB232 C	37.1704	0.0176	22.1642	0	0	14.1499	0.225
ep	CL09MB233 C	37.7308	0.061	25.0178	0	0	10.6799	0.1914
ep	CL09MB233 C	37.5367	0.0314	22.6369	0	0	13.7481	0.0964
ep	CL09MB233 C	37.7707	0.1778	23.1555	0	0	12.8499	0.1301
ep	CL09MB233 C	37.5651	0.0561	23.4189	0	0	12.9187	0.2695

MgO	CaO	Na2O	K2O
0.0203	22.9693	0.0336	0.015
0.0583	23.1904	-0.0285	-0.0025
0.0379	20.7799	0.4152	0.0369
0.0714	22.924	0.0333	0.0083
0.0133	23.3	0.0094	0.0208
0.0015	23.1389	-0.0297	0.0132
0.0811	23.0006	-0.004	0.0257
0.0217	22.9243	0.0248	-0.0008
0.0457	23.2999	0.0266	-0.0074
0.0441	23.1692	-0.0101	-0.0074
0.0633	23.0106	0.0029	0.077
0.0272	23.2986	-0.0346	0.0091
-0.007	23.2893	-0.0127	-0.0132
0.0459	22.8541	0.1403	0.039
0.5235	22.0827	-0.0034	0.0083
0.0884	22.9422	-0.023	0.0365
0.0775	22.7866	0.0263	0.0091
0.0277	22.9974	0.0096	0.0033
0.0238	23.405	0.0255	0.0157
0.0225	23.3563	0.02	0.0058
0.028	23.0519	0.009	0.0008
0.0459	22.8323	0.0168	-0.0156
0.046	22.9015	-0.013	0.0033
0.0391	22.791	0.0606	0.0246
0.0669	23.0683	-0.002	0.0025
0.0086	21.8888	0.1006	0.052
0.0382	22.9276	0.0337	-0.009
0.0023	23.5436	0.0152	0.0183
0.0015	22.6895	0.042	0.0182
0.0023	23.4413	0.0151	0.0058
0.0274	23.4696	0.0052	-0.0008
0.0121	23.1155	-0.005	0
-0.007	23.3375	0.0148	0.0141
-0.0031	23.151	-0.0296	0.0008
-0.0133	23.2413	0.0079	0.0067
0.0054	23.3011	0.0193	0.0297
-0.0046	23.1788	-0.0102	0.0008
-0.0152	23.2286	-0.0042	0.0149
0.0062	23.0145	0.0357	-0.0082
0.1518	23.1552	0.0016	0.0099
-0.0031	22.7871	0.0521	0.0084
0.0294	23.2009	0.0232	0
0.0439	22.6101	0.0325	0.0215
-0.0087	22.5024	0.0008	0.0159
0.1935	22.3345	0.0356	0.0109
0.021	22.8231	0.0341	0.0008
0.0015	22.2947	0.0771	0.0025
-0.0046	23.5519	0.04	0.0159
0.173	23.1486	0.0239	-0.0017
0.0254	23.0862	0.0484	-0.0025
0.0699	22.4583	0.021	0.1816
-0.0078	23.1917	0.0207	0.0369
0.0705	23.1164	0.0301	0.025
0.0172	22.5055	0.0351	-0.0016
0.0532	23.1109	0.1026	0.0096
0.0493	22.8294	0.0312	0.016
0.0226	23.7574	0.0302	0.0024
0.0913	22.9335	0.0007	-0.012
0.0267	22.9274	-0.0001	0.0085
0.0277	23.3693	0.0246	0.0059
0.0161	23.771	-0.0117	-0.0129
-0.0024	23.0824	0.0183	-0.0169
-0.0102	22.9451	0.0169	0.011
0.0008	23.0086	0.0043	-0.0068
-0.0377	22.3781	-0.017	-0.0136
-0.0286	23.2139	-0.003	-0.0034
0.0611	22.3431	0.0309	0
0.0546	22.4822	-0.0182	0.0059
0.0575	22.993	-0.003	0.0117
0.0136	22.764	-0.0045	-0.0117
-0.06	22.76	0.04	0

0	23.69	0.02	0.01
0	22.77	0.03	0.02
0.01	23.02	0.02	0.02
0.01	23.17	0.04	0
-0.04	23.18	0.09	0.01
-0.03	23.18	0	0.01
1.87	18.51	0.03	0.18
0.36	21	-0.04	0.38
0.15	21.67	-0.01	0.26
0	22.72	0.01	0
-0.09	23.12	-0.01	-0.01
0.03	23.16	0.04	0
-0.02	22.84	0.02	0.01
-0.24	22.54	0.05	0.01
-0.16	22.88	0.03	0.01
0.02	23.05	0.06	0.01
0.01	22.78	0.02	0.02
-0.02	22.23	0.02	0
-0.04	22.74	0	0.01
0.01	22.35	0	0.02
-0.03	22.09	-0.01	0.03
0.08	20.8	0.06	0.15
0.1	22.05	-0.02	0.14
0.06	22.73	-0.02	0.07
0	22.55	0.01	-0.01
-0.02	23.04	-0.01	0.02
0	22.82	0.12	0
0.15	22.73	0.01	0.01
0.24	22.76	0.01	-0.01
0.08	22.73	0	-0.01
0.05	21.54	0.04	0
0.18	22.1	0.08	0.01
0.01	22.8	0.05	0
0.11	23.31	-0.01	0.02
0.09	23.02	0.05	0.03
0.06	22.84	0.02	0.01
0.03	22.86	-0.01	0
0.02	23.45	0.05	0.01
0	23.42	0	-0.01
0	22.99	0.03	-0.01
0.06	23.15	0.02	0.01
0.04	23.09	0.02	0
0.02	23.59	0.02	0.02
-0.04	23.25	0.03	-0.01
-0.03	23.4	0.01	0.01
-0.01	22.65	0	0.16
-0.03	23.44	-0.01	0.01
0.0698	22.6371	-0.0076	0.0199
0.0255	23.044	-0.018	0.004
0.1182	22.9917	0.0879	0.0232
0.1411	22.9318	-0.0089	0.0104
0.0687	23.0398	0.047	0
0.0164	22.8249	0.0619	0.0112
0.0098	22.9678	0.0306	-0.0136
0.1043	22.8524	0.0126	-0.0072
0.0585	22.793	0.0058	0.0016
0.0732	23.1221	0.0095	0.0048
0.1684	22.894	0.0111	0.0256
0.0342	23.2108	0.0016	0.0191
-0.0356	23.0269	0.0009	0.0135
0.0291	23.3477	0.0215	0.0048
0.0432	23.4305	0.0589	0.0096
-0.0151	22.8469	0.0024	0.0119
0.0426	22.9462	0.0113	0.0278
0.0605	21.9552	0.0185	-0.0048
0.2018	23.1301	0.0161	-0.0168
0.0144	21.9912	-0.0233	0.0351
0.1426	22.2601	0.0187	-0.0032
0.0618	23.1082	0.038	0.0358
0.0287	23.0125	-0.0018	-0.0119
-0.0092	22.7851	0.0102	-0.0008
-0.0206	22.9029	0.018	0.0222
0.007	23.1107	-0.0093	0.0025

0.0905	23.6772	0.1262	0.0084
0.065	22.8978	0.0134	-0.0191
0.0412	24.0527	0.0027	0.0252
0.003	22.6515	-0.0311	-0.0209
0.0294	23.4182	-0.0157	-0.0059
0.0223	23.2982	-0.0153	-0.0052
-0.0055	23.2553	-0.0254	-0.0052
0.4117	22.0353	0.0465	0.0424
-0.0116	23.5219	-0.0679	-0.0015
0.0141	23.3217	-0.0214	0.0035
-0.0049	22.8048	0.0028	-0.0685
-0.0231	21.3642	0.0166	0.0206
0.2942	22.5863	0.0344	-0.0008
0.0292	22.6367	0.0373	-0.0099
0.003	21.4455	0.0504	-0.0092
0.0079	22.0914	0.0405	0.0187
0.294	22.3473	-0.0007	0.0283
-0.011	22.4668	0.0302	0.0075
0.3338	23.7783	-0.0022	-0.0154
0.0054	23.4579	0.0304	0.01
1.5937	22.4438	0.0814	0.0109
0.0049	23.0197	-0.0184	-0.0216
0.0181	23.254	-0.0146	0.0354
-0.0104	22.8564	-0.0089	0.009
0.029	23.384	-0.0123	-0.0058
0.0368	23.0173	-0.0065	-0.0011
0.3703	22.4161	0.007	-0.0216
0.1255	22.3572	0.2033	0.0583
0.0527	21.7253	0.0109	0.1235
0.0032	22.4729	0.0063	0.0025
0.0229	22.2489	0.0174	0.0913
-0.0243	22.8404	-0.0067	0.0186
0.0763	23.2939	0.0015	0.0261
0.0104	23.2178	0.0399	0.0025
0.1864	22.6965	-0.0236	0.0296
0.0483	22.0978	0.0118	-0.0008
0.0882	22.513	-0.0378	0.0118
0.5326	23.3776	0.003	0.0499
0.0628	22.9628	-0.0125	0.0724
0.0453	22.7245	0.025	0.0025
0.0213	23.1915	0.0392	-0.0101
0.0965	22.7125	0.0354	0.0177
-0.0223	21.747	-0.0007	-0.016
-0.0273	22.8546	0.0272	-0.0203
0.3254	22.6234	0.0352	0.0541
0.037	23.1965	0.0178	0.0076
0.0306	22.1922	-0.0123	0.016
0.0171	23.4327	0.0005	0.0127
-0.1192	23.0408	0.0034	0.0248
0.0127	21.7922	0.001	0.0077
-0.0072	22.292	0.0128	0.0144
-0.0152	21.2872	0.0403	-0.0204
0.0711	19.0136	0.0128	0.0615
0.007	22.1087	0.0479	0.3947
-0.0389	22.0956	0.0017	-0.0034
0.0924	23.2589	0.0255	0.015
0.1766	22.3277	-0.0059	0.0083
0.03	22.89	0.03	0.1
0.09	23.25	0	0.06
0.02	23.25	-0.01	0.03
0.08	22.97	0.03	0.03
0.05	22.84	0.04	0.13
0.14	22.22	0	0.26
0.04	21.94	-0.01	0.01
0.03	23.15	0.03	0.01
0.05	22.33	0.01	0.07
0.02	22.96	0.03	0.01
0.26	21.4	0	0.3
0.17	22.53	0.02	0.12
0.1742	22.6943	0.0609	0.0074
0.0664	22.7273	0.078	0.0107
0.1231	22.8095	0.0168	-0.0124
0.0776	22.8619	0.0559	0.0126

0.0905	22.9655	-0.004	0.0034
0.031	26.3584	-0.0026	0.011
0.1595	22.7668	-0.019	-0.0092
-0.0172	22.6776	0.0533	0.005
0.038	21.387	0.0535	0.0092
0.6581	20.0056	0.0053	-0.0302
0.0865	18.3596	0.0142	-0.0143
0.0418	22.8892	0.0227	-0.0227
0.0433	22.9503	0.0447	0.0092
0.203	22.3891	0.0173	0.005
0.0769	23.1298	0.0039	0.0109
0.0836	22.9204	-0.0101	-0.0143
0.0427	22.5846	-0.0245	0.0108
0.1103	22.9325	-0.006	0.0125
0.1145	22.7291	-0.0293	-0.0059
0.0934	23.0859	0.005	-0.0059
0.3958	22.3834	0.0027	0.0293
0.1665	22.6873	0.0064	0.0369
0.0308	22.5799	0.0203	0.0042
0.028	22.9242	0.0585	0.0093
0.0725	22.7541	0.0037	0.011
0.2094	26.2375	0.0364	0.0711
0.0248	26.3037	0.0801	0.0017
0.0559	22.6761	0.0096	0.0025
0.0129	26.3711	0.0051	0.0051
0.5184	25.795	0.0327	0.0127
0.048	22.0102	0.0163	-0.0234
0.0573	22.8089	0.0838	0.0216
0.0113	22.8481	0.0269	0.0098
-0.0008	23.2975	0.0097	-0.0075
0.0175	23.6043	0.0546	0.0017
0.0216	23.2017	0.0073	-0.0157
0.0047	23.0334	0.0185	-0.0041
0.0395	22.2438	0.0192	0.0083
0.0016	22.909	0.0124	-0.0041
0.0309	22.789	-0.0272	-0.0083
0	23.2014	-0.0096	0.0199
0.0172	23.2587	0.0211	0.0157
-0.0046	23.3199	-0.0079	-0.0017
0.086	23.2455	0.0014	0.0124
0.3818	22.4577	0.0171	0.0257
0.0346	22.84	0.0655	0.1481
0.0416	22.6541	0.058	0.0861
0.0171	23.07	0.0367	-0.0107
0.0466	23.2113	-0.0181	0.0699
0.2439	23.0373	-0.0022	0.0066
0.0596	23.0493	-0.0087	0.0207
0.0285	22.9233	0.0065	0.0041
0.0123	23.1671	0.0128	0.0149
0.0207	23.2958	0.017	-0.0008
0.0216	23.3487	0.0583	-0.0074
-0.014	23.3388	0.0099	0.0124
-0.0323	23.1753	0.0672	-0.0025
0.0184	22.9668	-0.0076	-0.0182
0.0232	23.3003	-0.0265	0.0124
0.0177	22.9265	-0.0206	0.0108
0.0055	23.1742	-0.0099	0.0091
0.0115	23.5618	0.0354	-0.0075
0.0645	22.8248	0.0626	0.0232
0.0416	23.434	-0.019	0.0066
0.0162	23.2127	0.0809	0.0132
0.0169	23.0195	0.0332	0.0199
0.0345	23.5529	0.0216	-0.0066
-0.007	23.5408	0.0286	0.0198
0.0249	23.3283	0.0566	0.0165
0.022	23.3658	-0.0162	0.0108
0.0015	23.3595	0.0068	0.0099
0.0177	23.1967	-0.0145	0.0381
0.0439	22.9018	0.0308	0.0132

Sample	Min	SiO2	TiO2	Al2O3	Cr2O3	Fe2O3	FeO	MnO
CL09MB009	ep	37.55	0.03	22.51	0	14.75	0.2	0.55
CL09MB009	ep	37.38	0.01	21.29	0	16.6	0.42	0.29
CL09MB010	ep	39.08	0.02	23.24	0	12.79	0.12	1.65
CL09MB010	ep	37.59	0.02	21.72	0	15.98	0.15	0.2
CL09MB010	ep	36.61	0	19.84	0	17.87	0.16	0.32
CL09MB011	ep	37.46	0.05	24.14	0	12.34	0.36	0.85
CL09MB011	ep	37.06	0.08	22.72	0	14.25	0.67	0.48
CL09MB011	ep	37.01	0.19	22.57	0	14.21	0.53	0.61
CL09MB011	ep	37.37	0.07	22.62	0	14.5	0.28	0.86
CL09MB012	ep	37.42	0.11	22.85	0	14.1	0.56	0.24
CL09MB012	ep	37.31	0.05	20.35	0	17.8	0.16	0.15
CL09MB013	ep	37.93	0.04	23.72	0	12.89	0.12	0.24
CL09MB013	ep	37.29	0.06	22.91	0	14.01	0.76	0.07
CL09MB013	ep	37.3	0.02	22.21	0	15.21	0.81	0.11
CL09MB014	ep	37.53	0.04	23.75	0	13.02	0.49	0.26
CL09MB014	ep	37.75	0.11	23.8	0	13.04	0.73	0.35
CL09MB014	ep	37.58	0.06	23.71	0	13.03	0.64	0.45
CL09MB014	ep	37.26	0.04	22.92	0	14.07	0.88	0.63
CL09MB014	ep	37.33	0.02	22.56	0	14.61	0.72	0.69
CL09MB015	ep	37.08	0.03	21.94	0	15.29	0.32	0.24
CL09MB015	ep	37.1	0.03	21.74	0	15.55	0.56	0.19
CL09MB015	ep	36.65	0.05	19.67	0	18.19	0.21	0.46
CL09MB021-	ep	35.44	0.09	20.64	0	14.93	0.24	0.38
CL09MB021-	ep	36.91	0.07	21.48	0	15.76	0.57	0.42
CL09MB021-	ep	37.01	0.06	21.23	0	16.21	0.39	0.24
CL09MB021-	ep	37.5	0.12	20.98	0	16.87	0.15	0.26
CL09MB021-	ep	37.33	0.02	20.06	0	17.61	0.16	0.31
CL09MB022-	ep	37.65	0.01	25.47	0	10.49	0.73	0.53
CL09MB022-	ep	36.98	0.02	24.93	0	10.87	1.08	0.19
CL09MB022-	ep	37.34	0.09	25.02	0	10.93	0.72	0.21
CL09MB022-	ep	37.85	0.11	24.28	0	12.27	0.25	0.11
CL09MB022-	ep	37.25	0.03	23.6	0	12.8	0.72	0.56
CL09MB022-	ep	36.99	0.19	22.78	0	13.83	0.66	0.13
CL09MB026-	ep	37.69	0.03	24.95	0	11.34	0.56	0.6
CL09MB026-	ep	37.56	0	24.33	0	12.16	0.75	0.35
CL09MB026-	ep	37.17	0	23.72	0	12.69	0.94	0.1
CL09MB026-	ep	37.36	0.04	22.75	0	14.2	0.39	0.14
CL09MB026-	ep	37.46	0.02	22.8	0	14.34	0.44	0.22
CL09MB027-	ep	37.83	0.07	23.9	0	12.74	0.41	0.38
CL09MB027-	ep	37.14	0.07	23.63	0	12.81	0.73	0.22
CL09MB027-	ep	37.85	0.05	22.64	0	14.41	0.13	0.2
CL09MB027-	ep	37.38	0.05	22.5	0	14.57	0.29	0.14
CL09MB027-	ep	36.96	0.04	21.5	0	15.58	0.26	0.11
CL09MB028-	ep	36.77	0.04	23.1	0	13.29	1.77	0.45
CL09MB028-	ep	37.54	0.02	22.47	0	14.65	0.15	0.72
CL09MB028-	ep	37.09	0.02	22.33	0	14.68	0.62	0.53
CL09MB028-	ep	36.17	0.12	21.57	0	15.03	1.62	0.42
CL09MB029-	ep	37.66	0.1	24.19	0	12.36	0.39	0.12
CL09MB029-	ep	37.42	0.11	23.03	0	13.76	0.15	0.38
CL09MB029-	ep	37.56	0.01	20.75	0	16.98	0.15	0.12
CL09MB029-	ep	37	0.02	20.65	0	16.92	0.26	0.45
CL09MB029-	ep	36.91	0.17	20.48	0	17.01	0.15	0.22
CL09MB029-	ep	37.22	0.02	20.16	0	17.33	0.16	0.32
CL09MB031	ep	37.67	0.01	25.72	0	10.26	0.59	0.13
CL09MB031	ep	38.13	0.07	24.14	0	12.5	0.11	0.48
CL09MB031	ep	37.61	0.04	22.92	0	14.17	0.5	0.89
CL09MB031	ep	37.49	0.11	22.86	0	14.18	0.42	0.68
CL09MB031	ep	37.78	0.1	22.24	0	15.08	0.14	0.15
CL09MB032	ep	38.07	0.03	23.59	0	13.67	0.45	0.61
CL09MB032	ep	37.47	0.07	22.47	0	14.82	0.35	0.19
CL09MB033	ep	38.06	0.01	23.69	0	13.29	0.19	1.07
CL09MB033	ep	37.51	0.02	23.53	0	13.25	0.71	0.47
CL09MB033	ep	37.38	0.04	22.98	0	13.82	0.32	0.43
CL09MB033	ep	37.7	0.02	22.67	0	14.43	0.13	0.33
CL09MB036	ep	37.24	0.04	21.66	0	14.92	0.14	1.44
CL09MB036	ep	36.89	0.02	21.21	0	15.11	0.14	1.67
CL09MB036	ep	37.03	0.04	21.19	0	16.41	0.47	0.88
CL09MB036	ep	37.48	0.04	20.88	0	16.35	0.15	0.67
CL09MB036	ep	37.19	0.02	20.44	0	16.9	0.15	0.65
CL09MB042	ep	37.96	0.06	21.36	0	16.02	0.15	0.39
CL09MB043	ep	38.42	0.05	25.44	0	10.95	0.1	1.74

CL09MB043	ep	37.34	0.13	23.5	0	12.81	0.16	1.79
CL09MB043	ep	37.21	0.04	21.31	0	16.34	0.57	1.03
CL09MB057	ep	37.25	0.02	24.05	0	12.26	0.35	0.06
CL09MB057	ep	36.87	0.08	21.5	0	15.52	0.74	0.08
CL09MB057	ep	36.83	0.03	20.94	0	16.34	0.52	0.18
CL09MB058	ep	36.97	0	24.83	0	10.83	0.89	0.26
CL09MB058	ep	36.88	0.04	21.15	0	16.27	0.8	0.07
CL09MB058	ep	36.85	0	20.29	0	17.53	0.3	0.09
CL09MB058	ep	37.03	0	19.27	0	18.99	0.17	0.03
CL09MB059	ep	37.58	0.09	23.7	0	12.68	1.01	0.97
CL09MB059	ep	35.66	0.06	22.41	0	13.67	3.28	1.36
CL09MB059	ep	37.42	0.1	22.56	0	14.25	0.66	0.81
CL09MB060	ep	37.07	0.14	22.55	0	14.19	0.65	0.18
CL09MB060	ep	36.79	0	22.23	0	14.5	0.9	0.19
CL09MB060	ep	36.86	0	22.18	0	14.69	0.22	0.47
CL09MB060	ep	36.67	0.01	21.13	0	15.95	0.49	0.41
CL09MB061	ep	37.2	0.02	23.9	0	12.31	0.77	0.45
CL09MB061	ep	37.62	0.03	23.66	0	13.14	0.9	0.3
CL09MB061	ep	37.04	0.03	22.68	0	14.17	1.1	0.67
CL09MB061	ep	36.75	0.03	22.34	0	14.32	0.79	0.08
CL09MB062	ep	36.87	0.08	22.32	0	13.89	0.42	0.47
CL09MB062	ep	37.03	0.03	21.1	0	16.31	0.38	0.44
CL09MB062	ep	36.44	0.07	20.32	0	16.71	0.67	0.29
CL09MB062	ep	36.9	0.03	19.8	0	18.01	0.21	0.57
CL09MB063	ep	37.34	0.07	23.77	0	12.52	0.5	0.46
CL09MB063	ep	36.79	0.09	23.45	0	12.62	1.62	0.46
CL09MB063	ep	34.98	0.21	22.43	0	13.24	5.43	0.44
CL09MB064	ep	37.19	0	21.58	0	15.79	0.39	0.15
CL09MB064	ep	36.78	0.02	20.94	0	16.01	0.15	0.3
CL09MB065	ep	37.09	0.06	21.73	0	15.47	0.44	0.4
CL09MB072	ep	37.46	0.06	23.85	0	12.76	0.59	0.77
CL09MB072	ep	37.7	0.11	23.79	0	12.93	0.5	0.71
CL09MB072	ep	36.9	0.02	21.38	0	16.04	0.74	0.12
CL09MB072	ep	37.4	0.19	21.36	0	16.11	0.15	0.27
CL09MB073	ep	37.87	0.19	23.35	0	13.5	0.12	0.33
CL09MB073	ep	37.56	0	23.33	0	13.62	0.65	0.9
CL09MB073	ep	37.38	0.01	23.05	0	13.93	0.76	1.51
CL09MB074	ep	37.78	0.01	24.17	0	12.46	0.47	0.74
CL09MB074	ep	37.54	0.05	22.95	0	14.21	0.72	0.14
CL09MB074	ep	37.02	0.07	21.95	0	15.32	0.56	0.73
CL09MB075	ep	37.74	0.01	24.48	0	12.05	0.21	1.18
CL09MB075	ep	37.15	0.06	21.96	0	15.02	0.14	1.83
CL09MB075	ep	37.41	0	21.28	0	16.1	0.15	1.04
CL09MB080	ep	37.74	0.02	23.64	0	13.13	0.46	1.18
CL09MB080	ep	37.91	0.05	23.53	0	13.16	0.12	0.5
CL09MB080	ep	38.09	0.02	22.48	0	14.8	0.13	0.21
CL09MB081	ep	38.07	0.03	24.62	0	11.99	0.11	0.44
CL09MB085	ep	38.5	0.01	25.98	0	10.26	0.45	0.26
CL09MB085	ep	37.57	0.02	23.3	0	13.28	0.5	1.17
CL09MB085	ep	36.93	0	22	0	14.48	0.46	1.34
CL09MB085	ep	37.83	0	22.31	0	15.03	0.4	0.46
CL09MB086	ep	38.49	0.19	24.44	0	11.45	0.1	0.65
CL09MB086	ep	36.07	0.08	22.04	0	12.37	0.11	1.81
CL09MB086	ep	37.56	0.01	22.75	0	14.18	0.33	1.08
CL09MB091	ep	37.93	0.02	24.28	0	12.33	0.3	0.48
CL09MB091	ep	37.95	0.05	23.11	0	14.07	0.17	0.2
CL09MB091	ep	38	0.07	22.99	0	14.29	0.33	0.38
CL09MB092	ep	37.17	0.03	21.58	0	15.48	0.71	0.98
CL09MB092	ep	37.34	0.17	21.58	0	15.52	0.25	0.41
CL09MB092	ep	37.19	0.11	21.65	0	15.6	0.66	0.15
CL09MB093	ep	38.26	0.02	26.23	0	9.77	0.78	0.41
CL09MB093	ep	37.84	0.05	24.33	0	12.19	0.14	0.11
CL09MB093	ep	38.09	0.02	23.98	0	12.81	0.12	0.11
CL09MB094	ep	37.7	0.08	24.88	0	11.26	0.68	0.52
CL09MB094	ep	37.5	0	24.88	0	11.39	0.94	0.23
CL09MB094	ep	37.2	0.02	22.95	0	13.91	0.44	0.14
CL09MB094	ep	37.63	0.07	22.63	0	14.53	0.4	0.19
CL09MB096	ep	37.64	0.07	24.32	0	12.14	0.5	0.37
CL09MB097	ep	37.95	0.03	25.89	0	10.25	0.66	0.25
CL09MB097	ep	37.87	0.06	23.95	0	12.89	0.35	0.48
CL09MB098	ep	37.08	0.15	22.37	0	14.4	0.29	0.14
CL09MB098	ep	37.2	0.19	22.33	0	14.77	0.51	0.27
CL09MB098	ep	37.51	0.04	22.08	0	15.5	0.27	0.25

CL09MB098	ep	37.22	0.06	21.5	0	15.7	0.25	0.21
CL09MB099	ep	37.81	0.08	23.01	0	14.23	0.28	0.46
CL09MB099	ep	37.54	0.09	22.44	0	14.46	0.13	0.35
CL09MB099	ep	37.22	0.03	22.08	0	15.1	0.51	0.18
CL09MB099	ep	36.48	0.08	21.3	0	15.79	1.61	0.12
CL09MB101	ep	37.17	0.04	23.09	0	13.51	0.68	0.38
CL09MB101	ep	37.24	0.11	22.68	0	14.07	0.29	0.16
CL09MB101	ep	37.28	0.08	21.26	0	16.25	0.19	0.22
CL09MB102	ep	37.36	0.06	22.65	0	14.39	0.37	0.41
CL09MB102	ep	37.01	0.03	21.09	0	16.33	0.2	0.35
CL09MB102	ep	37.31	0.23	20.39	0	17.46	0.26	0.16
CL09MB102	ep	37.1	0.05	19.69	0	18.07	0.16	0.13
CL09MB104	ep	37.64	0.04	22.57	0	14.74	0.38	0.08
CL09MB104	ep	37.08	0.02	21.89	0	15.27	0.19	0.1
CL09MB104	ep	36.98	0.05	19.84	0	18.03	0.16	0.1
CL09MB107	ep	37.31	0.02	22.67	0	14.5	0.5	0.12
CL09MB107	ep	37.59	0.04	21.86	0	15.65	0.17	0.22
CL09MB107	ep	37.27	0.03	21	0	16.62	0.26	0.21
CL09MB108	ep	37.68	0	23.56	0	13.4	0.27	0.31
CL09MB108	ep	37.23	0.01	22.84	0	14	1.18	0.98
CL09MB111	ep	37.2	0.04	23.03	0	13.81	0.53	0.28
CL09MB111	ep	37.41	0.05	21.95	0	15.19	0.15	0.5
CL09MB113	ep	37.75	0.14	24.18	0	12.38	0.21	0.53
CL09MB113	ep	38.04	0.02	24.07	0	12.53	0.11	0.5
CL09MB113	ep	37.46	0.16	23.29	0	13.2	0.16	0.29
CL09MB114	ep	37.51	0.03	24	0	12.38	0.11	0.67
CL09MB114	ep	37.95	0.04	23.85	0	12.37	0.11	0.85
CL09MB114	ep	37.71	0.03	24.01	0	12.48	0.16	0.98
CL09MB114	ep	37.09	0.02	23.23	0	13.13	0.12	1.91
CL09MB115	ep	37.66	0.03	24.45	0	12.06	0.53	0.56
CL09MB118	ep	36.33	0.04	21.8	0	14.91	1.12	1.57
CL09MB118	ep	36.45	0.11	21.48	0	15.3	0.62	1.08
CL09MB119	ep	36.08	0.02	21.5	0	15.23	1.01	0.29
CL09MB119	ep	35.81	0.01	21.3	0	15.23	1.06	0.4
CL09MB119	ep	36.06	0	19.59	0	17.9	1	0.14
CL09MB120	ep	37.25	0.05	21.76	0	15.12	0.14	0.92
CL09MB120	ep	36.66	0.1	21.3	0	15.58	0.4	0.8
CL09MB120	ep	36.94	0.02	20.54	0	16.71	0.15	0.5
CL09MB120	ep	37.25	0	20.22	0	17.63	0.16	0.27
CL09MB121	ep	35.92	0.09	19.72	0	17.44	0.71	0.15
CL09MB125	ep	37.39	0.06	22.67	0	14.21	0.25	0.32
CL09MB125	ep	36.93	0.06	22.01	0	14.81	0.21	0.41
CL09MB125	ep	37.07	0.19	21.01	0	16.41	0.41	0.31
CL09MB127	ep	42.82	0	20.05	0	6.39	0.06	0
CL09MB127	ep	36.88	0.09	22.71	0	13.78	0.66	0.25
CL09MB127	ep	36.93	0.08	22.45	0	14.31	0.78	0.2
CL09MB127	ep	37.29	0.06	22.42	0	14.57	0.46	0.26
CL09MB128	ep	37.14	0.09	23.48	0	13.03	0.72	1.04
CL09MB129	ep	37.56	0.04	20.45	0	15.86	0.14	0.43
CL09MB129	ep	35.79	0.05	19.4	0	16.57	0.15	0.86
CL09MB130	ep	36.97	0.03	22.29	0	14.64	0.63	0.5
CL09MB130	ep	33.63	0.44	19.43	0	12.93	0.33	0.45
CL09MB131	ep	37.68	0.03	24.07	0	12.57	0.35	0.7
CL09MB132	ep	37.61	0.21	22.41	0	14.76	0.13	1.2
CL09MB133	ep	37.4	0.2	22.05	0	15.04	0.14	0.48
CL09MB134	ep	37.36	0.06	24.05	0	12.27	0.57	0.54
CL09MB134	ep	37.36	0.13	22.11	0	14.89	0.14	0.73
CL09MB134	ep	37.68	0.15	21.36	0	15.91	0.14	0.66
CL09MB134	ep	37.11	0.23	20.97	0	16.43	0.17	0.75
CL09MB135	ep	37.68	0.04	23.07	0	13.85	0.18	0.35
CL09MB135	ep	37.81	0.05	23.15	0	13.93	0.16	0.23
CL09MB136	ep	37.46	0.14	23.89	0	10.64	0.1	0.67
CL09MB136	ep	37.48	0.64	22.07	0	14.68	0.13	0.32
CL09MB137	ep	37.37	0.02	25.02	0	10.8	1.04	0.31
CL09MB137	ep	37.52	0.03	23.86	0	12.58	0.5	0.19
CL09MB138	ep	42.79	0.09	21.49	0	4.21	0.04	0.01
CL09MB138	ep	42.98	0.12	20.39	0	5.21	0.05	0.04
CL09MB139	ep	36.93	0.28	22.76	0	13.86	1.36	0.51
CL09MB140	ep	42.03	0.08	20.84	0	5.28	0.05	0.12
CL09MB140	ep	42.25	0.08	19.6	0	7.13	0.06	0.08
CL09MB140	ep	36.09	0.13	19.78	0	17.06	0.8	0.15
CL09MB142	ep	37.86	0.04	23.99	0	12.47	0.11	0.79
CL09MB142	ep	36.21	0	17.31	0	21.45	0.51	0.08

CL09MB144	ep	37.34	0.02	24.88	0	11.32	0.82	0.25
CL09MB144	ep	37.34	0.02	24.38	0	11.93	0.8	0.37
CL09MB144	ep	37.2	0.01	22.75	0	14.13	0.49	0.24
CL09MB146	ep	37.16	0	22.87	0	13.89	0.77	1.05
CL09MB146	ep	37.03	0.03	22.23	0	14.85	0.85	0.46
CL09MB146	ep	36.98	0.11	21.75	0	15.45	0.77	0.3
CL09MB147	ep	37.54	0.27	23.94	0	12.18	0.11	0.34
CL09MB147	ep	37.12	0.05	22.95	0	13.74	0.92	0.38
CL09MB147	ep	36.97	0.12	21.21	0	16.23	0.47	0.15
CL09MB149	ep	37.34	0.12	23.86	0	12.44	0.45	0.16
CL09MB149	ep	37.19	0.04	23.73	0	12.76	0.7	0.3
CL09MB150	ep	36.97	0.29	22.71	0	13.82	0.82	0.37
CL09MB151	ep	37.84	0	26.18	0	9.51	0.85	0.05
CL09MB151	ep	37.28	0.01	24.01	0	12.23	0.74	0.06
CL09MB151	ep	37.24	0.04	23.59	0	12.94	0.77	0.04
CL09MB151	ep	37.5	0.02	23.46	0	13.21	0.46	0.08
CL09MB151	ep	37.32	0.08	23.25	0	13.39	0.4	0.09
CL09MB151	ep	37.43	0.05	22.97	0	13.78	0.46	0.01
CL09MB151	ep	37.63	0	23	0	14.08	0.61	0.22
CL09MB151	ep	37.69	0.05	22.84	0	14.08	0.27	0.11
CL09MB151	ep	36.98	0.02	22.03	0	14.99	0.71	0.04
CL09MB209	ep	37.31	0.06	22.13	0	14.95	0.23	0.1
CL09MB210	ep	37.59	0.03	24.07	0	12.33	0.42	0.37
CL09MB228	ep	37.87	0.01	23.48	0	13.63	0.28	0.37
CL09MB228	ep	37.53	0	23.27	0	13.91	0.89	0.2
CL09MB228	ep	37.33	0.02	21.68	0	15.97	0.54	0.15
CL09MB229	ep	37.74	0.01	23.77	0	13.13	0.59	0.59
CL09MB229	ep	37.74	0.04	23.25	0	13.94	0.41	0.85
CL09MB229	ep	37.65	0.01	22.94	0	14.39	0.45	0.35
CL09MB229	ep	37.48	0	21.14	0	16.84	0.36	0.19
CL09MB231	ep	37.7	0	23.82	0	13.09	0.32	0.22
CL09MB231	ep	37.8	0.08	23.48	0	13.35	0.12	0.48
CL09MB231	ep	37.4	0.05	23.26	0	13.54	0.29	0.41
CL09MB231	ep	37.77	0	23.18	0	14.06	0.24	0.2
CL09MB232	ep	37.37	0.14	23.93	0	12.51	0.75	0.54
CL09MB232	ep	38.03	0.02	23.79	0	13.45	0.35	0.18
CL09MB232	ep	37.69	0.02	22.6	0	14.93	0.3	0.16
CL09MB232	ep	37.17	0.02	22.16	0	15.13	0.53	0.23
CL09MB233	ep	37.73	0.06	25.02	0	11.19	0.61	0.19
CL09MB233	ep	37.57	0.06	23.42	0	13.44	0.82	0.27
CL09MB233	ep	37.77	0.18	23.16	0	13.85	0.39	0.13
CL09MB233	ep	37.54	0.03	22.64	0	14.67	0.55	0.1
TI131104-1	ep	37.05	0.1	23.64	0	12.86	1.31	0.12
TI131104-1	ep	37.17	0.12	23.6	0	13.01	1.25	0.15
TI131104-1	ep	36.8	0.84	22.92	0	13.26	1.38	0.11
TI131104-1	ep	36.76	0	23.07	0	13.41	1.88	1.53
TI131104-1	ep	36.8	0.05	23.03	0	13.41	2.04	1.4
TI131104-1	ep	37.09	0.06	23.1	0	13.68	1.65	1.05
TI131104-1	ep	37.05	0.11	22.6	0	14.2	1.06	0.08
TI131104-1	ep	36.74	0.04	22.49	0	14.34	1.64	0.49
TI131104-1	ep	37.02	0.04	22.61	0	14.47	1.8	0.64
TI131104-1	ep	36.57	0	22.41	0	14.44	1.93	0.42
TI131104-1	ep	36.34	0.04	21.88	0	15.09	1.43	0.07
TI131104-1	ep	37.14	0.09	22.05	0	15.36	1.08	0.13
TI131104-1	ep	37.27	0.1	21.9	0	15.29	0.37	0.22
TI131104-1	ep	36.42	0.09	21.66	0	15.2	1.52	0.41
TI131104-1	ep	38.93	0.07	20.62	0	14.65	0.13	0.25
TI131104-1	ep	36.88	0.07	21.74	0	15.63	1.21	0.17
TI131104-1	ep	37.02	0.06	21.75	0	15.74	0.97	0.1
TI131104-1	ep	36.65	0.04	21.54	0	15.57	1.43	0.14
TI131104-1	ep	36.31	0.34	21.21	0	15.53	1.1	0.16
TI131104-1	ep	36.59	0.06	21.33	0	15.91	1.35	0.32
TI131104-1	ep	34.53	1.93	19.83	0	15.03	0.51	0.22
TI131104-1	ep	36.69	0.05	21.07	0	16.33	1.3	0.08
TI131104-1	ep	37.05	0.09	20.4	0	17.51	0.93	0.12
TI131104-1	ep	36.53	0.25	20.29	0	17.44	1.18	0.07

MgO	CaO	Na2O	K2O	Totals	Oxygens	Si	Ti	Al
0.02	22.97	0.03	0.02	98.63	12.5	2.991	0.002	2.114
0.06	23.19	0	0	99.23	12.5	2.982	0.001	2.003
0.04	20.78	0.42	0.04	98.17	12.5	3.092	0.001	2.168
0.01	23.3	0.01	0.02	99.01	12.5	2.994	0.001	2.039
0.07	22.92	0.03	0.01	97.83	12.5	2.98	0	1.904
0.08	23	0	0.03	98.31	12.5	2.975	0.003	2.26
0.05	23.3	0.03	0	98.63	12.5	2.959	0.005	2.139
0	23.14	0	0.01	98.27	12.5	2.965	0.012	2.132
0.02	22.92	0.02	0	98.66	12.5	2.979	0.004	2.126
0.06	23.01	0	0.08	98.43	12.5	2.983	0.007	2.147
0.04	23.17	0	0	99.03	12.5	2.991	0.003	1.923
0.05	22.85	0.14	0.04	98.01	12.5	3.011	0.003	2.22
0	23.29	0	0	98.38	12.5	2.976	0.004	2.155
0.03	23.3	0	0.01	99	12.5	2.972	0.001	2.087
0.02	23.41	0.03	0.02	98.55	12.5	2.977	0.002	2.221
0.09	22.94	0	0.04	98.84	12.5	2.985	0.006	2.218
0.03	23	0.01	0	98.51	12.5	2.983	0.003	2.218
0.08	22.79	0.03	0.01	98.7	12.5	2.97	0.002	2.153
0.52	22.08	0	0.01	98.55	12.5	2.978	0.001	2.122
0.02	23.36	0.02	0.01	98.32	12.5	2.974	0.002	2.075
0.03	23.05	0.01	0	98.26	12.5	2.98	0.002	2.059
0.05	22.83	0.02	0	98.13	12.5	2.979	0.003	1.885
0.01	21.89	0.1	0.05	93.77	12.5	2.983	0.006	2.048
0.05	22.9	0	0	98.16	12.5	2.974	0.004	2.04
0.07	23.07	0	0	98.28	12.5	2.979	0.004	2.014
0.04	22.93	0.03	0	98.89	12.5	2.998	0.007	1.977
0.04	22.79	0.06	0.02	98.4	12.5	3.011	0.001	1.907
0.01	23.12	0	0	98	12.5	2.978	0	2.375
0.03	23.47	0.01	0	97.57	12.5	2.952	0.001	2.346
0	23.54	0.02	0.02	97.88	12.5	2.965	0.005	2.342
0	23.44	0.02	0.01	98.33	12.5	2.993	0.006	2.264
0	22.69	0.04	0.02	97.71	12.5	2.982	0.002	2.227
0	23.34	0.01	0.01	97.95	12.5	2.967	0.012	2.154
0	23.23	0	0.01	98.41	12.5	2.978	0.002	2.324
0	23.18	0	0	98.33	12.5	2.978	0	2.275
0	23.15	0	0	97.77	12.5	2.973	0	2.236
0	23.24	0.01	0.01	98.14	12.5	2.986	0.002	2.144
0.01	23.3	0.02	0.03	98.64	12.5	2.982	0.001	2.14
0	22.79	0.05	0.01	98.18	12.5	3.002	0.004	2.235
0.15	23.16	0	0.01	97.92	12.5	2.967	0.004	2.226
0.04	22.61	0.03	0.02	97.99	12.5	3.02	0.003	2.129
0.03	23.2	0.02	0	98.17	12.5	2.989	0.003	2.12
0.01	23.01	0.04	0	97.51	12.5	2.988	0.002	2.05
0	22.29	0.08	0	97.79	12.5	2.96	0.002	2.193
0.19	22.33	0.04	0.01	98.13	12.5	3.001	0.001	2.118
0.02	22.82	0.03	0	98.14	12.5	2.977	0.001	2.112
0	22.5	0	0.02	97.45	12.5	2.946	0.007	2.072
0	23.55	0.04	0.02	98.44	12.5	2.981	0.006	2.258
0	23.19	0.02	0.04	98.08	12.5	2.987	0.006	2.167
0.03	23.09	0.05	0	98.74	12.5	3.009	0.001	1.959
0.07	22.46	0.02	0.18	98.04	12.5	2.993	0.001	1.969
0.07	23.12	0.03	0.03	98.18	12.5	2.982	0.01	1.951
0.17	23.15	0.02	0	98.56	12.5	2.998	0.001	1.915
0.02	23.76	0.03	0	98.2	12.5	2.97	0.001	2.39
0.05	23.11	0.1	0.01	98.71	12.5	3.005	0.004	2.243
0.02	22.51	0.04	0	98.7	12.5	2.991	0.003	2.149
0.05	22.83	0.03	0.02	98.66	12.5	2.983	0.006	2.144
0.09	22.93	0	0	98.5	12.5	3.008	0.006	2.087
0.03	22.93	0	0.01	99.39	12.5	2.996	0.002	2.189
0.03	23.37	0.02	0.01	98.81	12.5	2.982	0.004	2.108
0	22.38	0	0	98.68	12.5	3.01	0	2.209
0	22.95	0.02	0.01	98.46	12.5	2.982	0.001	2.206
0	23.01	0	0	97.98	12.5	2.989	0.002	2.166
0	23.08	0.02	0	98.39	12.5	3.003	0.001	2.129
0.05	22.48	0	0.01	97.98	12.5	2.999	0.002	2.057
0.06	22.34	0.03	0	97.47	12.5	2.995	0.001	2.03
0.01	22.76	0	0	98.8	12.5	2.974	0.002	2.006
0	23.21	0	0	98.79	12.5	3.004	0.002	1.973
0.06	22.99	0	0.01	98.41	12.5	2.998	0.001	1.943
0.13	22.36	0.2	0.06	98.68	12.5	3.028	0.004	2.009
0.02	22.25	0.02	0.09	99.08	12.5	3.006	0.003	2.346

