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Coupled oceanic oxygenation and metazoan diversification during the early–middle Cambrian?

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DR1. Geological setting

DR1.1. Paleogeography, lithostratigraphy and biostratigraphy

The South China Craton was an isolated microcontinent near the northern margin of Gondwana during the early Cambrian (Li et al., 2008). The Nanhua Basin, which was located between the Yangtze and Cathaysia tectonic blocks, is considered to have been in direct contact with the global ocean during the early Cambrian based on paleogeographic reconstructions (Li et al., 2008), paleontological data (e.g., Steiner et al., 2007; Vannier et al., 2014), and carbonate carbon isotope profiles (e.g., Ishikawa et al., 2008). The Ediacaran-early Cambrian successions on the Yangtze Platform represent various paleoenvironmental settings, including a broad platform to the northwest, a transitional belt in the central region, and a deep-water basin to the southeast (Fig. DR1; Steiner et al., 2007; Zhu et al., 2007). The shelf regions of the Yangtze Platform were partially eroded during the earliest Cambrian as a consequence of subaerial exposure (Zhu et al., 2003; Jiang et al., 2012). During Cambrian Age 2 (~early Tommotian), a marine transgression resulted in deposition of organic-rich black shales across the entire Yangtze Platform (Zhu et al., 2003; Steiner et al., 2007; Jiang et al., 2012). The early Cambrian successions of the Yangtze Platform are generally condensed in comparison with those elsewhere, e.g., as in Siberia (Kouchinsky et al., 2007) and Morocco (Maloof et al., 2010).

Our study locales are (1) the composite Jiuqunao-Wangjiaping section (30°53’0.93’’N,

110°52’47.25”E for Jiuqunao, as reported by Och et al. (2016); 30°48’41”N and 111°11’12”E for Wangjiaping, which is located ~30 km southeast of Jiuqunao in Hubei Province), (2) the composite Wuhe-Geyi section (26°45’34”N-108°24’33”E for Wuhe; 26°48’12”N-108°14’10”E for Geyi, which is located ~25 km southwest of Wuhe in Guizhou Province), and (3) the Zhalagou section (25°59’6”N-107°53’32”E, Guizhou Province). Paleogeographically, the Jiuqunao-Wangjiaping section represents an outer-shelf setting (Shi et al., 2009; Jiang et al., 2012), the Wuhe-Geyi section represents a slope setting (Yin et al., 1982; Yin, 1996; Yang et al., 2003; Da et al., 2011; Peng et al., 2012), and the Zhalagou section represents a basinal setting (Yin, 1990) (Fig. DR1).

The lower Cambrian succession at Jiuqunao-Wangjiaping consists of the Yanjiahe, Shuijingtuo, Shipai, and Tianheban formations (Fig. DR2). The Yanjiahe Formation, which disconformably overlies the late Ediacaran Dengying Formation, is divided into two members based on lithology: (1) a lower member consisting mainly of sandy/cherty dolomites, in which *Micrhystridium*-like acritarchs and small shelly fossil assemblage 1 (SSFA 1, characterized by *Anabarites trisulcatus-Protohertzina unguliformis*) were preserved, and (2) an upper member consisting mainly of interbedded limestone and black shale, in which SSFA 3 (characterized by *Watsonella crosbyi*) was preserved (Jiang et al., 2012). The Shuijingtuo Formation is mainly composed of black shale in the lower member and limestone in the upper member, in which trilobites such as *H. orientalis*, *Metaredlichia* sp. were found (Xiang et al., 1987). The Shipai Formation consists mainly of thin- to medium-bedded mudstone, thin-bedded siltstone, silty mudstone and sandstone, intercalated with numerous thin beds of limestones, indicative of a deep-shelf setting below storm wavebase (Xiang et al., 1987; Shi et al., 2009). This formation

contains abundant fossils including trilobites such as *R. meitanensis* and *P. lantenosis*, the brachiopod *Diandongia pista*, and the palaeoscolecian *Maotianshania*, representing the Shipai Biota (Xiang et al., 1987; Zhang and Hua, 2005). The lower Tianheban Formation is composed of limestone, in which trilobites such as *B. liantuoensis* were found (Xiang et al., 1987; Yang et al., 2016).

The lower Cambrian succession at Wuhe-Geyi consists of the upper Liuchapo, Jiumenchong, Bianmachong, and Balang formations (Fig. DR2). The upper member of the Liuchapo Formation, which conformably overlies the late Ediacaran lower member of the same formation, consists mainly of phosphatic chert and siliceous phosphate, in which *Kaiyangites novilis* and *Calcihexactina* sp., diagnostic fossils of SSFA 1, were preserved (Yin et al., 1982; Steiner et al., 2007). The Jiumenchong Formation is divided into two members based on lithology: (1) a lower member consisting of black shale, which has yielded a few sponge spicules of *Protospongia* sp. (Yin et al., 1982), and (2) an upper member consisting mainly of muddy limestone with intercalated black shale, which has yielded the trilobites *H. orientalis*, *H. guizhougensis*, and *Mayiella*, as well as some sponges (Yin et al., 1982; Yang et al., 2003). The Bianmachong Formation is composed mainly of black shale and thin intercalations of calcareous mudstone near its base, where trilobites *P. conica*, *P. lata*, and *C. pustulosa* are preserved at Nangao, a lithostratigraphically correlatable section located ~100 km southwest of Wuhe (Yin, 1987). The Balang Formation consists mainly of mudstone, silty mudstone, muddy siltstone, and calcareous silty mudstone exhibiting mostly horizontal bedding that is indicative of a low-energy deep-water setting (Da et al., 2011). The Balang Formation includes the *A. chauveaui*-*C. elongata* trilobite Zone, where various fossils of the Balang Biota are preserved (Da et al., 2011; Peng et al., 2012).