0.05	21.73	0.01	0.12	97.63	12.5	2.993	0.008	2.22
0	22.47	0.01	0	98.98	12.5	2.98	0.002	2.013
0	23.69	0.02	0.01	97.71	12.5	2.972	0.001	2.262
0	22.77	0.03	0.02	97.62	12.5	2.982	0.005	2.05
0	22.76	0.04	0	97.65	12.5	2.986	0.002	2.001
0.01	23.17	0.04	0	96.99	12.5	2.964	0	2.347
0.01	23.02	0.02	0.02	98.28	12.5	2.974	0.002	2.01
0	23.18	0.09	0.01	98.34	12.5	2.979	0	1.934
0	23.18	0	0.01	98.68	12.5	2.994	0	1.837
0.36	21	0	0.38	97.77	12.5	3.002	0.005	2.232
1.87	18.51	0.03	0.18	97.03	12.5	2.911	0.004	2.157
0.15	21.67	0	0.26	97.89	12.5	3.002	0.006	2.134
0	23.12	0	0	97.9	12.5	2.976	0.008	2.134
0	22.84	0.02	0.01	97.48	12.5	2.973	0	2.118
0.03	23.16	0.04	0	97.65	12.5	2.972	0	2.109
0	22.72	0.01	0	97.39	12.5	2.98	0.001	2.024
0.01	22.78	0.02	0.02	97.48	12.5	2.979	0.001	2.257
0	22.88	0.03	0.01	98.57	12.5	2.985	0.002	2.214
0	22.54	0.05	0.01	98.29	12.5	2.969	0.002	2.144
0.02	23.05	0.06	0.01	97.44	12.5	2.969	0.002	2.128
0	22.09	0	0.03	96.17	12.5	3.003	0.005	2.144
0	22.74	0	0.01	98.04	12.5	2.988	0.002	2.007
0	22.23	0.02	0	96.75	12.5	2.988	0.004	1.964
0.01	22.35	0	0.02	97.9	12.5	2.998	0.002	1.897
0.06	22.73	0	0.07	97.52	12.5	2.987	0.004	2.242
0.1	22.05	0	0.14	97.32	12.5	2.966	0.005	2.229
0.08	20.8	0.06	0.15	97.83	12.5	2.87	0.013	2.169
0	23.04	0	0.02	98.16	12.5	2.989	0	2.045
0	22.55	0.01	0	96.75	12.5	3	0.001	2.014
0	22.82	0.12	0	98.13	12.5	2.983	0.004	2.06
0.19	22.7	0	0.03	98.41	12.5	2.976	0.003	2.234
0	22.84	0	0.02	98.59	12.5	2.988	0.006	2.222
0.01	23.22	0.04	0	98.48	12.5	2.968	0.001	2.028
0.08	23.29	0	0.03	98.88	12.5	2.987	0.011	2.012
0.53	23.38	0	0.05	99.33	12.5	2.98	0.011	2.166
0.09	22.51	0	0.01	98.67	12.5	2.984	0	2.185
0.05	22.1	0.01	0	98.79	12.5	2.977	0	2.165
0.05	22.72	0.03	0	98.43	12.5	2.992	0.001	2.256
0.02	23.19	0.04	0	98.87	12.5	2.981	0.003	2.148
0.06	22.96	0	0.07	98.74	12.5	2.965	0.004	2.073
0	22.85	0.03	0	98.56	12.5	2.984	0.001	2.282
0	21.75	0	0	97.9	12.5	2.993	0.003	2.086
0.1	22.71	0.04	0.02	98.84	12.5	2.995	0	2.008
0.03	22.19	0	0.02	98.4	12.5	2.998	0.001	2.214
0.33	22.62	0.04	0.05	98.31	12.5	3.005	0.003	2.199
0.04	23.2	0.02	0.01	98.99	12.5	3.016	0.001	2.098
0.02	23.43	0	0.01	98.73	12.5	2.995	0.002	2.284
0	23.04	0	0.02	98.54	12.5	3.01	0.001	2.395
0.01	21.79	0	0.01	97.66	12.5	3.008	0.001	2.199
0	21.29	0.04	0	96.54	12.5	3.008	0	2.112
0	22.29	0.01	0.01	98.36	12.5	3.017	0	2.097
0.01	22.11	0.05	0.39	97.89	12.5	3.044	0.011	2.279
0.07	19.01	0.01	0.06	91.64	12.5	3.06	0.005	2.204
0	22.1	0	0	98.01	12.5	3.005	0	2.146
0.15	22.73	0.01	0.01	98.24	12.5	3.001	0.001	2.265
0.24	22.76	0.01	0	98.56	12.5	3.006	0.003	2.158
0.08	22.73	0	0	98.87	12.5	3.007	0.004	2.145
0.05	21.54	0.04	0	97.58	12.5	3.005	0.002	2.057
0.18	22.1	0.08	0.01	97.63	12.5	3.007	0.01	2.049
0.01	22.8	0.05	0	98.22	12.5	2.987	0.007	2.05
0.06	22.84	0.02	0.01	98.4	12.5	2.997	0.001	2.423
0.11	23.31	0	0.02	98.1	12.5	2.995	0.003	2.271
0.09	23.02	0.05	0.03	98.31	12.5	3.011	0.001	2.235
0.03	22.86	0	0	98.02	12.5	2.987	0.005	2.324
0	23.42	0	0	98.36	12.5	2.968	0	2.322
0.02	23.45	0.05	0.01	98.19	12.5	2.973	0.001	2.162
0	22.99	0.03	0	98.48	12.5	2.997	0.004	2.125
0.06	23.15	0.02	0.01	98.28	12.5	2.983	0.004	2.272
0.02	23.59	0.02	0.02	98.68	12.5	2.976	0.002	2.394
0.04	23.09	0.02	0	98.75	12.5	2.991	0.004	2.23
0	23.25	0.03	0	97.71	12.5	2.981	0.009	2.12
0	23.4	0.01	0.01	98.69	12.5	2.97	0.011	2.101
0	23.44	0	0.01	99.09	12.5	2.983	0.002	2.07

0	22.65	0	0.16	97.75	12.5	3.001	0.004	2.044
0.14	22.93	0	0.01	98.96	12.5	2.993	0.004	2.148
0.12	22.99	0.09	0.02	98.23	12.5	2.998	0.005	2.112
0.03	23.04	0	0	98.19	12.5	2.985	0.002	2.087
0.07	22.64	0	0.02	98.11	12.5	2.954	0.005	2.033
0.02	22.82	0.06	0.01	97.78	12.5	2.98	0.003	2.182
0.07	23.04	0.05	0	97.7	12.5	2.987	0.007	2.144
0.01	22.97	0.03	0	98.29	12.5	2.995	0.005	2.013
0.17	22.89	0.01	0.03	98.33	12.5	2.983	0.003	2.132
0.1	22.85	0.01	0	97.98	12.5	2.986	0.002	2.007
0.06	22.79	0.01	0	98.66	12.5	2.998	0.014	1.931
0.07	23.12	0.01	0	98.42	12.5	2.999	0.003	1.876
0.03	23.21	0	0.02	98.72	12.5	2.993	0.002	2.116
0.03	23.35	0.02	0	97.95	12.5	2.981	0.001	2.075
0	23.03	0	0.01	98.21	12.5	2.995	0.003	1.894
0.04	23.43	0.06	0.01	98.67	12.5	2.973	0.001	2.129
0.04	22.95	0.01	0.03	98.55	12.5	3.001	0.002	2.057
0	22.85	0	0.01	98.25	12.5	2.999	0.002	1.992
0.2	23.13	0.02	0	98.58	12.5	2.986	0	2.201
0.06	21.96	0.02	0	98.28	12.5	2.981	0.001	2.156
0.09	23.26	0.03	0.02	98.27	12.5	2.97	0.002	2.168
0.18	22.33	0	0.01	97.77	12.5	3.005	0.003	2.078
0.02	23.25	0	0.03	98.49	12.5	2.986	0.008	2.255
0.09	23.25	0	0.06	98.68	12.5	3.001	0.001	2.239
0.03	22.89	0.03	0.1	97.61	12.5	2.996	0.01	2.196
0.05	22.84	0.04	0.13	97.76	12.5	2.99	0.002	2.255
0.08	22.97	0.03	0.03	98.28	12.5	3.008	0.002	2.229
0.14	22.22	0	0.26	97.99	12.5	2.999	0.002	2.251
0.04	21.94	0	0.01	97.49	12.5	2.983	0.001	2.203
0.03	23.15	0.03	0.01	98.52	12.5	2.979	0.002	2.28
0.01	21.99	0	0.04	97.82	12.5	2.949	0.003	2.087
0.14	22.26	0.02	0	97.46	12.5	2.962	0.007	2.058
0.06	23.11	0.04	0.04	97.37	12.5	2.94	0.001	2.065
0.03	23.01	0	0	96.85	12.5	2.937	0.001	2.059
0	22.79	0.01	0	97.49	12.5	2.959	0	1.895
0.26	21.4	0	0.3	97.19	12.5	3.013	0.003	2.075
0.05	22.33	0.01	0.07	97.3	12.5	2.98	0.006	2.041
0.17	22.53	0.02	0.12	97.7	12.5	2.996	0.001	1.964
0.02	22.96	0.03	0.01	98.55	12.5	3	0	1.92
0	22.9	0.02	0.02	96.98	12.5	2.957	0.005	1.914
0.17	22.69	0.06	0.01	97.83	12.5	2.994	0.004	2.14
0.12	22.81	0.02	0	97.39	12.5	2.983	0.004	2.096
0.07	22.73	0.08	0.01	98.28	12.5	2.985	0.011	1.994
0.03	26.36	0	0.01	95.71	12.5	3.417	0	1.886
0.08	22.86	0.06	0.01	97.38	12.5	2.973	0.005	2.159
0.09	22.97	0	0	97.81	12.5	2.971	0.005	2.129
0.16	22.77	0	0	97.98	12.5	2.988	0.003	2.118
0	22.68	0.05	0.01	98.23	12.5	2.967	0.005	2.212
0.04	21.39	0.05	0.01	95.98	12.5	3.074	0.003	1.972
0.66	20.01	0.01	0	93.49	12.5	3.024	0.003	1.932
0.04	22.89	0.02	0	98.02	12.5	2.972	0.002	2.112
0.09	18.36	0.01	0	85.66	12.5	3.061	0.03	2.085
0.04	22.95	0.04	0.01	98.45	12.5	2.986	0.002	2.249
0.2	22.39	0.02	0.01	98.94	12.5	2.989	0.013	2.1
0.08	23.13	0	0.01	98.54	12.5	2.987	0.012	2.076
0.08	22.92	0	0	97.87	12.5	2.978	0.004	2.26
0.11	22.73	0	0	98.19	12.5	2.992	0.008	2.088
0.11	22.93	0	0.01	98.95	12.5	3.005	0.009	2.009
0.04	22.58	0	0.01	98.3	12.5	2.988	0.014	1.991
0.4	22.38	0	0.03	97.99	12.5	3.002	0.003	2.167
0.09	23.09	0.01	0	98.52	12.5	2.999	0.003	2.165
0.03	22.58	0.02	0	95.53	12.5	3.034	0.009	2.282
0.17	22.69	0.01	0.04	98.22	12.5	2.994	0.039	2.079
0.07	22.75	0	0.01	97.4	12.5	2.978	0.001	2.351
0.03	22.92	0.06	0.01	97.7	12.5	2.993	0.002	2.243
0.21	26.24	0.04	0.07	95.17	12.5	3.407	0.005	2.017
0.02	26.3	0.08	0	95.19	12.5	3.434	0.007	1.921
0.06	22.68	0.01	0	98.45	12.5	2.957	0.017	2.148
0.52	25.79	0.03	0.01	94.75	12.5	3.377	0.005	1.974
0.01	26.37	0.01	0.01	95.59	12.5	3.391	0.005	1.855
0.05	22.01	0.02	0	96.09	12.5	2.986	0.008	1.93
0.06	22.81	0.08	0.02	98.23	12.5	3.002	0.002	2.243
0.01	22.85	0.03	0.01	98.45	12.5	2.973	0	1.675

0.02	23.6	0.05	0	98.31	12.5	2.959	0.001	2.324
0	23.3	0.01	0	98.15	12.5	2.968	0.001	2.285
0.02	23.2	0.01	0	98.07	12.5	2.978	0.001	2.148
0.04	22.24	0.02	0.01	98.06	12.5	2.98	0	2.162
0	22.91	0.01	0	98.38	12.5	2.97	0.002	2.102
0	23.03	0.02	0	98.41	12.5	2.97	0.006	2.06
0	23.2	0	0.02	97.6	12.5	2.992	0.016	2.25
0.03	22.79	0	0	97.97	12.5	2.975	0.003	2.168
0.02	23.26	0.02	0.02	98.44	12.5	2.973	0.007	2.011
0	23.32	0	0	97.7	12.5	2.98	0.007	2.246
0.09	23.25	0	0.01	98.07	12.5	2.967	0.002	2.231
0.38	22.46	0.02	0.03	97.86	12.5	2.966	0.018	2.148
0.05	23.21	0	0.07	97.77	12.5	2.985	0	2.435
0.06	23.05	0	0.02	97.45	12.5	2.981	0	2.264
0.02	23.3	0.02	0	97.94	12.5	2.974	0.002	2.22
0.01	23.17	0.01	0.01	97.94	12.5	2.99	0.001	2.206
0.24	23.04	0	0.01	97.83	12.5	2.982	0.005	2.19
0.03	22.84	0.07	0.15	97.79	12.5	2.996	0.003	2.168
0.03	22.92	0.01	0	98.5	12.5	2.993	0	2.157
0.04	22.65	0.06	0.09	97.88	12.5	3.01	0.003	2.151
0.02	23.07	0.04	0	97.89	12.5	2.977	0.001	2.091
0.01	23.11	0	0	97.9	12.5	2.994	0.004	2.093
0.07	22.9	0.01	0	97.79	12.5	2.992	0.002	2.259
0	23.18	0.07	0	98.88	12.5	2.994	0.001	2.189
0.02	23.35	0.06	0	99.23	12.5	2.97	0	2.171
0	23.34	0.01	0.01	99.06	12.5	2.978	0.001	2.039
0.02	22.97	0	0	98.81	12.5	2.986	0.001	2.217
0.02	22.93	0	0.01	99.2	12.5	2.985	0.003	2.168
0.02	23.3	0	0.01	99.12	12.5	2.983	0	2.142
0.01	23.17	0	0.01	99.2	12.5	2.99	0	1.988
0.01	23.56	0.04	0	98.75	12.5	2.982	0	2.221
0.06	22.82	0.06	0.02	98.29	12.5	3.001	0.005	2.198
0.02	23.21	0.08	0.01	98.26	12.5	2.98	0.003	2.185
0.04	23.43	0	0.01	98.93	12.5	2.989	0	2.162
0.02	23.02	0.03	0.02	98.33	12.5	2.972	0.008	2.243
0.03	23.55	0.02	0	99.43	12.5	2.988	0.001	2.203
0	23.54	0.03	0.02	99.3	12.5	2.984	0.001	2.109
0.02	23.33	0.06	0.02	98.67	12.5	2.971	0.001	2.089
0.02	23.37	0	0.01	98.2	12.5	2.982	0.004	2.331
0.04	22.9	0.03	0.01	98.56	12.5	2.984	0.003	2.193
0.02	23.2	0	0.04	98.72	12.5	2.993	0.011	2.163
0	23.36	0.01	0.01	98.9	12.5	2.983	0.002	2.121
0.02	23.3	0	0	98.4	12.5	2.954	0.006	2.222
0.02	23.25	0	0.04	98.61	12.5	2.958	0.007	2.214
0.01	23.46	0.03	0.01	98.8	12.5	2.934	0.05	2.154
0	21.45	0.05	0	98.14	12.5	2.958	0	2.188
0	21.36	0.02	0.02	98.13	12.5	2.961	0.003	2.185
0.01	22.09	0.04	0.02	98.8	12.5	2.961	0.003	2.175
0	23.02	0	0	98.12	12.5	2.971	0.006	2.137
0	22.65	0	0	98.39	12.5	2.952	0.002	2.131
0	22.47	0.03	0.01	99.08	12.5	2.955	0.003	2.128
0.03	22.64	0.04	0	98.47	12.5	2.942	0	2.126
0	23.52	0	0	98.39	12.5	2.932	0.003	2.081
0.01	23.32	0	0	99.19	12.5	2.961	0.006	2.073
0.29	22.59	0.03	0	98.06	12.5	2.989	0.006	2.071
0.41	22.04	0.05	0.04	97.83	12.5	2.949	0.006	2.068
1.59	22.44	0.08	0.01	98.78	12.5	3.084	0.004	1.926
0	23.26	0	0	98.95	12.5	2.955	0.004	2.053
0.03	23.42	0	0	99.1	12.5	2.959	0.004	2.05
0.29	22.35	0	0.03	98.04	12.5	2.961	0.002	2.051
0.04	23.02	0	0	97.69	12.5	2.948	0.021	2.03
0	22.86	0	0.01	98.43	12.5	2.954	0.004	2.03
0.33	23.78	0	0	96.17	12.5	2.866	0.12	1.941
0.37	22.42	0.01	0	98.32	12.5	2.961	0.003	2.005
0	22.8	0	0	98.9	12.5	2.98	0.005	1.934
0.03	23.38	0	0	99.16	12.5	2.943	0.015	1.928

Cr	Fe3	Fe2	Mn	Mg	Ca	Na	K	Sum
0	0.884	0.013	0.037	0.002	1.96	0.005	0.002	8.011
0	0.997	0.028	0.019	0.007	1.982	0	0	8.019
0	0.762	0.008	0.111	0.004	1.762	0.064	0.004	7.975
0	0.958	0.01	0.014	0.002	1.988	0.001	0.002	8.008
0	1.094	0.011	0.022	0.009	1.999	0.005	0.001	8.025
0	0.738	0.024	0.057	0.01	1.957	0	0.003	8.025
0	0.856	0.045	0.033	0.005	1.994	0.004	0	8.04
0	0.856	0.035	0.042	0	1.986	0	0.001	8.03
0	0.87	0.019	0.058	0.003	1.958	0.004	0	8.021
0	0.846	0.037	0.016	0.008	1.966	0	0.008	8.018
0	1.074	0.011	0.011	0.005	1.99	0	0	8.008
0	0.77	0.008	0.016	0.005	1.944	0.022	0.004	8.004
0	0.841	0.051	0.004	0	1.991	0	0	8.023
0	0.912	0.054	0.007	0.003	1.989	0	0.001	8.027
0	0.777	0.033	0.017	0.003	1.989	0.004	0.002	8.025
0	0.776	0.048	0.024	0.01	1.944	0	0.004	8.014
0	0.778	0.043	0.03	0.003	1.956	0.001	0	8.016
0	0.844	0.059	0.043	0.009	1.946	0.004	0.001	8.032
0	0.877	0.048	0.046	0.062	1.887	0	0.001	8.022
0	0.923	0.022	0.017	0.003	2.007	0.003	0.001	8.026
0	0.94	0.038	0.013	0.003	1.984	0.001	0	8.02
0	1.112	0.014	0.032	0.006	1.988	0.003	0	8.021
0	0.946	0.017	0.027	0.001	1.974	0.016	0.006	8.025
0	0.955	0.038	0.029	0.006	1.977	0	0	8.024
0	0.982	0.026	0.016	0.008	1.99	0	0	8.019
0	1.015	0.01	0.018	0.005	1.964	0.005	0	8.001
0	1.069	0.011	0.021	0.005	1.97	0.009	0.003	8.006
0	0.625	0.048	0.035	0.001	1.959	0	0	8.023
0	0.653	0.072	0.013	0.003	2.007	0.001	0	8.048
0	0.653	0.048	0.014	0	2.003	0.002	0.002	8.035
0	0.73	0.016	0.007	0	1.986	0.002	0.001	8.006
0	0.771	0.048	0.038	0	1.946	0.007	0.002	8.022
0	0.835	0.044	0.009	0	2.005	0.002	0.001	8.029
0	0.674	0.037	0.04	0	1.966	0	0.002	8.022
0	0.725	0.05	0.024	0	1.969	0	0	8.022
0	0.764	0.063	0.007	0	1.984	0	0	8.027
0	0.854	0.026	0.009	0	1.99	0.001	0.001	8.014
0	0.859	0.03	0.015	0.001	1.987	0.003	0.003	8.021
0	0.761	0.027	0.026	0	1.937	0.008	0.001	8.001
0	0.77	0.049	0.015	0.018	1.982	0	0.001	8.032
0	0.865	0.009	0.014	0.005	1.933	0.005	0.002	7.984
0	0.877	0.019	0.009	0.004	1.988	0.004	0	8.012
0	0.948	0.017	0.008	0.001	1.994	0.006	0	8.013
0	0.805	0.119	0.031	0	1.923	0.012	0	8.045
0	0.881	0.01	0.049	0.023	1.913	0.006	0.001	8.002
0	0.886	0.042	0.036	0.003	1.963	0.005	0	8.025
0	0.921	0.111	0.029	0	1.964	0	0.002	8.051
0	0.736	0.026	0.008	0	1.998	0.006	0.002	8.02
0	0.826	0.01	0.026	0	1.984	0.003	0.004	8.013
0	1.023	0.01	0.008	0.003	1.981	0.008	0	8.003
0	1.03	0.018	0.031	0.008	1.946	0.003	0.019	8.018
0	1.034	0.01	0.015	0.008	2.001	0.005	0.003	8.019
0	1.05	0.011	0.022	0.021	1.998	0.004	0	8.02
0	0.609	0.039	0.009	0.003	2.007	0.005	0	8.032
0	0.741	0.007	0.032	0.006	1.952	0.016	0.001	8.007
0	0.848	0.033	0.06	0.002	1.918	0.005	0	8.01
0	0.849	0.028	0.046	0.006	1.947	0.005	0.002	8.017
0	0.903	0.009	0.01	0.011	1.957	0	0	7.991
0	0.81	0.03	0.041	0.003	1.933	0	0.001	8.004
0	0.888	0.024	0.013	0.003	1.993	0.004	0.001	8.018
0	0.791	0.012	0.072	0	1.896	0	0	7.991
0	0.793	0.047	0.032	0	1.955	0.003	0.001	8.019
0	0.831	0.021	0.029	0	1.971	0.001	0	8.011
0	0.865	0.009	0.022	0	1.97	0.003	0	8.001
0	0.904	0.009	0.099	0.007	1.94	0	0.001	8.018
0	0.923	0.009	0.115	0.007	1.944	0.005	0	8.029
0	0.992	0.031	0.06	0.002	1.959	0	0	8.026
0	0.986	0.01	0.046	0	1.993	0	0	8.015
0	1.026	0.01	0.044	0.007	1.986	0	0.001	8.017
0	0.962	0.01	0.026	0.015	1.911	0.031	0.006	8.002
0	0.645	0.007	0.115	0.003	1.865	0.003	0.009	8.001

0	0.772	0.01	0.122	0.006	1.866	0.002	0.013	8.011
0	0.985	0.038	0.07	0	1.929	0.001	0	8.019
0	0.736	0.023	0.004	0	2.026	0.003	0.001	8.029
0	0.945	0.05	0.005	0	1.974	0.005	0.002	8.019
0	0.997	0.036	0.012	0	1.977	0.006	0	8.017
0	0.653	0.06	0.018	0.001	1.99	0.006	0	8.039
0	0.987	0.054	0.005	0.001	1.989	0.003	0.002	8.028
0	1.066	0.02	0.006	0	2.008	0.014	0.001	8.029
0	1.156	0.012	0.002	0	2.008	0	0.001	8.01
0	0.762	0.067	0.066	0.043	1.798	0	0.039	8.014
0	0.84	0.224	0.094	0.227	1.619	0.005	0.019	8.099
0	0.86	0.045	0.055	0.018	1.863	0	0.027	8.009
0	0.857	0.043	0.012	0	1.989	0	0	8.021
0	0.882	0.061	0.013	0	1.978	0.003	0.001	8.029
0	0.891	0.015	0.032	0.004	2.001	0.006	0	8.031
0	0.975	0.033	0.028	0	1.978	0.002	0	8.021
0	0.742	0.052	0.031	0.001	1.955	0.003	0.002	8.023
0	0.785	0.06	0.02	0	1.946	0.005	0.001	8.016
0	0.855	0.074	0.045	0	1.936	0.008	0.001	8.034
0	0.871	0.053	0.005	0.002	1.995	0.009	0.001	8.035
0	0.852	0.029	0.032	0	1.928	0	0.003	7.996
0	0.991	0.026	0.03	0	1.966	0	0.001	8.011
0	1.031	0.046	0.02	0	1.953	0.003	0	8.011
0	1.101	0.015	0.039	0.001	1.946	0	0.002	8.002
0	0.754	0.033	0.031	0.007	1.948	0	0.007	8.014
0	0.766	0.11	0.031	0.012	1.905	0	0.014	8.038
0	0.818	0.373	0.031	0.01	1.828	0.01	0.016	8.136
0	0.955	0.026	0.01	0	1.984	0	0.002	8.012
0	0.983	0.01	0.021	0	1.971	0.002	0	8.001
0	0.936	0.03	0.027	0	1.966	0.019	0	8.025
0	0.763	0.039	0.052	0.022	1.932	0	0.003	8.024
0	0.771	0.033	0.047	0	1.94	0	0.002	8.01
0	0.971	0.05	0.008	0.001	2.001	0.006	0	8.035
0	0.968	0.01	0.018	0.009	1.994	0	0.003	8.013
0	0.8	0.008	0.022	0.062	1.972	0	0.005	8.028
0	0.814	0.043	0.061	0.01	1.917	0	0.001	8.016
0	0.835	0.05	0.102	0.006	1.886	0.002	0	8.023
0	0.743	0.031	0.049	0.005	1.928	0.004	0	8.01
0	0.849	0.048	0.01	0.003	1.973	0.006	0	8.02
0	0.923	0.037	0.049	0.007	1.97	0	0.007	8.037
0	0.717	0.014	0.079	0	1.936	0.004	0	8.017
0	0.911	0.009	0.125	0	1.877	0	0	8.005
0	0.97	0.01	0.071	0.012	1.948	0.005	0.002	8.02
0	0.785	0.03	0.08	0.004	1.889	0	0.002	8.002
0	0.785	0.008	0.034	0.038	1.922	0.005	0.005	8.005
0	0.882	0.009	0.014	0.004	1.968	0.003	0.001	7.995
0	0.71	0.007	0.029	0.002	1.975	0	0.001	8.006
0	0.604	0.029	0.017	0	1.931	0.001	0.002	7.991
0	0.8	0.033	0.08	0.002	1.869	0	0.001	7.992
0	0.888	0.031	0.093	0	1.858	0.006	0	7.995
0	0.902	0.027	0.031	0	1.905	0.002	0.001	7.984
0	0.681	0.007	0.044	0.001	1.874	0.007	0.04	7.988
0	0.79	0.008	0.13	0.009	1.728	0.002	0.007	7.943
0	0.854	0.022	0.073	0	1.894	0	0	7.995
0	0.734	0.02	0.032	0.018	1.927	0.002	0.001	8
0	0.839	0.011	0.013	0.028	1.932	0.002	0	7.993
0	0.851	0.022	0.025	0.009	1.927	0	0	7.992
0	0.942	0.048	0.067	0.006	1.866	0.006	0	7.998
0	0.941	0.017	0.028	0.022	1.907	0.012	0.001	7.994
0	0.943	0.044	0.01	0.001	1.962	0.008	0	8.013
0	0.576	0.051	0.027	0.007	1.917	0.003	0.001	8.004
0	0.726	0.009	0.007	0.013	1.977	0	0.002	8.004
0	0.762	0.008	0.007	0.011	1.95	0.008	0.003	7.995
0	0.672	0.045	0.035	0.004	1.941	0	0	8.012
0	0.678	0.062	0.015	0	1.986	0	0	8.033
0	0.837	0.03	0.009	0.002	2.008	0.008	0.001	8.031
0	0.871	0.027	0.013	0	1.962	0.005	0	8.003
0	0.724	0.033	0.025	0.007	1.966	0.003	0.001	8.017
0	0.605	0.043	0.017	0.002	1.982	0.003	0.002	8.026
0	0.766	0.023	0.032	0.005	1.954	0.003	0	8.009
0	0.871	0.02	0.01	0	2.003	0.005	0	8.017
0	0.887	0.034	0.018	0	2.002	0.002	0.001	8.026
0	0.927	0.018	0.017	0	1.997	0	0.001	8.016

0	0.953	0.017	0.014	0	1.957	0	0.016	8.005
0	0.848	0.019	0.031	0.017	1.945	0	0.001	8.005
0	0.869	0.009	0.024	0.014	1.967	0.014	0.002	8.014
0	0.911	0.034	0.012	0.003	1.98	0	0	8.015
0	0.962	0.109	0.008	0.008	1.964	0	0.002	8.045
0	0.815	0.046	0.026	0.002	1.961	0.01	0.001	8.025
0	0.849	0.02	0.011	0.008	1.98	0.007	0	8.013
0	0.982	0.013	0.015	0.001	1.977	0.005	0	8.005
0	0.865	0.025	0.027	0.02	1.959	0.002	0.003	8.018
0	0.992	0.014	0.024	0.013	1.976	0.002	0	8.014
0	1.055	0.017	0.011	0.007	1.962	0.001	0	7.996
0	1.099	0.011	0.009	0.009	2.003	0.001	0	8.011
0	0.882	0.025	0.006	0.004	1.978	0	0.002	8.007
0	0.924	0.013	0.007	0.003	2.012	0.003	0	8.02
0	1.099	0.011	0.007	0	1.998	0	0.001	8.007
0	0.869	0.034	0.008	0.005	2.001	0.009	0.001	8.031
0	0.941	0.011	0.015	0.005	1.963	0.002	0.003	8
0	1.006	0.017	0.014	0	1.97	0	0.001	8.001
0	0.799	0.018	0.021	0.024	1.964	0.002	0	8.015
0	0.843	0.079	0.066	0.007	1.883	0.003	0	8.02
0	0.83	0.035	0.019	0.011	1.99	0.004	0.002	8.031
0	0.919	0.01	0.034	0.021	1.922	0	0.001	7.993
0	0.737	0.014	0.036	0.002	1.971	0	0.003	8.011
0	0.744	0.008	0.033	0.011	1.966	0	0.006	8.009
0	0.794	0.011	0.02	0.004	1.962	0.005	0.01	8.007
0	0.743	0.008	0.045	0.006	1.951	0.006	0.013	8.019
0	0.738	0.007	0.057	0.009	1.951	0.005	0.003	8.01
0	0.747	0.011	0.066	0.017	1.894	0	0.026	8.013
0	0.795	0.008	0.13	0.005	1.891	0	0.001	8.017
0	0.718	0.035	0.038	0.004	1.962	0.005	0.001	8.023
0	0.911	0.076	0.108	0.002	1.913	0	0.004	8.052
0	0.935	0.042	0.075	0.017	1.938	0.003	0	8.036
0	0.934	0.069	0.02	0.008	2.018	0.006	0.004	8.064
0	0.94	0.073	0.028	0.004	2.022	0	0	8.064
0	1.105	0.069	0.01	0	2.003	0.002	0	8.042
0	0.92	0.009	0.063	0.031	1.855	0	0.031	8.001
0	0.953	0.027	0.055	0.006	1.945	0.002	0.007	8.022
0	1.02	0.01	0.034	0.021	1.958	0.003	0.012	8.019
0	1.068	0.011	0.018	0.002	1.982	0.005	0.001	8.008
0	1.08	0.049	0.01	0	2.02	0.003	0.002	8.042
0	0.856	0.017	0.022	0.021	1.947	0.009	0.001	8.01
0	0.9	0.014	0.028	0.015	1.974	0.003	0	8.017
0	0.995	0.028	0.021	0.008	1.961	0.012	0.001	8.016
0	0.384	0.004	0	0.004	2.254	0	0.001	7.949
0	0.836	0.045	0.017	0.009	1.975	0.009	0.001	8.029
0	0.866	0.052	0.013	0.011	1.979	0	0	8.027
0	0.878	0.031	0.017	0.019	1.955	0	0	8.011
0	0.783	0.048	0.07	0	1.941	0.008	0.001	8.035
0	0.976	0.01	0.03	0.005	1.875	0.008	0.001	7.954
0	1.054	0.011	0.061	0.083	1.811	0.001	0	7.98
0	0.886	0.042	0.034	0.005	1.972	0.004	0	8.029
0	0.885	0.025	0.034	0.012	1.79	0.003	0	7.925
0	0.75	0.023	0.047	0.005	1.949	0.007	0.001	8.017
0	0.883	0.009	0.08	0.024	1.907	0.003	0.001	8.008
0	0.904	0.009	0.033	0.009	1.979	0.001	0.001	8.011
0	0.736	0.038	0.036	0.01	1.958	0	0	8.021
0	0.897	0.009	0.05	0.014	1.951	0	0	8.008
0	0.955	0.01	0.045	0.013	1.96	0	0.001	8.005
0	0.996	0.012	0.051	0.005	1.949	0	0.001	8.006
0	0.83	0.012	0.023	0.047	1.911	0	0.003	7.998
0	0.832	0.011	0.016	0.011	1.962	0.001	0	8
0	0.649	0.007	0.046	0.004	1.96	0.003	0	7.993
0	0.882	0.009	0.022	0.02	1.942	0.001	0.004	7.99
0	0.648	0.069	0.021	0.009	1.943	0.001	0.001	8.022
0	0.755	0.034	0.013	0.003	1.959	0.009	0.001	8.011
0	0.252	0.003	0.001	0.025	2.238	0.006	0.007	7.96
0	0.313	0.003	0.002	0.003	2.252	0.012	0	7.948
0	0.835	0.091	0.034	0.007	1.945	0.001	0	8.036
0	0.319	0.003	0.008	0.062	2.221	0.005	0.001	7.975
0	0.43	0.004	0.005	0.002	2.268	0.001	0.001	7.962
0	1.062	0.056	0.011	0.006	1.951	0.003	0	8.012
0	0.744	0.008	0.053	0.007	1.938	0.013	0.002	8.01
0	1.325	0.035	0.006	0.001	2.01	0.004	0.001	8.03

0	0.675	0.055	0.017	0.002	2.004	0.008	0	8.045
0	0.714	0.053	0.025	0	1.984	0.001	0	8.032
0	0.852	0.033	0.016	0.003	1.99	0.001	0	8.022
0	0.838	0.052	0.071	0.005	1.911	0.003	0.001	8.022
0	0.896	0.057	0.031	0	1.969	0.002	0	8.03
0	0.934	0.052	0.021	0.001	1.982	0.003	0	8.028
0	0.731	0.007	0.023	0	1.982	0	0.002	8.002
0	0.829	0.061	0.026	0.004	1.957	0	0	8.024
0	0.982	0.031	0.01	0.002	2.004	0.003	0.002	8.026
0	0.747	0.03	0.011	0	1.995	0	0	8.017
0	0.766	0.047	0.02	0.01	1.987	0	0.001	8.033
0	0.835	0.055	0.025	0.046	1.931	0.003	0.003	8.028
0	0.565	0.056	0.003	0.005	1.962	0	0.007	8.019
0	0.736	0.049	0.004	0.007	1.975	0	0.002	8.019
0	0.777	0.052	0.002	0.002	1.993	0.003	0	8.026
0	0.793	0.031	0.005	0.001	1.98	0.002	0.002	8.011
0	0.805	0.027	0.006	0.029	1.972	0	0.001	8.016
0	0.83	0.031	0.001	0.004	1.959	0.01	0.015	8.016
0	0.843	0.041	0.015	0.003	1.954	0.001	0	8.007
0	0.846	0.018	0.007	0.005	1.939	0.009	0.009	7.997
0	0.908	0.048	0.003	0.002	1.99	0.006	0	8.025
0	0.903	0.015	0.007	0.001	1.987	0	0	8.005
0	0.739	0.028	0.025	0.008	1.953	0.002	0	8.008
0	0.811	0.019	0.025	0	1.963	0.01	0	8.011
0	0.829	0.059	0.014	0.003	1.98	0.009	0	8.034
0	0.959	0.036	0.01	0	1.995	0.002	0.001	8.022
0	0.782	0.039	0.039	0.002	1.947	0	0	8.014
0	0.83	0.027	0.057	0.002	1.943	0	0.001	8.015
0	0.858	0.03	0.024	0.003	1.978	0	0.001	8.018
0	1.011	0.024	0.013	0.001	1.981	0	0.001	8.01
0	0.779	0.021	0.014	0.001	1.997	0.005	0	8.021
0	0.798	0.008	0.032	0.008	1.942	0.01	0.002	8.002
0	0.812	0.019	0.028	0.002	1.982	0.013	0.001	8.025
0	0.838	0.016	0.013	0.005	1.987	0	0.001	8.011
0	0.749	0.05	0.036	0.002	1.961	0.005	0.002	8.028
0	0.795	0.023	0.012	0.004	1.983	0.003	0	8.013
0	0.89	0.02	0.011	0	1.997	0.004	0.002	8.018
0	0.91	0.036	0.015	0.003	1.998	0.009	0.002	8.034
0	0.666	0.04	0.013	0.003	1.979	0	0.001	8.017
0	0.804	0.055	0.018	0.005	1.949	0.005	0.001	8.017
0	0.826	0.026	0.009	0.002	1.97	0	0.004	8.003
0	0.877	0.036	0.006	0	1.989	0.001	0.001	8.017
0	0.772	0.087	0.008	0.003	1.991	0	0	8.044
0	0.779	0.083	0.01	0.002	1.983	0	0.004	8.04
0	0.796	0.092	0.007	0.001	2.004	0.005	0.001	8.044
0	0.812	0.126	0.104	0	1.849	0.008	0	8.046
0	0.812	0.137	0.095	0	1.842	0.003	0.002	8.04
0	0.822	0.11	0.071	0.001	1.89	0.006	0.002	8.041
0	0.857	0.071	0.005	0.001	1.978	0	0	8.027
0	0.867	0.11	0.033	0	1.95	0	0	8.047
0	0.87	0.12	0.043	0	1.922	0.005	0.001	8.046
0	0.874	0.13	0.028	0.004	1.951	0.006	0	8.061
0	0.916	0.097	0.005	0	2.033	0	0	8.067
0	0.922	0.072	0.009	0.002	1.992	0	0	8.036
0	0.923	0.025	0.015	0.035	1.941	0.005	0	8.011
0	0.926	0.103	0.028	0.05	1.912	0.007	0.004	8.054
0	0.873	0.009	0.016	0.188	1.905	0.013	0.001	8.019
0	0.943	0.081	0.011	0	1.996	0	0	8.044
0	0.946	0.065	0.007	0.004	2.005	0	0	8.04
0	0.947	0.097	0.01	0.035	1.934	0	0.003	8.04
0	0.949	0.074	0.011	0.004	2.003	0	0	8.042
0	0.967	0.091	0.022	0	1.977	0	0.001	8.045
0	0.939	0.035	0.016	0.041	2.115	0	0	8.074
0	0.992	0.088	0.006	0.045	1.938	0.001	0	8.038
0	1.06	0.062	0.008	0	1.966	0	0	8.017
0	1.057	0.079	0.005	0.003	2.019	0	0	8.05

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0.354041416
0.354103853

0.441666667 Max
0.111062142 Min
0.285809683 Median
0.2858965 Mean

District_Name	Deposit	FIELD_Sampl	UTM_East	UTM_North	Elevation_m	Distance_To_FUTM_Coord_1	Rock_Type
Collahuasi	La Grande	CDGC-05-01	530322	7678947	4850	570 UTM Zone 19	Andesite
Collahuasi	La Grande	CDGC-05-01	530322	7678947	4850	570 UTM Zone 19	Andesite
Collahuasi	La Grande	CDGC-05-01	530322	7678947	4850	570 UTM Zone 19	Andesite
Collahuasi	La Grande	CDGC-05-01	530322	7678947	4850	570 UTM Zone 19	Andesite
Collahuasi	La Grande	CDGC-05-01	530322	7678947	4850	570 UTM Zone 19	Andesite
Collahuasi	La Grande	CDGC-05-01	530322	7678947	4850	570 UTM Zone 19	Andesite
Collahuasi	La Grande	CDGC-05-01	530322	7678947	4850	570 UTM Zone 19	Andesite
Collahuasi	La Grande	CDGC-05-01	530322	7678947	4850	570 UTM Zone 19	Andesite
Collahuasi	La Grande	CDGC-05-01	530322	7678947	4850	570 UTM Zone 19	Andesite
Collahuasi	La Grande	CL09MB001	532208	7680514	4650	2018 UTM Zone 19	Diorite
Collahuasi	La Grande	CL09MB001	532208	7680514	4650	2018 UTM Zone 19	Diorite
Collahuasi	La Grande	CL09MB001	532208	7680514	4650	2018 UTM Zone 19	Diorite
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Collahuasi	La Grande	CL09MB001	532208	7680514	4650	2018 UTM Zone 19	Diorite
Collahuasi	La Grande	CL09MB002	532208	7680514	4650	2018 UTM Zone 19	Rhyolite
Collahuasi	La Grande	CL09MB002	532208	7680514	4650	2018 UTM Zone 19	Rhyolite
Collahuasi	La Grande	CL09MB002	532208	7680514	4650	2018 UTM Zone 19	Rhyolite
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Collahuasi	La Grande	CL09MB002	532208	7680514	4650	2018 UTM Zone 19	R

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Collahuasi	Ujina	CL09MB140	536860	7676178	4657	2884 UTM Zone 19	Dolerite
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Collahuasi	Ujina	CL09MB142	537073	7676996	4524	2030 UTM Zone 19	Breccia
Collahuasi	Ujina	CL09MB142	537073	7676996	4524	2030 UTM Zone 19	Breccia
Collahuasi	Ujina	CL09MB142	537073	7676996	4524	2030 UTM Zone 19	Breccia
Collahuasi	Ujina	CL09MB143	536575	7677329	4546	1935 UTM Zone 19	Granodiorite
Collahuasi	Ujina	CL09MB143	536575	7677329	4546	1935 UTM Zone 19	Granodiorite
Collahuasi	Ujina	CL09MB143	536575	7677329	4546	1935 UTM Zone 19	Granodiorite
Collahuasi	Ujina	CL09MB143	536575	7677329	4546	1935 UTM Zone 19	Granodiorite
Collahuasi	Ujina	CL09MB144	536784	7677231	4656	1931 UTM Zone 19	Breccia
Collahuasi	Ujina	CL09MB144	536784	7677231	4656	1931 UTM Zone 19	Breccia
Collahuasi	Ujina	CL09MB144	536784	7677231	4656	1931 UTM Zone 19	Breccia
Collahuasi	Ujina	CL09MB144	536784	7677231	4656	1931 UTM Zone 19	Breccia
Collahuasi	Ujina	CL09MB144	536784	7677231	4656	1931 UTM Zone 19	Breccia
Collahuasi	Ujina	CL09MB144	536784	7677231	4656	1931 UTM Zone 19	Breccia
Collahuasi	Ujina	CL09MB146	536970	7677405	4482	1676 UTM Zone 19	Rhyolite
Collahuasi	Ujina	CL09MB146	536970	7677405	4482	1676 UTM Zone 19	Rhyolite
Collahuasi	Ujina	CL09MB146	536970	7677405	4482	1676 UTM Zone 19	Rhyolite
Collahuasi	Ujina	CL09MB147	534432	7679330	4712	3239 UTM Zone 19	Diorite
Collahuasi	Ujina	CL09MB149	538374	7681889	4363	3041 UTM Zone 19	Dolerite
Collahuasi	Ujina	CL09MB151	538187	7681070	4382	2202 UTM Zone 19	Dolerite
Collahuasi	Ujina	CL09MB151	538187	7681070	4382	2202 UTM Zone 19	Dolerite
Collahuasi	Ujina	CL09MB151	538187	7681070	4382	2202 UTM Zone 19	Dolerite
Collahuasi	Ujina	CL09MB151	538187	7681070	4382	2202 UTM Zone 19	Dolerite
Collahuasi	Ujina	CL09MB151	538187	7681070	4382	2202 UTM Zone 19	Dolerite
Collahuasi	Ujina	CL09MB151	538187	7681070	4382	2202 UTM Zone 19	Dolerite
Collahuasi	Ujina	CL09MB151	538187	7681070	4382	2202 UTM Zone 19	Dolerite
Collahuasi	Ujina	CL09MB228	537184	7677684	4352	1333 UTM Zone 19	Granodiorite
Collahuasi	Ujina	CL09MB228	537184	7677684	4352	1333 UTM Zone 19	Granodiorite
Collahuasi	Ujina	CL09MB228	537184	7677684	4352	1333 UTM Zone 19	Granodiorite
Collahuasi	Ujina	CL09MB228	537184	7677684	4352	1333 UTM Zone 19	Granodiorite
Collahuasi	Ujina	CL09MB228	537184	7677684	4352	1333 UTM Zone 19	Granodiorite
Collahuasi	Ujina	CL09MB229	537184	7677684	4234	1337 UTM Zone 19	Granodiorite
Collahuasi	Ujina	CL09MB229	537184	7677684	4234	1337 UTM Zone 19	Granodiorite
Collahuasi	Ujina	CL09MB231	537184	7677684	4234	1337 UTM Zone 19	Diorite
Collahuasi	Ujina	CL09MB232	537184	7677684	4234	1337 UTM Zone 19	Diorite
Collahuasi	Ujina	CL09MB232	537184	7677684	4234	1337 UTM Zone 19	Diorite
Collahuasi	Ujina	CL09MB232	537184	7677684	4234	1337 UTM Zone 19	Diorite
Collahuasi	Ujina	CL09MB232	537184	7677684	4234	1337 UTM Zone 19	Diorite
Collahuasi	Ujina	CL09MB232	537184	7677684	4234	1337 UTM Zone 19	Diorite
Collahuasi	Ujina	CL09MB232	537184	7677684	4234	1337 UTM Zone 19	Diorite
Collahuasi	Ujina	CL09MB232	537184	7677684	4234	1337 UTM Zone 19	Diorite
Collahuasi	Ujina	CL09MB233	539415	7678798	3973	1833 UTM Zone 19	Basalt
Collahuasi	Ujina	CL09MB233	539415	7678798	3973	1833 UTM Zone 19	Basalt
Collahuasi	Ujina	CL09MB233	539415	7678798	3973	1833 UTM Zone 19	Basalt
Collahuasi	Ujina	CL09MB233	539415	7678798	3973	1833 UTM Zone 19	Basalt

Al_ppm	As_ppm	Au_ppm	Ba_ppm	Bi_ppm	Ca_ppm	Ce_ppm	Co_ppm	Cu_ppm	
122327.69	11.95	BDL		1.05	0.02	166266	226.66	NA	25.05
111644.4	43.73	BDL		1.87	BDL	161826	121.1	NA	BDL
113494.85	22.62	BDL		1.87	0.05	167466	68.87	NA	62.5
114888.25	18.71	BDL		1.55	0.04	169482	23.77	NA	96.43
110810.15	19.34	BDL		4.84	0.15	158184	60.9	NA	569.84
109597.41	54.61	BDL		5.53	0.08	158184	82.46	NA	135.69
117900.74	31.25	BDL		3.66	0.25	166468	40.11	NA	8.61
110448.32	95.57	BDL		4.22	0.14	157966	45.21	NA	140.12
113114.34	9.44	BDL		2.01	BDL	167420	9.39	NA	BDL
111695.9	11.21	BDL		1.85	BDL	163000	7.81	0.35	530.49
112262.94	39	BDL		8.14	BDL	163000	310.09	0.75	5000.09
113474.29	35.98	BDL		6.95	0.11	163000	15.76	0.99	1978.06
113737.63	28.45	0.02		10.14	0.1	161000	12.07	0.59	3335.04
109305.91	18.23	BDL		4.66	0.17	161000	5.8	0.71	2706.36
117952.86	17.85	BDL		2.57	0.11	161000	16.87	2.37	1649.49
119328.41	15.4	BDL		2.41	BDL	161000	12.9	7.13	1402.93
110908.88	19.5	BDL		0.61	0.16	160000	38.85	0.46	3377.82
116354.1	22.41	BDL		0.84	BDL	159000	265.58	0.46	5956.62
91341.04	30.95	BDL		4.05	BDL	159000	145.68	2.03	2591.49
114746.37	25.86	BDL		0.89	0.14	159000	54.64	0.7	4621.12
108358.69	13.2	BDL		5.75	BDL	161000	58.19	1.15	1213.34
109595.08	17.24	BDL		6.17	BDL	161000	21.94	0.56	772.35
107402.26	16.11	BDL		5.74	0.08	161000	37.38	1.18	1402.69
119311.16	22.27	BDL		1.83	0.26	159000	1609.22	0.49	4841.22
118653.79	11.63	0.06		1.8	0.24	159000	962.18	0.42	6861.24
104508.23	50.46	BDL		5.11	0.15	159000	1.89	0.83	6728.03
105177.13	50.97	BDL		6.35	0.07	159000	1.36	0.69	3293.37
126554.16	30.46	BDL		4.2	0.59	163000	46.83	2.31	8369.54
106263.13	14.33	BDL		1.67	0.09	163000	31.94	0.29	204.7
105395.04	17.3	BDL		4.6	0.05	162000	26.78	0.64	57.07
98104.64	8.3	0.03		1.88	BDL	162000	4.62	0.32	BDL
117432.88	7.83	BDL		0.78	0.56	167000	0.39	0.1	4.45
124091.39	9.41	1.56		30.74	3.73	167000	11.11	0.21	69.92
127030.63	75.7	BDL		8.75	0.06	164000	157.77	2.45	774.16
129132.4	25.35	0.03		2.75	0.23	166000	4.3	5.69	229.72
117676.38	90.44	BDL		0.65	0.36	164000	0.33	0.37	BDL
128587.56	24.9	BDL		0.85	0.14	166000	1.82	11.87	BDL
119511.17	25.85	BDL		0.84	0.55	166000	4.8	3.3	BDL
143427.98	51.01	BDL		2.11	0.21	166000	14.76	9.81	BDL
119060.96	28.92	BDL		2.89	0.53	164000	17.1	0.11	BDL
113529.75	24.24	BDL		0.16	0.46	164000	26.49	BDL	BDL
125220.23	23.34	BDL		0.25	BDL	165000	122.78	0.32	3.1
126590.3	44.24	BDL		1.98	0.06	164000	1008.45	4.76	25.42
128176.39	21.71	BDL		1.42	BDL	164000	782.62	0.5	2.81
119502.84	66.5	BDL		1.32	BDL	164000	447.31	1.15	BDL
128407.89	15.03	BDL		1.57	2.86	167000	128.22	1.26	2.85
119450.38	57.64	BDL		3.01	0.34	166000	64.56	1.51	132.67
119449.13	18.13	BDL		3.15	0.31	166000	168.21	1.23	85.81
124348.49	34.57	BDL		4.08	0.24	166000	95.35	1.17	54.17
132394.09	25.03	BDL		6.63	0.24	164000	251.65	5.69	548.75
127228.42	31.64	0.05		7.44	0.86	164000	235.03	1.03	65.4
125076.22	51.5	BDL		1.41	0.99	164000	48.25	1.1	135.81
115537.81	32.01	BDL		2.32	0.41	164000	242.62	1.52	135.62
125801.78	28.84	BDL		0.72	0.17	167000	276.06	1.04	BDL
129030.97	41.06	BDL		2.4	0.37	167000	133.59	0.65	BDL
122296.06	58.99	0.05		1.32	0.31	167000	79.25	0.77	BDL
130701.52	10.77	BDL		3.09	0.12	166000	67.12	0.41	BDL
122644.12	16.56	BDL		1.24	BDL	166000	3.29	0.77	BDL
126902.39	12.66	BDL		2.56	0.12	166000	32.57	0.59	BDL
130279.99	17.68	BDL		3.67	0.06	163000	145.03	0.98	BDL
130498.75	13.8	BDL		2.65	0.06	163000	95.46	0.51	BDL
123389.1	104.53	BDL		0.51	1.23	158000	6.77	1.58	BDL
117826.1	53.32	BDL		0.23	0.3	158000	3.89	0.95	BDL
119336.48	72.74	BDL		0.24	0.54	158000	3.51	0.78	BDL
114952.95	100.44	BDL		0.85	0.48	158000	2.07	4.16	15.09
127391.16	132.16	BDL		0.91	2.6	164000	6.48	0.87	20.2
132943.52	35.47	BDL		4.28	0.3	164000	87.85	BDL	BDL
120753.24	6.89	BDL		1.37	BDL	167000	27.7	0.49	BDL
124831.99	33.55	BDL		5.26	0.48	167000	245.18	0.56	BDL
123581.83	33.95	BDL		2.66	0.56	167000	258.8	0.47	BDL
128132.31	33.78	BDL		2.92	0.32	167000	212.19	0.91	BDL

123413.06	44.01	0.03	3.44	0.68	165000	317.79	0.41	BDL	
123738.62	24.38 BDL		2.52	0.61	165000	492.17	0.41	BDL	
126671.28	15.5 BDL		2.91	0.19	165000	236.17	0.5	BDL	
121960.74	14.93 BDL		1.61	0.07	165000	574.82	0.31	BDL	
124052.25	15.12 BDL		2.01	0.21	165000	127.35	0.69	BDL	
125094.83	14.24 BDL		1.26	0.19	165000	216.2	0.44	BDL	
109816.09	19.42 BDL		3.59	0.65	163000	68.71	0.68	BDL	
107206.5	26.14 BDL		1.84	0.19	163000	11.86	0.43	BDL	
122009.15	17.41 BDL		11.74	0.94	165000	876.12	0.48	BDL	
123048.7	25.34 BDL		19.84	1.78	165000	409.33	1.17	BDL	
125440.8	21.02 BDL		3.41	0.05	168000	389.29	0.44	BDL	
124135.21	19.03 BDL		1.52 BDL		168000	336.71	0.34	BDL	
109592.23	6.89 BDL		4.2	0.44	166000	54.08	0.23	BDL	
123561.16	13.93 BDL		5.49	1.07	170000	666.51	0.14	BDL	
128559.92	19.58 BDL		3.38	0.3	170000	326.4	0.37	BDL	
123135.11	20.18 BDL		4.54	0.59	170000	519.6	0.26	BDL	
128967.07	20.45 BDL		9.45	0.46	170000	877.78	0.46	BDL	
121112.38	95.91 BDL		9.1	1.27	169000	121.26	0.34	BDL	
138162.05	57.24 BDL		2.89	0.64	167000	0.45	1.91	BDL	
128963.6	31.99 BDL		0.61	3.77	167000	126.8	5.96	BDL	
137565.44	54.88 BDL		0.78	0.4	167000	0.11	1.29	BDL	
127538.37	42.6 BDL	BDL		0.16	167000 BDL		0.73	BDL	
125233.19	52.01 BDL	BDL		0.22	167000	1.57	1.97	BDL	
134520.3	54.86 BDL		0.61	0.75	167000	0.44	3.65	BDL	
136152.36	132.88 BDL	BDL		0.55	167000	0.19	2.76	BDL	
118632.18	15.19 BDL		11.71	0.53	169000	4.4	0.42	BDL	
122906.09	6.52 BDL	BDL	BDL		168000	1.07	0.33	BDL	
128924.6	20.27 BDL		1.02	0.28	168000	446.08	0.22	BDL	
105726.86	6 BDL		0.69 BDL		163000	15.15	0.23	BDL	
123678.75	24.1 BDL		0.91 BDL		165000	11.95	0.61	BDL	
114880.36	9.95	0.02	1.26 BDL		165000	7.88	1.58	BDL	
113016.23	8.16 BDL		1.45 BDL		164000	30.83	0.41	BDL	
133953.75	83.85 BDL		5.12	0.11	168000	492.67	0.55	BDL	
134446.69	13.52	0.06	1.91	0.12	168000	388.35	0.16	BDL	
139118.33	14.96 BDL		2.84	0.07	168000	599.24	0.45	BDL	
130858.78	61.58	0.06	27.69	0.23	168000	419.34	0.45	BDL	
128015.01	9.59 BDL		4.84	0.09	168000	270.6	0.25	BDL	
126986.71	4.39	0.03	3.54 BDL		168000	328.78	0.48	BDL	
136933.61	5.7 BDL		2.99	0.13	165000	528.81	0.12	BDL	
131062.44	16.13 BDL		8.29	0.24	168000	604.95	0.67	BDL	
136415.58	38.93 BDL		6.4	0.1	168000	702.47	1.2	BDL	
143719.02	22.2 BDL		0.48	0.39	165000	6.09	0.19	BDL	
145649.5	24.52 BDL		0.25	0.13	165000	58.19	0.23	BDL	
133973.67	12.82 BDL		3.77	1.2	165000	272.23	0.69	BDL	
135651.78	9.96	0.04	1.88	0.33	165000	20.39	0.93	BDL	
126419.48	21.11 BDL		3.99	1.67	165000	321.56	0.49	BDL	
123673.08	180.61 BDL		4.91	0.12	165000	482.41	4.64	BDL	
135868.09	149.97 BDL		8.2	0.09	165000	489.45	4.18	BDL	
136055.42	39.24 BDL		5.75	0.05	165000	203.41	1.1	BDL	
130450.08	10.28 BDL		4.71	0.12	165000	5.99	0.3	BDL	
133037.23	6.97 BDL		3.38	0.04	165000	6.77	0.31	BDL	
131841.09	10.83 BDL		3.66	0.11	165000	6.27	0.52	BDL	
132200.23	9.06 BDL		5.16	0.09	166000	40.64	0.31	BDL	
131991.38	8.03 BDL		4.97	0.09	166000	22.62	0.52	BDL	
135509.23	10.22	0.02	3.72	0.09	166000	54.01	0.35	BDL	
122505.84	20.92 BDL		4.46	0.47	167000	7.41	0.5		4.88
116740.98	24.49 BDL		2.15	0.46	167000	44.29	0.68		8.66
129621.87	8.13 BDL		3.23	0.3	166000	15.98	0.22	BDL	
129863.05	31.11 BDL		6.02	1.27	166000	46.15	0.22	BDL	
123222.5	29.62 BDL		2.38	0.56	166000	28.84	0.44	BDL	
118457.15	13.89 BDL		1.93	0.33	166000	12.4	0.38	BDL	
135619.17	13.47 BDL		2.79	0.1	166000	4.8	0.67	BDL	
130230.13	12.58	0.04	6.06	0.08	166000	51.03	0.54	BDL	
124266.46	58.93 BDL		4.66	1.53	164000	81.39	0.56	BDL	
121640.1	16.28	0.04	4.65	1.43	164000	80.15	0.47	BDL	
134000.67	39.51 BDL		3.35	6.62	164000	123.9	0.54	BDL	
132396.19	36.4 BDL		1.71	4.42	165000	3.19	1.86	BDL	
135200.52	22.21 BDL		6.65	3.74	165000	0.68	8.31	BDL	
122835.08	7.54 BDL		4.34	0.23	163000	31.79	0.36	BDL	
123063.06	5.7 BDL		2.3	0.08	163000	5.13	0.21	BDL	
129981.94	9.87	0.06	7.86	0.23	166000	24.98	1.04	BDL	
121404.38	11.6 BDL		1.97	0.11	166000	7.62	0.68	BDL	
121539.27	5.95 BDL		1.25	0.1	166000	4.38	0.46	BDL	

122780.73	8.35 BDL		2.85	0.28	162000	29.42	0.99 BDL	
124112.42	9.91 BDL		4.3 BDL		162000	7	0.55 BDL	
126536.73	18.01 BDL	BDL	BDL		166000	0.22	0.22 BDL	
128002.45	7.96 BDL		0.4	0.19	166000	14.07	0.16 BDL	
134095.03	67.57 BDL		1.95	0.06	160000	249.99	5.18	23.57
134031.28	80.33 BDL		1.69	0.06	160000	389.28	0.92	11.28
134517.41	59.74 BDL		1.18	0.09	160000	103.3	6.89	9.49
124673.32	12.04 BDL		0.29	0.26	161000	122.38	0.09 BDL	
128337.12	42.63 BDL		0.92	1.45	161000	90.3	0.33	25.5
138371.55	71.13 BDL		1.79	0.09	161000	623.87	6.08	42.25
128207.54	13.89 BDL		1.25	0.04	164000	1.93	0.24	4.39
123128.45	17.54 BDL		5.25	0.24	163000	1023.49	1.13	3.49
125332.49	14.46 BDL		5.12	0.18	163000	923.02	0.46 BDL	
134676.2	13.25 BDL		3.96	0.09	169000	218.44	0.32	2.01
137357.66	21.25 BDL		4.39	0.1	169000	220.09	0.12	3.74
137232.02	22.27	0.02	2.94	0.19	169000	170.74	0.42	3.12
125937.19	16.01 BDL		5.65	0.18	163000	635.98	0.36	3.97
126405.44	17.01 BDL		2.53	0.13	163000	719.24	0.59	7.11
122334.61	9.29 BDL		4.3	0.13	163000	841.31	0.32 BDL	
121437.51	11.17 BDL		5.39	0.15	163000	1009.15	0.31	0.75
126188	16.49 BDL		4.69	0.36	165000	304.18	0.23	1.04
129218.94	59.17 BDL		5.51	0.6	165000	591.31	0.39	3.86
128505.2	52.61 BDL		5.42	0.59	166000	600.48	0.33	1.78
126929.51	34.54 BDL		7.33	0.37	166000	538.97	0.25	3.15
130668.65	56.08 BDL		5.47	0.62	166000	564.72	0.45	2.4
117665.24	9.13 BDL		2.45	0.07	166000	73.65	0.23	1.89
121564.89	1.72	0.03	1.28 BDL		166000	21.99 BDL		1.95
117037.91	10.64 BDL		2.5	0.07	166000	58.53 BDL		1.39
158057.38	15.4	0.03	28.01	1.38	150000	320.62	2.8	168.15
160081.67	18.86 BDL		34.88	1.82	150000	830.05	1.26	289.19
181638.48	19.79 BDL		56.03	2.01	150000	374.69	4.59	452.4
160143.92	8.17 BDL		80.66	1.58	155000	381.57	4.59	120.41
157107.47	9.09 BDL		43.72	2.26	155000	636.84	1.28	204.95
155522.94	11.95 BDL		36.62	1.24	155000	645.28	1.5	123.12
124385.95	27.83 BDL		4.21	0.17	162000	55.51	0.19	0.75
125128.34	39.51	0.01	3.79	0.05	162000	133.33	1.06	1.52
121387.97	24.53 BDL		7.1	0.21	162000	66.66	0.21 BDL	
130563.41	26.81 BDL		5.17	0.05	162000	70.75	0.94	0.82
135423.64	35.39 BDL		10.36	0.51	165000	374.33	1.68	0.65
135488.39	38.12 BDL		12.54	0.3	165000	73.19	0.27	0.76
137446.11	34.25 BDL		11.03	0.4	166000	334.8	2.12	0.83
114027.2	21.33 BDL		6.26	0.35	163000	85.5	0.21	0.99
124173.29	26 BDL		8.63	0.53	163000	204.7	0.17	0.72
125787.51	17.35 BDL		4.35	0.22	163000	107.08	0.22 BDL	
123286.87	15.11 BDL		2.19	2.14	161000	144.89	11.16	1
129535.89	58.85 BDL		4.75	1.27	165000	37.48	1.67	1.85
126867.66	22.23 BDL		3.17	0.14	165000	73.81	0.31 BDL	
128913.46	39.93 BDL		3.56	0.5	165000	52.41	0.63	0.92
130856.64	23.78 BDL		6.44	0.14	165000	69.42	0.63	1.03
129224.19	31.86 BDL		2.68	0.28	165000	68.98	0.5	0.65
127309.03	68.83 BDL		16.88	2.32	165000	56.71	2.22	3.95
122965.93	32.03 BDL		1.87	0.37	159000	4469.21	0.4	49.59
114327.08	20.3 BDL		1.16	0.11	159000	102.11	0.11	11.06
126207.65	20.36 BDL		0.98	0.22	163000	1769.78	0.15	2.84
119764.7	21.71 BDL		1.08	0.05	163000	119.73	0.16	38.02
121617.92	32.58 BDL		0.77	0.12	163000	28.86	0.22	4
113591.5	13.29 BDL		2.21	0.05	160000	113.37	0.12	8.44
118555.48	21.29 BDL		2.36	0.11	158000	1032.74 BDL		24.84
119159.71	23.96 BDL		3.36	0.09	158000	415.09	0.24	19.18
123938.47	16.63 BDL		12.65	0.49	149000	100.49	0.69 BDL	
125677.31	16.5	0.02	10.06	0.6	149000	143.74	1	0.64
125135.52	40.26 BDL		4.53	0.45	149000	91.02	0.64 BDL	
134028.75	22.03 BDL		10.14	0.8	158000	120.67	0.88 BDL	
116620.37	36.97 BDL		1.45	1.09	158000	1.09	0.17 BDL	
131924.34	18.38 BDL		9.23	0.66	158000	134.38	1.05	1.39
138094.63	17.18 BDL		8.84	0.46	162000	103.67	1.78	2.11
137388.64	29.57 BDL		22.66	0.66	162000	161.54	1.12	5.27
121292.54	24.84 BDL		1.61	0.06	161000	1785.13	0.58 BDL	
122714.36	12.79 BDL		2.19	0.12	161000	586.76	0.37	1.8
125536.76	9.7 BDL		3.54	0.03	161000	311.66	0.23	0.97
114214.75	21.93 BDL		1.52	0.22	161000	1275.09	0.87 BDL	
122779.28	10.78 BDL		4.5	0.06	161000	1135.84	0.31	1.72
127248.74	12.11 BDL		5.22	0.2	165000	603.34	0.25	3.59

126224.69	15.46 BDL		3.97	0.52	165000	435.04	0.26	2.57
126187.94	11.26	0.02	3.02	0.12	165000	581.16	0.22	3.55
128551.16	10.93 BDL		2.08	0.09	165000	285.14	0.23	4.36
129997.36	40.45 BDL		8.65	0.13	163000	74.04	0.46 BDL	
123090.28	28.66 BDL		6.29	0.04	163000	106.32	0.36	0.54
119372.01	25.13 BDL		5.57	0.06	163000	126.91	0.29	0.41
121455.56	23.94 BDL		5.63	0.1	163000	42.67	1.27	8.65
127005.85	24.13 BDL		6.6	0.46	165000	157.88	1.29	1.43
126234.77	20.13 BDL		27.45	0.29	163000	104.22	1.35	2.48
129475.17	26.44 BDL		33.9	0.38	163000	63.08	4.27 BDL	
117936.02	12.98 BDL		10.76	0.09	164000	6.36	1.06 BDL	
112251.95	32.3 BDL		2.34	0.64	163000	156.1	0.91	1.63
121076.85	19.28 BDL		2.88	1.46	163000	185.55	1.2	1.03
119957	18.65 BDL		4.46	1.32	163000	112.05	3.04	0.9
115390.09	12.39 BDL		6.19	0.09	165000	3.46	0.89	1.26
120187.36	18.15 BDL		2.11	2.7	165000	72.21	1.55	0.58
122255.85	13.04 BDL		8.18	0.02	165000	8.2	0.87	2.55
121040.48	88.77 BDL		0.75	0.12	164000	0.27	0.74 BDL	
106121.3	19.67 BDL		0.26 BDL		164000	0.84	0.5 BDL	
113430.16	21.63 BDL		0.37 BDL		163000	6.33	0.84	0.5
120113.38	54.34 BDL		9.18	2.03	164000	868.62	0.93	1.02
139299.08	34.79 BDL		8.23	0.58	164000	107.41 NA		3.29
120281.05	30.92 BDL		1.5	0.49	164000	165.93 NA		0.96
123125.76	27.97 BDL		7.32	1.84	164000	381.96 NA		6.09
116612.02	2.55 BDL		2.36 BDL		164000	18.66 NA		0.45
127621.51	17.06 BDL		6.26	0.12	164000	38.36 NA	BDL	
118592.72	20.23 BDL		2.73	0.16	164000	131.08 NA	BDL	
117442.39	6.04 BDL		2.82 BDL		164000	10.25 NA	BDL	
121619.81	9.4 BDL		5.04	0.05	164000	34.79 NA		0.69
114515.17	11.45 BDL		1.87 BDL		164000	1.44 NA	BDL	
117355.6	11.5 BDL		5.54	0.07	164000	14.84 NA		0.62
113589.94	37.84 BDL		4.67	0.68	161973	96.73 NA	BDL	
106912.7	37.47 BDL		4.54	0.05	161973	116.57 NA	BDL	
109737.82	22.63 BDL		2.81	0.56	158399	76.32 NA	BDL	
113280.87	57.25 BDL		3.07	0.43	158400	13.8 NA	BDL	
115788.64	14.75 BDL		1.56	0.06	158403	1.11 NA	BDL	
125619.55	20.18 BDL		2.4 BDL		162099	4.43 NA	BDL	
111507.05	120.04 BDL		10.47	0.57	159512	1.32 NA	BDL	
108944.27	15.66 BDL		2.24	0.31	155611	15.92 NA		99.19
111919.04	10.82 BDL		3.59	0.58	158950	49.87 NA		12.74
114260.37	27.99 BDL		4.82	0.89	161615	176.58 NA		445.65
126189.03	23.35 BDL		6.7	0.54	161092	125.37 NA		641.02
108280.34	18.02 BDL		3.29	0.55	158463	83.78 NA		1408.35
116230.14	19.09 BDL		5.01	0.34	158940	99.99 NA		156.52
130852.11	63.45 BDL		18.09	0.2	161320	9.9 NA		1385.56
124560.31	22.73 BDL		9.29	0.12	161220	21 NA		605.31
120299.77	28.36 BDL		3.61	0.96	157778	256.3 NA		813.85
113360.58	13.81 BDL		2.39	1.15	157778	184.49 NA		4.38
109244.91	60.28 BDL		2.45 BDL		156287	1485.44 NA		42.22
109621.01	20.8 BDL		6.11 BDL		154997	945.26 NA		8.95
114835.54	13.13 BDL		6.37	0.11	153989	3123.77 NA	BDL	
108129.86 BDL	BDL		7.38 BDL		154355	894.44 NA	BDL	
115626.46	16.36 BDL		5.62 BDL		155976	714.08 NA	BDL	
103616.62	13.98 BDL		4.1	0.06	157061	279.54 NA	BDL	
118553.39	55.73 BDL		16.07	0.09	161234	385.08 NA	BDL	
119461.52	98.2 BDL		17.62	0.3	155164	2273.34 NA	BDL	
127927.78	67.13 BDL		18	0.13	162621	835.15 NA	BDL	
124838.93	60.74 BDL		20.45	0.14	158969	177.57 NA	BDL	
123475.98	70.13 BDL		18.3	0.16	159035	197.44 NA	BDL	
107951.33	11.84 BDL		1.21	0.44	162616	0.67 NA	BDL	
123650.1	16.08 BDL		21.56	0.23	156877	7.73 NA		18.17
102302.76	38.75 BDL		1.24	0.18	158078	1.33 NA	BDL	
109755.47	55.2 BDL		14.54	0.08	162287	0.6 NA		4.21
114083.32	42.31 BDL		2.62	0.1	164206	1.35 NA	BDL	
113415.33 BDL	BDL		4.04	2.81	159043	81.35 NA		8.98
116866.5 BDL	BDL		0.81	3.72	160138	1.32 NA	BDL	
115122.28 BDL	BDL		1.41	3.17	161432	41.81 NA	BDL	
117688.3 BDL	BDL		0.65	0.43	162456	21.7 NA	BDL	
107472.46 BDL	BDL		1.89	3.13	160165	361.39 NA		5.19
107451.6 BDL	BDL		3.06	4.86	154833	110.72 NA	BDL	
112313.46 BDL	BDL		3.18	6.26	159377	12.57 NA		4.05
110024.82 BDL	BDL		1.66	3.82	160280	10.15 NA	BDL	
105851.28	5.46 BDL		5.92	4.07	156870	4.13 NA	BDL	

109350.86	6.12 BDL		2.06	6.05	153376	11.77 NA	BDL	
116427.21	16.36 BDL		1.08	3.96	161973 BDL	NA	BDL	
120280.08 BDL	BDL		0.72	3.14	166747	58.81 NA	BDL	
116176.33 BDL	BDL		1.84	2.73	163860	34.36 NA	BDL	
117509.28 BDL	BDL		0.61	3.53	165352	37.69 NA		3.3
129055.85	17.44 BDL		5.06	47.52	163831	0.25 NA	BDL	
128473.86	16.08 BDL		2.89	23.61	158068	7.45 NA	BDL	
109370.23	5.5 BDL		0.9	3.54	167477	16.62 NA		2.62
124019.8 BDL	BDL		1.28	3.35	162996	40.02 NA		25.94
119977.53	31.34	0.03 BDL		3.31	163000	167.53	0.5 BDL	
131343.27	72.41 BDL		0.96	3.15	163000	79.42	0.33 BDL	
125425.82	15.62 BDL		1.08	0.56	163000	18.38	0.33 BDL	
120494.7	28.19 BDL		1.4	0.65	163000	5.81	0.43	72.74
120589.95	5.72 BDL		0.28	0.1	159000	9.17 BDL		3.69
128080.41	105.49	0.05	0.42	38.42	165000	502.94	0.47 BDL	
120568.04	262.78 BDL		10.79	0.6	165000	5.18	0.5	20.9
121255.21	10.58 BDL		1.99	1.4	161000	212.9	0.53	107.33
115679.41	7.85 BDL		5.32	0.09	165000	5.79	0.3	191.87
138079.55	32.26 BDL		2.74	3.61	165000	2.01	0.41 BDL	
135461.86	21.61 BDL		0.53	1.11	165000	1.69	0.11	1.19
135752.69	43.85 BDL		0.15	3.02	165000	0.34 BDL	BDL	
139320.44	21.05 BDL		1.12	0.14	164000	13.78	0.15 BDL	
141340.67	12.53 BDL		35.69	0.43	164000	47.9	0.22 BDL	
139976.72	6.2 BDL		7.11	0.52	164000	41.17	0.17	2
143335.28	6.64 BDL		3.91	0.25	164000	15.39	0.27	0.61
141890.59	7.82 BDL		2.18	1.54	167000	234.32	0.19 BDL	
137747.27	8.53 BDL		7.94	0.65	167000	24.33	0.45 BDL	
151338.94	8.73 BDL		17.58	2.2	167000	142.4	0.24 BDL	
145211.45	21.96 BDL		8.77	3	167000	376.4	0.15 BDL	
134919.42	140.57 BDL		0.95	4.73	164000	197.82	0.25 BDL	
134929.48	108.85 BDL		8.69	12.56	164000	562.08	0.42 BDL	
132201.61	96.69 BDL		2.39	5.47	164000	128.1	0.27 BDL	
132602.38	64.7 BDL		19.19	0.54	162000	232.52	1.67	18.4
128335.05	28.7 BDL		8.98	0.24	162000	115	1.44	9.86
127699.45	44.38 BDL		53.34	0.45	162000	197.87	7.78	44.68
127846.73	41.03 BDL	195.34	0.22	0.22	163000	39.78	4.44	39.34
134224.94	22.52 BDL	62.94	0.27	0.27	163000	25.74	4.48	51.24
116142.63	95.28 BDL	2.76	0.09	0.09	154000	20.65	0.69	20.24
115368.23	103.28 BDL	2.74	0.13	0.13	154000	7.56	0.34	7.81
117069.07	102.05 BDL	1.71	0.08	0.08	154000	6.33	0.37	18.44
113428.06	90.1 BDL	1.43	0.04	0.04	154000	5.28	0.45	5.34
121373.08	126.8 BDL	6.11	1.28	1.28	158000	117.23	0.84	35.25
121016.11	115.06 BDL	6	0.73	0.73	158000	47.45	0.54	28.4
119452.58	51.69 BDL	5.86	0.14	0.14	158000	18.45	1.71	28.58
121748.73	110.9 BDL	5.01	0.2	0.2	158000	10.07	0.43	15.13
120039.81	70.69 BDL	2.41	0.04	0.04	163000	3.19	0.53	2.51
122495.38	131.66 BDL	1.33	0.11	0.11	163000	7.34	0.42	3.67
122838.45	138.8 BDL	1.93	0.09	0.09	163000	8.24 BDL	BDL	
139242.36	87.85 BDL	20.93	0.4	0.4	167000	15.39	4.12	23.11
136116.73	55.26 BDL	8.07	0.09	0.09	165000	0.27	0.99 BDL	
134838.16	81.8 BDL	7.86	0.32	0.32	165000	0.17	0.88	1.05
136692.27	81.37 BDL	19.65	0.11	0.11	163000	1.38	1.59	1.56
134948.48	64.91 BDL	17.1	0.19	0.19	163000	0.19	1.12	1.33
136634.52	89.48 BDL	18.51	0.22	0.22	163000	19.79	7.22 BDL	
127317.3	11.45 BDL	0.43 BDL			163000	0.23	0.51 BDL	
135626.58	10.69 BDL	4.89 BDL			163000	13.68	0.23 BDL	
137186.69	14.61 BDL	15.58	0.29	0.29	168000	44	0.31 BDL	
136606.67	30.83 BDL	3.5	0.1	0.1	168000	4.65	0.69	1.37
131827.77	23.13 BDL	0.73 BDL			168000	0.22	0.98 BDL	
137120.94	17.23 BDL	3.41 BDL			167000	9.77	0.59	1.13
138572.55	20.52 BDL	3.46	0.02	0.02	167000	11.03	0.44 BDL	
135865.31	15.5 BDL	4.93	0.05	0.05	164000	7.33	0.49 BDL	
133785.16	12.33 BDL	3.16 BDL			164000	31.91	0.52	3.61
131965.08	39.85 BDL	1.04	0.14	0.14	165000	10.92	0.14 BDL	
136450.72	77.22 BDL	2.36	0.28	0.28	165000	41.88	0.1	0.53
136194.31	104.15 BDL	1.76	0.21	0.21	169000	68.72	0.23 BDL	
141414.17	235.97 BDL	0.54	0.09	0.09	169000	1.1	0.25 BDL	
130346.44	63.3 BDL	4.23	0.22	0.22	169000	20.98	0.36	1.4
134352.09	112.59 BDL	2.71	0.25	0.25	169000	228.91	0.19	1.5
124270.84	6.68 BDL	2.07	3.05	3.05	166000	43.02	0.36 BDL	
125051.63	4.25 BDL	0.84	4.41	4.41	167000	107.47	0.31 BDL	
119841.63	1.28 BDL	1.28	4.38	4.38	162000	149.6 BDL		2.56
123005.03	2.52 BDL	0.26	3.13	3.13	168000	0.17	0.67 BDL	