The lower Cambrian succession at Zhalagou consists of the Laobao, Zhalagou, and Duliujiang formations (Fig. DR2). The Laobao Formation, which conformably overlies the late Ediacaran Dengying Formation, consists mainly of phosphorite and chert. The Zhalagou Formation consists mainly of mudstones, in which a few sponge spicules and intact colonies have been found in the middle-upper and upper members, respectively (Yang et al., 2010). The Duliujiang Formation consists mainly of mudstones and thin intercalations of calcareous mudstone, from which abundant specimens of the trilobite *Kummingaspis* have been recovered (Yin, 1987).

DR1.2. Constraints on stratigraphic correlation

Stratigraphic correlation between shallow- and deep-water strata of early Cambrian age is generally difficult due to the relative paucity of age-diagnostic fossils in deep-water settings. Nonetheless, a regional correlation framework for the Yangtze Platform has been developed on the basis of bio- and lithostratigraphic data and radiometric ages (Yang et al., 2003; Zhu et al., 2003; Steiner et al., 2007; Wang et al., 2012a; Chen et al., 2015a; Jin et al., 2016; Fig. DR2).

The Ediacaran-Cambrian boundary has been placed at the top of the Dengying Formation and within the upper Liuchapo Formation based on multiple constraints (Fig. DR2). First, U-Pb dating of zircons has yielded an age of 542.1±5.0 Ma for the base of the Liuchapo Formation along its conformable contact with the underlying Dengying Formation at Ganziping, Hunan Province, and of 542.6±3.7 Ma for the upper Liuchapo Formation at Bahuang, Guizhou Province (Chen et al., 2015a). Second, this boundary conforms to the lithological transition from dolomite to chert at the Dengying-Liuchapo formation contact at both Ganziping (Chen et al., 2015a) and Zhalagou,

Guizhou Province (Cai et al., 2015). Third, the presence of SSFA 1 in the Zhujiaqing Formation at Xiaotan, Yunnan Province (Li and Xiao, 2004) and in the uppermost Liuchapo Formation at Wuhe, Guizhou Province (Yin et al., 1982) documents a Cambrian Fortunian Age (~541-529 Ma) for those units (Yin et al., 1982; Steiner et al., 2007).

The SSFA 3 in the upper Yanjiahe Formation at Jiuqunano-Wangjiaping is of early Cambrian Age 2 (~529-521 Ma; Steiner et al., 2007; Na and Kiessling, 2015). The onset of deposition of the lowermost Cambrian black-shale succession is regarded as a correlation marker on the Yangtze Platform (e.g., Zhu et al., 2003; Wang et al., 2012a). This event has been assigned to Cambrian Age 2 on the basis of multiple zircon U-Pb ages from a volcanic ash bed at the base of the black-shale succession: 526.5±1.1 Ma at Meishucun, Yunnan Province (Compston et al., 2008), 526.4±5.4 Ma at Yangtze Gorges, Hubei Province (Okada et al., 2014), 522.3±3.7 Ma at Bahuang, Guizhou Province (Chen et al., 2015a), 524.2±5.1 Ma at Panmen, Guizhou Province (Chen et al., 2015a), and 522.7±4.9 Ma at Taoying, Guizhou Province (Wang et al., 2012a). Therefore, the base of Shuijingtuo Formation at Jiuqunao-Wangjiaping may be correlated with the bases of the Jiumenchong Formation at Wuhe-Geyi and the Zhalagou Formation at Zhalagou (Fig. DR2).

The trilobite *H. orientalis* in the upper Shuijingtuo Formation at Jiuqunao-Wangjiaping and the upper Jiumenchong Formation at Wuhe-Geyi belongs to the *Yunnanaspis-Yiliangella* trilobite Zone (Yang et al., 2003), suggesting an age of late Age 3 (Na and Kiessling, 2015; Yang et al., 2016). The trilobites *R. meitanensis* and *Mayiella* at the base of Shipai Formation in the Jiuqunao-Wangjiaping sections and at the top of Jiumenchong Formation in the Wuhe-Geyi sections, respectively, belong to the first trilobite zone (*Drepanuroides*) of lower Stage 4 of middle Cambrian (~514-509 Ma; Na and Kiessling, 2015; Yang et al., 2016). The trilobite *B. liantuoensis*

at the base of Tianheban Formation at Jiuqunao-Wangjiaping belongs to third zone (*Megapalaeolenus*) of middle Stage 4 (Yuan and Zhao, 1999; Na and Kiessling, 2015). The *A. chauveaui-C. elongata* trilobite Zone from the Balang Formation at Geyi is correlative with the third zone (*Megapalaeolenus*) of middle Stage 4 (Yuan and Zhao, 1999; Na and Kiessling, 2015), thus the Balang Formation and the Tianheban Formation can be assigned to an age of middle Age 4. Because the trilobite *Kunmingaspis* belongs to the end trilobite zone (*Ch. Plana-P. kunmingensis*) of upper Stage 4 (Yuan and Zhao, 1999; Na and Kiessling, 2015), its presence at the base of the Duliujiang Formation at Zhalagou indicates that the lower Duliujiang Formation is of an age of late Age 4 of middle Cambrian (Fig. DR2).