128553.12	5.87 BDL		3.13	3.84	168000	1.04	0.92 BDL	
120899.8	0.55 BDL		0.45	4.25	162000	54.84 BDL	BDL	
120713.55	2.1	0.04	4.76	5.51	162000	44.52	0.85	48.95
125117.54 BDL	BDL	BDL		2.77	165000	5.28 BDL	BDL	
118260.1	5.9 BDL		0.3	3.88	165000	26.76 BDL	BDL	
128513.71	0.54 BDL		0.43	9.6	164000	16.97	0.17	0.91
122822.59	11.81 BDL		1.64	3.34	164000	78.79	0.51	8.13
120148.95	3.54 BDL		1.13	5.1	164000	154.81	0.2 BDL	
135457.77	9.68 BDL		2.29	0.22	166000	214.8	0.21 BDL	
134036.92	11.35 BDL		0.84	0.03	166000	63.7	0.16 BDL	
134993.95	10.05 BDL		1.47	0.04	166000	77.13	0.11 BDL	
129665.18	54.96 BDL		6.21	0.38	166000	493.2	0.42 BDL	
136808.09	34.79 BDL		1.13	0.16	167000	181.3	0.61 BDL	
130538.67	5.02 BDL		2.32	0.3	167000	108.13	0.43	1.04
134286.89	8.94 BDL		1.83	0.25	167000	298.33	0.12	1.04
132572.94	8.33 BDL		1.1	0.26	167000	265.63	0.14	2.08
120631.04	33.97 BDL		1.8	1.04	167000	287.18	0.52 BDL	
125441.61	31.61 BDL		8.36	1.41	167000	391.44	0.69	0.78
130481.69	58.21 BDL		47.74	5.25	163000	56.76	0.22 BDL	
125206.58	29.24 BDL		2.31	0.03	164000	1.46	0.71 BDL	
114347.45	16.08 BDL		0.96	0.03	164000	7.73	0.45 BDL	
111229.64	28.79	0.03	0.53	0.02	157000	0.1	0.75	0.75
118811.27	58 BDL		1.17	0.14	157000	1.63	2.15	1.28
118936.3	51.07 BDL		1.15	0.11	157000	7.42	2.39	1.43
122420.91	37.42 BDL		1.48	0.18	165000	2.52	2.6	1.85
123318.44	107.18 BDL		3.88	0.78	165000	15.78	2.33	1.12
122250.08	48.18 BDL		0.89	0.07	165000	0.47	1.34 BDL	
113813.37	35.06 BDL		10.82	0.11	164403	46.88 NA		3.07
104352.05	27.85 BDL		6.04	0.06	164403	52.99 NA		48.08
116725.85	40.91 BDL		9.35	0.14	164403	8.1 NA		325.91
120626.85	29.24 BDL		9.57	0.11	164403	20.15 NA		1393.42
105668.76	28.74 BDL		10.39	0.07	164403	33.59 NA		778.3
114085.22	23.27 BDL		7.8	0.07	164403	27.67 NA		4.48
114701.77	35 BDL		9.8	0.07	164403	34.57 NA		38.15
114038.88	13.83 BDL		4.18	1.16	164403	290.1 NA		48.58
118988.86	23.76 BDL		7.17	0.06	164403	48.1 NA		5.55
116326.97	32.81 BDL		9.43	0.13	164403	10.53 NA		37.92
119620.21	31.55 BDL		11.97	0.16	164403	6.94 NA		4.9
104074.24	40.67 BDL		6.75	0.11	164403	47.96 NA		280.4
116155.98	24.61 BDL		6.59	0.07	164403	7.95 NA		55.64
117523.14	26.9 BDL		8.15	0.06	164403	5.5 NA		17.22
116501.14	28.13 BDL		8.76	0.11	164403	42.47 NA		11.45
113452.62	33.37 BDL		11.72	0.12	164403	14.29 NA		173.56
119843.78	23.76 BDL		6.82	0.1	164403	32.12 NA		7.32
115855.82	24.22 BDL		10.11	0.08	164403	33.29 NA		31.41
124196.14	33.61 BDL		12.87	0.17	164403	14.16 NA		138.02
120832.78	18.11 BDL		4.27	0.06	164403	36.47 NA		10.69
116714.34	19.36 BDL		22.43	0.05	164403	40.65 NA		34.99
132929.59	23.02 BDL		3.08 BDL		164403	40.16 NA		3.39
125892.93	21.46 BDL		30.06	0.07	164403	36.28 NA		42.39
110269.47	9.01 BDL		0.88 BDL		164403	12.1 NA	BDL	
119290.52	21.89 BDL		2.15	0.17	164403	22.49 NA		4.6
94314.55	28.59 BDL		1.19 BDL		164403	3.51 NA		2.23
143571.11	17.51 BDL		53.1	0.12	164403	16.69 NA		12.9
115441.6	22.93 BDL		1.6	0.1	164403	10.64 NA	BDL	
126953.25	17.64 BDL		26.13 BDL		164403	27.51 NA		8.58
120494.84	8.51 BDL		3.22 BDL		164403	30.55 NA	BDL	
114388.02	29.99 BDL		3.42	0.09	161973	3.74 NA		6.19
116748.29	50.66 BDL		2.92	0.1	167097	12.2 NA		4.05
124233.64	6.99 BDL		2.25	0.08	167537	21.29 NA	BDL	
118415.19	14.09 BDL		2.01	0.05	160052	10.67 NA	BDL	
115588.85	10.18 BDL		25.99	0.13	165406	3.82 NA		5.62
101255.27	8.64 BDL		22.69	0.11	153563	3.22 NA	BDL	
111554.85	8.33 BDL		22.42	0.13	162792	1.72 NA	BDL	
119186.4	7.82 BDL		34.12	0.08	163393	12.96 NA	BDL	
110593.77 BDL	BDL		17.96	0.17	160635	116.94 NA	BDL	
98871.31 BDL	BDL		6.21	0.08	157797	47.8 NA	BDL	
98580.38 BDL	BDL		0.25 BDL		162094	4.9 NA	BDL	
123731.4	22.17 BDL		4.54	0.23	164204	12.86 NA		428.22
121660.29	19.6 BDL		5.06	0.04	155434	6.94 NA		356.46
115448.48	21.84 BDL		2.03	0.03	155921	3.04 NA		6.07
125631.79	17.87 BDL		2.73	0.07	164934	28.55 NA		325.85
117618.87	99.57 BDL		2.98	0.03	164728	2.13 NA		7591.48

123149.08	10.17 BDL		0.48	0.05	165000	67.01 BDL	BDL	
133340.22	35.68 BDL		2.39	0.11	165000	47.61	0.05	0.21
132352.34	5.26	0.03	0.48	0.02	165000	120.79 BDL	BDL	
128791.63	2.25	0.03	0.1	0.02	165000	5.25	0.16 BDL	
135933.61	1.6 BDL	BDL	BDL		165000	276.33	0.05 BDL	
129865.86	1.41 BDL	BDL	BDL		165000	38.98 BDL	BDL	
129433.7	6.58 BDL		0.2	0.02	165000	35.6 BDL	BDL	
125327.38	7.34 BDL		0.25	0.04	165000	6.55 BDL	BDL	
122469.32	31.01	0.02	6.28	0.6	162000	14.89	0.2 BDL	
116520.49	7.23 BDL		0.22	0.09	162000	16.93 BDL	BDL	
131236.66	39.21 BDL		2.46	1.06	162000	12.22	0.38 BDL	
118862.93	15.9 BDL		8.54	0.12	162000	19.58	0.24 BDL	
125312.42	20.01 BDL		71.05	0.43	162000	26.96	0.23 BDL	
124977.61	44.99 BDL		48.89	2.19	162000	0.72	0.23 BDL	
138001.17	32.51 BDL		90.83	0.91	162000	28.55	0.68 BDL	
115493.88	4.49 BDL		0.39	0.1	162000	44.27	0.14 BDL	
124839.84	12.73 BDL		1.11	0.43	162000	14.54	0.12 BDL	
147079.52	47.26 BDL		558.75	0.54	160000	386.38	2.29 BDL	
137559.84	175.41 BDL		25.05	1.8	155000	1859.21	1.24 BDL	
146213.53	233.65 BDL		44.61	1.23	159000	584.05	6.97	3.98
142686.34	248.64 BDL		28.96	1.31	159000	641.76	1.96	4.77
146039.81	177.97 BDL		15.39	1.15	159000	776.4	1.58	5.2
140487.34	252.11 BDL		17.42	0.99	159000	356.94	1.14	2.39
152031.13	218.94 BDL		31.69	1.3	159000	283.66	1.95	1.77
139111.05	13.14	0.07	27.78	2.95	163000	192.14	0.37	7.38
130945.16	6.2 BDL		4.54	0.89	166000	440.77	0.23 BDL	
123513.54	11.26 BDL		10.42	0.13	166000	17.38 BDL	BDL	
129658.18	16.82 BDL		2.35	0.41	166000	503.45	0.33 BDL	
135009.8	18.26 BDL		7.18	6.86	162000	655.93	0.24	1.23
125916.54	3.07 BDL		0.24	0.15	158000	0.14	0.44 BDL	
127509.85	9.12 BDL		1.36	0.11	158000	24.32	0.5	1.76
94321.79	5.85 BDL		0.31	0.49	158000	46.67	0.44 BDL	
124379.75	4.71 BDL		1.84	0.17	158000	110.67	0.6	3.02
123595.84	6.83 BDL	BDL		0.19	161000	1.22	0.61 BDL	
116965.72	9.59 BDL		0.79	1.92	161000	462.07	0.65 BDL	
119977.46	3.07 BDL		0.35	0.74	161000	443.35	0.22	0.76
131306.28	15.65 BDL		0.42	0.17	167000	77.76	0.71 BDL	
152834.47	48.57 BDL		32.95	7.98	164000	235.03	0.45 BDL	
120244.51	56.09 BDL	BDL		0.47	162000	1.96	0.41 BDL	
125042.93	28.43 BDL		3.05	2.37	162000	192.38	0.25 BDL	
118424.11	45.05 BDL		6.53	1.71	162000	170.08	0.38	1.44
121805.24	78.64 BDL		0.77	1.3	166000	53.54	0.36 BDL	
120399.48	75.16 BDL		1.08	0.67	166000	1.16	0.33 BDL	
118414.5	2.13 BDL		0.47	0.56	162000	0.96 BDL	BDL	
121254.52	3.71 BDL		1.26	0.79	162000	1.59 BDL	BDL	
127209.47	1.84 BDL		0.54	0.6	162000	2.83 BDL	BDL	
121097.74	12.26 BDL	BDL		3.47	155000	8.85 BDL	BDL	
119663.8	14.45 BDL	BDL		3.32	155000	1.33 BDL	BDL	
122119.91 BDL	BDL	BDL		0.42	163000	6.37 BDL	BDL	
122301.7	2.71 BDL		0.63	1.43	163000	4.11 BDL	BDL	
122359.71	17.48 BDL		0.4	2.63	163000	4.17 BDL	BDL	
135501.13	54.68 BDL		4.58	0.07	162000	163.41	0.59 BDL	
90091.05	44.73	0.06	2.72 BDL		162000	166.32	0.68	7.85
136482.25	60.53 BDL		30.74 BDL		166000	44.12 BDL	BDL	
125418.42	23.35 BDL		1.06 BDL		166000	68.92 BDL	BDL	
132177.13	44.72	0.07	23.47 BDL		166000	38.74	0.21 BDL	
123329.44	38.59 BDL		1.63 BDL		159000	26.64	0.12 BDL	
129856.23	4.58 BDL		1.98	0.57	167000	2.16	0.55 BDL	
122764.16	2.51 BDL		1.53	0.68	167000	6.58	0.24 BDL	
130412.7	12.15 BDL	BDL		0.41	165000	7.96	0.22 BDL	
136915.5	6.5 BDL		0.73 BDL		165000	35.71	0.34 BDL	
117194.96	22.75 BDL	BDL		0.15	158000	196.56	0.32 BDL	
124781.16	11.09 BDL		3.67	0.21	158000	27.71	0.35 BDL	
111921.81	49.42 BDL	BDL		1.34	152000	1761.59	0.64	35.59
115178.4	67.67 BDL		0.79	2.2	152000	5211.71	1.37	34.44
124062.88	130.62	0.07	0.55	3.32	152000	2986.36	0.72	10.69
125271.54	4.41 BDL	BDL		0.12	158000	115.47 BDL	BDL	
137766.95	19.98 BDL		6.11	0.25	158000	47.2 BDL	BDL	
137592.95	13.14 BDL		5.88	0.29	166000	11.06	5.92	1.67
123177.21	10.32 BDL		6.65	0.74	160000	103.46	1.31	1.29
128320.51	7.76 BDL		3.19	0.34	160000	20.68	1.69 BDL	
127113.51	6.95 BDL		1.26	0.09	164000	120.72 BDL	BDL	
125665.59	2.77 BDL	BDL	BDL		164000	15.59	0.07 BDL	

121970.59	3.32 BDL		0.29 BDL		164000	10.99 BDL	BDL	
117404.16	6.09 BDL		0.54	0.05	164000	9.56 BDL	BDL	
139328.73	20.46 BDL		4.57	0.06	166000	0.64 BDL	BDL	
143556.34	13.64 BDL		7.66	0.12	166000	3.57 BDL		2.41
131561.05	18.03 BDL		0.36	0.08	166000	8.34	0.14	1.29
130377.51	1.75 BDL	BDL		BDL	166000	3.41 BDL	BDL	
124036.73	6.97 BDL		2.84 BDL		166000	7.41 BDL	BDL	
124520.82	8.73 BDL		0.28	0.06	166000	6.84 BDL	BDL	
136251.08	19.92 BDL		0.75	0.29	164000	2.23 BDL	BDL	
126590.58	8.8 BDL		0.34	0.26	164000	2.38 BDL	BDL	
135639.72	31.94 BDL		0.61	0.47	164000	0.4 BDL	BDL	
132570.28	77.09	0.06	4.42	1.15	163000	1.21 BDL	BDL	
125658.34	11.84 BDL		15.81	0.14	159000	0.7	0.07 BDL	
131271.97	13 BDL		2.55	0.83	165000	0.35	0.51 BDL	
119502.53	21.93 BDL		2.59	0.16	160000	36.91	0.24 BDL	
115237.16	88.51 BDL		12.53	1.08	160000	49.68	0.71	2.36
124182.2	34.68 BDL		2.44	0.82	164000	1.01 BDL	BDL	
105847.1	47.31 BDL		1.28	0.32	153000	28.01	0.34 BDL	
120642.32	36.76 BDL		23.55	0.12	161000	25.44	0.36 BDL	
125664.15	83.52 BDL		2.61	1.17	162000	72.17	15.32	13.3
125576.21	103.72 BDL		2.51	2.37	162000	77.14	15.83	25.25
126142.26	120.74 BDL		2.43	16.78	162000	109.76	11.96 BDL	
121591.91	92.14 BDL		3.57	15.35	162000	172.98	1.99	1.69
125458.02	126.95 BDL		2.7	1.14	163000	144.89	4.66 BDL	
126096.17	86.38 BDL		3.13	0.44	163000	346.59	5.14	1.38
125920.18	133.08 BDL		3.49	0.42	163000	213.02	6.63	2.45
125390.13	91.18 BDL		2.77	3.77	164000	65.09	4.72	6.73
98600.03	9.98 BDL		0.29 BDL		164000	1.16	0.75 BDL	
128053.46	74.12 BDL		2.71	1.58	163000	76.43	4.17 BDL	
121034.59	65.27 BDL		3.07	0.62	163000	80.02	2.63	2.47
127181.9	62.86 BDL		2.23	0.25	162000	31.32	0.66	0.84
130853.68	68.02 BDL		3.22	0.32	162000	3.07	0.6 BDL	
125078.3	62.8 BDL		2.34	0.18	162000	18.29	0.77 BDL	
135582.66	59.37 BDL		2.4	0.59	164000	11.76	0.26 BDL	
141724.39	78.9 BDL		22.43	1.72	164000	16.76	0.29 BDL	
134315.88	73.81 BDL		1.25	0.74	164000	4.85	0.29 BDL	
128073.34	343.06 BDL		6.63	2.55	164000	16.71	2.76 BDL	
119470.17	82.49 BDL		2.51	4.04	164000	97	0.94	1.41
124032.17	108.57 BDL		3.01	0.12	161000	27.58	3.14 BDL	
121165.07	67.16 BDL		5.52	0.38	164000	12.97	2.43 BDL	
122017.68	88.04 BDL		3.34	1.23	164000	64.39	1.89 BDL	
128722.34	145.79 BDL		8.17	0.23	162000	8.82	1.42 BDL	
123788.73	96.71 BDL		3.49	2.97	162000	109.01	0.84 BDL	
130256.49	12.39 BDL	BDL		BDL	165000	1.76	0.71 BDL	
128301.02	18.28 BDL		3.6	0.17	165000	6.43	0.9 BDL	
128924.34	17.74	0.04	6.49	0.18	160000	2.75	0.55 BDL	
135659.09	31.48 BDL		282.38	0.49	160000	19.47	5.94	4.63
126836.26	28.52 BDL		11.53	0.48	160000	12.6	1.72	6.2
129983.54	98.69 BDL		6.22	0.84	160000	4.98	0.64 BDL	
135195.25	50.88 BDL		15.98	0.36	160000	9.43	1.14	1.96
117467.63	14.66 BDL		7.26	3.19	162000	16.63	1.63 BDL	
129676.1	20.47 BDL		5.55	1.28	162000	64.03	1.55 BDL	
116398.71	9.06 BDL		2.78	1.89	162000	29.89	1.02 BDL	
128511.56	4.68 BDL		3.43	2.24	161000	10	1.22 BDL	
134705.55	9.81 BDL		2	3.92	161000	4.69	1.02 BDL	
127508.22	5.02 BDL		3.39	1.88	161000	71.34	0.76 BDL	
132890.72	37.66 BDL		3.83 BDL		164000	3.1	0.48 BDL	
132776.36	36.83 BDL		5.82	0.2	164000	4.11	0.32 BDL	
132924.5	42.94 BDL		6.7	0.37	164000	8.38	0.37 BDL	
133675.72	32.26 BDL		3.67 BDL		164000	5.6	0.59 BDL	
134963.75	39.5 BDL		6.76	0.2	164000	7.02	0.42 BDL	
134771.25	34.51 BDL		4.13	0.17	163000	5.82	1.17 BDL	
123103.54	35.03 BDL		1.78	0.31	163000	2.68	0.39 BDL	
122151.4	34.44 BDL		2.09	1.35	162000	83	1.32	1.28
115677.28	28.76 BDL		1.56	0.81	162000	89	2.06 BDL	
118192.94	27.72 BDL		2.69	2.88	162000	491.55	2.19	1.82
117147.89	39.3 BDL		1.47	1.89	162000	63.26	2.25	1.47
112126.02	7.34 BDL		0.88 BDL		188000	0.12	0.85	1.49
115275.23	12.32	0.02	1.03 BDL		188000	1.15	1.4	2.12
109454.3	5.21	0.06	0.92 BDL		188000	0.35	4.67 BDL	
107615.52	3.52 BDL		1.98 BDL		184000	0.51	1.81 BDL	
109689.13	5.2 BDL		1.18	0.06	184000	0.45	2.82 BDL	
130755.77	108.92 BDL		28.19	0.94	184000	2402.07	1.58 BDL	

130608.85	112.05 BDL		29.75	1.14	184000	2012.49	1.25 BDL	
128043.55	9.36 BDL		0.4 BDL		163000	0.25	0.73 BDL	
107866.5	15.75 BDL		0.96	0.04	163000	183.22	0.97	1.88
123832.27	66.22 BDL		20.94	0.32	163000	9.36	1.3	5.28
108069.91	67.62 BDL		5.51	0.3	163000	0.64	1.02 BDL	
120399.74	48.1 BDL		5.67	0.44	163000	204.87	0.53 BDL	
135228.69	44.62 BDL		1.94	0.24	163000	20.02	0.29 BDL	
121706.21	38.48 BDL		1.77	1.27	163000	130.41	0.55 BDL	
121261.4	54.11 BDL		4.25	0.94	163000	528.37	0.84 BDL	
123348.87	33.5 BDL		3.12	0.75	163000	303.73	0.65 BDL	
133140.53	31.74 BDL		1.51	0.4	167000	696.27	0.27	4.16
137493.59 BDL	BDL	BDL	BDL		169000	3.58 BDL	BDL	
134741.86	4.01	0.03 BDL	BDL		169000	4.59	0.12 BDL	
133259.83	12.51 BDL	BDL		0.1	166000	2.36	0.09 BDL	
124700.08	18.63 BDL		0.11	0.06	166000	1.92	0.34 BDL	
134960.48	14.66 BDL		0.38	0.45	166000	15.92	0.17	4.03
130665.27	56.78 BDL		3.62	13.71	165000	1062.61	0.49	2.92
131161.66	69.42 BDL		4.17	21.34	165000	902.72	0.22 BDL	
121498.41	43.16 BDL		1.61	9.73	159000	234.31	0.27 BDL	
117047.45	54.56 BDL		23.46	0.02	166000	10.51	0.54 BDL	
137164.81	63.37 BDL		1.43	2.17	167000	470.02	0.8 BDL	
127762.86	64.28 BDL		6.3	0.13	163000	13.45	1.35	25.29
131260	58.75	0.14	2.77 BDL		165000	5.16	4.9	13.49
136160.16	114.57 BDL		1.64 BDL		165000	1.73	1.36	4.02
139534.89	85.91 BDL		1.76	0.03	165000	0.44	1.26	0.79
128071.18	24.6 BDL		1.18 BDL		165000	0.74	0.74	5.72
133871.81	42.11 BDL		1.23	0.11	165000	2.14	0.9	1.69
141702.66	92.59	0.05	0.79	0.03	166000	0.56	1.07 BDL	
139652.66	99.33 BDL		3.79	0.03	166000	3.37	1.59	9.06
134109.48	51.62 BDL		0.49	1.62	167000	1.92 BDL	BDL	
123125.3	2.3 BDL	BDL		0.05	167000	2.86 BDL	BDL	
131282.28	3.33 BDL		0.59	0.13	167000	11.92 BDL	BDL	
135215.11	3.82 BDL		0.62	0.65	166000	156.37 BDL	BDL	
141043.39	48.99 BDL		1.65	1.4	166000	9.92 BDL	BDL	
128221.03	22.93 BDL		0.79	0.37	164000	0.5	0.17 BDL	
123950.02	1.84 BDL	BDL	BDL		164000	0.99	0.1 BDL	
136228.91	6.47 BDL		5.5	0.45	168000	23.39	0.07 BDL	
134712.11	7.8 BDL		7.61	0.43	165000	34.26	0.23	1.58
136336.98	19.69 BDL		9.32	1.41	165000	186.65	0.79	1.48
134867.53	4.09 BDL		0.49 BDL		168000	12.79	0.51	0.97
125334.89 BDL		0.04	1.57	0.08	168000	20.41 BDL	BDL	
131417.83 BDL	BDL		1.46	0.05	168000	10.95	0.09 BDL	
149371.83	7.14 BDL		158.72	0.76	167000	5.05	0.24 BDL	
129770.06	304.09	0.08	6.97	0.1	167000	77.44	0.23 BDL	
128278.9	257.71 BDL		12.04 BDL		167000	95.29	2.83 BDL	
127482.1	216.83 BDL		15.08 BDL		166000	190.3	0.45 BDL	
111251.14	125.03 BDL		2.67 BDL		164000	176.69	0.18 BDL	

Dy_ppm	Er_ppm	Eu_ppm	Fe_ppm	Ga_ppm	Gd_ppm	Hf_ppm	K_ppm	La_ppm	
	17.61	5.13	5.09	80296.55	51.22	20.07 NA		6.09	78.05
	17.26	6.43	6.59	86899.2	51.92	16.49 NA	BDL		48.74
	16.19	6.03	5.8	92315.01	56.61	15.42 NA	BDL		29.03
	7.13	3.27	2.74	90509.49	57.98	5.74 NA	BDL		14.39
	11.85	4.92	3.97	90345.11	52.32	9.49 NA		26.75	28.45
	17.11	6.76	7.92	89266.1	54.05	15.47 NA		34.69	49.52
	13.05	6.36	4.5	81048.85	47.33	10.8 NA	BDL		19.54
	14.91	6.67	6.8	81992.53	52.33	12.12 NA		16.58	24.76
	3.22	1.48	1.9	81803.95	52.87	2.93 NA	BDL		6.59
NA	NA		5.49	127854.43	77.3 NA		0.43	13.82	3.92
NA	NA		13.03	128688.77	90.96 NA		0.87	42.71	153.93
NA	NA		3.72	129383.97	78.74 NA		0.13	28.59	7.87
NA	NA		3.11	116259.66	76.52 NA		0.35	44.21	5.82
NA	NA		2.03	125425.99	78.34 NA		0.34	31.13	2.69
NA	NA		1.47	118528.23	77.32 NA		1.42	132.55	8.02
NA	NA		1.27	122969.7	76.29 NA		0.38	116.69	6.24
NA	NA		1.41	121282.23	151.13 NA	BDL	BDL		18.7
NA	NA		6.77	110862.3	146.53 NA		0.13	12.81	143.46
NA	NA		7.74	123350.97	78.06 NA		3.05	154.87	107.97
NA	NA		2.53	114665.83	145.92 NA		0.11	22.13	30.37
NA	NA		2.93	129242.13	71.59 NA		0.12	156.87	29.89
NA	NA		3.32	123049.98	66.2 NA	BDL		13.25	10.64
NA	NA		5.43	126938.82	68.59 NA		0.08	50.84	19.95
NA	NA		27.25	106715.79	153.8 NA		0.41	46.41	925.93
NA	NA		23.97	106384.78	154.13 NA		0.21	31.08	540.61
NA	NA		2.44	132978.05	116.6 NA		0.43	104.1	1.22
NA	NA		2.92	131816.48	93.4 NA		0.08	62.11	0.63
NA	NA		6.31	143991.2	93.15 NA		0.4	1319.33	27.21
NA	NA		3.7	133738.81	96.01 NA		0.26	14.97	20.21
NA	NA		0.97	135111.83	65.66 NA		0.04	8.32	11.8
NA	NA		0.55	143306.2	80.97 NA		0.04 BDL		1.5
NA	NA	BDL		108656.77	59.55 NA		0.14	7.25	0.19
NA	NA		0.61	107602.55	52.53 NA		1.92	358.41	5.57
NA	NA		4.87	126154.33	68.39 NA	BDL		2218.02	103.68
NA	NA		0.26	118176.96	73.09 NA	BDL		2385.6	2.86
NA	NA		0.08	114876.21	94.68 NA		0.22	5.33	0.07
NA	NA		0.43	134708.09	105.8 NA		0.07	61.73	0.83
NA	NA		0.33	125855.7	91.41 NA		0.22	1082.83	1.77
NA	NA		0.34	154348.66	147.21 NA		0.34	8529.04	8.35
NA	NA		0.74	114989.32	48.3 NA		0.1	425.06	9.59
NA	NA		0.51	114955.77	50.08 NA		0.18	34.33	6.9
NA	NA		1.65	104621.84	73.57 NA		1.3 BDL		61.92
NA	NA		7.4	119838.11	76.91 NA		1.54	474.46	507.19
NA	NA		4.5	108016.94	68.5 NA		1.08	54	395.42
NA	NA		4.46	113051.8	94.31 NA		1.31	75.74	213.88
NA	NA		3.02	114584.62	67.15 NA		0.53	262.17	68.13
NA	NA		2.17	128720.95	81.24 NA		0.57	62.7	31.77
NA	NA		3.9	126398.98	78.08 NA		2.79	225.82	77.92
NA	NA		2.45	120632.52	71.29 NA		0.14	152.18	43.15
NA	NA		4.98	135316.89	90.14 NA		0.82	1299.44	116.54
NA	NA		16.34	110221.87	100.27 NA		0.99	726.22	110.78
NA	NA		1.57	126108.2	120.77 NA		0.1	133.49	24.86
NA	NA		4.3	138445.31	76.74 NA		0.2	145.7	115.73
NA	NA		13.33	112456.3	106.88 NA	BDL		16.97	126.81
NA	NA		12.33	107609.55	89.39 NA	BDL	BDL		83.52
NA	NA		11.6	114621.04	85.43 NA	BDL	BDL		69.07
NA	NA		4.79	106318.34	63.02 NA	BDL		61.42	31.36
NA	NA		0.69	120094.83	73.21 NA	BDL		27.34	2.1
NA	NA		2.64	111466.24	76.23 NA	BDL		43.52	15.35
NA	NA		5.24	101452.23	66.02 NA		0.45	80.08	68.15
NA	NA		3.91	88586.02	54.08 NA		0.66	5.78	46.07
NA	NA		0.61	111545.68	79.43 NA		0.19	6.42	3.45
NA	NA		0.42	110173.87	73.56 NA	BDL	BDL		1.95
NA	NA		0.38	108496.62	65.2 NA		0.31	6.2	1.51
NA	NA		0.08	115920.48	53.89 NA		0.43	89.18	1.15
NA	NA		0.76	118561.2	79.47 NA		0.34	21.92	2.94
NA	NA		2.47	101134.21	71.64 NA		0.45	50.6	57.73
NA	NA		0.92	126368	81.7 NA		0.12	12.9	21.67
NA	NA		5.24	116473.06	75.41 NA		1.36	115.99	165.33
NA	NA		8.98	116629.59	111.68 NA		11.56	96.94	128.51
NA	NA		14.63	115858.11	138.51 NA		2.76	185.23	109.93

NA	NA	6.87	109038.52	98.67 NA		0.37 BDL		200.81
NA	NA	14.05	116906.97	99.23 NA		0.42	479.87	290.53
NA	NA	6.45	109021.27	99.23 NA		0.97	20.36	134.03
NA	NA	13.32	121029.62	101.39 NA		0.77	16.81	322.49
NA	NA	6.58	122071.97	120.84 NA		0.13	89.12	79.72
NA	NA	6.29	110119.42	97.38 NA		0.48 BDL		117.69
NA	NA	3.03	134427.83	86.72 NA		0.73	145.28	35.66
NA	NA	3.46	134862.13	87.24 NA	BDL		10.66	7.47
NA	NA	16.36	121446.88	88.98 NA		1.1	1748.52	482.24
NA	NA	8.56	122374.63	78.93 NA		1.49	4082.7	211.8
NA	NA	5.93	116059.99	68.1 NA		1.72 BDL		170.34
NA	NA	5.97	117386.91	75.44 NA		0.75 BDL		147.39
NA	NA	3.1	142261.09	72.19 NA		0.68	46.86	33.06
NA	NA	14.86	126479.7	72.4 NA		0.29	83.5	364.08
NA	NA	9.84	118346.95	69.61 NA		0.42	146.84	146.67
NA	NA	12.98	125460.82	72.3 NA		0.35	191.6	261.43
NA	NA	22.07	119348.71	74.73 NA		1.84	331.12	410.93
NA	NA	3.46	128231.16	90.28 NA		0.89	233.43	65.3
NA	NA	0.11	103105.48	203.26 NA	BDL		35.79	0.24
NA	NA	2.64	111377.98	231.54 NA	BDL		294.42	101.68
NA	NA	0.12	93571.34	164.07 NA	BDL		20.77	0.05
NA	NA	0.06	116120.98	214.17 NA	BDL	BDL		0.07
NA	NA	0.1	116433.57	201.83 NA	BDL	BDL		1.39
NA	NA	0.2	107963.18	196.77 NA	BDL		12.63	0.52
NA	NA	0.07	102073.34	211.55 NA	BDL		10.59	0.18
NA	NA	0.47	133985.91	93.49 NA	BDL		94.58	2.37
NA	NA	0.84	124688.91	120.09 NA		0.46 BDL		0.57
NA	NA	23.51	121070.54	108.06 NA		0.14	15.62	285.8
NA	NA	1.03	115749.81	50.77 NA		0.03	96.39	8.42
NA	NA	1.56	129414.88	52.37 NA	BDL		143.26	5.74
NA	NA	0.52	142565.25	45.51 NA		1.01	1272.4	3.19
NA	NA	2.29	136146.2	62.23 NA		0.11	174.15	15.76
NA	NA	8.22	119400.77	115.63 NA		2.14	151.61	255.39
NA	NA	9.36	105118.8	106.7 NA		1.3	40.35	184.32
NA	NA	15.46	103409.78	120.96 NA		1.06	423.83	295.56
NA	NA	13.39	120913.47	131.27 NA		7.76	3230.4	189.36
NA	NA	5.24	108081.3	72.24 NA		3.17	18.32	117.48
NA	NA	11.55	118032.12	115.28 NA		0.61	112.83	153.33
NA	NA	16.54	106869.24	136.24 NA		0.36	412.62	258.49
NA	NA	23.54	120712.97	113.39 NA		1.78	1262.81	298.3
NA	NA	21.88	119613.34	146.68 NA		3.69	437.85	341.59
NA	NA	0.22	87892.41	56.89 NA		0.14	11.81	3.05
NA	NA	0.5	83187.48	57.3 NA		3.87 BDL		28.81
NA	NA	5.31	104492.57	95.38 NA		0.54	371.46	131.74
NA	NA	0.49	101115.13	51.73 NA		0.21	169.19	8.65
NA	NA	7.12	117304.56	93.23 NA		0.67	173.99	157.19
NA	NA	6.97	143027.38	98.69 NA		0.09	379.45	308.49
NA	NA	4.85	140328.92	127.94 NA	BDL		787.76	297.45
NA	NA	3.57	103675.96	62.45 NA	BDL		422.4	114.16
NA	NA	2.48	110941.9	69.64 NA	BDL	BDL		4.36
NA	NA	2.04	110610.63	59.51 NA	BDL		52.64	4.79
NA	NA	1.57	113751.88	66.44 NA		0.04	22.02	4.57
NA	NA	3.25	109399.72	52.65 NA		0.03	35.51	20.6
NA	NA	3.93	114248.13	72.59 NA	BDL		30	13.05
NA	NA	4.59	107361.21	58.54 NA	BDL		31.36	27.07
NA	NA	3.21	128996.55	136.57 NA		0.02 BDL		7.19
NA	NA	8.76	133838.41	159.1 NA	BDL		14.6	28.31
NA	NA	4.66	119280.44	135.32 NA	BDL		8.06	23.14
NA	NA	6.59	124392.58	133.08 NA		0.1	25.33	38.33
NA	NA	6.2	126567.79	134.83 NA	BDL	BDL		23.11
NA	NA	5.48	129029.91	131.45 NA		0.07	15.57	12.7
NA	NA	2.16	112433.45	53.92 NA	BDL		45.74	3.34
NA	NA	6.91	114067.46	59.96 NA	BDL		22.24	27.81
NA	NA	5.2	131211.28	58.91 NA	BDL		103.43	45.41
NA	NA	4.82	127556.8	51.29 NA		0.26	61.85	44.64
NA	NA	2.5	106370.84	38.13 NA		0.29	342.83	62.88
NA	NA	0.3	123826.72	46.03 NA		0.14	75.37	1.33
NA	NA	0.04	132064.08	32.72 NA	BDL		900.35	0.33
NA	NA	2.25	121806.73	49.2 NA	BDL		33.76	18.7
NA	NA	0.83	126774.58	54.5 NA	BDL		10.45	3.27
NA	NA	2.36	119518.96	45.43 NA	BDL		41.32	15.76
NA	NA	1.36	136264.53	52.1 NA	BDL		22.77	5.22
NA	NA	1.24	138732.16	57.5 NA	BDL	BDL		3.11

NA	NA	2.95	124769.34	62.31 NA		0.13	90.39	17.62
NA	NA	1.25	123152.19	46.43 NA	BDL		20.87	4.64
NA	NA	0.08	121123.58	61.36 NA	BDL	BDL		0.15
NA	NA	0.75	127770.06	66.15 NA		0.11 BDL		8.1
NA	NA	5.74	133641.36	66.85 NA		0.31	354.32	138.21
NA	NA	6.06	131310.36	71.65 NA		0.09	420.27	209.73
NA	NA	2.85	146044.22	70.81 NA		0.47	213.83	55.12
NA	NA	6.71	117997.25	51.12 NA		0.07 BDL		59.44
NA	NA	3.19	130863.1	66.26 NA		0.11	31.69	45.11
NA	NA	8.31	150353.86	77.96 NA		0.37	907.06	312.34
NA	NA	0.1	116179.7	63.04 NA	BDL		1322.94	1.08
NA	NA	13.18	115591.84	62.36 NA		7.62	14.28	370.52
NA	NA	15.56	120258.57	70.47 NA		1.38	14.32	395.31
NA	NA	13.95	108249.19	99.15 NA		0.1	29.75	128.96
NA	NA	13.64	96859.49	100.41 NA		0.06	27.11	131.21
NA	NA	18.06	105909.65	110.12 NA		0.04	28.79	104.09
NA	NA	11.1	116015.96	61.22 NA		2.88	17.32	264.65
NA	NA	12.88	114528.26	62.74 NA		2.88	32.16	292.74
NA	NA	17.76	119416.92	69.53 NA		2.16 BDL		370.33
NA	NA	18.76	115550.25	53.79 NA		3.62 BDL		401.18
NA	NA	14.87	122121.34	90.1 NA		2.64 BDL		216.75
NA	NA	34.68	117800.98	138.53 NA		2.99	20.61	478.9
NA	NA	49.88	115071.8	152.23 NA		2.53	13.03	461.31
NA	NA	28.69	117789.49	120.31 NA		2.52	8.17	385.35
NA	NA	35.81	119946.33	137.52 NA		3.35 BDL		414.89
NA	NA	6.88	137112.88	165.18 NA		0.06	10.09	58.72
NA	NA	4.1	132264.53	113.28 NA		0.02	9.96	17.53
NA	NA	5.4	135508.14	176.94 NA		0.09 BDL		46.21
NA	NA	5.52	141747.39	181.07 NA		0.32	11005.2	176
NA	NA	10.38	125394.09	172.76 NA		0.4	13641.43	435.29
NA	NA	6.23	164801.42	221.54 NA		0.32	17869.56	209.73
NA	NA	5.6	157966.91	201.76 NA		0.73	8513.52	236.52
NA	NA	8.99	123293.22	196.76 NA		0.9	14864.33	393.63
NA	NA	6.62	120185.24	174.59 NA		0.99	14495.15	347.16
NA	NA	2.83	121426.99	72.64 NA		0.28	16.04	30.19
NA	NA	2.81	119679.51	53.39 NA		1.1	14.92	55.77
NA	NA	5.31	125626.63	61.99 NA		0.06	26.72	36.46
NA	NA	1.88	107190.27	50.41 NA		0.62	28.07	32.75
NA	NA	13.08	110868.52	75.06 NA		0.94	61.32	180.36
NA	NA	3.78	104416.05	49.9 NA		0.32	39.72	38.35
NA	NA	9.92	112420.58	71.32 NA		0.86	50.17	162.11
NA	NA	6.97	117971.36	102.35 NA		0.07	23.68	56.48
NA	NA	12.36	123616.4	101.73 NA		0.29	27.13	105.38
NA	NA	5.47	126909.32	59.75 NA		0.12 BDL		57.33
NA	NA	3.47	122558.45	58.93 NA		0.23	101.99	70.18
NA	NA	9.55	104629.02	96.89 NA		0.13 BDL		20.7
NA	NA	6.15	118540.65	74.33 NA		0.12	14.73	30.21
NA	NA	10.23	109219.67	80.22 NA		0.07 BDL		23.37
NA	NA	6.95	109262.75	77.64 NA		0.08	23.66	26.84
NA	NA	13.18	116693.81	88.98 NA		0.08	16.33	28.62
NA	NA	10.11	115445.78	107.17 NA		0.19	22.76	30.7
NA	NA	75.78	132306.63	123.45 NA		1.18	228.19	2474.4
NA	NA	3.2	138927.67	61.58 NA		0.08	137.78	47.38
NA	NA	30.71	126492.62	88.48 NA		0.65	53.01	920.21
NA	NA	3.47	135174.09	71.3 NA		0.22	29.06	59.95
NA	NA	1.47	129755	78.47 NA		0.16	14.37	16.37
NA	NA	4.11	130310.08	62.71 NA		0.21	130.71	62.32
NA	NA	15.21	133225.03	103.26 NA		0.56	637.71	482.12
NA	NA	7.03	126839.28	98.1 NA		0.49	830.12	195.23
NA	NA	3.84	121344.34	68.75 NA		2.01	1223.91	59.09
NA	NA	4.59	116003.38	71.29 NA		1.53	966.54	82.91
NA	NA	3.24	98731.36	64 NA		0.93	527.34	52.4
NA	NA	4.21	146491.69	76.73 NA		1.51	836.51	73.04
NA	NA	0.05	125482.27	33.61 NA		0.87 BDL		0.6
NA	NA	3.37	126964.68	75.02 NA		1.96	1596.15	80.03
NA	NA	4.33	115499.34	79.82 NA		2.2	450.47	65.65
NA	NA	4.06	158500.11	76.18 NA		5.61	750.68	93.06
NA	NA	57.3	126269.05	97.6 NA		5.13 BDL		693.22
NA	NA	26.21	125927.29	88.66 NA		0.6 BDL		246.97
NA	NA	18.62	119796.58	96.04 NA		1.84	10.4	120.98
NA	NA	41	136621.48	107.24 NA		4.89 BDL		546.66
NA	NA	45.78	128177.67	90.48 NA		1.93	7.65	436.43
NA	NA	21.36	129749.95	87.82 NA		1.18	18.25	268.25