DR2. Materials and methods

DR2.1. Samples and geochemical analyses

All samples were collected from the freshest outcrops at the three study sites. Large rock blocks (>200 g) were collected and trimmed to remove potentially weathered surfaces, post-depositional veins and visible pyrite nodule or bands prior to powdering. Each sample was broken into small pieces with a hammer and further pulverized to <200 mesh size using a vibratory disc mill (Retsch RS200) to yield powder for geochemical analyses. All geochemical analyses were conducted at the State Key Laboratory of Biogeology and Environmental Geology, China University of Geosciences (Wuhan).

Only samples with freshest looking and total iron (Fe_T; see below for its analysis method) >0.5% were conducted for iron speciation analyses. Highly reactive iron (Fe_{HR}), which includes iron in carbonates (Fe_{carb}), oxides (Fe_{ox}), magnetite (Fe_{mag}) and pyrite (Fe_{py}), were measured in this study. Fe_{carb}, Fe_{ox} and Fe_{mag} were determined following a standard procedure for

calibrated sequential extractions (Poulton and Canfield, 2005). Fe_{carb} was extracted at 50 ℃ for 48 hours in a sodium acetate solution buffered to a pH of 4.5 using analytical-grade acetic acid. Fe_{ox} was extracted at room temperature for 2 hours in a 50-g/L sodium dithionite solution buffered to a pH of 4.8 using 0.2-M sodium citrate and analytical-grade acetic acid. Fe_{mag} was extracted at room temperature for 6 hours in a 0.2-M ammonium oxalate and 0.17-M oxalic acid solution buffered to a pH of 3.2 using analytical-grade ammonia water. All extracts were diluted and measured for Fe content by atomic absorption spectroscopy (AAS) with a RSD of <5%. Fe_{py} was calculated based on extraction of pyrite sulfur using the Cr-reduction method (Canfield et al., 1986) and the 2:1 stoichiometric ratio of S:Fe in pyrite. An aliquot of sample powder (0.5-5 g) was reacted with 20 ml of 12-N HCl and 40 ml of 1-M $CrCl_2$ solution and heated under N_2 for 2 hours. The liberated hydrogen sulfide was reacted with silver nitrate to precipitate Ag_2S, which was subsequently filtered, rinsed, dried, and weighed. A sulfur recovery of 93.3 ± 2.8% (mean ± 1 SD, n = 9) was determined by replicate analyses of a pure pyrite standard (Alfa Aesar), as reported by Li et al. (2015).

Aliquots of sample powders for analyses of trace elements (e.g., U, Mo, and V) and Fe_T were ashed at 850 ℃ for 8 hours to remove volatile phases. About 50 mg of ashed sample was completely dissolved in a HF-HNO_3-HCl acid digestion step as described by Li et al. (2010, 2012). This dissolution step required heating of samples to 200 ℃ in a 15-ml Teflon bomb with the sequential addition of HNO_3, HNO_3-HF (1:2), and HCl. Following complete digestion, each sample was concentrated through evaporation and then diluted with 2% nitric acid. The resulting solutions were analyzed by quadrupole inductively coupled plasma mass spectrometry (ICP-MS) for trace elements and inductively coupled plasma-atomic emission spectrometry (ICP-AES) for

major elements. Analytical errors were better than ±5% for trace elements based on USGS (BCR-2) and Chinese national standards (GBW07103, GBW07104), and better than ±10% for major elements based on USGS (BCR-2, AGV-2) and Chinese national standards (GBW07107, GBW07108). Enrichment factors (EF) relative to AUCC (average upper continental crust; McLennan (2001) are presented for trace elements (e.g., U, Mo, and V), where X_{EF} = $(X/Th)_{sample}/(X/Th)_{AUCC}$ for element X.

Total organic carbon (TOC) was determined by difference between total carbon (TC) and total inorganic carbon (TIC) measured using a Jena Multi-EA 4000 carbon-sulfur analyzer. TC was liberated through online combustion at 1350 ℃, whereas TIC was calculated through acidification with ~30-40% phosphoric acid. Analytical errors were better than ±0.2% for carbon measurements based on two Alpha Resources standards (AR 4007 and AR 1034).

DR2.2. Statistical analysis of global iron speciation data from Ediacaran to middle Cambrian

In order to explore the Cambrian Age 2 to 4 oxygenation event within a secular framework, samples with Fe_T > 1% deposited in outer-shelf and basinal settings globally were selected for a statistical analysis of iron speciation data from the Ediacaran to the late Cambrian (~635-497 Ma; Canfield et al., 2007, 2008; Li et al., 2010, 2015; Johnston et al., 2012, 2013; Sahoo et al., 2012, 2016; Wang et al., 2012b; Frei et al., 2013; Creveling et al., 2014; Feng et al., 2014; Wen et al., 2014, 2015; Yuan et al., 2014; Cai et al., 2015; Chen et al., 2015b; Han and Fan, 2015; Kendall et al., 2015; Kunzmann et al., 2015; Sperling et al., 2015, 2016; Wood et al., 2015; Jin et al., 2016; Och et al., 2016; this study). The full dataset is given as Table DR4. We conducted a single-point detection test (using R pack “Changepoint”) with iron speciation data from 635 to 497 Ma, in

which all available iron speciation data were assigned an age in order to create a time series. The specific age of each datum was based on either an established age from a primary literature source or an estimated age based on available age constraints and sedimentation rates. Using this approach, the most significant change in Fe_{HR}/Fe_T ratios occurred at 514 Ma (see Fig. DR3).