NA	NA		16.56	125875.1	89.2	NA	1.35	10.83	193.89
NA	NA		19.73	129135.55	91.92	NA	1.27	23.1	250.49
NA	NA		13.78	119383.92	92.42	NA	1.33	BDL	116.44
NA	NA		6.8	125328.73	100.98	NA	0.09	45.71	54.69
NA	NA		11.88	138560.64	107.41	NA	BDL	51.12	79.25
NA	NA		9.66	136607.33	121.06	NA	0.13	33.76	85.79
NA	NA		5.65	132086.91	102.83	NA	BDL	56.6	26.99
NA	NA		6.58	129639.63	74.29	NA	1.15	191.39	86.92
NA	NA		5.11	120400.23	52.88	NA	2.5	1660.15	55.28
NA	NA		2.27	137874.77	49.52	NA	1.73	1868.08	32.53
NA	NA		0.33	138390.13	51.43	NA	1.54	62.35	3.41
NA	NA		2.51	139050.7	47.54	NA	0.07	61.18	77.4
NA	NA		3.48	138606.89	63.28	NA	BDL	20.19	89.31
NA	NA		3.27	136463.45	74.17	NA	0.16	214.45	55.61
NA	NA		0.43	141705.83	66.88	NA	BDL	BDL	1.71
NA	NA		1.15	136671.69	65.42	NA	0.14	54.4	36.38
NA	NA		0.37	141057.42	72.1	NA	BDL	1938.67	3.41
NA	NA		0.4	132565.84	62.3	NA	BDL	BDL	0.14
NA	NA		0.68	156633.48	61.13	NA	0.19	BDL	0.54
NA	NA		0.45	137878.42	57.81	NA	0.09	15.47	2.88
NA	NA		20.85	145925.5	72.99	NA	0.68	87.29	590.52
NA	NA		6.05	104648.75	77.04	NA	0.16	BDL	64.67
NA	NA		11.05	146822	130.68	NA	0.14	BDL	89.41
NA	NA		19.69	129754.71	110.54	NA	1.94	13.52	199
NA	NA		2.97	152256.3	102.75	NA	BDL	BDL	12.56
NA	NA		3.65	126018.8	65.78	NA	0.18	BDL	18.79
NA	NA		19.23	142050.06	75.1	NA	BDL	BDL	61.49
NA	NA		1.73	151855.3	92.28	NA	BDL	BDL	6.87
NA	NA		3.24	131303.28	70.8	NA	0.11	BDL	18.15
NA	NA		0.59	162944.58	84.8	NA	BDL	BDL	0.98
NA	NA		2.96	142352.34	80.71	NA	BDL	BDL	9.76
	18.54	10.36	24.8	88583.48	85.84	15.85	NA	13.89	47.05
	9.66	4.51	15.48	87467.16	79.67	14.34	NA	12.38	58.56
	14.14	9.07	8.13	79807.15	76.86	11.07	NA	10.3	36.78
	1.74	1.22	1.28	93698.16	66.21	1.38	NA	203.32	6.61
	0.49	0.29	0.74	86154.48	34.05	0.19	NA	31.39	0.55
	0.93	0.49	0.94	93661.25	29.7	0.81	NA	124.47	2.66
BDL		0.07	0.16	82929.43	50.49	0.13	NA	121.05	0.81
	3.1	1.34	6.59	86262.98	81.86	2.86	NA	BDL	14.96
	7.72	4.05	7.16	84079.42	86.43	8	NA	BDL	31.25
	14.67	7.43	8.1	82054.98	81.79	18.3	NA	12.47	94.53
	11.96	4.63	10.42	75322.52	67.32	14.02	NA	25.26	75.31
	8.45	4.56	7.88	79229.93	82.07	8.78	NA	39.83	45.7
	11.4	5.21	8.21	77577.94	74.23	12.16	NA	BDL	56.05
	1.4	1.43	1.35	75582.34	63.06	1.36	NA	550.1	4.78
	3.91	1.94	2.13	76955.68	59.28	4.02	NA	283.2	9.42
	14.85	6.07	10.83	77890.72	73.45	18.26	NA	36.77	143.03
	10.8	5.99	8.31	83250.9	89.2	14.24	NA	BDL	123.66
	43.71	24.08	27.43	88309.85	56.67	71.22	NA	43.9	731.61
	26.68	15.74	14.95	90677.64	65.91	44.92	NA	264.31	460.14
	63.7	20.06	47.45	98141.34	75.3	150.7	NA	162.9	1608.01
	18.01	6.63	22.08	94721.63	57.18	40.49	NA	369.01	457.38
	38.32	17.48	14.16	91053.26	72.46	52.81	NA	192.82	376.61
	9.63	4.05	4.91	87570.53	53.95	17.5	NA	65.49	145.14
	5.26	0.93	2.56	80211.45	25.82	15.56	NA	523.36	194.78
	40.89	6.11	19.92	69698.59	33.31	121.9	NA	1085.21	1132.64
	53.88	18.58	18.32	70026.36	38.62	70.34	NA	1313.46	371.83
	3.32	0.82	1.76	63598.88	42.74	7.09	NA	1172.39	83.23
	2.57	0.7	1.91	73710.36	39.61	6.65	NA	908.85	90.31
	0.58	0.69	0.26	90768.02	26.98	0.2	NA	145.51	0.26
	0.85	0.26	1.76	86548.46	37.25	1.11	NA	9207.19	4.98
	0.82	0.51	0.36	80408.1	25.89	0.47	NA	BDL	0.81
	0.3	0.13	0.2	87828.44	24.47	BDL	NA	148.46	1.02
	0.37	0.35	0.2	85744.8	25.59	0.3	NA	10.18	0.85
	23.87	10.87	2.81	82131.31	54.38	21.15	NA	BDL	36.84
	0.55	0.47	0.36	74979.8	67.17	0.43	NA	BDL	0.68
	3.82	1.8	1.08	79341.58	71.12	3.81	NA	14.37	21.48
	3.34	2.18	0.83	82040.09	55.62	2.51	NA	12.44	11.1
	25.63	7.3	8.22	92686.82	59.88	35.83	NA	22.35	165.89
	2.73	0.95	1.53	93720.53	38.78	5.67	NA	19.69	54.19
	1.04	0.41	0.53	90957.27	40.07	1.4	NA	16.99	6.28
	1.06	0.38	0.47	85691.76	30.54	1.03	NA	41.15	4.89
	0.34	0.12	0.18	96956.15	29.38	0.59	NA	29.57	1.87

	0.57	0.2	0.22	93921.49	26.78	0.7 NA	43.29	6.09
	36.55	29.7 BDL		79556.31	67.27 BDL	NA	25.16 BDL	
	4.49	1.97	3.02	93726.43	55.64	5.72 NA	20.97	26.62
	2.21	1.29	0.7	87267.5	45.7	2.01 NA	44.78	14.52
	3.42	1.86	1.1	83502.76	43.79	4.4 NA	14.22	16.97
	0.05 BDL		0.08	72116.3	52.93	0.13 NA	BDL	0.13
	1.2	1.28	0.3	65364.21	47.18	1.24 NA	34.5	3.03
	1.21	0.59	0.54	101249.28	40.01	1.25 NA	30.82	6.99
	3.78	2.19	1.76	81291.14	51.34	3.84 NA	66.4	17.4
NA	NA		5.74	122019.34	227.74 NA		0.25 BDL	61.41
NA	NA		3.04	116247.05	164.1 NA		1.12	14.66
NA	NA		1.52	120022.91	84.62 NA		0.64	74.87
NA	NA		0.42	128882.79	81.61 NA		0.3	29.17
NA	NA		2.01	111859.59	92.83 NA		0.26	29.96
NA	NA		11.87	120805.37	146.56 NA		0.58	31.36
NA	NA		0.3	123096.09	43.75 NA		0.14 BDL	2.37
NA	NA		7.72	111491.27	95.25 NA		0.86	78.91
NA	NA		0.26	129315.66	130.83 NA		0.44	575.3
NA	NA		0.05	116308.04	60.21 NA		1.19	411.97
NA	NA	BDL		123016.13	56.97 NA	BDL		34.37
NA	NA	BDL		112074.66	62.39 NA		0.36 BDL	0.2
NA	NA		1.27	95090.45	62.74 NA	BDL		27.78
NA	NA		2.08	103031.77	74.53 NA		0.26	120.37
NA	NA		1.98	83755.7	53.4 NA		0.03	80.34
NA	NA		1.7	82596.95	73.32 NA	BDL		85.5
NA	NA		8.22	107425.64	81.54 NA		0.78	136.86
NA	NA		1.73	112815.17	52.08 NA		0.14	243.58
NA	NA		3.27	101662.06	61.81 NA		0.52	5561.67
NA	NA		5.99	101671.84	77.23 NA		0.14	1659.8
NA	NA		11.07	95757.72	123.58 NA		0.62	48.01
NA	NA		20.88	97842.63	114.25 NA		22.45	11.79
NA	NA		6.98	105444.2	135.12 NA		1.68	7.78
NA	NA		20.41	90591.09	86.13 NA		0.77	255.71
NA	NA		12.85	96426.19	88.75 NA		0.96	246.68
NA	NA		17.42	98281.91	76.41 NA		1.13	1790.72
NA	NA		9.61	104331.63	75.46 NA		0.17	1547.88
NA	NA		9.26	99679.02	93.48 NA		0.21	3379.56
NA	NA		2.09	106575.64	60.3 NA		0.29	17.82
NA	NA		2.18	107048.42	57.46 NA		0.19 BDL	4.82
NA	NA		1.75	111290.89	57.35 NA	BDL		11.09
NA	NA		1.73	110194.43	56 NA		0.43	19.19
NA	NA		18.97	103660.99	72.27 NA		4.12	38.98
NA	NA		5.55	109493.5	58.77 NA		1.17	21.02
NA	NA		2.36	102809.74	39.35 NA		0.48	88.14
NA	NA		3.23	105913.37	54.47 NA		0.36	43.8
NA	NA		1.56	119860.12	50.42 NA		0.16 BDL	2.16
NA	NA		2.89	114651.67	68.3 NA		0.18 BDL	4.33
NA	NA		2.48	123212.94	73.96 NA		0.11 BDL	4.99
NA	NA		0.93	106483.35	64.01 NA		4.69	431.24
NA	NA		0.08	96364.91	65.75 NA	BDL		95.11
NA	NA		0.22	101318.47	91.71 NA	BDL		64.65
NA	NA		0.8	101953.03	91.32 NA	BDL		117.62
NA	NA		0.25	99141.78	72.31 NA		0.02	135.85
NA	NA		1.63	102294.02	69.91 NA		1.06	824.91
NA	NA		0.1	109400.22	57.56 NA		0.09 BDL	0.13
NA	NA		1.33	107391.08	39.07 NA	BDL		21.08
NA	NA		7.7	111525.83	68.36 NA		0.08 BDL	27.9
NA	NA		0.78	114351.97	64.79 NA		0.11 BDL	2.53
NA	NA		0.15	114495.91	60.06 NA	BDL	BDL	0.12
NA	NA		2.84	105756.79	69.15 NA	BDL		19.35
NA	NA		3.96	114624.74	75.68 NA	BDL		25.85
NA	NA		3.03	104488.19	63.4 NA	BDL		30.57
NA	NA		8.13	112626.19	88.7 NA	BDL	BDL	15.85
NA	NA		1.86	123596.28	86.77 NA		0.16	39.35
NA	NA		5.22	109209.98	88.35 NA		0.34	106.22
NA	NA		2.82	119670.25	85.81 NA		1.86	81.4
NA	NA		0.57	126945.55	68.72 NA	BDL	BDL	0.82
NA	NA		1.93	136947.98	70.39 NA		0.64	351.96
NA	NA		5.03	119783.34	69.51 NA		0.87	96.42
NA	NA		2.37	140857.23	55.83 NA		2.61	139.75
NA	NA		5.71	123365.8	71.74 NA		0.59	22.01
NA	NA		10.66	125934.77	80.42 NA		0.77	166.76
NA	NA		0.04	136233.81	12.34 NA		0.07	18.51

NA	NA	0.03	133971.14	11.23	NA	0.1	16.08	0.57
NA	NA	3.05	126412.48	45.18	NA	1.21	23.25	27.84
NA	NA	2.18	143292.14	52.32	NA	1.05	178.85	23.31
NA	NA	0.23	128385.37	70.94	NA	0.46	BDL	2.72
NA	NA	0.63	119977.82	48.21	NA	0.94	BDL	13.59
NA	NA	0.71	127891.7	51.31	NA	0.95	18.31	7.69
NA	NA	2.64	139399.33	42.7	NA	1.03	300.4	40.72
NA	NA	5.16	139070.66	56.61	NA	1.22	22.35	83.25
NA	NA	9.27	118671.36	91.11	NA	0.07	78.92	123.48
NA	NA	3.67	112279.72	92.21	NA	BDL	14.75	33.17
NA	NA	3.97	102006.4	81.69	NA	BDL	29.96	38.76
NA	NA	17.89	118635.19	77.67	NA	0.1	24.48	274.63
NA	NA	6.48	118742.41	81.74	NA	0.51	17.22	92.26
NA	NA	6.81	109980.19	72.71	NA	0.3	105.75	50.66
NA	NA	15.56	108681.99	87.81	NA	0.44	43.85	166.85
NA	NA	10.92	107893.66	77.21	NA	0.7	55.7	150.42
NA	NA	12.21	147910.2	76.27	NA	0.14	17.95	165.19
NA	NA	10.05	138900.39	78.96	NA	0.26	531.61	209.8
NA	NA	3.85	131437.67	102.57	NA	BDL	3095.82	31.12
NA	NA	0.27	138174.47	65.07	NA	0.03	8.63	0.91
NA	NA	2.28	144287.2	66.3	NA	0.05	20.63	4.46
NA	NA	0.19	131504.88	43.82	NA	BDL	6.3	0.11
NA	NA	0.71	125388.75	48.97	NA	BDL	23.45	1.18
NA	NA	0.78	126379.21	49.15	NA	0.03	25.31	4.38
NA	NA	0.5	124808.44	44.79	NA	BDL	18.52	1.56
NA	NA	5.53	131337.98	64.6	NA	0.23	35.18	7.37
NA	NA	0.17	145290.11	52.21	NA	BDL	BDL	0.42
14.65	8.3	2.96	125186.55	40.42	11.91	NA	BDL	22.17
4.99	3.31	1.88	133934.3	41.86	5.44	NA	BDL	21.66
2.35	2.07	1.4	132432.65	42.37	1.64	NA	BDL	3.1
2.63	2.27	1.66	120449.76	39.81	3.21	NA	BDL	9.17
4.03	2.02	1.44	128809.56	42.04	3.7	NA	BDL	14.21
4.85	2.08	2.37	126179.81	42.34	4.5	NA	BDL	15.82
4.47	3.45	2.08	133405.94	41.46	3.41	NA	BDL	15.21
26.52	12	60.07	131189.68	83.05	38.38	NA	BDL	131.42
9.7	5.34	1.41	126934.77	38.33	9.55	NA	BDL	20.91
5.23	4.61	2.17	131703.47	45.19	3.88	NA	BDL	6.22
1.68	1.92	2	118917.22	40.51	1.48	NA	BDL	2.93
6.58	3.9	2	126976.2	38.09	6.74	NA	BDL	21.46
1.23	0.92	1.87	134793.45	45.67	0.85	NA	BDL	3.23
3.06	2.75	2.05	133059.3	46.93	2.35	NA	BDL	4.01
6.48	4.26	2.04	120674.64	40.44	5.6	NA	BDL	19.34
2.46	1.96	2.82	123856.25	42.71	1.91	NA	10.16	6.33
7.44	4.87	1.59	129388.9	42.64	6.8	NA	14.47	14
3.92	1.99	4.03	124695.41	43.99	3.58	NA	BDL	14.48
3.28	3.38	2.08	119190.43	39.72	2.25	NA	20.48	7.08
3.58	1.65	1.71	97580.73	33.42	3.29	0.69	87.89	21.11
3.32	1.6	2.02	93920.99	34.12	3.82	0.47	2372.8	23.36
3.68	1.64	1.92	95844.5	33.15	4.46	0.58	27.44	20.08
4.81	2.65	1.6	104544.84	36.42	5.03	2.77	3113.17	19.34
5.17	4.2	2.17	124884.31	29.74	3.18	0.38	BDL	6.97
1.36	0.71	3.34	124624.51	37.67	1.67	0.05	29.98	18.49
0.08	0.21	0.5	145590.54	32.83	0.14	0.04	13.46	1.99
5.08	3.32	3.23	132634.12	46.25	3.71	0.17	15160.48	11.52
1.04	0.54	2.07	137239.75	49.52	0.76	BDL	BDL	8.13
3.02	1.59	1.34	98086.19	33.15	3.04	0.52	5112.07	14.12
4.72	2.76	0.96	99495.35	27.51	4.68	1.21	83.37	12.73
0.9	0.85	0.57	82495.22	36.41	0.73	NA	BDL	1.71
2.44	1.48	0.82	79383.98	40.2	1.72	NA	BDL	5.42
1.94	1.12	0.74	69881.04	28.55	2.76	NA	4.92	8.63
2.5	1.76	0.71	78301.95	30.07	2.06	NA	BDL	6.62
1.37	1.19	1.33	99751.49	43.81	1	NA	BDL	2.31
0.83	0.74	0.74	91766.82	41.6	0.71	NA	BDL	1.86
0.52	0.48	0.67	96428.95	44.48	0.31	NA	BDL	1.27
2.47	2.08	0.54	87802.18	41.64	1.98	NA	BDL	6.49
8.29	2.6	1.4	91319.61	64.74	11.11	NA	BDL	40.86
8.82	2.54	1.89	100734.18	71.49	10.02	NA	BDL	16.44
5.81	4.49	0.65	116381.62	62.2	3.47	NA	BDL	1.43
1.53	0.99	0.55	83194.05	35.64	1.79	NA	BDL	5.54
1.12	1.08	0.74	77357.9	32.34	0.9	NA	BDL	3.06
0.61	0.42	0.31	74467.76	33.79	0.43	NA	BDL	1.33
4.35	3.09	0.94	78621.01	34.94	3.77	NA	BDL	12.54
0.5	0.31	0.13	88168	40.32	0.32	NA	BDL	0.98

NA	NA	6.53	108967.25	101.01 NA	BDL	81.77	34.96
NA	NA	3.21	116615.66	101.37 NA	BDL	622.43	22.22
NA	NA	1.15	123456.61	63.53 NA		0.29 BDL	69.28
NA	NA	0.51	115323.3	48.7 NA		0.14 11.27	3.04
NA	NA	5.97	100708.01	131.18 NA		0.47 70.11	142.84
NA	NA	1.59	105422.95	49.91 NA		0.09 BDL	20.34
NA	NA	1.39	116428.42	34.83 NA	BDL	24.1	19.15
NA	NA	0.5	121232.83	59.28 NA	BDL	BDL	2.94
NA	NA	0.18	126845.94	28.92 NA	BDL	417.96	9.61
NA	NA	0.38	130554.27	38.37 NA	BDL	BDL	10.11
NA	NA	1.04	126230.09	69.35 NA		0.14 2038.49	6.87
NA	NA	0.49	131231.61	34.75 NA		5.09 553.98	11.36
NA	NA	0.59	126270.53	37.81 NA		0.97 3379.41	15.24
NA	NA	0.37	122646.63	46.55 NA	BDL	2500.35	0.59
NA	NA	1.88	124056.45	58.08 NA		0.1 5876.58	17.2
NA	NA	0.72	124650.66	57 NA		0.03 100.58	25.58
NA	NA	3.78	121466.11	59.23 NA		0.06 40.29	10.19
NA	NA	14.01	143135.83	80.4 NA		1.25 12945.33	207.7
NA	NA	12.03	115124.59	110.35 NA		0.54 5741.83	289.62
NA	NA	14.24	90471.75	128.38 NA		0.22 5979.22	488.63
NA	NA	14.83	101837.69	133.95 NA		0.15 3576.98	498.74
NA	NA	17.8	95700.14	113.61 NA		0.21 2914.93	595.98
NA	NA	11.48	96632.98	137.64 NA		0.15 4251.38	286.33
NA	NA	10.77	93071.54	125.24 NA		0.14 5476.34	210.21
NA	NA	6.18	113478.42	88.34 NA		0.59 1478.73	112.09
NA	NA	12.98	121089.59	77.46 NA		0.79 888.04	269.59
NA	NA	2.01	125881.85	35.09 NA	BDL	2369.45	8.98
NA	NA	8.12	123328.43	67.17 NA		0.28 960.66	241.83
NA	NA	10.77	109522.52	113.02 NA		0.33 5016.43	291.59
NA	NA	0.15	114623.71	79.54 NA	BDL	BDL	BDL
NA	NA	0.66	114802.92	61.85 NA		1.38 473.35	13.83
NA	NA	2.02	87163.78	69.26 NA		0.31 15.18	26.8
NA	NA	2.33	119265.09	68.65 NA		0.37 29.2	63.25
NA	NA	0.11	115302.98	69.67 NA	BDL	BDL	0.74
NA	NA	45.71	128391.51	151.67 NA		0.14 88.16	258.81
NA	NA	13.99	122572.2	107.65 NA		0.39 45.03	244.52
NA	NA	3.05	115097.25	95.09 NA		0.3 128.51	49.82
NA	NA	8.05	134505.7	57.17 NA		0.28 15135.66	193.54
NA	NA	0.66	120010.9	24.79 NA	BDL	BDL	1.82
NA	NA	11.56	116620.7	43.56 NA		0.19 316.49	168.95
NA	NA	7.34	129673.93	61.41 NA		0.3 1594.62	160.48
NA	NA	3.49	128828.91	32.11 NA		0.17 184.66	44.42
NA	NA	0.15	130593.83	15.8 NA		0.07 BDL	0.38
NA	NA	0.38	129436.9	68.38 NA	BDL	BDL	0.77
NA	NA	0.75	122085.65	56.93 NA	BDL	13.54	1.06
NA	NA	0.06	124313.42	53.16 NA		0.07 BDL	1.39
NA	NA	0.66	115888.56	117.35 NA		0.17 4.17	4.04
NA	NA	0.65	115801.17	114.79 NA	BDL	BDL	0.62
NA	NA	0.56	126457.68	75.59 NA	BDL	BDL	3.96
NA	NA	0.23	123263.76	63.66 NA	BDL	BDL	1.13
NA	NA	1.26	127544.67	87.61 NA	BDL	BDL	3.12
NA	NA	3.19	123164.89	78.93 NA	BDL	144.28	96.76
NA	NA	3.7	65322.32	47.37 NA		0.11 830.29	85.15
NA	NA	1.13	118398.99	65.47 NA	BDL	694.08	25.28
NA	NA	4.66	128010.67	84.73 NA	BDL	207.35	43.44
NA	NA	1.2	119695.17	70.42 NA	BDL	792.44	22.64
NA	NA	4.6	122326.2	81.68 NA		0.1 82.1	15.63
NA	NA	0.38	120796.09	69.07 NA	BDL	977.2	1.33
NA	NA	3.95	88562.57	66.54 NA		0.14 237.04	3.86
NA	NA	0.98	122574.56	88.51 NA		0.03 44.28	4.75
NA	NA	2.29	115399.6	103.45 NA	BDL	224.32	17.27
NA	NA	2.42	130790.55	153.35 NA	BDL	BDL	71.6
NA	NA	6.18	132246.09	153.25 NA	BDL	2507.24	11.19
NA	NA	33.76	126673.45	111.76 NA	BDL	55.32	978.12
NA	NA	34.49	119860.8	91.48 NA	BDL	264.59	2462.78
NA	NA	38.12	118266.98	88.83 NA		0.1 96.58	1643.71
NA	NA	1.44	108747.41	56.7 NA		0.11 BDL	30.88
NA	NA	0.89	124259.82	107.52 NA		0.16 3954.12	19.46
NA	NA	1.3	122685.48	49.12 NA		0.13 235.72	5.52
NA	NA	4.1	141899.56	60.43 NA	BDL	62.01	44.01
NA	NA	2.12	127147.69	63.14 NA		0.23 192.45	11.14
NA	NA	2.5	130528.56	86.9 NA	BDL	260.08	60.77
NA	NA	0.5	125172.98	77.04 NA	BDL	46.01	6.65

NA	NA	0.44	137381.53	72.85 NA	BDL	4.52	7.05
NA	NA	0.75	142366.23	71.44 NA	BDL	51.73	4.91
NA	NA	0.19	108074.25	31.6 NA	BDL	544.34	0.37
NA	NA	0.21	125705.99	51.14 NA		0.09 900.57	2.01
NA	NA	0.57	119468.29	84.52 NA		0.09 87.64	5.14
NA	NA	0.24	122321.08	72.95 NA	BDL	23.27	2.62
NA	NA	0.2	135731.84	60.13 NA	BDL	141.9	3.51
NA	NA	0.22	129762.2	59.35 NA		0.06 22.19	3.59
NA	NA	0.16	112669.89	72.35 NA	BDL	127.97	1.42
NA	NA	0.19	122411.45	63.05 NA	BDL	29.33	1.67
NA	NA	0.14	104708.53	70.45 NA	BDL	31.77	0.33
NA	NA	0.36	114390.8	87.99 NA	BDL	640.39	0.88
NA	NA	0.11	116107.41	67.5 NA	BDL	490.77	0.31
NA	NA	0.25	125709.79	116.89 NA	BDL	115.13	0.14
NA	NA	0.66	137999.5	34.32 NA		0.69 119.83	20.38
NA	NA	0.58	144071.42	47.42 NA		0.82 704.62	24.5
NA	NA	1.21	133052.75	74.95 NA	BDL	44.82	1.08
NA	NA	0.64	141446.95	66.78 NA		0.27 89.03	18.73
NA	NA	0.61	132418.61	59.42 NA		0.93 1253.25	13.62
NA	NA	9.94	93829.22	64.41 NA		0.47 66.43	37.95
NA	NA	8.19	92800.73	63.4 NA		0.38 82.14	39.31
NA	NA	13.29	91576.09	62.36 NA		1.43 123.38	51.31
NA	NA	22.15	97644.45	62.92 NA		2.72 31.12	77.64
NA	NA	9.2	100779.53	91.44 NA		1.87 8.17	72.37
NA	NA	15.39	104779.55	77.05 NA		2.38 BDL	159.3
NA	NA	15.11	91915.63	72.26 NA		1.29 14.85	103.16
NA	NA	9.68	106017.13	71.51 NA		0.55 10.12	38.49
NA	NA	0.04	40149.27	24.27 NA	BDL	10.74	0.44
NA	NA	13.32	102044.25	68.55 NA		0.77 15.1	45.8
NA	NA	11.3	101969.98	74.66 NA		1.14 9.38	44.92
NA	NA	0.63	99038.63	112.47 NA		0.04 62.24	20.35
NA	NA	0.23	99091.3	105.52 NA	BDL	71.29	2.01
NA	NA	0.7	95810.4	109.32 NA	BDL	23.46	11.54
NA	NA	0.92	93192.37	40.66 NA	BDL	14.64	10.04
NA	NA	1.29	99441.91	51.45 NA	BDL	6216.55	15.13
NA	NA	0.4	84900.94	57.41 NA	BDL	16.4	3.18
NA	NA	2.46	97876.65	40.31 NA		0.1 22.94	12.24
NA	NA	2.86	110493.91	36.82 NA		0.03 28.45	62.01
NA	NA	0.63	107232.32	40.47 NA		0.37 23.08	17.37
NA	NA	0.55	106272.73	43.78 NA	BDL	15.14	9.24
NA	NA	1.82	110752.22	46.12 NA		0.36 9.02	37.27
NA	NA	0.76	100956.82	37.48 NA	BDL	38.86	7.51
NA	NA	5.4	105392.08	53.91 NA		0.05 20.09	66.58
NA	NA	0.32	68831.87	60.33 NA	BDL	29.67	0.99
NA	NA	0.81	66128.21	52.53 NA		0.04 66.61	3.79
NA	NA	0.44	65589.45	56.18 NA	BDL	BDL	2.15
NA	NA	1.4	68426.69	55.62 NA		0.06 16273.43	11.3
NA	NA	1.47	67337.62	59.8 NA		0.07 299.1	7.57
NA	NA	1.13	67323.72	59.72 NA		0.1 28.53	2.75
NA	NA	1.06	67239.4	72.02 NA		0.1 175.17	5.66
NA	NA	2.09	69822.86	68.32 NA		0.22 108.78	13.97
NA	NA	2.16	73466.57	71.45 NA		0.3 174.02	26.96
NA	NA	1.83	77098.34	77.07 NA		0.15 60.76	19.85
NA	NA	2.39	86704.46	67.66 NA		0.16 BDL	12.2
NA	NA	1.44	73290.08	81.31 NA		0.23 BDL	3.71
NA	NA	3.54	83958.02	71.65 NA		0.65 BDL	51.89
NA	NA	0.27	70547.63	64.87 NA		0.06 31.7	1.89
NA	NA	0.28	72219.26	65.11 NA	BDL	146.41	2.23
NA	NA	0.47	70200.73	57.88 NA		0.86 63.45	4.16
NA	NA	0.4	68466.08	58.9 NA		0.18 19.11	2.75
NA	NA	0.39	77778.39	72.77 NA		0.06 55.4	3.6
NA	NA	0.41	71408.14	61.21 NA		0.35 63.92	3.6
NA	NA	0.14	76844.11	64.7 NA		0.14 24.9	1.83
NA	NA	4.6	93176.81	96.92 NA		0.05 70.09	65.8
NA	NA	4.06	91618.77	104.08 NA		0.18 71.07	56.94
NA	NA	13.26	87941.36	113.15 NA		0.18 26.81	329.63
NA	NA	3.08	93744.09	113.79 NA		0.2 21.94	24.75
NA	NA	BDL	45745.86	41.51 NA		0.06 BDL	0.04
NA	NA	0.16	34846.95	40.45 NA		2.26 19.89	0.99
NA	NA	0.1	51026.74	47.4 NA		0.1 BDL	0.06
NA	NA	0.15	47935.25	34.9 NA		0.35 12.87	0.34
NA	NA	0.18	44858.7	38.31 NA		0.35 22.36	0.15
NA	NA	222.15	114370.73	92.61 NA		1.8 BDL	1079.36

NA	NA	222.14	115766.2	91.85 NA		1.26	12.33	926.66
NA	NA	0.07	89044.49	45.86 NA	BDL		16.81	0.2
NA	NA	2.01	114104.77	39.03 NA		0.07	77.91	90.06
NA	NA	0.88	102896.83	45.4 NA		0.49	2577.24	4.63
NA	NA	0.13	123288.02	28.16 NA	BDL		219.94	0.33
NA	NA	11.89	103473.7	86.58 NA		0.11	1321.23	133.49
NA	NA	1.13	93380.13	94.79 NA		0.06 BDL		11.57
NA	NA	3.95	102316.27	99.81 NA		0.08	71.82	81.53
NA	NA	10.44	104716.65	100.72 NA		2.53	267.49	293.77
NA	NA	8.56	101281.11	89.77 NA		1.1	70.92	178.23
NA	NA	1.26	100278.89	86.48 NA		0.09	70.28	390.61
NA	NA	0.78	93842.62	118.32 NA	BDL	BDL		3.68
NA	NA	0.87	95424.16	132.33 NA		0.02	19.23	4.58
NA	NA	0.64	91243.98	133.65 NA	BDL	BDL		1.76
NA	NA	0.35	104749.17	122.19 NA		0.08	22.27	1.58
NA	NA	3.11	88130.77	124.98 NA		0.95	68.34	8.82
NA	NA	32.75	100923.13	78.1 NA		0.07	215.75	562.89
NA	NA	33.27	99803.62	90.69 NA		0.14	104.34	526.98
NA	NA	16.41	107531.14	78.92 NA		0.52	200.7	143.72
NA	NA	1.5	116344.27	40.91 NA		2.41 BDL		2.57
NA	NA	13.37	94976.02	94.24 NA		1.56 BDL		245.92
NA	NA	2.44	125901.69	34.9 NA		0.68	610.1	8.2
NA	NA	1.81	124445.95	46.96 NA		0.3	594.22	3.31
NA	NA	0.38	113796.49	42.7 NA	BDL		226.3	0.86
NA	NA	0.21	106726.17	34.59 NA		0.05	77.72	0.27
NA	NA	0.17	121491.55	33.95 NA		0.08	408	0.8
NA	NA	0.27	113191.19	32.35 NA		0.06	63.52	1.82
NA	NA	0.19	100364.74	27.34 NA	BDL	BDL		0.31
NA	NA	0.38	113144.17	38.13 NA	BDL		801.38	2.56
NA	NA	2.76	118928.46	60.38 NA		BDL	BDL	1.18
NA	NA	0.43	130466.26	60.37 NA	BDL	BDL		2.22
NA	NA	2.6	119004.82	101 NA		0.13	49.83	7.24
NA	NA	25.71	122475.9	89.2 NA		0.56 BDL		115.64
NA	NA	2.68	126361.3	97.7 NA	BDL	BDL		6.81
NA	NA	0.73	127770.09	61.97 NA		0.04	70.67	0.31
NA	NA	0.18	133587.14	78.12 NA	BDL	BDL		0.89
NA	NA	0.59	112730.9	24.42 NA		0.08	149.72	12.11
NA	NA	1.49	121272.52	60.43 NA	BDL		370.46	15.5
NA	NA	7.15	114139.91	81.45 NA		0.52	376.85	83.17
NA	NA	0.53	125073.83	45.4 NA	BDL		44.87	10.78
NA	NA	1.23	133550.84	66.16 NA		0.04 BDL		15.18
NA	NA	0.99	120969.16	56.03 NA		0.14	16	11.73
NA	NA	0.77	111623.7	56.11 NA		0.04	3763.51	4.5
NA	NA	2.64	121127.65	41.61 NA		0.56	10.72	38.29
NA	NA	3.94	117002.26	40.06 NA		2.41	98.4	34.35
NA	NA	11.07	119845.31	49.77 NA		1.03	1746.98	77.04
NA	NA	2.89	137373.59	37.85 NA		5.27 BDL		60.37

Lu_ppm	Mg_ppm	Mn_ppm	Mo_ppm	Na_ppm	Nd_ppm	Pb_ppm	Pr_ppm	Sb_ppm	
	0.22	37.7	2259.99	0.61	35.06	111.63	2.32	27.27	0.5
	0.45	69.63	3033.72	0.21	8.76	60.21	4.7	14.14	0.52
	0.42	105.6	2393.69	BDL	7.1	42.73	2	9.18	0.58
	0.35	61.22	1776.08	BDL	14.63	17.86	2.31	4.2	BDL
	0.25	124.42	2142.54	BDL	36.73	35.65	13.67	8.92	13
	0.56	64.27	1811.08	BDL	43.87	57.94	6.58	13.32	2.47
	0.42	97.31	5087.03	BDL	23.67	25.08	9.81	5.84	3.56
	0.68	60.73	1855.45	BDL	15.44	25.3	4.16	5.59	2.02
	0.03	53.99	2415.21	BDL		6.59	4.36	1.3	BDL
	0.22	260.81	3657.38	BDL	32.61	NA	24.3	NA	6
	1.23	502.74	6004.5	BDL	58.8	NA	55.38	NA	20.66
	0.27	433.49	6672.85	0.2	33.09	NA	52.67	NA	26.17
	0.16	364.97	6048.07	BDL	21.74	NA	56.56	NA	44.06
	0.16	409.19	4240.61	BDL	139.96	NA	33.29	NA	17.52
	0.34	1867.47	4463.97	BDL	57.23	NA	38.9	NA	36.57
	0.33	6435.24	5468.56	BDL	197.73	NA	39.19	NA	42.54
	0.1	402.22	5548.28	BDL	26.32	NA	116.11	NA	10.48
	0.71	434.17	6231.73	BDL	28.71	NA	124.84	NA	20.31
	0.63	1448.69	7179.2	BDL	52.83	NA	60.97	NA	10.07
	0.19	480.96	6349.69	BDL	21.26	NA	126.32	NA	17.62
	0.13	1186.92	4373.79	BDL	28.42	NA	51.53	NA	8.55
	0.09	318.47	4892.34	0.07	14.66	NA	48.44	NA	19.84
	0.18	507.16	4069.08	BDL	30.75	NA	78.39	NA	20.83
	0.44	424.59	6298.47	BDL	44.38	NA	311.58	NA	26.98
	0.69	336.84	6347.42	BDL	37.94	NA	251.25	NA	21.31
	0.08	747.11	5147.02	0.25	179.49	NA	81.3	NA	17.96
	0.07	505.2	6261.54	BDL	171.92	NA	74.97	NA	13.72
	0.55	1184.93	6082.01	BDL	499.27	NA	53.07	NA	21.7
	0.28	272.86	7077.35	BDL	31.96	NA	44.84	NA	3.65
	0.09	272.46	3278.37	BDL	12.26	NA	39.81	NA	11.01
	0.09	164.29	1758.4	BDL	9.95	NA	11.74	NA	2.7
BDL		44.56	616.26	BDL	6.54	NA	8.01	NA	0.75
	0.44	211.62	1117.38	BDL	104.86	NA	35.12	NA	16.01
BDL	0.76	2177.05	1945.05	0.61	35.75	NA	68.47	NA	30.87
		7151.74	2150.32	BDL	18.2	NA	31.23	NA	20.06
	0.03	292.69	3013.95	BDL	310.35	NA	61.61	NA	3.28
	0.07	9302.38	4889.31	BDL	19.18	NA	59.53	NA	2.55
	0.19	3601.13	5145.27	BDL	12.81	NA	54.11	NA	1.01
	0.13	11790.95	8137.78	BDL	38.05	NA	146.08	NA	3.13
	0.05	357.86	2905.98	BDL	284.67	NA	35.45	NA	6.86
	0.28	234.4	1988.72	BDL	12.58	NA	30.65	NA	5.8
	0.93	245.69	6296.05	BDL		NA	24.78	NA	30.72
	1.77	1238.49	8321.68	BDL	496.34	NA	402.88	NA	55.24
	1.56	598.84	8502.44	BDL	296.39	NA	49.73	NA	27.02
	1.8	1149.88	7639.02	BDL	43.94	NA	60.77	NA	93.52
	0.56	1312.34	5310.46	BDL	83.33	NA	86.97	NA	49.78
	0.37	371.33	1616.93	BDL	102.8	NA	70.14	NA	5.22
	1.03	439.87	2099.67	BDL	131.06	NA	25.51	NA	7.28
	0.13	460.26	2281.9	0.19	49.5	NA	44.04	NA	32.49
	0.62	1251.87	2547.96	BDL	283.92	NA	26.67	NA	9.82
	0.74	1051.31	2317.77	BDL	465.17	NA	52.66	NA	23.91
	0.33	162.82	2644.08	BDL	41.24	NA	46.02	NA	24.45
	0.83	388.36	2638.7	BDL	120.59	NA	39.21	NA	4.4
	1.69	239.02	1281.91	BDL	68.87	NA	4.97	NA	1.36
	0.54	169.37	2869.63	0.28	86.01	NA	8.04	NA	1.75
	0.12	146.05	1754.96	BDL	66.26	NA	2.99	NA	2.01
	0.29	212.98	1864.18	BDL	1196.9	NA	18.72	NA	1.78
BDL		254.32	1582.1	BDL	58.44	NA	2.69	NA	0.81
	0.1	169.04	1292.52	BDL	1224.65	NA	8.82	NA	0.66
	1.03	396.92	1795.15	BDL	262.4	NA	6.6	NA	1.61
	0.8	408.8	1845.86	BDL	36.3	NA	1.63	NA	BDL
	0.24	1194.83	4989.49	BDL	34.32	NA	53.77	NA	52.65
	0.27	718.12	2194.26	BDL	24.27	NA	28.85	NA	36.92
	0.14	571.25	2602.44	BDL	23.24	NA	35.86	NA	14.27
	0.13	6165.66	3070.04	0.25	143.63	NA	78.14	NA	37.36
	0.22	718.76	4484.57	BDL	21.87	NA	76.26	NA	233.76
	0.27	180.66	2658.04	BDL	106.42	NA	39.14	NA	13.78
	0.09	133.45	1075.2	0.13	32.53	NA	3.47	NA	0.9
	0.69	186.28	1821.57	BDL	136.13	NA	24.09	NA	3.81
	0.14	158.58	3161.74	BDL	62.51	NA	11.84	NA	5.01
	0.71	590.43	3269.06	BDL	96.94	NA	16.32	NA	5.58