The compiled iron speciation data from the late Ediacaran to Cambrian Age 4 were also divided into four relatively long-duration age bins (i.e., 552.2-538.4 Ma, 538.4-524.6 Ma, 524.6-510.8 Ma, and 510.8-497.0 Ma) based on major shifts in the Fe_{HR}/Fe_T dataset identified in the single-point detection test. The variability in mean Fe_{HR}/Fe_T values of each time bin from 552 to 497 Ma was used to reconstruct the Cambrian Age 2 to 4 oxygenation event, but we undertook this analysis separately for South China versus other continents in order to investigate differences between the two datasets (Fig. 2D).

In order to check if the data in each time bin are statistically significantly different, we used tests described by Sperling et al. (2015). First, the Shapiro-Wilk W test was used to check the normality of the iron speciation data in each bin. Bins with low p values (p <0.05) suggested that the data are not normally distributed. In this case, the data were then checked with non-parametric tests including the Kruskal-Wallis, Wilcoxon, and Steel-Dwass tests. Second, the analysis of Variance (ANOVA) and Kruskal-Wallis tests were used to compare the data from the four bins for the full datasets. Third, the significance of differences between bins was checked with the post-hoc Tukey HSD (α = 0.05), pairwise Wilcoxon, and Steel-Dwass tests. All test results are given in Table DR1 and Table DR2. These tests indicate that the differences of mean Fe_{HR}/Fe_T between the time bins for the South China dataset are statistically significant (ANOVA $p < 0.05$; Kruskal-Wallis $p < 0.05$), whereas the Fe speciation dataset for other continents are not

statistically significant (ANOVA $p = 0.102$; Kruskal-Wallis $p = 0.621$).

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DR Figures

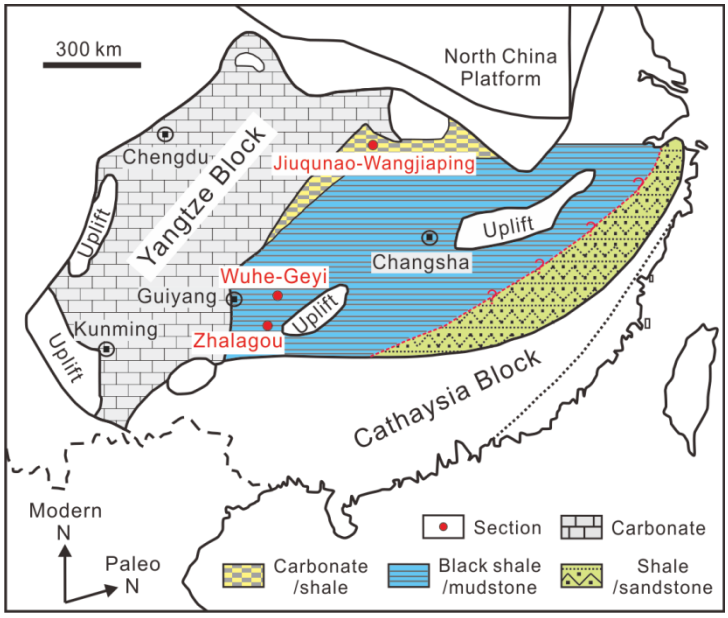

Figure DR1. Paleogeographic map of South China during the Cambrian Fortunian Stage and early Stage 2 (modified from Goldberg et al., 2007) showing the locations of study sections (outer-shelf Jiuqunao-Wangjiaping, slope Wuhe-Geyi, and basinal Zhalagou).

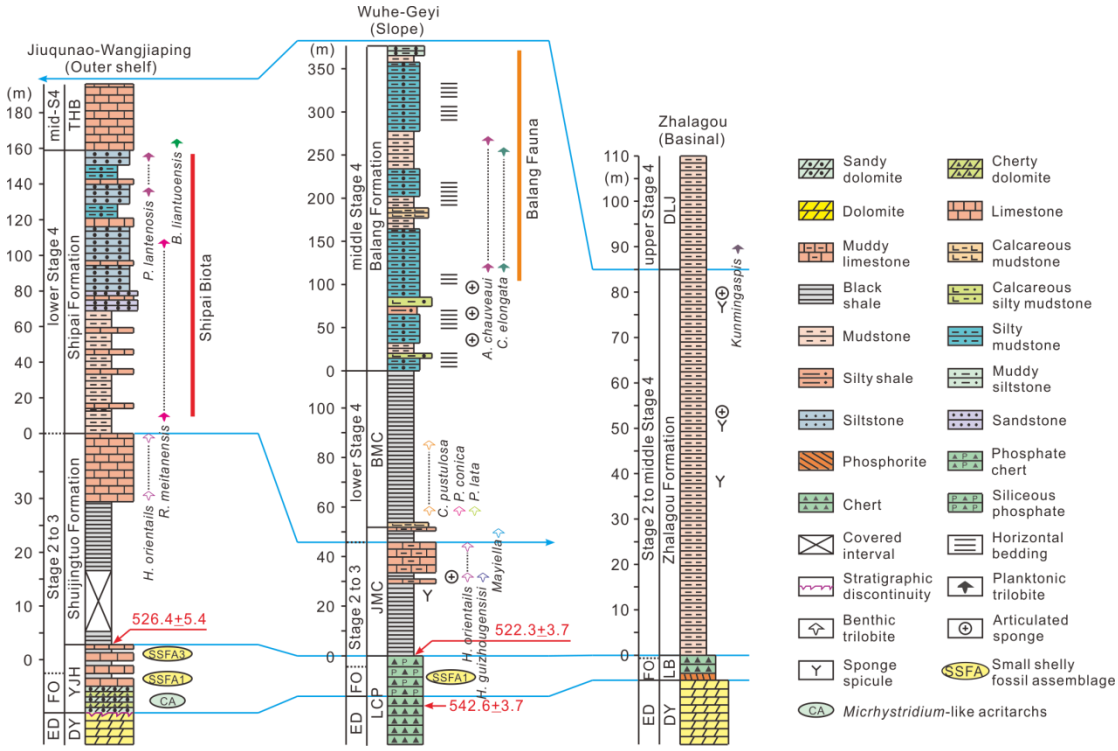

Figure DR2. Stratigraphic correlation framework for study sections and the Yangtze Platform region from the latest Ediacaran to Cambrian Stage 4 (~551-509 Ma). See Section S1.2 for detailed description. Litho- and biostratigraphic data sources: Jiuqunao-Wangjiaping (Xiang et al., 1987; Zhang and Hua, 2005; Jiang et al., 2012; this study), Wuhe-Geyi (Yin et al., 1982; Yang et al., 2003; Da et al., 2011; Peng et al., 2012; this study), Zhalagou (Yin, 1987; Yang et al., 2010; this study). U-Pb age data for the Jiuqunao-Wangjiaping and Wuhe-Geyi sections are from the adjacent Yanjiahe (Okada et al., 2014) and Panmen (Chen et al., 2015) sections, respectively. Abbreviations: ED = Ediacaran, FO = Fortunian Stage, mid-S4 = middle Stage 4, DY = Dengying Formation, LCP = Liuchapo Formation, LB = Laobao Formation, JMC = Jiumenchong Formation, BMC = Bianmachong Formation, YJH = Yanjiahe Formation, SJT = Shuijingtuo Formation, THB = Tianheban Formation, DLJ = Duliujiang Formation. Fossils: (A) *H.—Hupeidiscus*, *R.—Redlichia*, *P.—Palaeolenus*, *B.—Breviredlichia*; (B) *H.—Hupeidiscus*, *C.—Chengkouia*, *P.—Protolenella*, *A.—Arthricocepalus*, *C.—Changaspis*.

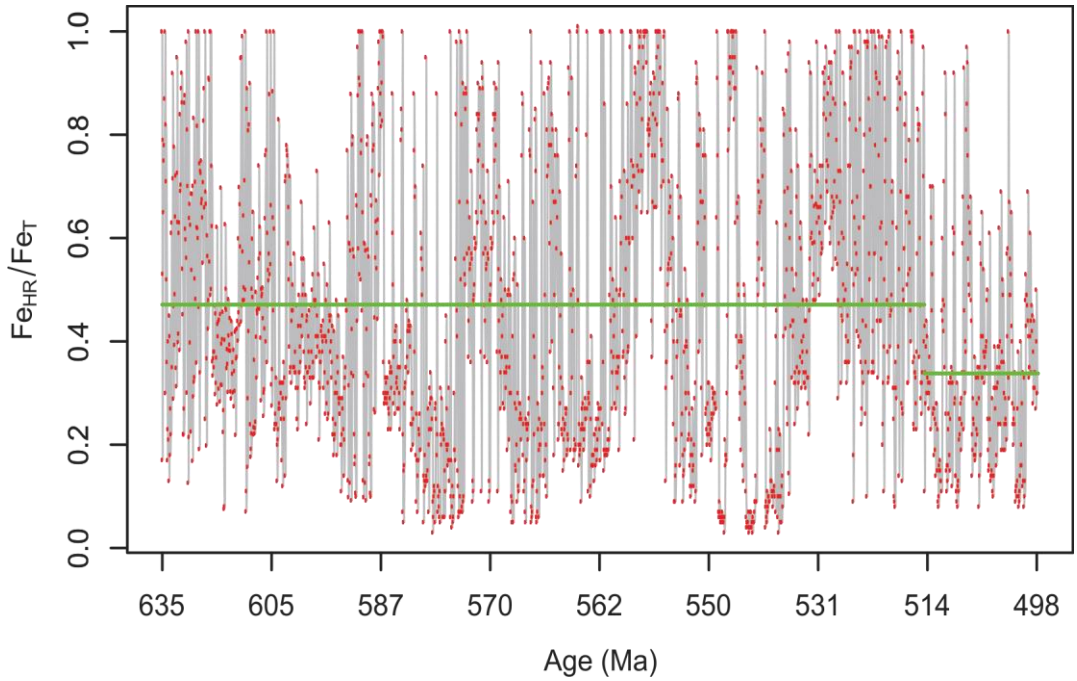

Figure DR3. A single point change detection test with global iron speciation data from 635 to 497 Ma. This statistical analysis includes only samples from outer shelf and basinal environments. This test indicated that a largest single change in Fe_{HR}/Fe_T values within the time interval appeared at 514 Ma.