	0.09	140.39	791.92	BDL		36.78	NA	4.81	NA	6.43
	0.38	287.22	1672.51	BDL		57.78	NA	8.25	NA	3.71
	0.07	297.32	1757.93	BDL		52.11	NA	2.3	NA	1.9
	0.23	180.31	2119.46	BDL		51.98	NA	1.57	NA	1.43
	0.15	202.76	3099.03		0.15	49.66	NA	5.95	NA	2.9
	0.12	188.14	1123.78	BDL		20.82	NA	0.92	NA	0.74
	0.8	469.18	2192.54	BDL		21.09	NA	38.79	NA	16.14
	0.69	246.81	1696.07	BDL		18.64	NA	35.89	NA	4.11
	1.02	1749.1	1600.03	BDL		83.95	NA	24.97	NA	6.88
	0.91	3176.83	1905.77		0.06	60.7	NA	26.44	NA	6.55
	0.97	248.51	1396.73	BDL		52.46	NA	17.62	NA	1.61
	0.75	209.37	1514.9	BDL	BDL		NA	14.46	NA	1.12
	1.06	154.14	2074.76	BDL		34.22	NA	33.26	NA	4.83
	0.97	145.64	2439.11	BDL		32.67	NA	29.97	NA	24.52
	1.33	170.28	1729.01	BDL		58.98	NA	3.89	NA	3.38
	0.92	161.49	1869.5	BDL		87.47	NA	17.08	NA	6.6
	1.08	699.47	2138.7	BDL		111.23	NA	19.35	NA	5.52
	1.82	107.52	1486.35	BDL		2464.73	NA	90.57	NA	17.76
BDL		785.61	4315.1	BDL		28.43	NA	149.84	NA	18.81
	0.33	1768.54	2549.91	BDL		29.66	NA	84.21	NA	39.7
BDL		354.64	2437.22	BDL		29.77	NA	162.08	NA	30.36
BDL		296.57	2757.5	BDL	BDL		NA	94.17	NA	7.44
BDL		707.8	1367.95	BDL		45.77	NA	117.93	NA	14.44
	0.02	1815.01	2142.99	BDL		36.68	NA	108.98	NA	21.1
BDL		777.51	4743.9	BDL		54.48	NA	188.87	NA	12.09
	0.04	1254.36	2224.47	BDL		76.7	NA	51.87	NA	3.74
BDL		233.45	2024.54	BDL		21.75	NA	39.66	NA	2.59
	0.92	495.98	4954.17	BDL		56.52	NA	61.92	NA	3.4
	0.14	367.26	3433.83	BDL		12.62	NA	22.28	NA	4.17
	0.16	653.93	5562.1	BDL	BDL		NA	62.51	NA	23.98
	0.32	2533.13	2804.43	BDL	BDL		NA	24.47	NA	10.28
	0.28	284.11	2427.89	BDL	BDL		NA	34.74	NA	18.91
	0.48	182.89	5107.11		0.38	138.15	NA	4.45	NA	2.37
	1.72	106.2	1389.92	BDL		26.27	NA	6.06	NA	1.02
	0.97	190.06	1981.19	BDL		67.11	NA	9.38	NA	0.55
	0.39	653.31	997.23	BDL		92.34	NA	13.28	NA	2.11
	0.47	141.62	2532.13	BDL		37.82	NA	6.65	NA	6.91
	1.47	271.05	1193.63	BDL		58.28	NA	7.71	NA	BDL
	0.64	122.58	1255.55	BDL		26.99	NA	5.32	NA	1.25
	1.08	765.38	1883.64	BDL		109.1	NA	33.21	NA	5.03
	0.76	357.89	2451.19	BDL		131.51	NA	20.82	NA	3.74
	0.18	172.31	8717.91	BDL		21.68	NA	112.62	NA	33.91
	1.19	181.19	6222.34	BDL		43.91	NA	78.23	NA	21.27
	0.37	450.57	4441.6	BDL		981.29	NA	96.2	NA	20.27
	0.15	424.6	5633.02	BDL		1639.58	NA	60.14	NA	7.8
	0.86	628.66	3657.04		0.06	350.68	NA	81.65	NA	29.81
	0.42	277.16	4927.41	BDL		3354.81	NA	151.13	NA	66.42
	0.1	1138.8	6495.61		0.17	2291.84	NA	112.69	NA	117.41
	0.19	400.42	3936.08		0.92	1237.81	NA	83.13	NA	17.32
BDL		115.95	1415.45	BDL		66.4	NA	5.68	NA	1.69
	0.07	137.34	2338.2	BDL		1353.91	NA	4.37	NA	0.82
	0.01	174.29	2561.93	BDL		1250.2	NA	3.88	NA	0.9
	0.48	144.92	1507.66		0.35	1403.76	NA	8.05	NA	1.53
	0.1	174.89	1569.22	BDL		512.35	NA	3.95	NA	0.82
	0.45	170.72	1984.36	BDL		1132.92	NA	7.85	NA	1.17
	0.04	158.13	2008.15		0.53	33.97	NA	12.96	NA	1.42
	0.13	139.67	1481.08		0.25	45.22	NA	13.58	NA	5.03
	0.29	40.13	1562.68		0.36	19.69	NA	15.22	NA	1.77
	0.28	79.73	2632.92		0.28	149.67	NA	24.84	NA	5.85
	0.08	97	2342.41		0.34	46.12	NA	8.84	NA	2.41
BDL		103.53	1772.34	BDL		30.96	NA	10.07	NA	1.85
	0.02	223.63	2271.4	BDL		2599.46	NA	3.76	NA	0.29
	0.32	203.96	1633.62	BDL		1390.96	NA	9.7	NA	1.64
	0.34	125.11	1623.94	BDL		141.17	NA	30.36	NA	9.78
	0.22	147.95	1253.25	BDL		184.31	NA	26.07	NA	3.15
	0.19	418.34	2352.56	BDL		485.08	NA	70.95	NA	40.71
	0.38	1140.46	2183.87	BDL		158.32	NA	73.94	NA	15.15
BDL		799.02	1715.32	BDL		209.93	NA	64.64	NA	18.98
	0.03	162.2	1449.16	BDL		149.3	NA	23.37	NA	2.8
	0.01	131.18	1104.71		0.15	358.01	NA	4.89	NA	BDL
	0.03	130.79	1222.19	BDL		384.14	NA	17.45	NA	1.88
BDL		196.25	1255.55	BDL		458.59	NA	10.14	NA	2.41
BDL		176.02	1784.96	BDL		55.64	NA	3.54	NA	BDL

0.18	176.36	1511.95	BDL		323.3	NA	19.46	NA	4.99
0.05	203.53	1407.97	BDL		119.38	NA	6.13	NA	0.97
0.03	373.59	6267.08	BDL	BDL		NA	10.02	NA	0.9
0.21	257.58	9077.53	BDL		10.91	NA	21.95	NA	10.18
1.06	8155.84	17098.94		0.24	91.45	NA	145.74	NA	33.52
2.66	1077.89	10675.5		0.22	123.34	NA	135.18	NA	42.22
0.55	11176	16363.54		0.32	28.72	NA	122.69	NA	36.57
1.68	226.84	8905.77		0.21	BDL	NA	21.91	NA	23.7
1.03	268.38	8806.74	BDL		20.35	NA	95.94	NA	155.86
4.76	8071.63	16154.69		0.36	76.04	NA	310.03	NA	36
0.02	493.2	7178.96		0.16	8.14	NA	57.2	NA	1.38
0.95	797.13	1911.53		0.1	71.21	NA	31.46	NA	5.59
0.91	186.62	2490.29	BDL		72.33	NA	41.15	NA	6.65
1.09	79.06	1785.45		0.16	235.96	NA	61.95	NA	3.9
0.96	100.4	1897.7	BDL		134.11	NA	73.54	NA	2.9
0.92	123.19	1639.86	BDL		278.97	NA	95.09	NA	2.73
1.2	131.21	2019.98		0.12	93.56	NA	91.92	NA	6.19
1.29	447.26	2407.19	BDL		112.22	NA	68.79	NA	4.4
1.56	213.23	1772.28	BDL		47.72	NA	64.56	NA	7.43
0.68	146.62	1406.16	BDL		59.72	NA	31.61	NA	5.78
0.36	204.6	1719.15	BDL		71.52	NA	14.64	NA	6.06
2.46	186.9	1891.96		0.36	95.95	NA	73.82	NA	13.61
3.13	121.45	1433.71		0.28	78.19	NA	47.5	NA	11.61
2.42	78.1	1440.63		0.2	49.91	NA	64.62	NA	9.1
2.83	134.43	1675.41		0.3	73.16	NA	61.35	NA	10.4
0.17	111.28	557.6	BDL		65.25	NA	17.97	NA	1.69
0.06	60.85	584.9	BDL		22.93	NA	7.2	NA	0.47
0.09	51.45	637.19	BDL		35.12	NA	30.82	NA	2.12
2.73	11916.5	9508.76		0.24	61.33	NA	67.75	NA	14.49
4.34	6129.75	7561.05	BDL		82.84	NA	126.09	NA	17.43
2.93	16840.58	10823.41	BDL		77.35	NA	105.03	NA	14.68
2.68	16976.98	10920.48		0.22	159.31	NA	81.74	NA	8.58
4.05	6135.61	8177.85	BDL		96.56	NA	93.91	NA	8.34
3.43	6297.66	7812.68	BDL		172.66	NA	83.13	NA	13.14
0.32	138.92	3399.38	BDL		55.37	NA	5.82	NA	1.34
0.54	896.51	2899.03	BDL		48.99	NA	5.1	NA	0.77
0.37	160.45	2464.51	BDL		33.25	NA	9.03	NA	3.03
0.32	1079.83	4183.13		0.14	85.51	NA	4.69	NA	0.77
1.07	2062.35	3328.74		0.28	50.45	NA	23.86	NA	5.22
0.44	137.31	2402.78		0.18	138.55	NA	9.46	NA	3.3
0.98	2520.78	3700.2	BDL		74.37	NA	18.91	NA	4.26
0.26	100.1	2464.67		0.18	85.61	NA	14.02	NA	4.54
0.57	70.59	1860.03		0.13	59.01	NA	28.03	NA	5.34
0.38	112.61	4096.52	BDL		35.74	NA	10.33	NA	3.03
0.27	10549.26	3956.14	BDL		232.05	NA	20.48	NA	11.17
0.19	244.12	3118.16		0.34	87.03	NA	16.18	NA	1.33
0.2	53.92	1120.38		0.11	78.34	NA	11.73	NA	1.69
0.27	93.38	1393.86		0.31	69.08	NA	12.18	NA	1.13
0.19	75.46	1412.26		0.25	110.49	NA	45.35	NA	0.37
0.37	84.95	1123.55		0.17	82.57	NA	12.26	NA	1.37
0.22	217.95	3173.88		0.72	98.86	NA	44.51	NA	3.09
0.84	250.06	3922.23	BDL		43.64	NA	228.85	NA	26.35
0.08	133.24	2669.54		0.13	240.61	NA	95.26	NA	11.4
0.93	124.45	3676.35	BDL		15.44	NA	145.91	NA	23
0.11	148.16	3312.21	BDL		68.49	NA	97.74	NA	8.61
0.09	147.5	3517.58	BDL		48.49	NA	146.84	NA	23.09
0.27	114.11	2785.14	BDL		163.08	NA	89.84	NA	13.42
0.37	242.94	4668.67	BDL		50.18	NA	137.59	NA	17.48
0.16	254.85	4105.26		0.09	24.59	NA	127.67	NA	18.31
0.57	672.16	3261.37		0.4	270.69	NA	29.78	NA	3.16
0.64	693.03	3608.78		0.49	92.29	NA	36.84	NA	3.32
0.48	900.22	3891.85		0.85	76.96	NA	15.15	NA	2.83
0.57	714.97	3837.25		1.17	75.88	NA	38.24	NA	3.66
0.09	182.65	1643.5	BDL	BDL		NA	102.93	NA	114.45
0.82	1054.29	3443.06		0.3	153.93	NA	47.89	NA	4.25
0.5	1990.93	3981.08		0.53	303.37	NA	23.78	NA	3.26
0.95	833.15	3917.08		1.21	202.99	NA	37.84	NA	4.68
0.56	211.97	2908.3	BDL		37.26	NA	4.62	NA	9.4
0.56	127.2	1886.46		0.11	28.96	NA	23.73	NA	2.26
0.89	92.37	1113.66	BDL		68.08	NA	12.02	NA	1.57
0.34	226.99	1218.07		0.37	18.28	NA	20.94	NA	10.51
0.93	110.43	1653.96	BDL	BDL		NA	22.6	NA	4.39
1.06	89.59	1731.53		0.1	52.83	NA	45.6	NA	4.49

	1.25	101.9	1610.95	0.08	29.32	NA		37.55	NA	4.87
	1.03	61.42	1400.51	BDL	57.69	NA		50.02	NA	3.29
	1.04	98.81	1221.97	BDL	10.49	NA		23.19	NA	1.2
	0.22	215.79	4328.66	BDL	1791.36	NA		15.3	NA	11.31
	0.16	201.14	4327.15	0.19	1452.86	NA		13.66	NA	9
	0.41	178.33	2945.81	0.12	896.87	NA		12.08	NA	8.07
	0.09	321.58	4230.61	BDL	438.96	NA		15.85	NA	6.26
	0.47	358.52	2174.06	0.34	253.01	NA		10.11	NA	4.33
	0.52	428.52	2140.21	BDL	867.88	NA		12.7	NA	5.68
	0.52	1165.39	2747.03	0.41	963.7	NA		21.16	NA	14.94
	0.33	381.87	1859.38	BDL	2133.79	NA		22.29	NA	17.43
	0.16	578.47	2572.64	BDL	407.58	NA		40.54	NA	5.8
	0.42	340.44	2268.58	BDL	125.36	NA		41.87	NA	7.25
	0.52	674.84	2414.62	BDL	44.76	NA		43.51	NA	21.67
	0.08	387.02	2780.15	BDL	24.15	NA		17.81	NA	2.94
	0.19	678.63	2996.02	0.19	BDL	NA		28.96	NA	8.04
BDL		992.94	3822.34	BDL	406.57	NA		35.28	NA	12.23
	0.02	378.11	3235.41	BDL	BDL	NA		60.06	NA	63.42
BDL		303.63	769.57	0.18	BDL	NA		7.55	NA	0.54
	0.08	650.64	1666.27	BDL	BDL	NA		13.45	NA	2.53
	1.2	338.22	3465.7	BDL	49.44	NA		63.91	NA	83.84
	0.87	268.87	2329.69	0.5	47.28	NA		44.62	NA	9.15
	0.81	318.84	2867.07	BDL	41.51	NA		24.78	NA	4.87
	1	828.8	3055.3	1.29	96.68	NA		30.98	NA	7.18
	0.04	64.19	1463.36	BDL	BDL	NA		2.03	NA	0.27
	0.73	126.75	2110.03	12.56	39.32	NA		6.42	NA	1.03
	1.09	172.45	1889.07	BDL	18.66	NA		9.61	NA	3.89
	0.03	65.91	1743.49	BDL	56.81	NA		5.33	NA	0.35
	0.35	276.55	1846.76	0.15	138.06	NA		10.61	NA	1.06
BDL		67.69	1079.95	BDL	76.49	NA		2.24	NA	BDL
	0.04	132.22	1987.12	0.21	36.86	NA		13.07	NA	1.37
	1.29	260.51	3987.72	BDL	41.72	51.45	7.94	11.55		10.06
	0.56	135.32	2338.81	BDL	37.72	64.8	32.24	14.18		14.14
	0.92	1028.31	3544.88	BDL	13.4	37.94	15.8	9.25		8.28
	0.14	5885.56	4865.53	BDL	26.53	6.63	36.91	1.65		23.48
	0.05	2239.99	4464.06	BDL	29.01	0.54	35.64	0.15		17.79
	0.06	8422.38	6325.63	BDL	41.9	2.22	74.69	0.45		20.41
BDL		914.05	2981.73	BDL	30.54	0.74	77.5	0.19		4.77
	0.11	84.87	2408.37	BDL	11.18	7	3.11	1.54		8.47
	0.43	56.23	1547.44	BDL	17.01	23.37	2.9	5.47		2.44
	0.95	507.32	2192.24	BDL	28.79	82.9	8.06	20.12		7.37
	0.39	395.01	3824.19	BDL	44.07	56.22	11.26	13.55		3.65
	0.36	185.58	2374.57	BDL	27.58	35.44	3.78	8.93		3.51
	0.47	113.18	2089.99	BDL	16.18	44.32	4.57	10.66		1.93
	0.18	1279.89	2877.37	BDL	307.39	5.12	90.02	1.13		49.82
	0.2	1387.83	3440.76	BDL	286.35	12.58	52.79	2.69		25.53
	0.85	402.22	1759.94	BDL	27.45	112.91	17	27.88		7.58
	0.81	106.77	3503.55	BDL	13.12	71.9	2.8	18.05		3.18
	4.82	840.42	3474.55	BDL	BDL	685.22	57.77	171.53		59
	2.13	2879.2	3676.23	BDL	65.55	416.02	65.13	106.5		43.04
	1.91	1434.07	3845.1	BDL	82.44	1332.84	59.1	349.05		15.62
	1.06	1633.82	4979.33	BDL	47.36	362.2	55.3	96.09		10.94
	1.56	752.34	4128.36	BDL	79.55	311.64	63.57	78.83		13.23
	0.22	476.39	4906.55	BDL	79.76	122.16	56.89	29.91		12.49
	0.08	244.15	3087.08	BDL	306.72	146.54	46.86	38.65		11.03
	0.24	349.53	2101.12	BDL	614.19	939.01	57.16	238.56		13.81
	0.9	260.61	2599.26	BDL	722.19	378.26	43.95	91.23		13.07
	0.05	174.07	1920.6	BDL	280.21	66.57	40.89	18.29		20.8
	0.09	175.95	2470.66	BDL	1016.61	80.65	48.79	21.32		17.92
	0.17	487.65	3954.6	BDL	12.36	0.23	177.05	0.11		3.96
BDL		2018.73	7605.73	BDL	41.02	3.89	303.08	1.18		36.57
	0.05	327.44	3842.14	BDL	15.87	0.72	448.87	0.19		58.14
	0.02	406.99	5328.72	BDL	216.41	0.67	230.54	0.15		58.43
	0.11	318.97	5608.41	BDL	BDL	0.6	346.48	0.13		27.2
	0.9	123.23	1453.45	BDL	64.37	49.93	8.39	10.38		1.25
	0.04	152.2	2132.28	BDL	14.45	0.64	16.2	0.12		0.82
	0.25	93.88	1026.68	BDL	68.84	16.24	9.68	4.39		1.45
	0.12	154.17	940.12	BDL	320.85	9.98	3.1	2.44		0.28
	0.5	137.97	1044.48	BDL	845.19	175.39	3.6	42.2	BDL	
	0.07	189.42	2179.95	BDL	364.05	50.89	15.64	12.84		3.65
	0.06	141.32	3070.47	BDL	113.75	5.35	16.81	1.51		1.72
	0.06	151.27	1653.59	BDL	142.81	5.16	17.54	1.22		2.64
	0.01	193.17	2703.07	BDL	76.33	2.65	25.08	0.53		0.62

	0.05	283.48	1992.46	BDL		161.48	5.63	19.72	1.32	4.8
	4.48	653.81	1823.52	BDL		187.32	BDL	6.28	BDL	1.67
	0.24	129.6	1569	BDL		281.34	25.56	6.41	6.78	0.26
	0.23	221.23	1460.33	BDL		578.13	14.15	8.46	3.57	BDL
	0.4	219.6	2017.63	BDL		335.08	15.98	4.6	4.34	BDL
	0.01	406.72	15513.73	BDL		18.18	0.21	31.42	0.03	12.29
	0.45	273.63	8882.78	BDL		10.81	3.63	46.51	0.92	26.52
	0.09	126.54	1104.59	BDL		241.65	7.13	6.67	1.91	0.58
	0.36	1940.65	1498.99	BDL		748.43	19.42	7.28	4.6	0.27
	1.75	557.14	4202.02	BDL	BDL	NA		16.95	NA	4.46
	1.59	556.07	8487.97	BDL		36.51	NA	60.25	NA	125.93
	0.71	755.43	6216.67	BDL		53.57	NA	35.47	NA	13.2
	0.29	505.07	6344.86	BDL		18.71	NA	29.07	NA	15.7
	0.1	377.25	3310.24	BDL		456.21	NA	19.16	NA	8.43
	0.87	214.4	7587.76	BDL		40.05	NA	27.36	NA	258.23
BDL		238.53	1384.7	BDL	BDL	NA		54.44	NA	9.1
	0.94	226.8	3521.47		0.11	44.71	NA	20.28	NA	8.76
	0.03	382.23	3135.02	BDL		348.35	NA	38.05	NA	6.46
	0.07	2959.21	3148.32		0.2	1486.84	NA	31.06	NA	3.32
	0.03	294.58	2399.03	BDL		71.5	NA	24.2	NA	1.45
	0.03	134.2	3780.91	BDL	BDL	NA		20.14	NA	1.01
	0.11	317.3	1485.75	BDL		30.27	NA	23.74	NA	15.62
	0.13	346.1	2720.25	BDL		92.4	NA	25.53	NA	11.61
	0.1	380.38	1944.94	BDL		64.57	NA	12.51	NA	7.34
	0.21	565.82	2085.63	BDL		51.84	NA	14.69	NA	2.6
	0.44	397.49	1411.99	BDL		102.31	NA	16.54	NA	5.37
	0.16	605.04	1709.75	BDL		948.83	NA	16.39	NA	7.49
	0.37	479.6	1521.38	BDL		865.7	NA	19.79	NA	5.3
	0.39	539.44	1414.37		0.21	1004.54	NA	17.04	NA	22.49
	3.05	112.07	2279.24	BDL	BDL	NA		55.93	NA	1.21
	5.06	210.33	1770.15	BDL		17.03	NA	289.85	NA	78.12
	1.72	107.61	3876.02	BDL		11.82	NA	165.64	NA	4.49
	4.56	2703.81	3921.46	BDL		148.13	NA	69	NA	56.51
	0.96	2075.6	3251.34		4.12	119.45	NA	56.74	NA	26.23
	3.63	10891.05	4034.16	BDL		671.25	NA	59.51	NA	33.26
	0.71	5724.86	2339.23	BDL		208.43	NA	39.72	NA	34.4
	0.4	6643.92	3051.17	BDL		2232.75	NA	84.27	NA	55.69
	0.28	387.29	2610.44	BDL	BDL	NA		248.19	NA	6.37
	0.26	211.44	2536.29	BDL		27.41	NA	271.45	NA	8.74
	0.16	345.05	4040.9	BDL	BDL	NA		172.64	NA	1.27
	0.34	234.81	1584	BDL		25.12	NA	158.84	NA	2.15
	1.14	447.13	2794.44	BDL		70.03	NA	377.05	NA	13.49
	0.49	343.22	3523.45		0.27	126.36	NA	312.28	NA	12.5
	0.26	1812.28	1644.66	BDL		279.3	NA	150.26	NA	9.11
	0.22	394.8	3129.02		0.18	46.3	NA	314.24	NA	12.83
	0.5	253.63	1419.94	BDL	BDL	NA		197.84	NA	3.56
	0.31	192.2	1420.93	BDL	BDL	NA		255.29	NA	10.6
	0.11	330.69	3096.24	BDL	BDL	NA		271.14	NA	3.85
	0.38	4043.27	1981.33	BDL		212.05	NA	50.22	NA	12.78
BDL		892.2	1093.2	BDL		1857.86	NA	21.24	NA	7.7
BDL		629.41	1767.23	BDL		1111.96	NA	26.28	NA	8.88
BDL		779.25	1408.89	BDL		230.4	NA	18.59	NA	2.88
	0.01	772.47	2079.1	BDL		387.87	NA	25.28	NA	8.67
	0.19	6517.73	2328.18	BDL		271.71	NA	35.43	NA	17.7
	0.03	262.67	988.14	BDL	BDL	NA		27.16	NA	17.76
	0.02	165.46	2072.48	BDL		1516.37	NA	7.91	NA	1.46
	0.39	57.87	911.26	BDL		18.64	NA	11.25	NA	17.48
	0.18	357.54	2188.23	BDL	BDL	NA		45.52	NA	33.95
BDL		447.2	1092.65	BDL	BDL	NA		41.12	NA	10.2
	0.03	180.33	2451.65	BDL		577.22	NA	4.49	NA	0.79
	0.02	185.88	4524.2		0.25	724.24	NA	5.38	NA	0.76
	0.03	174.01	2684.62	BDL		893.87	NA	4.96	NA	0.73
	0.34	200.94	2154.79	BDL		277.06	NA	6.5	NA	0.93
	0.21	474.91	3854.58	BDL		150.45	NA	37.38	NA	7.69
	0.37	415	3322.22	BDL		653.74	NA	48.03	NA	15.19
	0.49	596.6	3128.06		0.37	468.32	NA	54.98	NA	26.13
	0.05	541.71	9866.57		0.17	BDL	NA	35.42	NA	1.56
	0.3	914.89	2700.13	BDL		569.85	NA	33.89	NA	6.34
	0.34	624.29	2934.19		0.33	491.16	NA	57.4	NA	12.39
	0.4	54.34	1873.88	BDL		222.74	NA	8.93	NA	8.44
	0.4	140.71	1962.44		0.24	98.17	NA	15.93	NA	2.32
	0.61	143.53	1206.71	BDL		135.92	NA	7.6	NA	0.32
	0.06	28.53	1496.82	BDL		19.5	NA	5.48	NA	2.62

	0.03	32.21	7256.47	0.19	33.36 NA		11.02 NA		2.9
	0.73	366.78	1366.35 BDL		56.71 NA		4.97 NA		0.13
	0.44	162.29	2016.86	0.34	189.13 NA		18.16 NA		9.33
	0.55	150.5	1493.6 BDL	BDL	NA		3.34 NA	BDL	
	0.38	84.82	1707.23 BDL		13.89 NA		5.14 NA	BDL	
	0.44	150.73	2724.75	0.2	379.24 NA		4.2 NA	BDL	
	0.34	29.35	2122.32 BDL		167.22 NA		30.74 NA		28.83
	0.41	92.8	1854.4 BDL		29.06 NA		21.92 NA		4.03
	0.7	99.48	1532.51 BDL		54.23 NA		5.3 NA		1.06
	0.47	71.01	1303.07 BDL		23.17 NA		3.51 NA		0.22
	0.47	54.67	1240.76 BDL		25.34 NA		5.76 NA		0.86
	1.09	127.77	1297.42 BDL		68.34 NA		11.09 NA		8.46
	0.28	180.58	3687.87 BDL		93.36 NA		4.15 NA		1.05
	0.44	256.04	1311.27 BDL		27.02 NA		9.77 NA		0.89
	0.33	82.81	1175.44 BDL		54.36 NA		3.83 NA		1.13
	0.46	54.11	847.49 BDL		31.96 NA		2.5 NA		1.9
	0.54	263.96	1484.18	0.19	25.86 NA		169.54 NA		10.05
	0.5	242.9	1567.34 BDL		213.58 NA		117.17 NA		35.22
	0.42	217.71	3555.14 BDL		383.24 NA		97.58 NA		90.98
BDL		317.24	2255.7 BDL		22.52 NA		140.26 NA		4.28
	0.28	277.72	402.44 BDL	BDL	NA		13.34 NA		1.23
BDL		408.63	857.8 BDL	BDL	NA		46.24 NA		5.09
	0.02	1631.58	2265.56 BDL		38.59 NA		107.4 NA		24.21
	0.08	1867.87	2936.59 BDL		36.12 NA		112.05 NA		12.36
	0.05	2545.7	1806.14 BDL		27.64 NA		124.71 NA		19.67
	0.24	1507.41	2001.6	0.28	55.09 NA		339.28 NA		9.08
	0.01	420.49	2258.07 BDL	BDL	NA		79.92 NA		13.35
	0.96	380.79	1976.9 BDL		540	32.57	362.06	6.23	16.79
	0.46	1220.42	1709.69 BDL		21.37	27.67	207.69	6.64	5.82
	0.42	301.92	2148.56 BDL	BDL		5.08	332.26	1.16	14.98
	0.27	199.3	6304.64 BDL	BDL		11.52	289.71	2.58	9.88
	0.31	1073.02	2902.68	0.47	20.18	18.75	205.86	4.23	5.23
	0.29	141.51	6264.59	0.41	17.5	12.92	205.33	2.97	3.22
	0.58	2544.38	1551.61 BDL		63.56	17.89	321.15	3.76	12.76
	1.24	155.75	1786.06 BDL	BDL		147.48	640.18	34.08	32.52
	0.75	271.24	3354.83 BDL		171.62	30.4	222.52	6.23	5.06
	0.8	1552.12	1982.29	0.48 BDL		6.96	257.47	1.23	9.03
	0.31	395.65	2578.66 BDL		27.64	4.6	374.96	0.84	18.34
	0.56	9589.59	2681.53	0.29	212.72	26.61	171.79	5.83	4.04
	0.24	2930.4	1702.65 BDL		15.17	4.59	164.5	1.02	3.36
	0.38	282.01	2558.55 BDL	BDL		3.23	333.48	0.7	9.15
	0.68	874.48	4194.23 BDL		30.28	23.53	251.02	5.18	6.07
	0.28	2204.8	2878.65	0.45	30.53	7.76	229.32	1.9	7.52
	0.76	733.56	2363.29 BDL		2854.02	20.49	233.67	4.19	5.11
	0.32	3885.48	2062.23	0.33	51.59	18.02	173.51	4.26	2.73
	0.58	3673.35	3408.52 BDL		72.34	7	333.89	1.78	13.84
	0.24	246.79	1907.07	0.55	270.11	16.93	29.66	3.85	0.46
	0.21	826.31	2383.55	0.29	205.82	19.71	32.3	4.59	0.32
	0.22	201.7	4708.92	0.19	52.75	17.97	22.74	4.41	0.41
	0.44	1133.11	2494.61	0.73	92.47	18.62	31.28	4.23	0.92
	0.8	238.09	888.37 BDL	BDL		7.14	13.07	1.53 BDL	
	0.1	309.37	8252.32 BDL	BDL		8.75	33.44	2.27	0.35
	0.04	165.49	649.32 BDL	BDL		1.49	9.96	0.3 BDL	
	0.67	3108.93	2545.97 BDL		84.99	8.2	17.4	1.93	0.24
	0.04	181.49	3013.42 BDL	BDL		4.55	66.29	1.09	1.96
	0.22	1134.02	2536.97	0.25	97.32	12.94	26.24	3.06	0.44
	0.31	131.53	1004.73 BDL		166.36	16.17	16.48	3.6	0.33
	0.15	180.59	2020.5	0.26	21.33	2.5	71.36	0.47	2.18
	0.28	1364.48	1537.36 BDL		259.21	6.48	150.58	1.37	5.84
	0.1	803.32	2354.03	0.32	38.82	13.17	74.19	3.87	3.5
	0.29	147.93	2039.96 BDL		36.54	6.55	67.95	1.3	2.04
	0.2	97.98	2058.71 BDL		340.01	2.08	214.57	0.45	9.95
	0.16	75.86	1448.1 BDL		340.11	1.72	195.04	0.38	8.53
	0.08	71.18	1894.35 BDL		314.59	1.01	209.12	0.19	8.66
	0.35	97.68	2326.67 BDL		31.42	6.54	256.49	1.55	21.14
	0.27	80.53	2135.06 BDL		47.63	64.88	147.55	15.02	4.14
	0.2	68.36	853.88 BDL		11.98	32.69	260.93	6.6	2.54
	0.69	47.09	242.22 BDL	BDL		4.84	16.85	0.83 BDL	
	0.19	4128.43	2159.73 BDL		34.7	6.24	78.88	1.57	2.42
	0.27	1076.42	2156.12	0.37	14.85	3.23	77.79	0.8	2.22
	0.13	1569.16	1468.32 BDL		27.59	1.58	42.32	0.35	0.3
	0.59	2124.76	2631.93 BDL		70.85	13.27	74.96	3.12	1.38
	0.04	52.41	1206.58 BDL	BDL		1.38	37.36	0.28 BDL	

	1.3	171	5955.2	BDL		54.74	NA	47.52	NA	3.31	
	0.8	1626.18	6386.27		0.12	267.84	NA	73.75	NA	32.22	
	0.76	81.3	5985.39	BDL		BDL	NA	17.79	NA	1.53	
	0.74	164.11	2782.06		0.08	25.35	NA	14.24	NA	BDL	
	2.36	385.33	6627.48		0.11	BDL	NA	29	NA	0.85	
	0.46	93.33	1993.63	BDL		BDL	NA	7.16	NA	0.29	
	0.31	53.57	3148.48	BDL			220.06	NA	15.36	NA	2.68
	0.05	81.94	2145.01		0.1		8.23	NA	10.83	NA	2.27
	0.01	324.43	2468.63	BDL			1672.02	NA	66.25	NA	6.43
BDL		150.14	1312.95	BDL			131.73	NA	19.72	NA	0.27
	0.15	521.69	4642.78	BDL			104.56	NA	78.84	NA	8.13
	0.39	425.93	1266.89		0.39		24.03	NA	20.27	NA	1.3
	0.17	487.4	4942.69		0.87		133.27	NA	48.18	NA	2.12
	0.03	404.32	2861.69	BDL			63.49	NA	34.71	NA	15.57
	0.46	1054.39	5014.26	BDL			1231.14	NA	54.77	NA	8.03
	0.02	238.86	1250.4	BDL			146.27	NA	19.25	NA	0.47
	0.15	153.77	4650.93		0.06		298.85	NA	55.77	NA	2.27
	0.86	11057.14	4706.69	BDL			1020.08	NA	53.29	NA	30.75
	3.21	2925.07	13082.27		0.23		75.14	NA	212.96	NA	24.32
	7.66	1483.78	23630.54		0.46		1300.7	NA	144.95	NA	33.13
	7.76	2281.39	17636.44		0.52		544.31	NA	146.75	NA	50.97
	7.81	728.52	25375.14		0.35		1175.46	NA	146.06	NA	39.14
	5.13	787.57	18437.11		0.2		142.8	NA	128.3	NA	42.44
	5.58	1313.99	21680.59		0.41		2430.03	NA	135.57	NA	45.08
	5.34	816.67	7287.81	BDL			3952.4	NA	100.06	NA	19.09
	5.94	471.8	5524.51	BDL			55.5	NA	74.46	NA	5.76
	0.26	682.36	1629.88	BDL			165.05	NA	18.71	NA	2.82
	4.57	1428.45	4965.9	BDL		BDL	NA		68.02	NA	16.94
	16.56	5470.74	7386.73	BDL		BDL	NA		108.26	NA	37.88
BDL		160.31	11527.19	BDL			165.25	NA	26.73	NA	2.89
	0.28	521.05	9570.05	BDL			1839.63	NA	37.04	NA	17.93
	0.87	281.72	8353.07	BDL		BDL	NA		33.63	NA	16.06
	0.55	223.5	11366.08		0.24	BDL	NA		30.21	NA	9.4
	0.02	514.75	2641.12		0.18		181.56	NA	28.23	NA	3.02
	1.53	166.35	3065.79	BDL			54.47	NA	65.84	NA	18.5
	2.3	111.84	3511.92		0.26	BDL	NA		30.56	NA	2.59
	0.49	651.88	5170.55		0.26		77.19	NA	24.96	NA	10.28
	0.75	4019.77	9025.05	BDL			59.17	NA	74.08	NA	29.1
	0.3	223.61	885.83	BDL		BDL	NA		7	NA	BDL
	2.42	325.04	4440.71	BDL			29.96	NA	32.21	NA	10.04
	1.48	333.48	3532.99	BDL		BDL	NA		22.95	NA	2.27
	0.8	371.14	2020.51	BDL			59.23	NA	13.59	NA	3.35
	0.09	271.16	667.45	BDL		BDL	NA		8.75	NA	0.51
	0.02	515.77	6847.85	BDL		BDL	NA		17.85	NA	0.27
	0.03	630.03	7081.87	BDL		BDL	NA		22.05	NA	0.66
	0.03	206.56	11295.63	BDL		BDL	NA		31.7	NA	0.24
	0.06	250.57	6023.25	BDL			338.52	NA	118.9	NA	7.98
	0.05	90.33	4685.94	BDL		BDL	NA		106.75	NA	23.41
	0.05	47.78	3777.52	BDL		BDL	NA		14.83	NA	BDL
	0.07	219.63	4108.92	BDL			61.55	NA	21.99	NA	0.2
	0.1	156.47	6048.08	BDL			56.61	NA	66.34	NA	2.16
	0.06	2295.48	6841.8	BDL			114.91	NA	50.75	NA	15.23
	0.36	3627.49	3101.33	BDL			243.71	NA	38.5	NA	20.89
	0.16	660.99	7556.4	BDL			224.47	NA	26.41	NA	29.4
	0.32	482.68	2570.04	BDL			82.05	NA	20.32	NA	11.99
	0.1	611.28	3673.42	BDL			342.04	NA	31.7	NA	42.67
	0.52	458.66	3238.68	BDL			156.68	NA	19.39	NA	40.67
	0.02	536.59	3262.7	BDL		BDL	NA		55.13	NA	4.06
	0.23	323.85	8769.38	BDL		BDL	NA		69.61	NA	6.23
	1.39	481.2	4877.39		0.2	BDL	NA		53.42	NA	1.18
	2.34	671.2	6290.48	BDL		BDL	NA		36.21	NA	1.23
	2.27	508.97	3422.29	BDL		BDL	NA		47.7	NA	1
	0.78	907.39	3061.4	BDL			36.47	NA	39.53	NA	1.24
	8.25	446.92	5524.27	BDL		BDL	NA		23.34	NA	9.12
	15.58	839.22	5717.7	BDL			78.58	NA	37.89	NA	17.63
	13.79	574.64	8074.54	BDL			2606.53	NA	24.37	NA	21.13
	1.85	188.83	6228.86	BDL		BDL	NA		20.23	NA	0.27
	1.06	1550.79	8288.17	BDL			234.52	NA	63.94	NA	6.97
	0.14	892.71	2941.58	BDL			146.18	NA	76.25	NA	7.15
	2.08	930.77	3322.52	BDL			43.4	NA	94.7	NA	2.25
	0.42	675.78	3713.74	BDL			720.51	NA	72.24	NA	5.24
	0.31	481.68	2100.45	BDL			102.67	NA	9.89	NA	2.01
	0.04	283.1	1679.8	BDL		BDL	NA		2.71	NA	BDL

	0.08	301.57	2261.38	BDL	BDL	NA	4.08	NA	BDL	
	0.06	467.06	1991.01	BDL	BDL	NA	8.04	NA		0.31
BDL		714.62	6223.12		0.22	BDL	NA	38.56	NA	12.7
BDL		460.14	11710.36		0.31	2603.85	NA	45.7	NA	5.04
	0.1	345.54	3003.65		0.22	185.37	NA	16.61	NA	2.02
	0.03	162.9	2228.67	BDL	BDL	NA	4.37	NA	BDL	
	0.03	397.9	1694.1	BDL	BDL	NA	6.11	NA	BDL	
	0.03	587.58	3303.29	BDL	BDL	NA	9.59	NA		1.2
	0.02	575.39	9503.13	BDL	BDL	NA	25.88	NA		5.41
BDL		452.13	4358.58	BDL	BDL	NA	12.92	NA		1.63
	0.03	439.56	8107.66	BDL	BDL	NA	29.55	NA		21.93
	0.12	345.74	10707.12	BDL		65.31	NA	55.29	NA	35.42
	0.04	610.53	4406.16	BDL	BDL	NA	20.5	NA		3.87
	0.07	341.64	4302.4		0.18	BDL	NA	65.44	NA	5.29
	0.16	901.09	9382.98	BDL	BDL	NA	31.99	NA		26.57
	0.6	1095.94	10719.1		0.47	98.14	NA	61.34	NA	39.4
BDL		183.67	8044.06	BDL	BDL	NA	34.39	NA		34.27
	0.05	468.25	7251.29	BDL	BDL	NA	54.55	NA		37.06
	0.25	884.59	5706.73	BDL	BDL	NA	33.78	NA		36.48
	0.63	9123.17	2562.42		0.31	55.01	NA	164.19	NA	15.82
	0.57	11428.01	3008.59		0.48	63.09	NA	153.15	NA	18.87
	0.78	9789.12	3299.48		0.48	68.74	NA	195.44	NA	24.39
	1.03	1334.88	2901.05	BDL		54.07	NA	360.91	NA	43.68
	0.73	3929.95	1814.72	BDL		65.42	NA	220.98	NA	44.02
	0.85	4735.33	1646.7	BDL		41.25	NA	176.16	NA	17.46
	0.6	6542.59	2204.95		0.22	63.05	NA	139.39	NA	21.99
	0.38	4565.31	1560.29		0.4	43.75	NA	261.89	NA	17.55
	0.01	385.05	165.79	BDL		116.84	NA	13.56	NA	BDL
	0.48	4357.85	1889.37		0.12	45.22	NA	204.98	NA	16.91
	0.4	2821.53	1479.34		0.4	31.65	NA	202.88	NA	20.73
	0.95	737.06	7125.97		0.14	841.08	NA	96.82	NA	6.06
BDL		751.84	12575.82	BDL		1032.45	NA	112.14	NA	8.56
	0.63	901.9	6370.47	BDL		118.82	NA	112.55	NA	12.87
	0.03	187.38	6136.85	BDL		32.51	NA	119.77	NA	12
	0.09	823.36	6676.1		0.16	199.56	NA	180.01	NA	25.41
	0.17	232.44	7356.13		0.14	35.99	NA	127.81	NA	10.97
	0.38	418.1	3770.03	BDL		112.2	NA	69.27	NA	11.76
	0.22	287.69	3000.58	BDL		159.19	NA	88.51	NA	11.57
	0.16	4784.31	10559.33	BDL		41.69	NA	51.73	NA	0.72
	0.05	306.77	1581.83	BDL		776.5	NA	40.9	NA	2.72
	0.25	642.76	5818.22		0.19	17.3	NA	95.4	NA	4.55
	0.03	1299.96	8445.68	BDL		479.45	NA	73.49	NA	2.23
	0.56	528.2	6419.18	BDL		545.45	NA	60.62	NA	3.18
BDL		320.44	827.83	BDL		23.05	NA	19.31	NA	BDL
	0.02	594.21	1253.84	BDL		85.76	NA	51.95	NA	1.39
BDL		374.13	2937.06	BDL	BDL	NA	65.44	NA		1.23
	0.1	5640.94	2106.96	BDL		935.71	NA	55.11	NA	3.21
	0.06	1711.71	2750.58		0.3	178.85	NA	65	NA	1.83
	0.02	449.91	1689.88	BDL		548.61	NA	91.39	NA	3.37
	0.08	550.11	4883.89	BDL		214.59	NA	79.6	NA	BDL
	0.03	737.11	2412.32		0.09	64.27	NA	254.18	NA	4.81
	0.04	631.25	3334.91	BDL		66.67	NA	148.79	NA	12.31
	0.04	502.91	1701.03		0.15	BDL	NA	226.67	NA	4.63
	0.11	449.8	2863.4	BDL		36.73	NA	370.12	NA	1.24
	0.14	353.05	3670.61	BDL		19.28	NA	250.89	NA	8.6
	0.18	423.68	4146.55		0.08	17.56	NA	325.12	NA	1.74
	0.05	133.45	2046.63	BDL		152.85	NA	120.44	NA	1.65
	0.04	113.21	2660.22	BDL		251.33	NA	112.52	NA	2.19
	0.08	149.1	2071.88		0.21	797.28	NA	156.58	NA	3.32
BDL		247.55	1784.63	BDL		432.5	NA	132.19	NA	1.96
	0.1	161.3	2569.51	BDL		404.4	NA	139.26	NA	BDL
	0.15	215	2709.73	BDL		806.98	NA	160.28	NA	2.38
	0.08	130.66	1518.49		0.2	123.49	NA	110.53	NA	BDL
	0.05	578.32	2361.34	BDL		43.83	NA	145.54	NA	3.48
	0.08	1177.86	1484.62	BDL		37.34	NA	262.62	NA	4.44
	0.26	825.88	1256.02	BDL		60.15	NA	267.59	NA	10.08
	0.02	882.95	1539.14		0.21	54.7	NA	336.93	NA	13.78
	0.31	534.59	522.85	BDL		141.15	NA	20.66	NA	BDL
	0.3	879.67	863.13		0.34	150.56	NA	57.38	NA	BDL
	0.48	3646.11	544.78		0.57	126.34	NA	13.78	NA	BDL
	0.98	1391.32	459.49	BDL		251.02	NA	19.38	NA	BDL
	0.88	2049.88	662.93	BDL		287.72	NA	32.91	NA	0.75
	2.88	810.63	1873.16		0.34	52.37	NA	151.22	NA	22.62