Table DR1. Statistic tests for mean Fe_{HR}/Fe_T values of four time bins for South China database

Bins	Bin 1	Bin 2	Bin 3	Bin 4
Age (Ma)	552.2-538.4	538.4-524.6	524.6-510.8	510.8-497.0
p-value	0.378	0.075	0.000	0.017

ANOVA

Source	DF	SS	MS	F-ratio	*p*	
Model	1.4	3	0.467	6.635	0.000	post-hoc Tukey HSD:

Error	29.399	418	0.07	Bin 1 and 3 (0.001), Bin 1 and 4 (0.045).
Total	30.799	421		All other comparisons not significant

Kruskal-Wallis test			**Pairwise Wilcoxon method**	***p***	**Steel-Dwass *p***
Chi Square	DF	*P*	Bin 1 and 2	0.005	0.141
20.567	3	0.000	Bin 1 and 3	0.000	0.001
			Bin 1 and 4	0.043	0.014
			Bin 2 and 3	0.000	0.050
			Bin 3 and 4	0.028	0.853
			All other comparisons not significant		

Table DR2. Statistic tests for mean Fe_{HR}/Fe_T values of four time bins for the database from other continents

Bins	Bin 1	Bin 2	Bin 3	Bin 4
Age (Ma)	552.2-538.4	538.4-524.6	524.6-510.8	510.8-497.0
p-value	0.000	0.000		0.000

ANOVA

Source	DF	SS	MS	F-ratio	*p*	
Model	0.253	2	0.127	2.297	0.102	post-hoc Tukey HSD:
Error	25.222	458	0.055			All other comparisons not significant
Total	25.475	460				

Kruskal-Wallis test			**Pairwise Wilcoxon method**	***p***	**Steel-Dwass *p***
Chi Square	DF	*P*	All other comparisons not significant		
0.245	1	0.621			

Table DR3. Fe-C-trace element geochemical data for Jiuqunao-Wangjiaping, Wuhe-Geyi, and Zhalagou sections

Lithology[a]	Sample	Height (m)	TIC (wt.%)	TOC (wt.%)	Fe_{carb} (wt.%)	Fe_{ox} (wt.%)	Fe_{mag} (wt.%)	Fe_{py} (wt.%)	Fe_{HR} (wt.%)	Fe_T (wt.%)	Fe_{HR}/Fe_T	Fe_{py}/Fe_{HR}	U (ppm)	Mo (ppm)	V (ppm)	Th (ppm)	U_{EF}	Mo_{EF}	V_{EF}
1. Jiuqunao-Wangjiaping Section (outer shelf)[b]																			
Limestone	THB-09	189.0	11.9	0.1						0.38			0.3	0.1	5.3	1.3	0.8	0.4	0.4
Limestone	THB-07	179.0	12.2	0.0						0.10			0.2	0.0	2.6	0.5	1.3	0.6	0.6
Limestone	THB-03	166.3	12.0	0.1						0.20			0.2	0.1	3.6	1.0	0.7	0.5	0.4
Siltstone	SPD-00	158.3	0.4	0.1	0.11	0.12	0.08	0.51	0.82	3.10	0.26	0.62							
Siltstone	SPD-01	156.3	0.3	0.0	0.08	0.65	0.31	0.00	1.04	3.81	0.27	0.00	2.5	0.2	97.0	16.1	0.6	0.1	0.6
Siltstone	SPD-02	154.4	0.1	0.0	0.02	0.34	0.39	0.00	0.75	4.24	0.18	0.00							
Siltstone	SPD-03	153.0	0.1	0.0	0.06	0.69	0.32	0.00	1.07	4.01	0.27	0.00	2.7	0.2	108.3	16.7	0.6	0.1	0.6
SM	SPD-04	149.0	0.6	0.1	0.10	0.46	0.29	0.00	0.85	3.40	0.25	0.00							
SM	SPD-05	147.2	0.1	0.0	0.03	0.39	0.31	0.00	0.73	3.88	0.19	0.00	2.8	0.2	85.6	17.2	0.6	0.1	0.5
SM	SPD-06	145.0	0.3	0.0	0.03	0.25	0.24	0.00	0.52	3.66	0.14	0.00							
Siltstone	SPD-07	134.0	0.3	0.0	0.13	0.55	0.27	0.00	0.95	4.02	0.24	0.00	2.6	0.2	73.1	15.9	0.6	0.1	0.5
SM	SPD-08	122.0	0.2	0.0	0.13	0.54	0.30	0.00	0.97	3.45	0.28	0.00	2.9	0.2	66.7	16.6	0.7	0.1	0.4
Siltstone	SPD-09	114.7	0.1	0.0	0.09	0.71	0.29	0.00	1.09	3.84	0.28	0.00	3.0	0.2	85.5	17.9	0.6	0.1	0.5
Siltstone	SPD-10	110.7	0.2	0.0	0.04	0.25	0.22	0.00	0.51	3.40	0.15	0.00	3.0	0.2	75.8	17.2	0.7	0.1	0.4
Siltstone	SPD-11	104.7	0.2	0.0	0.17	0.08	0.33	0.00	0.58	2.55	0.23	0.00	2.3	0.5	61.3	8.6	1.0	0.4	0.7
Siltstone	SPD-12	101.7	0.3	0.0	0.10	0.04	0.09	0.01	0.24	2.81	0.09	0.04							
Siltstone	SPD-13	100.0	0.2	0.0	0.11	0.05	0.11	0.01	0.28	3.52	0.08	0.04	2.6	0.6	77.2	10.0	1.0	0.4	0.8
Siltstone	SPD-14	98.4	0.3	0.0	0.11	0.06	0.13	0.02	0.32	3.23	0.10	0.06							
Siltstone	SPD-15	96.6	0.4	0.0	0.15	0.07	0.14	0.10	0.46	2.85	0.16	0.22	3.0	0.5	84.5	10.4	1.1	0.3	0.8
Siltstone	SPD-16	93.9	0.3	0.0	0.17	0.10	0.18	0.06	0.51	3.49	0.15	0.12							
Siltstone	SPD-17	92.4	0.2	0.0	0.20	0.13	0.22	0.04	0.59	3.41	0.17	0.07	3.1	0.4	101.5	11.7	1.0	0.2	0.9
Siltstone	SP-20	86.6	0.4	0.0	0.17	0.11	0.19	0.05	0.52	3.52	0.15	0.10							