	2.56	884.81	2014.75	0.21	81.88 NA	150.92 NA	25.74
	0.01	468.49	6536.27 BDL		42.87 NA	39.52 NA	3.39
BDL		342.09	1311.95 BDL		462.93 NA	6.43 NA	BDL
	0.24	1142.03	3611.14	0.16	751.75 NA	37.44 NA	5.23
BDL		461.87	2887.91	0.37	715.9 NA	18.51 NA	1.33
	0.43	690.57	3057.28 BDL		87.13 NA	75.07 NA	10.18
	0.49	441.18	6661.4 BDL		20.07 NA	57.06 NA	16.43
	0.42	366.83	2817.96 BDL		42.41 NA	71.1 NA	15.98
	2.55	1121.16	3059.58 BDL		109.52 NA	65.05 NA	21.63
	0.76	1303.83	3176.99 BDL		96.7 NA	69.38 NA	9.72
	0.4	619.65	4362.73 BDL		67.35 NA	33.09 NA	12.03
	0.04	97.49	1509.22 BDL		26.2 NA	7.81 NA	BDL
	0.04	187.96	2005.88 BDL	BDL	NA	8.44 NA	0.53
	0.03	127.42	1889.27 BDL		22.76 NA	10.39 NA	1.06
BDL		247.12	1505.58 BDL		19.84 NA	5.4 NA	0.73
	0.61	178.08	2156.45 BDL		89.67 NA	24.53 NA	6.54
	4.46	853.51	4934.5	0.84	97.27 NA	31.31 NA	9.32
	5.46	629.11	6144.69	0.6	76.22 NA	30.05 NA	9.16
	2.75	334.46	3373.88 BDL		405.25 NA	19.66 NA	4.44
	0.37	118.6	1348.46 BDL	BDL	NA	30.61 NA	5
	4.12	543.18	2874.18 BDL	BDL	NA	137.21 NA	14.52
	0.12	482.28	878.62 BDL		106.87 NA	28.38 NA	1.04
	0.09	3414	1044.21 BDL		32.98 NA	27.58 NA	1.6
	0.13	562.82	1924.45 BDL		14.34 NA	43.71 NA	0.78
BDL		393.94	2092.69	0.14 BDL	NA	49.65 NA	0.91
BDL		260.58	544.52 BDL		13.2 NA	17.84 NA	0.66
	0.02	364.98	1420.73 BDL		199.71 NA	22.69 NA	0.74
BDL		400.61	862.69 BDL	BDL	NA	47.18 NA	4.45
BDL		584.47	1947.97 BDL		288.33 NA	44.51 NA	0.89
	0.04	135.12	2970.31 BDL		204.37 NA	40.09 NA	98.52
BDL		73.41	1246.06 BDL	BDL	NA	6.05 NA	BDL
	0.39	131.91	2523.34 BDL		85.24 NA	19.72 NA	0.31
	1.74	83.53	3214.46 BDL	BDL	NA	40.45 NA	6.05
	0.14	274.97	12687.22	0.27	120.39 NA	30.31 NA	4.29
	0.11	224.67	3424.48	0.11	90.76 NA	38.26 NA	4.17
BDL		50.86	1241.22 BDL	BDL	NA	11.39 NA	BDL
	0.07	480.64	3078.07 BDL		175.69 NA	39 NA	3.26
	0.22	880.12	3608.3 BDL		472.16 NA	89.98 NA	5.14
	3.29	1476.17	2866.17 BDL		60.94 NA	60.07 NA	9.37
BDL		927.71	2900.78	0.23 BDL	NA	24.9 NA	BDL
	0.31	400.52	1391.01 BDL	BDL	NA	31.36 NA	BDL
	0.08	184.16	1517.44	0.12 BDL	NA	33.84 NA	0.33
	0.09	751.81	8397.56	0.13	1302.35 NA	57.54 NA	1.72
	0.44	192.43	2555.62 BDL	BDL	NA	34.02 NA	1.83
	1.39	2817.85	1130.07 BDL		42.48 NA	34.52 NA	2.01
	1.55	533.45	1094.96 BDL		79.75 NA	34.55 NA	1.93
	4.23	248.37	370.93 BDL	BDL	NA	13.41 NA	0.37

Sm_ppm	Sn_ppm	Sr_ppm	Ta_ppm	Th_ppm	Ti_ppm	Tl_ppm	U_ppm	V_ppm	
	19.09	13.1	945.57 NA		0.04	39.89 NA		2.11	423.99
	14.67	12.48	709.2 NA		0.1	55.43 NA		6.35	394.99
	11.57	12.61	844.61 NA		0.03	56.66 NA		3.78	435.07
	4.79	11.75	749.72 NA		0.08	23.09 NA		2.32	295.05
	7.19	12.59	983.84 NA		0.93	77.2 NA		2.55	393.22
	12.28	11.35	1054.22 NA		1.16	30.16 NA		6.74	338.41
	7.35	11.31	1259.27 NA		0.48	34.44 NA		3.81	339.97
	7.17	11.16	1786.94 NA		0.43	27.77 NA		4.4	366.27
	1.53	11.2	1671.56 NA	BDL		25.86 NA		0.77	205.5
NA		3.86	1463.91 BDL		0.01	734.78 BDL		0.94	605.78
NA		4.83	1708.02 BDL		0.48	443.95	0.07	0.66	635.89
NA		3.66	1888.56 BDL	BDL		532.38 BDL		1.37	419.68
NA		3.36	2014.7 BDL		0.09	503.32 BDL		0.9	357.21
NA		2.82	1187.66	0.01	0.04	735.78 BDL		0.64	508.9
NA		5.44	2295.48 BDL		0.26	558.84 BDL		1.33	526.11
NA		3.96	2433.88 BDL		0.01	548.99 BDL		1.39	507.54
NA		6.19	1464.74 BDL		0.12	544.57 BDL		2.52	231.81
NA		8.75	1632.15	0.01	0.65	491.22 BDL		3.1	263.96
NA		10.45	1747.63	0.02	2.52	1000.05	0.09	20.28	171.08
NA		5.76	2021.51 BDL		0.25	373.44 BDL		2.58	262
NA		4.49	1450.65 BDL		0.27	545.9 BDL		3.05	129.76
NA		4.07	1610.67 BDL		0.06	292.06 BDL		1.24	121.27
NA		5.46	1495.21	0.03	0.13	606.99 BDL		2.18	138.75
NA		8.47	2018.89	0.02	2.69	623.52 BDL		2.33	287.49
NA		7.23	2043.68	0.02	1.77	468.73 BDL		1.55	274.63
NA		9.09	1224.37	0.04	0.06	782.93 BDL		4.22	156.29
NA		5.96	1454.03	0.03	0.03	649.01 BDL		4.24	147.97
NA		11.38	1264.12 BDL		0.37	840.78	0.17	7.05	258.97
NA		8	1172.83	0.02	0.82	268.17 BDL		4.4	189.52
NA		4.75	617.68 BDL		0.03	407.98 BDL		2.05	109.31
NA		4.78	459.72 BDL		0.12	209.86 BDL		3.56	98.85
NA		3.29	423.42 BDL		0.33	113.8 BDL		0.51	25.67
NA		6.51	1115.59	0.34	1	125.46 BDL		26.55	25.14
NA		4.94	775.76 BDL		0.71	55.2	0.25	0.48	243.17
NA		2.47	623.72 BDL	BDL		42.19	0.19 BDL		203.37
NA		2.88	368.69	0.02	0.12	175.09 BDL		0.87	63.16
NA		4.71	206.61	0.1	0.05	257.86 BDL		1.06	104.5
NA		4.54	230.84	0.03	0.32	311.2	0.09	2.38	118.08
NA		7.27	564.28 BDL		0.92	239.6	1.02	1.36	216.45
NA		5.24	623.03	0.08	0.06	79.18 BDL		0.78	13.07
NA		4.15	549.6	0.38	0.27	289.2	0.05	0.68	16.42
NA		5.31	671.54	0.32	0.24	959.28 BDL		11.41	80.1
NA		13.38	915.86	0.12	66.23	236.23 BDL		14.47	60.33
NA		8.31	1035.83	0.09	46.51	322.01 BDL		10.05	38.4
NA		12.67	850.01	0.24	26.42	297.3 BDL		17.22	60.43
NA		10.41	795.07	0.32	0.09	374.55 BDL		21.56	57.5
NA		7.81	358.75 BDL		0.47	382.19 BDL		5.71	147.45
NA		7.99	460.02	0.01	5.34	978.31	0.08	12.46	283.72
NA		3.99	518.47 BDL		0.66	315.25	0.09	2.43	105.83
NA		7.27	644.68	0.04	5.63	490.87	0.12	7.27	226.82
NA		14.23	1047.34 BDL		5.31	714.81	0.08	13.98	414.14
NA		8.6	926.61 BDL		0.12	158.82 BDL		5.09	324.5
NA		4.94	445.48 BDL		0.74	357.97 BDL		3.47	144.58
NA		6.8	472.7 BDL	BDL		25.36 BDL		2.44	630.28
NA		3.02	1351.6	0.01	0.08	30.22 BDL		1.48	377.93
NA		3.02	1047.8 BDL	BDL		2.4 BDL		1.13	229.24
NA		3.24	1806.38 BDL		0.44	112.25 BDL		1.51	334.71
NA		1.49	576.08 BDL	BDL		349.12 BDL		0.09	25.09
NA		2.73	909.28 BDL		0.41	192.24 BDL		0.68	130.68
NA		7.42	904.31	0.01	1.7	267.59 BDL		1.74	935.76
NA		3.45	1030.31 BDL		1.44	241.79 BDL		1.03	830.99
NA		4.21	1384.09 BDL	BDL		269.01 BDL		1.22	577.46
NA		3.54	834.68 BDL	BDL		345.32 BDL		0.57	635.22
NA		2.43	892.31 BDL	BDL		266.37 BDL		0.4	473.36
NA		2.67	1424.88 BDL		0.05	258.94 BDL		0.17	513.78
NA		5.23	1715.13 BDL		0.09	197.47 BDL		0.95	577.19
NA		4.55	1326.88 BDL		5.71	502.09 BDL		1.15	247.46
NA		2.7	726.81 BDL		0.07	36.79 BDL		0.27	144.41
NA		5.26	1623.53 BDL		11.03	292.16 BDL		1.5	413.43
NA		15.15	1288.16 BDL		1.32	202.31 BDL		5.2	331.24
NA		8.91	1338.27 BDL		2.2	239.94 BDL		8.67	304.4

NA	9.2	1425.37	BDL		0.07	174.8	BDL	3.55	249.98
NA	16	1016.68	BDL		0.26	445.75	BDL	11.83	572.93
NA	11.36	932.73		0.1	0.19	293.22	BDL	3.49	337.86
NA	16.74	1023.42	BDL		0.07	217.79	BDL	11.68	495.61
NA	12.68	1039.17	BDL		0.14	89.59	BDL	2.27	274.97
NA	11.28	756.36	BDL		0.11	398.56	BDL	3.21	404.25
NA	4.15	505.92	BDL		2.59	588.38		0.07	336.81
NA	2.33	301.79		0.02	BDL	240.3	BDL	0.3	257.75
NA	23.37	1434.3	BDL		38.88	424.02		0.07	7.71
NA	34.58	1050.13	BDL		9.17	610.02		0.18	11.25
NA	14.15	1082.11	BDL		481.85	273.49	BDL	9.32	381.95
NA	13.96	1098.76		0.03	329.49	295.1	BDL	7.55	345.75
NA	7.88	799.06	BDL		1.67	403.85	BDL	8.17	369.98
NA	15.94	2847.57	BDL		14.09	217.99	BDL	9.76	370.84
NA	8.67	1577.51	BDL		2.41	271.26	BDL	5.89	338.5
NA	8.8	1945.9		0.01	6.54	217.98	BDL	7.62	364.71
NA	13.27	1652.27		0.84	17.09	3317.83	BDL	8.08	309.23
NA	25.13	1835.74	BDL		9.98	507.9	BDL	6.7	199.12
NA	1.98	1851.39	BDL		BDL	178.99	BDL	0.05	968.71
NA	4.79	1546.29	BDL		0.45	598.01	BDL	5.08	1568.05
NA	1.31	1750.68		0.01	BDL	250.77	BDL	0.04	843.6
NA	1.43	1490.89	BDL		BDL	74.54	BDL	0.03	1552.92
NA	1.69	1187.47	BDL		BDL	300.64	BDL	0.03	897.16
NA	1.1	1362.27	BDL		BDL	133.39	BDL	0.14	1282.77
NA	2.3	1931.67	BDL		BDL	128.06	BDL	0.05	884.6
NA	1.9	489.11	BDL		0.22	325.4		0.07	0.16
NA	2.26	644.61		0.03	BDL	1140.46	BDL	0.18	507.98
NA	5.76	1217.69	BDL		0.07	554.84	BDL	5.76	344.05
NA	1.94	772.6	BDL		0.23	184.77	BDL	0.21	318.99
NA	2.85	741.15		0.02	0.03	722.56	BDL	0.47	308.87
NA	1.6	379.88		0.02	0.45	1178.64		0.15	0.38
NA	3	696.58	BDL		0.12	263.29	BDL	0.85	329.67
NA	6.63	1079.46	BDL		1.88	130.38	BDL	3.29	317.73
NA	13.99	1282.23		0.01	1.19	653.98	BDL	6.82	445.34
NA	13.29	1160.89	BDL		6.19	462.51		0.04	8.91
NA	25.35	1090.49		0.05	1.43	830.82		0.2	4.41
NA	13.36	1394.63	BDL		1.13	157.02	BDL	6.37	167.26
NA	13.6	619.93	BDL		0.54	505.64	BDL	12.54	289.15
NA	12.48	1306.65	BDL		2.58	237.42	BDL	10.68	360.46
NA	16.58	1139.96	BDL		16.27	557.5	BDL	11.7	400.18
NA	22.21	801.38	BDL		31.61	490.78	BDL	11.91	425.86
NA	5.38	1047.07	BDL		0.11	526.4	BDL	0.86	122.2
NA	4.97	757.25	BDL		0.27	469.94	BDL	5.29	121.39
NA	14.03	678.75	BDL		9.12	537.96	BDL	3.67	202.99
NA	4.96	686.04		0.04	7.26	808.37	BDL	0.71	106.07
NA	16.05	559.16	BDL		6.29	637.39	BDL	4.06	269.91
NA	3.01	1064.44	BDL		1.66	441.27	BDL	10.68	861.46
NA	2.27	1305.45	BDL		0.98	697.27		0.1	5.28
NA	4.26	1222.12	BDL		1.76	270.99	BDL	1.43	334.51
NA	2.1	1531.22	BDL		0.01	338.49	BDL	0.22	6.09
NA	2.09	939.41	BDL		BDL	236.28	BDL	0.49	17.9
NA	1.96	1006.39	BDL		BDL	452.02	BDL	0.21	5.72
NA	2.24	1111.86	BDL		BDL	286.05	BDL	2.29	112.97
NA	3.93	765.32	BDL		BDL	458.77	BDL	1.21	47.98
NA	3.11	1078.33		0.01	BDL	301.82	BDL	3.07	138.28
NA	2.34	1297.59	BDL		0.02	29.28	BDL	1.17	87.06
NA	3.6	786.87	BDL		BDL	45.43	BDL	2.11	272.46
NA	2.86	1859.52	BDL		0.81	27.83	BDL	0.86	119.05
NA	3.56	1998.97	BDL		0.21	81.4		0.04	1.29
NA	2.85	925.82	BDL		BDL	45.08	BDL	1.57	223.16
NA	2.3	872.57	BDL		0.02	12.07	BDL	1.2	95.74
NA	3.62	778.54	BDL		BDL	531.05	BDL	0.24	6.28
NA	5.02	793.5	BDL		0.01	366.9	BDL	2.87	132.1
NA	4.83	953.77	BDL		4.95	254.32	BDL	3.58	160.21
NA	6.55	894.31	BDL		1.04	362.99	BDL	3.19	295.28
NA	2.66	801.49	BDL		4.65	438.04	BDL	1.38	244.4
NA	5.17	943.16	BDL		0.12	522.74	BDL	0.62	348.16
NA	5.12	789.75	BDL		0.09	764.78	BDL	0.23	203.76
NA	2.5	968.1	BDL		0.05	494.75	BDL	1.49	97.58
NA	1.8	711.97	BDL		BDL	296.18	BDL	0.26	19.26
NA	2.15	1792.04	BDL		BDL	233.23	BDL	1.03	60.61
NA	2.4	614.91	BDL		0.02	392.88	BDL	0.25	33.54
NA	1.53	600.94	BDL		BDL	295.39	BDL	0.28	14.86

NA	3.91	1000.91	BDL		0.06	316.1	BDL	1.77	173.87
NA	2.11	781.89	BDL		0.02	373.16	BDL	0.32	14.59
NA	2.17	277.1	BDL	BDL		244.19	BDL	0.11	588.74
NA	3.28	661.72	BDL		0.02	393.23	BDL	0.68	684.05
NA	6.14	604.19		0.02	0.42	346.44	BDL	1.66	464.58
NA	6.35	506.94		0.02	0.19	272.33		0.04	1.29
NA	4.5	666.47	BDL		0.32	387.48		0.05	1.16
NA	2.16	419.8	BDL		0.03	169.74	BDL	0.45	398.41
NA	2.59	620.88		0.01	0.05	138.72	BDL	0.68	240.48
NA	6.97	650.66	BDL		0.97	384.46		0.06	1.31
NA	1.69	526.45	BDL	BDL		140.02		0.1	0.06
NA	12.79	1371.13		0.01	94.62	255.28	BDL	8.23	233.93
NA	7.39	1558.14		0.01	142.82	372.16	BDL	8.57	250.45
NA	8.92	1866.91		0.01	0.06	164.72	BDL	7.44	188.06
NA	6.47	1868.93	BDL		0.09	163.7	BDL	7.86	179.11
NA	4.33	1165.27	BDL		0.08	151.85	BDL	8.28	196.47
NA	6.92	1586.66		0.01	152.68	389.62		0.01	5.69
NA	6.91	980.68	BDL		135.22	457.69	BDL	8.4	222.27
NA	9.19	1364.55	BDL		191.66	462.82		0.03	12.2
NA	6.69	1252.27		0.01	137.29	324.49	BDL	5.36	253.68
NA	8.9	1707.52	BDL		10.45	312.53	BDL	4	294.53
NA	9.3	2547.88	BDL		52	217.82	BDL	11.21	235.36
NA	11.91	2406.52		0.03	18.74	252.44	BDL	14.14	257.06
NA	9.47	2307.06		0.02	17.83	215.05	BDL	10.19	276.32
NA	9.52	2347.03		0.02	27.86	200.39	BDL	11.65	242.48
NA	3.83	1081.08		0.01	0.15	13.29	BDL	7.18	95.11
NA	5.66	690.4	BDL		0.13	9.9	BDL	0.98	104.73
NA	3.71	930.34	BDL		1.11	15.11	BDL	3.95	81.37
NA	18.73	761.59		0.18	1.81	583.12		0.81	7.01
NA	27.94	1256.27		0.29	4.46	987.18		1.27	13.79
NA	27.59	915.34		0.29	2.99	695.48		1.63	6.28
NA	20.59	900.24		0.17	3.07	873.95		0.53	8.3
NA	31.02	1110.41		0.15	5.46	755.01		1.41	12.74
NA	32.39	1140.42		0.12	6.01	709.67		1.02	13.5
NA	3.59	1212.16	BDL		0.12	107.06	BDL	1.19	250.36
NA	8.46	626.72	BDL		12.15	261.86		0.01	3.54
NA	1.91	1652.15	BDL		0.07	37.89		0.01	1.69
NA	8.97	869.55	BDL		2.08	224.46	BDL	1.37	426.75
NA	2.47	2326.89	BDL		26.96	236.33	BDL	1.95	232.28
NA	3.1	3068.26	BDL		0.24	203.83	BDL	1.25	216.12
NA	2.24	2501.44	BDL		51.57	204.35	BDL	2.33	228.87
NA	1.72	2281.59	BDL		2.22	24.3	BDL	1.11	125.88
NA	2.83	2529.73	BDL		3.95	78.1	BDL	1.65	258.13
NA	2.5	1666.92	BDL		0.26	57.15	BDL	2.02	211.57
NA	2.1	1608.92	BDL		3.24	114.71	BDL	2.14	657.59
NA	2.46	645.87	BDL		0.05	69.35	BDL	1.57	877.71
NA	1.78	1739.2	BDL		0.04	181.88	BDL	0.98	972.63
NA	1.84	1033.07		0.01	BDL	149.4	BDL	1.41	997.61
NA	1.65	1076.75	BDL	BDL		161.85		0.01	1.08
NA	1.7	974.88	BDL	BDL		164.6	BDL	2.22	1083.8
NA	3.58	1038.66		0.01	BDL	70.45	BDL	1.45	1047.52
NA	15.38	1256.14	BDL		271.72	627.14	BDL	6.24	183.31
NA	3.02	568.66		0.01	3.52	148.28	BDL	0.85	85.51
NA	7.16	998.3		0.01	54.86	282.25	BDL	3.56	146.49
NA	3.89	638.05	BDL		6.21	125.53	BDL	1.96	85.15
NA	3.31	690.95	BDL		2.11	119.97	BDL	1.32	89.87
NA	3.46	495.07		0.01	6.38	179.96	BDL	2.84	130.36
NA	17	749.19	BDL		2.12	268.34		0.04	2.09
NA	19.85	722.04		0.01	1.38	391.78		0.04	1.45
NA	5.52	3091.12		0.16	12.84	959.27		0.03	2.93
NA	6.13	3003.89		0.13	23.47	873.18	BDL	3.25	225.5
NA	5.83	2268.65		0.01	6.35	283.9	BDL	3.28	201.92
NA	7.44	3113.38		0.15	11.02	1225.6		0.02	3.75
NA	2.39	974.49		0.03	0.15	326.35	BDL	0.98	275.73
NA	8.13	2475.41		0.22	28.67	1088.2		0.07	4.31
NA	4.97	3377.52		0.05	8.75	379.23		0.03	3.08
NA	9.16	3390.83		0.24	27.73	1246.26	BDL	4.85	255.58
NA	22.21	1182.78	BDL		2.24	90	BDL	4.23	243.94
NA	6.43	1289.46	BDL		2.57	176.08	BDL	4.68	263.83
NA	12.15	2491.74		0.01	0.5	339.57	BDL	2.98	272.52
NA	26	1139.7	BDL		2.66	79.41	BDL	4.34	237.62
NA	13.77	2289.99	BDL		27.55	260.04	BDL	5.54	345.37
NA	9.57	3222.57		0.01	30.11	286.88		0.02	4.76

NA		10.45	2555.75	BDL		14.44	330.68	BDL		4.7	286.25
NA		11.17	2457.49	BDL		25.31	265.01	BDL		5.2	333.65
NA		9.59	2220.38	BDL		12.61	349.51	BDL		4.67	279.34
NA		3.3	1940.64	BDL		0.06	352.59	BDL		1.12	55.78
NA		2.39	1618.05	BDL	BDL		254.72	BDL		0.54	39.39
NA		4.41	1702.16	BDL		0.05	373.14	BDL		1.41	117.21
NA		2.12	1497.85	BDL		0.03	281.94	BDL		0.67	39.76
NA		4.03	1365.62		0.01	12.45	558.81	BDL		3.57	324.35
NA		3.25	1092.06	BDL		7.05	386.34		0.04	3.28	313.8
NA		3.2	918.62		0.03	5.22	1205.18	BDL		2.16	270.07
NA		1.68	433.99		0.08	0.23	2149.36	BDL		0.87	182.66
NA		1.26	508.89	BDL		1.61	146.77	BDL		0.47	134.02
NA		2.79	1503.69	BDL		3.49	250.14	BDL		2.22	485.15
NA		3.54	1038.41	BDL		1.01	322.15	BDL		2.58	498.41
NA		1.66	599.96	BDL		0.02	184.79	BDL		0.54	421.06
NA		2.49	798.06	BDL		0.15	558.55		0.02	0.88	401.5
NA		1.3	674.16	BDL	BDL		44.97		0.1	0.03	110.4
NA		2.98	521.7	BDL		0.02	139.81	BDL		0.18	391.9
NA		0.93	357.08	BDL		0.01	10.08	BDL		0.01	186.42
NA		1.73	370.53		0.02	BDL	596.38	BDL		0.24	418.38
NA		7.09	1797.84		0.04	7.86	516.29	BDL		15.36	58.24
NA	BDL		4707.97	BDL		0.12	163.18	BDL		2.48	241.9
NA		5.1	1215.74	BDL		0.18	112.82	BDL		7.07	470.17
NA	BDL		2338.15		0.19	15.62	5735.46	BDL		7.25	481.47
NA		2.65	1773.55	BDL	BDL		113.05	BDL		1.46	102.52
NA		5.75	1770.11	BDL		0.04	86.44	BDL		1.6	513.95
NA		6.16	1403.28	BDL		0.03	60.95	BDL		5.73	601.57
NA		4.61	1585.35	BDL	BDL		68.98	BDL		0.55	117.44
NA		3.31	2219.97	BDL		0.11	181.11	BDL		0.91	530.13
NA		4.7	654.82	BDL	BDL		43.16	BDL		0.39	133.43
NA		2.6	2059.95	BDL	BDL		101.87	BDL		0.89	123.28
	13.99	8.42	2323	NA		0.53	54.26	NA		0.82	291.29
	13.58	8.98	2496.24	NA		0.16	570.28	NA		1.93	572.83
	9.84	10.15	3228.34	NA		0.78	128.44	NA		1.16	443.45
	2.01	9.41	633.72	NA		0.6	343.95	NA		2.88	408.09
	0.23	9.48	1174.95	NA	BDL		163.45	NA		0.3	130.13
	0.71	9.4	1488.49	NA		0.03	96.42	NA		0.43	136.93
	0.31	9.07	440.2	NA	BDL		33.92	NA		0.17	160.94
	1.64	11.6	1062.83	NA	BDL		23.19	NA		2.39	188.87
	6.13	9.39	1229.43	NA		0.03	49.45	NA		3.25	199.06
	18.1	10.12	1315.85	NA		2.98	77.21	NA		6.65	269.17
	13.24	10.02	1556.09	NA		0.15	97.11	NA		2.51	475.95
	7.87	9.27	1215.07	NA		0.03	61.71	NA		3.15	221.33
	10.63	8.78	1059.49	NA		0.1	101.73	NA		3.41	394.73
	1.01	10.06	539.24	NA		0.15	865.98	NA		0.69	240.65
	3.53	10.43	631.25	NA		0.17	762.54	NA		1.08	217.7
	21.9	10.78	1275.7	NA		0.94	155.27	NA		4.35	548.88
	13.4	7.12	1304.1	NA		0.04	29.6	NA		5.95	193.42
	129.39	12.83	636.74	NA		3.04	782	NA		6.8	112.69
	72.78	8.5	824.35	NA		0.44	627.37	NA		4.46	160.45
	248.4	12.28	635.91	NA		7.07	294.42	NA		11.26	259.1
	71.77	9.7	678.09	NA		0.3	476.99	NA		3.67	216.45
	64.86	11.51	604.27	NA		18.24	265.13	NA		19.82	204.38
	23.39	8.24	594.21	NA		0.14	147.74	NA		5.65	119.78
	23.23	7.61	899.33	NA		19.7	108.89	NA		1.09	233.07
	173.6	7.64	1083.73	NA		24.69	245.35	NA		6.06	304.58
	75.03	9.62	944.24	NA		18.16	647.88	NA		8.12	346.91
	9.84	7.09	1055.63	NA		1.42	131.11	NA		0.86	204.13
	12.12	7.14	1058.01	NA		10.61	209.67	NA		1.21	289.66
	0.15	10.83	433.66	NA		0.01	628.48	NA		0.21	685.15
	1.08	11.95	582.69	NA	BDL		163.06	NA		0.76	147.33
	0.5	10.37	850.55	NA	BDL		521.27	NA		1.43	133.05
	0.18	9.25	734.6	NA		0.08	408.63	NA		1.01	98.43
	0.26	8.86	1077.5	NA		0.02	476.38	NA		0.88	112.63
	16.87	85.81	558.32	NA		6.6	386.3	NA		4.79	131.43
	0.32	15.32	786.41	NA		0.02	600.16	NA		0.98	365.79
	3.75	37.18	501.12	NA		0.54	269.5	NA		2.47	295.59
	2.26	13.69	223.33	NA		1.27	333.89	NA		1.44	71.29
	39.43	14.66	395.25	NA		1.3	294.72	NA		7.95	118.33
	8.46	21.94	458.1	NA		6.77	451.68	NA		5.59	109.77
	1.27	70.83	446.17	NA		0.1	318.06	NA		3.59	92.75
	1.14	16.54	439.15	NA		0.15	462.74	NA		2.67	69.06
	0.59	13.53	652.86	NA	BDL		320.49	NA		0.74	58.96

	1.11	13.58	345.16 NA		0.53	224.11 NA		1.16	41.78
BDL		29.5	230.71 NA		34.43	7871.29 NA		95.25	476.73
	5.36	77.18	268.78 NA		0.26	236.51 NA		8.79	122.74
	2.31	27.72	324.28 NA		5.2	444.6 NA		5.46	67.26
	3.16	36.23	271.38 NA		3.57	639.15 NA		6.24	79.57
BDL		10.08	572.46 NA	BDL		1336.65 NA		0.26	77.3
	0.96	17.18	473.34 NA		0.37	1033.77 NA		2.64	198.87
	1.2	12	283.22 NA		1.06	76.91 NA		3.27	22.48
	3.82	51.42	265.06 NA		0.49	374.18 NA		12.38	139.99
NA		28.38	162.81 BDL		13.47	1826.17 BDL		23.2	235.72
NA		24.24	766.08 BDL		17.83	1400.57 BDL		12.22	216.98
NA		18.18	759.19	0.02	0.17	697.43 BDL		2.73	135.49
NA		11.22	490.18 BDL		0.98	435.34 BDL		1.27	127.6
NA		4.73	568.03	0.03	0.18	175.67 BDL		1.58	82.64
NA		53.04	368.88	0.04	10	326.89 BDL		13.17	34.87
NA		22.52	1022.75 BDL		0.18	54.67 BDL		1.13	6.98
NA		34.06	149.1 BDL		17.19	1069.89	0.06	13.57	48.7
NA		9.54	574.9	0.03	0.23	236.23 BDL		1.04	70.54
NA		2.31	310.19	0.05	1.42	561.86	0.06	1.32	146.52
NA		2.51	309.78	0.08	0.21	385.52 BDL		0.85	129.22
NA		2.03	384.77 BDL		0.18	197.42 BDL		1.16	131.28
NA		6.57	530.11 BDL	BDL		495.21 BDL		0.84	279.47
NA		6.92	663.39 BDL		0.2	425.82 BDL		1.5	290.64
NA		4.81	580.69	0.01 BDL		606.95 BDL		1.24	409.26
NA		7.3	390.99 BDL	BDL		899.89 BDL		0.94	348.56
NA		9.84	367.49 BDL		9.3	475.75 BDL		4.88	449.56
NA		9.69	459.34 BDL		0.46	760.63	0.04	3.21	242.69
NA		8.71	576.17 BDL		2.64	366.59	0.43	2.7	301.07
NA		10.96	604.97 BDL		1.38	239.16	0.09	3.65	361.19
NA		5.4	1065 BDL		6.42	701.49 BDL		11.24	387.54
NA		16.85	4323.18	0.01	1.25	246.41 BDL		14.67	389.39
NA		8.37	2499.78 BDL		7.55	168.51 BDL		10.94	381.37
NA		7.07	869.78	0.01	2.91	775.77 BDL		16.67	436.67
NA		8.82	980.27 BDL		3.25	614.66 BDL		11.1	487.51
NA		8.92	720.6 BDL		6.12	652.54	0.09	13.1	509.4
NA		7.24	815.46	0.02	0.02	660.92	0.08	9.14	387.13
NA		4.49	1177.42 BDL		0.14	553.87	0.18	3.32	419.26
NA		2.38	2417.78 BDL		0.1	669.35 BDL		1.99	354.47
NA		2.16	2560.9	0.01	0.03	768.36 BDL		1.97	369.32
NA		2.1	2814.41 BDL		0.1	474.01 BDL		1.79	317.3
NA		2	1861.28 BDL		0.09	1073.99 BDL		2.04	459.38
NA		16.11	2546.21	0.18	1.96	2378.48 BDL		4.47	421.7
NA		4.53	3511.74	0.04	1.91	874.52 BDL		3.49	329.63
NA		2.52	1522.15	0.02	0.47	706.26 BDL		1.56	202.59
NA		2.19	2483.37	0.03	0.21	746.59 BDL		1.88	315.35
NA		2.4	2255.83 BDL	BDL		1234.55 BDL		1.77	531.09
NA		1.92	1324.16 BDL		0.01	561.07 BDL		2.93	350.35
NA		1.72	1669.2 BDL	BDL		391.47 BDL		1.8	334.45
NA		7.33	630.34	0.01	3.17	258.23	0.05	0.66	574.24
NA		4.65	497.31 BDL	BDL		41.42 BDL	BDL		163.32
NA		6.93	570.39 BDL	BDL		40.32 BDL		0.01	475.5
NA		6.18	644.45 BDL		0.02	42.96 BDL		0.24	439.67
NA		3.99	938.27 BDL		0.02	65.9 BDL		0.03	89.4
NA		4.5	781.99 BDL		1.09	244.04	0.07	0.43	371.01
NA		2.31	341.07 BDL	BDL		124.58 BDL		0.14	239.26
NA		1.39	1247.22 BDL	BDL		304.27 BDL		0.08	11.59
NA		3.73	1548.96 BDL		0.06	116.35 BDL		1.62	123.2
NA		6.17	513.88	0.03 BDL		548.05 BDL		2.4	406.57
NA		1.85	356.57 BDL	BDL		446.63 BDL		0.18	322.36
NA		1.26	1106.06 BDL		0.05	378.19 BDL		0.2	22.5
NA		1.3	1192.62 BDL	BDL		155.82 BDL		0.17	16.74
NA		1.24	1441.38 BDL		0.01	238.64	0.02	0.09	20.44
NA		3.5	1103.25 BDL	BDL		206.17 BDL		1	137.51
NA		4.51	916.63	0.05	0.16	463.36 BDL		2.25	182.71
NA		5.72	909.75	0.06	2.13	446.87 BDL		4.89	207.77
NA		5.02	765.04	0.09	6.21	742 BDL		2.86	185.81
NA		1.97	1271.05 BDL		0.06	122.08 BDL		0.51	61.84
NA		3.19	654.76	0.02	1.83	125.88 BDL		2.48	91.28
NA		2.9	820.37 BDL		33.69	424.56 BDL		3.29	137.18
NA		24.57	261.02 BDL		22.3	455.13 BDL		42.69	433.37
NA		42.29	209.01	0.02	29.53	574.45 BDL		74.05	459.2
NA		95.93	189.15 BDL		16.46	288.46 BDL		108.79	496.7
NA		1.11	97.62	0.02	0.04	1169.8 BDL		1.5	95.11

NA	1.03	398.03	BDL	BDL	204.62	BDL	1.14	129.61
NA	42.57	115.67	BDL	7.27	259.02	BDL	72.68	376.74
NA	33.28	271.49	BDL	10.85	296.16	BDL	51.87	324.64
NA	19.03	184.85	BDL	0.76	219.5	BDL	7.61	226.72
NA	52.28	150.4	BDL	1.46	309.84	BDL	11.89	134
NA	51.84	104.14	BDL	6.16	311.99	BDL	23.55	206.99
NA	7.64	402.63	BDL	12.4	369.22	0.09	41.16	381.74
NA	33.7	279.78	BDL	25.25	443.28	BDL	105.65	354.32
NA	8.2	1583.89	BDL	BDL	123.13	BDL	4.51	258.3
NA	8.85	1056.38	BDL	BDL	130.48	BDL	1.81	262.71
NA	6.99	1293.58	BDL	BDL	108.04	BDL	1.84	256.28
NA	9.36	2441	BDL	BDL	47.46	BDL	11.54	196.97
NA	7.06	1210.65	0.01	0.03	89.52	BDL	2.99	205.1
NA	5.28	602.66	BDL	0.24	401.23	BDL	6.63	268.56
NA	5.99	987.88	BDL	0.51	251.24	BDL	5.79	287.29
NA	7.24	1358.92	0.01	0.16	270.18	BDL	4.05	289.44
NA	4.2	726.9	BDL	0.1	645.3	BDL	6.7	533.28
NA	2.73	715.48	0.02	0.51	341.71	0.07	7.73	341.2
NA	3.96	996.2	BDL	BDL	217.44	0.09	5.55	387.13
NA	1.2	844.15	BDL	BDL	134.92	BDL	0.37	250.14
NA	2.6	184.24	BDL	BDL	530.88	BDL	4.78	577.54
NA	2.49	282.7	BDL	BDL	15.67	BDL	0.2	189.04
NA	2.26	440.6	BDL	BDL	28.78	BDL	0.53	155.85
NA	2.73	571.4	BDL	BDL	362.1	BDL	0.64	150.6
NA	2.21	558.59	0.02	BDL	154.87	BDL	0.41	166.14
NA	6.6	462.84	BDL	0.13	486.69	BDL	2.1	392.71
NA	1.41	406.68	0.01	BDL	5.8	BDL	0.23	141.36
9.09	1.58	4961.85	NA	4.8	523.82	NA	1.33	179.6
5.3	1.58	3464.97	NA	2.95	1808.61	NA	1.02	259.93
1.44	1.59	4654.47	NA	6.01	1118.06	NA	0.74	223.24
2.89	0.99	5995.57	NA	2.67	268.95	NA	0.64	116.88
4.1	6.93	4045.22	NA	2.89	14470.91	NA	2.02	343.33
3.43	0.96	5194.28	NA	4.98	3581.83	NA	0.62	198.9
3.97	1.24	4283.63	NA	5.46	1175.16	NA	1.18	249.84
29.45	3.18	2381.26	NA	0.8	320.72	NA	5.81	902.7
9.31	1.15	4049.39	NA	2.56	496.87	NA	0.97	208.31
2.12	1.48	3650.42	NA	3.97	4235.45	NA	1.26	316.34
1.01	1.13	5486.91	NA	0.67	325.31	NA	0.81	153.23
5.93	1.09	3639.35	NA	4.66	816.24	NA	0.99	256.61
0.91	1.82	3724.34	NA	1.09	608.78	NA	0.54	360.18
1.19	1.82	4122.26	NA	2.32	1833.17	NA	1	197.29
5.36	0.88	4637.09	NA	5.72	578.79	NA	0.98	204.78
1.93	1.96	4907.71	NA	2.66	13543.08	NA	1.45	484.39
5.73	1.16	3549.51	NA	8.44	1538.52	NA	1.11	227.91
4.37	1.47	4926.81	NA	2.43	2127.6	NA	1.19	388.16
1.45	0.65	5021.24	NA	4.27	691.19	NA	1.08	196.77
3.79	1.5	1129.55	BDL	1.32	383.28	BDL	1.02	333.61
4.2	1.74	1151.03	BDL	1.03	401.64	0.14	1.03	325.33
4.37	1.03	1425.43	BDL	3.53	506.17	BDL	1.07	296.82
4	2.15	1629.64	0.11	5.77	3686.81	0.13	2.36	372.74
2.03	7.58	707.25	0.11	0.24	1811.73	BDL	3.81	777.47
1.89	3.09	1392.29	BDL	BDL	132.56	BDL	5.44	232.17
0.29	3.06	291.33	BDL	0.1	116.43	BDL	1.2	352.35
2.61	7.86	704.46	0.04	0.06	1425.27	0.44	8.73	794.46
0.98	2.98	1186.12	BDL	0.04	71.25	BDL	3.52	278.32
3.06	1.31	1518.46	BDL	0.36	498.4	0.22	0.87	320.58
4.32	1.92	1737.14	BDL	1.31	777.65	BDL	1.11	424.23
0.59	8.22	2278.01	NA	1.38	1485.54	NA	0.64	347.22
1.52	7.01	3290.49	NA	4.21	2580.83	NA	1.03	263.62
3.01	6.32	2996.86	NA	0.59	2322.53	NA	0.68	222.28
1.94	5.43	2373.02	NA	2.7	491.46	NA	0.57	210.1
0.62	8.17	3324.26	NA	0.02	349.21	NA	0.51	247.5
0.49	6.87	2729.33	NA	0.08	900.96	NA	0.42	260.1
0.18	7.55	3153.17	NA	BDL	351.85	NA	0.37	232.76
1.54	6.66	4051.46	NA	0.16	630.8	NA	0.32	229.44
14.96	6.47	2873.29	NA	1.26	170.98	NA	0.44	236.69
9.26	8.35	2423.99	NA	0.07	90.86	NA	0.87	231.87
2.05	7.5	786.59	NA	BDL	640.78	NA	0.1	560.97
1.31	8.53	3253.58	NA	3.08	435.4	NA	0.25	427.64
0.67	7.1	3556.1	NA	9.01	751.16	NA	0.33	414.9
0.37	6.44	1817.94	NA	0.67	390.74	NA	0.14	387.36
3.32	8.63	2673.91	NA	1.23	703.96	NA	0.85	461.26
0.29	6.73	3222.29	NA	0.01	39.6	NA	0.32	388.52

NA	15.47	238.74	0.05	0.22	156.28 BDL		3.48	13.66
NA	13.44	364.84	0.13	0.34	204.04	0.04	1.53	11.06
NA	8.64	327.13 BDL		0.23	447.18 BDL		5.97	7.5
NA	5.93	146.44	0.06	0.06	1309.39 BDL		4.56	9.64
NA	6.26	140.71	0.03	0.05	1433.92 BDL		19.4	53.54
NA	4.36	116.41 BDL		1.14	1371.02 BDL		2.59	5.24
NA	6.87	260.74	0.03	0.25	218.21 BDL		4.82	2.64
NA	15.95	202.38	0.01	6.39	28.13 BDL		0.54	3.92
NA	1.79	303.77	0.01	0.13	72.76	0.02	0.1	19.07
NA	1.56	172.37 BDL	BDL		50.85 BDL		0.03	6.72
NA	6.53	624.07	0.07	0.59	608.85	0.18	4.04	184.53
NA	1.4	115.86	0.13	12.84	354.54 BDL		2.29	37.31
NA	2.31	395.34	0.07	32.03	291.75	0.07	2.39	54.29
NA	4.61	274.69 BDL		0.36	53.53	0.08	0.32	12.49
NA	5.92	411.26	0.02	1.61	118.58	0.41	4.81	75.42
NA	2.22	221.69 BDL		0.3	52.36 BDL		0.76	22.38
NA	5.43	699.55	0.01	0.09	126.87 BDL		5.34	79.01
NA	7.66	952.49	0.06	14.53	942.54	0.33	5.12	268.69
NA	14.96	669.62	0.67	88.84	851.43	0.38	20.22	30.4
NA	17.38	686.62	0.44	2.71	839.67	0.33	16.02	31.82
NA	17.46	1055.43	0.32	4.21	704.26	0.24	10.38	33.35
NA	20.41	775.3	0.52	3.26	930.7	0.2	12.6	31.66
NA	19.14	663.3	0.3	2.6	637.6	0.25	13.35	32.28
NA	17.93	584.23	0.2	1.59	623.86	0.31	7.37	32.11
NA	58.87	465.2	0.39	9.51	401.48	0.14	9.55	11.28
NA	41.28	779.52	0.13	24.92	359.55	0.07	11.95	10.71
NA	11.05	382.48 BDL		0.05	48.53	0.12	0.3	1.92
NA	30.74	682.92	0.06	3.88	321.47	0.13	7.86	11.66
NA	61.22	419.27	0.44	15.04	525.83	0.69	31.71	11.84
NA	15.07	483.49 BDL	BDL		392.27 BDL		0.47	36.37
NA	13.94	595.41	0.05	1.69	731.1	0.06	3.88	63.25
NA	14.03	364.31	0.06	1.07	611.88 BDL		9.88	81.98
NA	18.31	641.13 BDL		4.41	297.87 BDL		8.29	57.75
NA	18.7	177.09	0.04	0.18	282.01 BDL		1.05	81.83
NA	24.66	603.87	0.08	19.17	216.92 BDL		5.21	161.8
NA	33.46	490.57 BDL		2.91	296.03 BDL		29.63	205
NA	19.32	296.13	0.03	3.24	355.43 BDL		10.52	90.66
NA	19.15	560.6	0.03	3.16	403.12	0.98	10.93	49.43
NA	8.08	296.33 BDL	BDL		180.77 BDL		2.08	33.94
NA	11.52	971.17	0.07	0.94	580.12	0.04	15.99	49.8
NA	13.17	387.57 BDL		1.91	862.99	0.14	44.98	73.32
NA	11.43	354.87	0.12	0.65	462.65	0.05	9	42.81
NA	7.75	962.85	0.27 BDL		380.78 BDL		1.06	37.19
NA	6.83	123.97 BDL		0.04	13.05	0.04	0.23	5.66
NA	6.1	178.56 BDL		0.11	14.5 BDL		0.38	7.12
NA	14.89	281.72	0.03	0.44	168.14 BDL		0.27	14.2
NA	16.85	386.46	0.05	0.75	418.96 BDL		1.9	254.71
NA	15.38	699.65 BDL		0.04	69.97 BDL		1.53	83.79
NA	10.76	184.87 BDL		2.13	54.56	0.02	0.38	44.89
NA	15.84	180.44 BDL		1	65.68 BDL		0.37	54.88
NA	29.01	349.07 BDL		0.05	140.72 BDL		2.5	194.3
NA	11.02	2172.16 BDL		8.54	339.27 BDL		3.78	203.53
NA	7.26	1448.08 BDL		7.23	362.96 BDL		2.58	230.78
NA	9.27	1515.2 BDL		3.21	116.16 BDL		2.37	141.31
NA	14.5	1140.27 BDL		0.86	230.42 BDL		4.89	262.9
NA	10.54	1192.87 BDL		3.35	161.23 BDL		1.81	148.01
NA	7.6	940.9 BDL		0.63	141.94 BDL		1.63	110.33
NA	6.38	827.29 BDL	BDL		178.09	0.09	0.22	309.76
NA	12.14	2349.78 BDL	BDL		711.28 BDL		7.48	277.34
NA	6.23	94.04	0.16	0.04	991.32 BDL		3.99	56.12
NA	8.99	116.22	0.04 BDL		1041.49 BDL		3.78	46.95
NA	7.5	72.73	0.07 BDL		307.28 BDL		3.41	92.35
NA	6.9	88.96	0.07	1.44	269.69	0.14	2.6	83.41
NA	18.57	182.02 BDL		0.12	92.14 BDL		43.19	39.99
NA	23.91	199.29 BDL		3.79	215.09 BDL		73.97	42.45
NA	26.37	245.68	0.09	1.03	313.45 BDL		62.76	36.58
NA	9.32	71.49	0.04	0.22	605.17 BDL		4.02	9.15
NA	13.93	160.56	0.09	2.72	198.05	0.28	2.61	10.27
NA	8.93	582.43 BDL		0.95	323.45 BDL		1.74	179.14
NA	10.37	593.72 BDL		1.03	641.44 BDL		0.71	340.5
NA	15.4	810.74 BDL		0.21	566.71 BDL		1.44	578.4
NA	9.5	201.09 BDL		1.42	365.22	0.06	3.1	76.59
NA	7.77	102.23	0.03	0.44	193.01 BDL		0.42	53.31

NA	7.3	137.7	0.09	0.06	273.74 BDL		1	44.39
NA	6.76	143.17 BDL		0.1	318.27 BDL		0.44	51.8
NA	5.04	446.37	0.03 BDL		131.6 BDL	BDL		27.32
NA	7.28	935.68 BDL		0.1	138.88	0.04	0.14	73.65
NA	9.94	245.66 BDL		1.76	106.61 BDL		1.83	134.51
NA	7.4	247.42 BDL	BDL		66.72 BDL		0.09	25.75
NA	6.37	94.67 BDL		0.1	79.66 BDL		0.32	26.62
NA	6.99	202.45	0.04	0.12	784.8 BDL		0.22	66.56
NA	6.18	427.32 BDL	BDL		128.9 BDL		0.35	113.54
NA	5.31	499.42 BDL		0.1	84.71 BDL		0.21	28.2
NA	7.77	477.23	0.06 BDL		817.86 BDL		0.33	177.82
NA	6.37	725.09	0.02 BDL		133.12 BDL		2.35	252.09
NA	4.23	481.41 BDL		0.14	229.62 BDL		0.22	83.48
NA	4.43	616.13 BDL	BDL		122.68 BDL		1.46	178.92
NA	4.9	1013.4	0.14	10.1	151.15 BDL		2.57	48.09
NA	5.65	1050.57	0.1	17.36	239.82 BDL		2.61	55.92
NA	8.41	1179.81 BDL		0.03	33.78 BDL		1.13	277.67
NA	4.36	654.85	0.09	5.94	140.51 BDL		0.4	52.52
NA	4.46	532.63	0.05	18.25	155.59	0.03	1.61	66.22
NA	1.78	2925.98	0.01	0.09	572.78	0.06	4.09	328.04
NA	2.27	2490.03 BDL		0.23	565.93 BDL		3.37	351.87
NA	1.97	2384.82 BDL		1.46	553.88 BDL		2.65	315.42
NA	2.69	3674.15 BDL		1.33	595.17 BDL		5.66	171.16
NA	2.37	2983.84 BDL		0.15	337.59 BDL		3.09	237.13
NA	3.33	3312.28	0.01	0.03	471.8 BDL		7.76	427.76
NA	2.13	3078.83 BDL		0.12	390.2 BDL		3.67	313.72
NA	2.7	3464.44 BDL		0.24	460.6 BDL		5.01	406.34
NA	0.63	43.56	0.01	0.1 BDL	BDL		0.02	10.7
NA	3.17	3810.65 BDL		1.17	695.88 BDL		6.27	432.24
NA	2.82	3522.88 BDL		1.01	420.4 BDL		5.18	335.21
NA	3.62	421.95	0.06	0.76	789.87 BDL		1.03	420.38
NA	6.34	499.48 BDL		0.03	725.84 BDL		3.53	293.68
NA	3.43	518.83	0.05	0.38	474.5 BDL		1.79	359.57
NA	3.31	442.47	0.02 BDL		272.75	0.04	2.45	183.3
NA	4.55	440.02	0.06	0.35	454.66	0.12	7.04	323.36
NA	5.25	351.18	0.05	0.12	533.01 BDL		2.28	155.21
NA	3.89	1124.1	0.08	0.13	734.47 BDL		11.04	122.03
NA	2.13	672.09	0.02	3.96	354.77 BDL		3.44	171.23
NA	8.07	800.91	0.04	0.71	1471.13 BDL		2.3	196.8
NA	3.11	630.6	0.07	0.03	1598.96 BDL		0.92	165.61
NA	3.21	799.93	0.07	1.1	932.38 BDL		1.58	188.01
NA	2.61	693.2 BDL		0.31	885.06 BDL		0.04	238.27
NA	4.09	601.15	0.01	0.03	622.33 BDL		7.38	295.93
NA	3.63	162.63 BDL		0.06	162.5 BDL		0.07	11.88
NA	5.05	413.93	0.01	0.1	581.21 BDL		0.25	21.73
NA	5.73	719.47 BDL	BDL		91.72	0.03 BDL		7.47
NA	6.52	1197.94	0.02	0.5	545.11	0.55	2.04	75.17
NA	4.04	755.98	0.05	0.21	421.5 BDL		1.08	44.76
NA	3.86	544.18	0.01	0.04	354.7 BDL		0.25	50.71
NA	7.26	908.7 BDL	BDL		372.46 BDL		0.47	72.72
NA	8.62	1640.83	1.01 BDL		11176.19 BDL		0.48	413.45
NA	9.32	1890.92	0.05	0.07	1903.08 BDL		0.51	510.19
NA	6.4	1051.19	0.1 BDL		1515.8 BDL		0.94	335.82
NA	3.84	1151.89	0.02	0.14	849.82 BDL		1.72	249.91
NA	3.69	1399.29 BDL		0.12	802.83 BDL		1.91	359.56
NA	4.17	1269.76	0.01	3.46	1421.4 BDL		1.97	396.78
NA	1.33	4122.56	0.01	0.03	374.64 BDL		0.88	198.56
NA	1.62	4588.02 BDL		0.11	352.45 BDL		0.95	192.18
NA	1.58	3840.09	0.01	2.28	539.71 BDL		2.55	322.91
NA	1.65	4162.87 BDL		0.03	429.95 BDL		0.95	198.91
NA	1.3	4684.66	0.02	0.07	444.13 BDL		2.5	234.37
NA	1.16	4620.2 BDL		0.33	412.9 BDL		1.82	251.1
NA	1.66	2624.27 BDL	BDL		660.03 BDL		0.79	372.83
NA	4.34	1895.96	0.08 BDL		2238.41 BDL		0.47	727.41
NA	4.6	1099.31	0.01	0.22	2790.04 BDL		0.69	1079.18
NA	3.71	1231.21	0.03	4.39	1460.61 BDL		1.28	740.34
NA	4.48	1141.72	0.01	11.39	2767.3 BDL		0.97	1077.41
NA	1.99	29	0.03	0.37	704.19 BDL		0.26	373.22
NA	1.87	88.57	0.07	1.02	780.75	0.02	0.14	384.58
NA	2	16.05	0.04	0.79	681.88	0.01	0.28	361.71
NA	3.08	42.04	0.02	0.94	449.58 BDL		0.48	329.98
NA	3.28	74.9 BDL		0.92	465.03	0.02	0.32	366.16
NA	2.19	16027.36	0.01	0.19	578.85 BDL		0.55	498.64

NA	1.57	17708.59	BDL		0.18	569.54	BDL		0.58	500.95
NA	1.13	575.36	BDL		0.05	164.38	BDL		0.07	182.63
NA	3.14	170.95	BDL		0.16	15.51	BDL		0.14	15.34
NA	5	472.47	BDL		0.83	404		0.13	2.01	353.89
NA	2.43	333.54	BDL	BDL		10.74	BDL		0.03	8.26
NA	11.97	446.6		0.05	1.35	517.96		0.06	6.26	145.32
NA	19.06	544.35	BDL		0.16	410.25	BDL		12.79	265.72
NA	9.75	669.51	BDL	BDL		897.67	BDL		6.07	587.63
NA	11.19	923.47		0.03	29.58	710.8	BDL		20.98	531.14
NA	7.67	1001.92	BDL		5.62	454.89	BDL		13.73	420.11
NA	11.54	596.15	BDL		7.91	192.13	BDL		5.21	78.41
NA	7.41	398.39	BDL	BDL		20.39	BDL		0.39	5.34
NA	7.48	361.54		0.01	0.02	45.77	BDL		1.29	13.34
NA	25.84	230.98	BDL	BDL		28.77	BDL		0.23	17.72
NA	9.46	111.72		0.03	0.51	39.49	BDL		0.24	11.58
NA	13.74	457.77		0.09	3.77	423.77	BDL		9.18	154.54
NA	16.91	486.88		0.23	10.77	361.9	BDL		18.27	68.31
NA	18.56	602.46		0.09	1.38	296.68	BDL		29.71	44.79
NA	18.67	370.68		0.06	8.98	197.08	BDL		10.6	25.75
NA	2.32	3709.27	BDL		0.04	1232.61	BDL		0.05	815.96
NA	14.71	931.45	BDL		4.06	776.14	BDL		14.06	1230.62
NA	18.59	248.99		0.04	1.18	310.86	BDL		0.4	212.41
NA	28.99	257.13	BDL		0.3	336.87	BDL		0.23	424.71
NA	22.24	305.46	BDL		0.37	98.16	BDL		0.31	262.11
NA	16.91	289.18	BDL		0.06	10.04	BDL		0.04	70.77
NA	16.06	184.56	BDL		0.15	30.43		0.02	0.06	84.6
NA	12.61	192.06	BDL		0.15	121.54	BDL		0.02	141.85
NA	11.72	260.04	BDL		0.1	19.58		0.02	0.04	73.28
NA	13.98	281.27	BDL	BDL		256.16		0.07	0.09	121.15
NA	20.22	2189.45	BDL	BDL		95.49	BDL		1.66	45.39
NA	10.55	292.67	BDL	BDL		10.53	BDL	BDL		1.3
NA	13.17	575.94		0.09	0.02	149.28	BDL		1.77	84.54
NA	35.65	2114.78		0.04	0.34	540.28	BDL		77.84	155.42
NA	26.19	2682.33		0.04	0.48	170.94	BDL		3.37	49.48
NA	11.44	341.86	BDL		0.05	28.31	BDL		1.14	128.9
NA	8.22	195.28		0.01	BDL	14.53	BDL		0.06	36.32
NA	9.6	734.1	BDL		0.45	120.73	BDL		0.78	149.11
NA	14.92	1016.89		0.04	0.74	447	BDL		1.17	342.78
NA	26.54	1079.92		0.08	5.11	600.82	BDL		12.82	541.52
NA	11.98	181.08	BDL		0.03	141.34	BDL		0.13	33.68
NA	14.08	410.84	BDL		0.31	80.69	BDL		1.73	192.07
NA	13.41	525.7		0.07	BDL	68.58	BDL		0.66	162.78
NA	7.14	817.86	BDL		0.2	531.4		0.02	0.45	249.3
NA	8.34	2737.18	BDL		0.36	301.16	BDL		1.1	146.67
NA	9.47	2275.93	BDL		9.85	630.81	BDL		0.96	157.95
NA	16.7	2657.52	BDL		0.39	497.37	BDL		1.09	219.49
NA	15.82	1191.75	BDL		1.3	1844.31	BDL		0.62	541.9

Y_ppm	Yb_ppm	Zn_ppm	Zr_ppm
71.95	2.09	2.39	0.1
78.03	3.98	5.01	0.14
72.88	3.6	8.47	0.16
35.88	2.22	4.58	0.09
61.76	2.16	136.27	1.62
81.94	4.33	6.4	0.31
68.29	3.51	5.01	0.39
74.88	4.76	4.81	0.46
18.24	0.42	5.19	0.32
23.2	1.81	34.24	14.47
226.06	10.03	183.6	25.46
17.89	1.36	238.9	9.81
15.93	1.12	141.09	13.05
8.99	0.88	148.25	12.15
15.43	2.3	501.45	52.28
13.25	1.61	781.06	28.9
7.19	0.7	77.87	1.12
65.99	5.07	121.35	5.61
77.56	5.38	561.47	76.64
15.69	0.98	217.7	2.33
22.18	1.47	521.21	4.63
13.96	0.86	114.75	1.48
28.25	1.56	676.38	3.56
71.65	4.02	176.77	9.74
138.32	6.79	154.61	1.88
4.93	0.41	537.31	5.82
3.79	0.53	355.86	2.41
54	3.47	2284.87	10.78
31.45	1.94	17.72	10.23
7.01	0.47	194.27	0.41
4.95	0.46	3.68	0.59
1.01	0.29	37.69	1.09
34.35	3.04	1345.81	63.02
79.89	4.79	1679.59	1.26
0.39 BDL		2054.02	0.38
2.04	0.14	7.85	10.09
6.41	0.55	590.55	1.66
9.83	1.26	336.19	5.48
6.51	0.82	1063.16	9.1
3.45	0.44	12	1.34
8.38	1.36	5.6	6.26
89	6.87	11.34	35.25
164.85	12.26	5754.3	24.16
117.73	10.3	267.72	22.48
197.72	13.36	153.74	20.28
56.31	4.64	300.27	8.93
32.52	3.02	81.57	17.17
84.33	7.82	99.27	53.02
16.64	0.94	39.65	3.23
65.87	4.2	352.68	16.44
103.61	5.63	48.74	17.49
61.59	2.97	64.35	1.19
114.03	7.2	64.4	4.12
228.78	13.14 BDL		0.29
67.3	3.39	4.33	0.2
42.33	1.31	3.14	0.04
38.01	2.27	7.6	0.56
0.72 BDL		8 BDL	
11.67	0.83	5.56	0.55
87.08	7.99	9.46	12.58
52.52	5.43	3.39	8.75
23.37	1.89	13.76	4.08
13.39	0.94	8.25	4
9	1.07	8.09	5.71
4.71	0.61	39.04	10.96
19.34	2.13	12.78	6.7
46.37	2.17	8.94	11.54
6.55	0.27 BDL		1.28
65.3	4.84	7.01	28.64
26.62	1.06	13.34	202.85
98.68	6.66	6.54	82.93

	13.31	0.53	1.94	11.93
	119.44	4.33	3.21	12.27
	14.09	0.39	4.91	18.07
	125.21	3.29	4.99	20.1
	23.88	1.05	41.94	1.86
	17.83	0.91 BDL		15.07
	93.47	6.18	38.65	17.26
	108.38	5.79	10.42	0.77
	225.01	8.82	31.68	11.54
	208.83	9.88	57.62	18.29
	187.47	8.68	2.03	49.2
	181.35	8.25	2	11.91
	133.27	7.56	20.62	12.69
	352.72	11.15	6.77	6.17
	261.75	11.02	7.72	4.58
	286.72	9.2	6.49	3.52
	337.02	12.57	25.97	37.92
	89.6	11.58	47.7	20.22
	0.15 BDL		73.03 BDL	
	21.96	1.51	45.01	2.53
BDL	BDL		21.81	0.1
BDL	BDL		8.77 BDL	
	0.12 BDL		21.57 BDL	
	0.07 BDL		33.01 BDL	
BDL	BDL		27.61 BDL	
	1.7	0.12	38.33	0.98
	1.99	0.35	8.21	20.93
	151.43	6.56	11.39	6.98
	10.55	0.74	5.43	1.27
	17.66	1.44	12.45	1.04
	20.5	2.21	19.06	37.72
	30.47	2.23	4.95	2.32
	99.95	3.97	6.44	25.63
	226.87	13.7	2.3	25.42
	256.75	9.98	72.33	17.91
	56.64	2.84	38.57	176.05
	135.71	4.52	2.8	43.91
	287.19	14.18	36.87	10.07
	316.25	6.68	18.76	6.69
	264.21	10.13	48.65	32.21
	301.37	8.88	116.54	46.04
	5.01	0.73	13.93	7.73
	70.31	8.39	18.84	63.04
	56.45	2.48	206	7.58
	12.49	0.97	14.25	12.57
	121.25	6.19	53.74	11.26
	52.96	2.37	564.79	1.81
	22.46	1.02	413.35	2.45
	20.55	1.16	341.41	1.41
	1.12 BDL		2.99	0.07
	5.51	0.42	5	0.14
	1.29 BDL		3.34	0.14
	55.57	3.15	23.48	0.31
	17.25	0.6	5.46	0.38
	67.1	4.1	9.72	0.57
	4.26	0.3	17.03	0.93
	18.01	1.1	81.08	1.45
	20.22	1.78	13.12	0.98
	24.57	1.59	16.17	3.59
	11.43	0.47	4.91	2.34
	4.23	0.2	4.6	1.53
	1.42 BDL		3.56 BDL	
	54.58	2.75	13.36	0.25
	35	1.97	46.69	13.42
	36.53	2.15	11.02	8.35
	27.33	1.04	61.38	12.36
	22.03	3	106.63	7.74
	2.21	0.34	690.71	8.16
	9.44	0.58	25.48	2.55
	1.37 BDL		6.95	0.08
	7.58	0.22	85.63	0.37
	3.02	0.2	8.55	0.51
	0.89	0.16 BDL	BDL	

17.03	1.1	64.6	2.05
1.99 BDL		7.63	0.87
0.88	0.2	5.91	0.68
14.83	1.42	5.76	2.67
72.45	9.49	2506.81	10.81
151.65	21.9	1208.16	3.87
37.6	4.77	966.14	19.7
210.25	13.96	7.2	1.74
67.66	8.45	785.41	3.01
315.19	43.13	951.68	12.77
0.64	0.14	35.59	0.39
291.68	9.08	9.86	184.6
339.64	9.66	4.92	38.95
127.16	8.07	4.27	2.6
115.16	7.3	7.04	2.44
125.07	6.71	5.83	1.84
194.73	10.09	4.47	86.01
279.09	10.98	6.21	80.91
427.99	14.77	3.92	66.75
171.41	6.15	4.91	83.33
117.76	3.41	3.25	46.92
249.49	18.19	4.14	88.29
296.26	20.75	3.23	83.04
249.04	16.42	3.53	77.19
245.61	18.78	4.52	92.59
45.01	1.36	3.13	0.85
7.89	0.48	1.26	0.31
28.55	0.98	2.11	1.1
192.92	20.14	789.03	7.54
332.89	29.51	665.27	9.44
189.11	18.94	1506.59	5.99
207.48	18.87	815.04	23.54
320.24	27.98	382.21	24.85
262.1	22.59	523.62	26.19
53.35	2.93	2.08	2.96
78.36	4.69	5.19	18.72
67.18	2.98	2.54	0.89
44.37	3.46	7.63	8.18
156.23	9.05	12.77	16.64
64.54	3.94	4.78	4.76
152.16	8.69	14.35	16.21
41.77	1.93	4	1.61
98.92	4.8	4.25	3.64
80.89	3.76	3.28	1.64
97.67	2.99	8.08	4.11
25.53	1.36	10.86	4.62
32.29	1.63	2.04	3.36
37.25	2.04	4.63	2.52
30.25	1.51	3.03	1.8
54.61	2.8	3.49	3.19
31.74	2.03	8.22	6.96
126.46	6.29	42.59	22.54
11.69	0.66	16.33	2.3
119.79	6.48	10.11	10.56
17.24	0.83	57.77	4.83
10.56	0.73	9.12	4.39
47.1	2.52	17.23	2.68
56.7	3.26	28.09	8.21
24.23	1.51	28.24	9.34
43.39	3.92	32.02	65.75
61.65	4.92	23.64	27.01
58.14	3.82	42.46	11.56
55.65	4.37	36.61	27.96
3.77	0.67	6.42	35.8
76.27	5.49	30.46	38.83
43	3.54	43.15	62.77
57.61	6.25	59.69	206.44
307.7	6.33	4.99	42.79
158.8	5.83	4.49	7.86
150.64	7.75	2.88	19.45
112.12	3.26	5.84	49.32
324	9.23	4.22	17.81
202.42	9.11	5.24	15.76

181.68	10.27	3.72	19.66
219.91	8.74	3.73	18.18
178.58	9.17	3.71	19.3
19.37	1.25	12.69	2.11
10.03	0.91	12.63	0.99
39.09	2.63	15.33	3.82
10.49	0.72	160.52	0.74
80.11	4.2	167.96	33.95
60.03	3.74	325.52	90.15
43.47	3.43	1178.58	78.78
7.93	2.14	132.7	58.64
16.16	1.12	7.93	1.05
41.93	2.48	31.29	4.15
46.04	3.25	318.21	4.05
4.16	0.46	12.73	1.38
16.06	1.08	21.6	4.6
0.41 BDL		63.13	0.18
0.66	0.07	10.29	0.08
0.34 BDL		4.52	0.28
3.23	0.43	20.38	5.36
212.58	9.87	175.17	19.91
80.01	6.45	5.79	4.71
109.08	6.84	6.8	5.8
98.28	7.94	7.4	85.54
9.56	0.67	3.64	0.46
71.04	5.76	4.15	4.81
182.74	9.38	7.9	1.55
6.46	0.23	2.58	0.18
25.81	2.43	5.11	2.05
3.34	0.26	2.48	0.31
7.44	0.5	8.14	0.5
108.83	8.23	73.94	0.41
63.68	4.09	108.13	12.61
89.41	7.86	58.83	1.09
11.79	1.05	823.75	3.93
3.01	0.38	737.76	3.95
5.75	0.32	453.16	1.47
1.05 BDL		12.99	0.37
16.61	0.69	12.24	0.16
50.2	2.91	5.47	2.87
75.65	6.69	46.9	8.26
54.39	3	65.83	10.41
54.33	3.57	143.54	1.19
54.39	3.58	12.1	13.2
10.31	1.26	260.75	3.2
19.18	1.55	171.14	4.72
70.51	5.54	87.42	34.02
69.72	5.28	3.16	0.58
199.11	30.12	49.66	8.15
132.18	18.61	673.56	2.37
224.67	13.83	387.77	5.52
72.42	7.17	228.18	0.6
186.32	11.5	410.31	2.22
45.35	2.53	136.01	1.75
17.9	0.43	9.8	0.97
119.31	1.88	21.57	6.26
239.95	9.05	19.88	16.44
12.71	0.32	11.21	0.5
10.14	0.54	60.17	2.37
6.95	0.97	23.42	4.34
4.46	0.31	235.68	0.38
4.81	0.48	43.03	4.01
1.69	0.25	32.77	0.84
3.46	0.29	34.21	6.98
126.9	8	2.28	26.17
4.89	0.37	2.23	10.32
21.46	1.62	1.47	4.45
23.8	1.16	3.54	13.65
120.78	3.77	2.15	6.15
11.95	0.83	4.14	0.59
5.08	0.42	3.27	1.77
5.18	0.4	8.99	0.46
1.7	0.11	12.88	1.52

3.32	0.27	8.43	0.66
271.68	32.87	9.63	31.77
22.73	1.62	3.52	2.14
11.62	1.43	2.56	10.33
18.57	2.22	7.81	61.84
0.31	0.11	13.04	1.08
10.8	2.28	10.15	28.48
5.83	0.5	5.91	1.44
22.08	2.57	57.38	5.5
393.74	20.73	18.12	5.9
242.69	14.68	17.19	14.54
45.98	3.77	12.23	17.56
26.66	2.37	32.42	5.47
22.11	0.73	6.61	9.28
125.18	6.93	13.92	5.08
6.86	0.47	28.49	2.35
141.83	8.47	61.72	20.83
6.88	0.71	15.35	5.88
1.11	0.27	20.12	35.05
0.74	0.11	9.89	1.36
0.46	0.17	4.02	18.09
9.28	0.82	7.55	1.77
16.53	0.92	9.93	4.98
16.98	1.11	5.59	1.01
14.56	1.74	9.14	3.91
78.96	3.21	8.98	16.41
14.24	0.99	6.75	8.11
38.19	2.55	10.89	11.61
50.69	2.93	7.76	4.68
337.64	23.12	7.86	25.74
770.81	43.74	13.04	323.37
172.54	12.89	5.19	46.54
289.83	33.37	77.05	23.67
110.15	7.83	47.16	36.15
196.89	25.93	531.66	33.85
67.02	5.78	122.81	6.76
28.85	2.57	162.04	10.67
20.81	1.78	29.1	12
19.36	2.02	11.51	8.65
8.94	0.95	18.93	5.1
17.9	2.4	7.04	18.77
87.34	7.72	42.15	144.17
49.35	3.37	35.42	49.01
19.88	1.42	70.34	23.72
18.5	1.5	17.67	15.26
26.77	3.32	5.98	9.79
20.07	1.93	9.59	10.85
10.8	0.92	5.52	10.33
24.52	2.93	834.58	194.11
0.05	0.03	100.41	0.32
0.05 BDL		79.47	0.21
0.98	0.1	435.12	0.36
0.11 BDL		172.05	0.44
13.91	1.37	226.05	39.83
0.7	0.17	6.48	3.95
3.57	0.21	3.8	0.3
60.66	4.08	1.71	2.65
10.31	1.12	84.35	6.79
0.56	0.11	9.85	0.29
4.42	0.26	2.86	0.15
3.13	0.15	2.37	0.07
5.38	0.37	18.12	0.32
53.61	3.44	56.72	0.74
23.49	1.55	12.37	5.32
57.8	2.69	19.96	8.6
54.87	3.16	23.27	64.69
3.02	0.38	8.38	1.31
24.43	2.04	26.74	14.91
45.31	2.29	18.72	20.06
36.83	3.28	9.74	84.93
46.6	2.83	7.05	12.24
91.68	4.51	11.06	16.85
1.88	0.5	24.44	4.12

2.26	0.24	26.13	5.49
80.88	6.2	3.82	18.11
49.71	3.68	8.93	19.05
16.53	3.12	2.71	11.32
17.42	2.48	2.48	22.15
29.64	3.47	3.82	15.33
35.95	2.3	29.1	27.51
63.66	2.53	7.22	23.75
172.97	6.51	2.33	0.98
83.57	4.25	2.61	0.35
84.14	3.83	3.08	0.41
271.96	11.63	6.05	1.48
62.33	2.52	2.62	8.81
91.46	4.18	9.73	6.73
233.3	4.52	3.79	7.01
144.62	4.12	1.63	9.76
94.35	3.73	34.09	6.48
69.41	4.09	27.09	4.73
57.04	2.79	30	1.46
1.85	0.12	18.32	0.46
14.18	1.47	12.31	1.02
0.1 BDL		16.47	0.02
1.61	0.27	488.98	0.11
3.98	0.33	125.91	1.03
2.1	0.25	64.38	0.08
13.61	1.23	125.97	9.67
0.23 BDL		440.27 BDL	
82.03	6.7	6.68	214.47
34.91	3.12	10.17	112.33
17.92	2.52	4.54	177.93
22.78	2.21	3.83	49.27
20.68	2.2	8.8	139.53
25.72	1.98	4.66	36.54
34.1	4.1	14.09	179.03
191.07	9.24	5.68	35.26
49.36	5.48	6.47	99.63
42.25	5.18	11.53	151.52
20.6	2.22	4.03	94.31
38.52	3.22	27.94	86.16
9.31	1.44	19.46	79.77
26.71	2.98	4.4	178.52
41.29	4.51	7.7	99.2
17.7	1.63	16.66	109.73
41.52	4.95	6.05	182.17
22.92	2.29	23.67	66.31
30.45	3.9	21.09	160.8
15.38	1.19	10.99	13.85
15.17	1.41	14.14	13.26
16.82	1.41	8.54	18.38
26.37	2.66	11.91	109.39
37.95	5.89	6.22	20.29
9.4	0.43	8.04	2.3
1.73	0.24	5.99	2.7
36.53	3.52	14.86	9.17
5.81	0.59	8.32	1.72
15.62	1.45	12.57	13.7
24.46	2.66	5.72	30.28
7.22	1.05	3.94	53.4
14.21	1.86	11.15	167.31
12.3	0.8	6.61	22.5
15.36	2	3.35	126.24
12.79	1.28	3.82	28.34
7.43	0.85	19.84	34.79
5.61	0.48	2.89	5.62
17.37	1.99	3.25	105.89
22.51	1.55	4	63.61
25.86	1.44	1.98	7.5
38.88	5.2 BDL		5.77
9.97	1.08	31.81	42.2
9.99	1.56	9.32	74.7
4.42	0.67	11.44	22.4
30.87	3.97	22.31	70.98
2.89	0.26 BDL		0.2

72.35	8.21	4.86	0.32
33.5	4.93	23.31	0.39
44.03	5.04	8.85	6.94
23.74	4.67	10.93	1.77
207.92	17.8	13.14	6.13
47.78	4.03	11.98	2.65
28.38	2.6	9.66	0.72
1.92	0.42	5.27	0.09
0.65 BDL		8.09	0.21
0.8	0.05	3.92	0.04
8.98	1.07	64.08	2.18
14.51	2.4	6.01	190.9
10.92	1.17	14	38.24
0.96	0.17	82.64	0.2
35.87	4.08	196.49	1.12
3.21	0.2	9.29	0.1
14.42	0.85	6.4	0.65
131.75	7.52	96.83	28.98
229.03	22.99	110.7	23.68
548.97	53.2	151.18	2.98
548.64	52.81	145.82	2.98
524.78	52.31	161.29	3.36
359.72	33.89	89	1.6
370.65	37.03	158.71	2.19
233.98	34.23	49.23	6.39
463.27	44.51	16.79	10.18
19.57	2	11.24	0.1
354.48	32.87	55.41	4.67
799.47	113.24	104.78	5.57
0.86	0.33	3.42	1.9
17.39	1.99	9.59	21.85
49.58	5.58	6.34	7.45
52.24	3.91	5	3.89
1.11 BDL		15.36	0.7
205.69	12.14	19.22	0.99
218.84	17.07	8.04	6.16
49.97	3.64	9.74	6.68
58.09	6.31	85.18	5.37
18.98	2.11	1.56	0.27
182.64	18.42	5.13	5.74
105.85	10.33	8.71	7.2
61.9	7.15	5.53	6.32
2.94	0.7	1.53	3.68
0.56	0.08	7.4 BDL	
0.9	0.14	8.77	0.16
0.88	0.12	4.94	0.47
6.93	0.46	11.84	2.19
2.03	0.43	6.27	0.22
3.87	0.34	3.22	0.12
1.78	0.4	7.16	0.54
5.51	0.91	5.97	0.16
10.07	0.6	47.64	2.87
49.74	2.65	30.01	4.13
11.98	0.87	9.67	4.35
36.04	2.26	8.48	1.17
10.11	0.66	10.97	1.62
41.81	3.49	16.06	1.14
0.95 BDL		6.09	0.08
8.36	1.76	5.41	4.94
55.98	8.67	29.67	0.15
104.7	16.45	23.38	0.62
108.63	15.74	22.62	0.89
27.1	5.68	236.95	0.47
681.42	59.13	304.93	0.34
1171.74	106.08	480.86	2.64
697.42	89.88	147.86	0.79
148.18	14.71	10.45	0.54
53.08	7.25	99.27	2.02
12.25	1.01	653.4	3.04
158.65	14.91	108.31	3.72
23.63	2.38	131.41	9.49
49.85	2.87	13.74	0.09
2.87	0.31	4.64	0.16

4.57	0.5	6.18	0.09
2.18	0.33	8.07	0.07
0.33 BDL		12.6 BDL	
1.19 BDL		18.6	0.25
5.97	0.72	28.81 BDL	
0.9 BDL		3.73 BDL	
1.82	0.32	7.78 BDL	
1.88	0.25	9.51	0.48
0.53	0.15	9.29 BDL	
0.51 BDL		5.33	0.13
0.43 BDL		7.59	0.06
3.64	0.82	7.93	0.16
1.03	0.13	7.9	0.43
1.84	0.27	32.34	0.14
8.69	0.9	8.34	15.7
26.04	3.64	24.37	30.09
2.67	0.14	7.68	0.06
2.06	0.32	32.91	6.68
9.64	1.89	12.65	28.01
77.57	5.46	50.18	22.26
71.52	4.38	52.55	23.41
90.84	5.74	55.28	57.95
175.69	8.56	9.53	98.54
91.07	5	14.18	54.99
164.48	7.99	16.68	80.25
107.59	5.1	20.64	56.03
43.27	2.69	13.04	35.75
0.1 BDL	BDL		0.22
63.3	3.91	12.51	30.97
55.74	3	8.25	63.13
15.47	4.23	13.28	0.68
0.92 BDL		14.92	0.57
11.09	2.86	15.67	0.65
0.88	0.25	7.09	0.14
4.25	0.72	24.12	0.9
3.74	0.68	7.99	0.31
35.83	3.29	42.29	3.55
22.91	1.47	17.56	2.27
13.34	1.42	33.65	19.71
3.48	0.23	36.04	1.6
18.32	1.12	23.25	14.71
0.5 BDL		18.51 BDL	
56.44	3.84	12.1	2.39
0.59	0.1	4.98	0.22
2.24	0.25	9.88	0.62
0.15	0.07	3.37 BDL	
7.31	0.49	24.49	3.99
4.75	0.85	12.83	2.43
3.11	0.44	9.47	0.96
9.33	1.12	6.94	1.18
2.16	0.13	30.01	2.89
1.8 BDL		19.02	2.52
3.23	0.17	21.18	1.45
6.41	0.65	94.71	5.27
3.42	0.55	43.04	7.12
12.28	0.95	59.91	11.16
4.28	0.44	2.79	1.71
2.86	0.33	2.65	2.07
5.81	0.53	2.68	18.08
5.8	0.41	3.07	4.19
5.26	0.52	3.76	3.83
7.97	0.76	2.17	6.33
2.86	0.22	3.68	4.05
5.94	0.33	22.44	0.77
4.45	0.21	27.17	2.6
38.67	2.19	23.63	2.27
1.71	0.22	26.11	3.98
1.3	1.56	1.56	3.57
3.35	1.23	2.31	144.91
1.31	1.71	5.87	10.15
4.78	4.45	4.65	17.68
6.86	3.89	5.38	15.18
619.36	24.43	6.27	78.5

621.4	23.57	2.39	49.27
0.17 BDL		41.94	0.51
6.94	0.15	15.32	1.54
14.8	1.51	35.73	6.54
0.18 BDL		13.53 BDL	
44.06	3.49	10.27	2.29
29.55	3.58	9.62	2.49
20.37	2.59	6.04	1.86
160.41	15.84	13.26	69.65
68.78	6.18	18.01	32.81
26.17	2.46	23.1	2.09
0.42 BDL		1.63 BDL	
3.12	0.32	2.66 BDL	
0.53	0.15	2.38 BDL	
0.89	0.21	5.61	2.96
46.04	5.43	10.91	15.91
420.63	35.27	40.37	1.74
521.63	47.39	14.1	0.55
264.08	24	8.61	14.3
18.47	2.45 BDL		51.49
366.78	32.51	3.55	35.3
10.84	0.93	4.84	19.32
6.24	0.48	10.37	10.08
2.92	0.64	4.96	3.65
0.62 BDL		5.2	1.58
0.46 BDL		3.05	4.1
0.91	0.16	3.88	2.79
0.41	0.09	5.54	1.06
1.35	0.11	5.24	0.8
4.92	0.49	3.48	0.09
0.31 BDL		1.62 BDL	
39.24	3.14	2.29	0.95
104.73	10.66	4.37	9.57
4.69	0.54	2.77	0.31
5.28	0.96	10.56	0.34
0.07 BDL		1.69	0.07
5.77	0.66	6.31	0.85
17	1.46	16.86	0.95
254.08	22.29	30.2	7.42
0.65 BDL		15.82 BDL	
13.58	1.56	22.27	0.2
1.08	0.44	5.28 BDL	
3.67	0.49	12.47	0.67
38.07	3.51	2.4	24.73
96.66	9.53	16.76	115.29
202.67	12.95	7.13	28.21
148.38	25.46	4.41	198.98