Lithology[a]	Sample	Height (m)	TIC (wt.%)	TOC (wt.%)	Fe_{carb} (wt.%)	Fe_{ox} (wt.%)	Fe_{mag} (wt.%)	Fe_{py} (wt.%)	Fe_{HR} (wt.%)	Fe_T (wt.%)	Fe_{HR}/Fe_T	Fe_{py}/Fe_{HR}	U (ppm)	Mo (ppm)	V (ppm)	Th (ppm)	U_{EF}	Mo_{EF}	V_{EF}
Siltstone	SP-10	85.6	0.3	0.0	0.16	0.09	0.18	0.05	0.48	3.73	0.13	0.10	3.0	0.5	112.6	11.7	1.0	0.3	1.0
Siltstone	SP-9	83.6	0.2	0.0	0.19	0.11	0.20	0.00	0.50	3.72	0.13	0.00							
Siltstone	SP-8	82.1	0.1	0.0	0.16	0.11	0.19	0.04	0.50	4.36	0.11	0.08	3.7	0.4	153.9	13.6	1.1	0.2	1.1
Mudstone	SP-19	32.6	0.1	0.0	0.04	1.36	0.36	0.00	1.76	4.46	0.40	0.00	3.1	0.5	146.7	13.3	0.9	0.3	1.1
Mudstone	SP-17	30.8	0.2	0.0	0.05	0.22	0.11	0.00	0.38	3.41	0.11	0.00	2.5	0.5	77.7	10.0	1.0	0.3	0.8
Mudstone	SP-18	29.8	0.1	0.0	0.06	1.41	0.35	0.00	1.82	4.23	0.43	0.00							
Mudstone	SP-15	29.1	0.1	0.0	0.07	1.06	0.25	0.00	1.38	4.07	0.34	0.00	3.1	0.5	134.1	12.9	0.9	0.3	1.0
Mudstone	SP-16	28.8	0.1	0.0	0.02	0.82	0.37	0.00	1.21	4.27	0.28	0.00							
Mudstone	SP-14	28.1	0.1	0.0	0.06	1.35	0.25	0.00	1.66	4.28	0.39	0.00	3.3	0.7	148.9	13.3	0.9	0.4	1.1
Mudstone	SP-13	8.1	0.1	0.0	0.04	1.55	0.37	0.00	1.96	4.42	0.44	0.00	3.5	0.5	173.2	14.7	0.9	0.2	1.2
Mudstone	SP-12	7.1	0.1	0.0	0.01	0.84	0.51	0.00	1.36	4.50	0.30	0.00							
Mudstone	SP-11	6.6	0.1	0.0	0.06	1.41	0.34	0.00	1.81	4.45	0.41	0.00	3.2	0.5	145.5	13.2	0.9	0.3	1.1
Mudstone	SP-7	4.1	0.1	0.0	0.11	0.94	0.41	0.00	1.46	4.42	0.33	0.00	2.7	0.3	80.8	17.0	0.6	0.1	0.5
Mudstone	SP-5	3.0	0.1	0.0	0.08	0.89	0.29	0.00	1.26	4.19	0.30	0.00							
Mudstone	SP-6	2.6	0.1	0.0	0.09	0.86	0.38	0.00	1.33	4.14	0.32	0.00	2.7	0.2	82.3	17.1	0.6	0.1	0.5
Mudstone	SP-4	1.8	0.1	0.0	0.09	0.64	0.34	0.00	1.07	4.02	0.27	0.00	2.4	0.2	66.6	14.6	0.6	0.1	0.5
Mudstone	SP-3	0.8	0.1	0.0	0.03	0.99	0.28	0.00	1.30	4.27	0.30	0.00	3.2	0.5	144.4	13.6	0.9	0.2	1.1
Mudstone	SP-2	0.5	0.1	0.0	0.10	1.20	0.30	0.00	1.60	4.30	0.37	0.00							
Mudstone	SP-1	0.0	0.1	0.0	0.05	0.96	0.27	0.00	1.28	4.03	0.32	0.00	3.1	0.5	139.9	12.1	1.0	0.3	1.2
Limestone	JJL11	30.7	9.6	0.2									1.1	1.5	22.0	1.5	2.8	7.1	1.5
BS	JJL10	28.7	0.5	5.1	0.63	0.25	0.00	1.33	2.21	2.25	0.98	0.60	26.2	38.5	242.5	5.7	17.6	48.4	4.3
BS	JJL9	28.2	0.9	5.6	0.69	0.01	0.01	1.72	2.43	2.45	0.99	0.71	29.0	43.9	219.6	6.2	17.8	50.3	3.5
BS	JJL8	26.2	1.3	5.1	0.70	0.09	0.00	1.71	2.50	2.51	1.00	0.68	28.6	45.7	153.1	6.1	18.0	53.7	2.5
BS	JJL7	21.2	3.7	4.6	0.81	0.04	0.00	2.62	3.47	3.49	0.99	0.75	53.2	30.8	88.7	4.3	47.2	51.0	2.1
BS	JJL6	19.2	1.5	5.3	0.67	0.02	0.01	1.94	2.63	2.51	1.00	0.74	34.6	40.4	154.0	6.3	21.1	46.0	2.5

Lithology[a]	Sample	Height (m)	TIC (wt.%)	TOC (wt.%)	Fe_{carb} (wt.%)	Fe_{ox} (wt.%)	Fe_{mag} (wt.%)	Fe_{py} (wt.%)	Fe_{HR} (wt.%)	Fe_T (wt.%)	Fe_{HR}/Fe_T	Fe_{py}/Fe_{HR}	U (ppm)	Mo (ppm)	V (ppm)	Th (ppm)	U_{EF}	Mo_{EF}	V_{EF}
BS	JJL5	16.7	1.8	4.3	0.61	0.14	0.01	2.19	2.95	2.95	1.00	0.74	32.9	36.9	157.8	5.9	21.1	44.3	2.7
BS	JJL3	3	1.2	5.8	1.25	0.11	0.03	2.00	3.39	3.51	0.97	0.59	47.2	212.8	909.9	6.7	26.8	225.6	13.5
BS	JJL1b	2.45	3.0	2.5	0.54	0.11	0.00	0.82	1.48	1.61	0.92	0.56	8.8	6.7	36.6	3.8	8.9	12.7	1.0
BS	JJL1a	1.85	2.8	2.4	0.52	0.17	0.00	1.41	2.11	2.28	0.92	0.67	17.6	4.1	64.0	7.0	9.6	4.1	0.9
Limestone	JJL1	1.7	9.9	0.5						0.37			1.0	0.7	13.3	0.6	6.3	8.0	2.2
Limestone	JJL2	0	9.8	0.4						0.32			1.1	0.5	12.3	0.6	6.9	6.6	2.1
2. Wuhe-Geyi sections (slope)[b]																			
MS	GYP-365	365	0.0	0.0	0.07	0.90	0.32	0.00	1.29	4.62	0.28	0.00	4.3	0.9	145.3	30.8	0.5	0.2	0.5
Mudstone	GYP-355	355	0.0	0.1	0.04	1.13	0.16	0.00	1.33	4.63	0.29	0.00							
SM	GYP-345	345	0.0	0.1	0.24	0.16	0.24	0.00	0.64	4.58	0.14	0.00	1.9	2.7	46.1	28.7	0.2	0.7	0.2
SM	GYP-315	315	0.5	0.0	0.16	0.22	0.19	0.00	0.57	4.00	0.14	0.00	2.6	0.5	76.6	17.9	0.5	0.2	0.4
SM	GYP-305	305	0.3	0.0	0.17	0.17	0.23	0.00	0.57	5.14	0.11	0.00							
SM	GYP-297	297	0.1	0.1	0.13	0.13	0.14	0.00	0.40	4.66	0.09	0.00							
SM	GYP-287	287	0.0	0.0	0.06	1.03	0.39	0.00	1.48	4.57	0.32	0.00	2.0	2.8	95.0	37.7	0.2	0.5	0.3
SM	GYP-281	281	0.0	0.1	0.10	0.17	0.20	0.00	0.47	5.57	0.08	0.00	2.1	2.8	95.0	41.4	0.2	0.5	0.2
Mudstone	GYP-269	269	0.0	0.1	0.11	0.41	0.25	0.00	0.77	6.23	0.12	0.00							
Mudstone	GYP-264	264	0.0	0.0	0.09	0.30	0.25	0.00	0.64	4.98	0.13	0.00	2.0	2.8	106.7	37.9	0.2	0.5	0.3
Mudstone	GYP-259	259	0.0	0.1	0.11	0.33	0.25	0.00	0.69	6.03	0.11	0.00							
Mudstone	GYP-251	251	0.0	0.0	0.06	0.79	0.38	0.00	1.23	5.84	0.21	0.00	2.0	2.8	115.5	38.6	0.2	0.5	0.3
SM	GYP-225	225	0.0	0.1	0.03	0.97	0.50	0.00	1.50	5.91	0.25	0.00							
SM	GYP-217	217	0.0	0.1	0.05	0.98	0.28	0.00	1.31	5.85	0.22	0.00	4.4	2.9	114.8	36.6	0.5	0.6	0.3
SM	GYP-209	209	0.0	0.1	0.05	1.04	0.43	0.00	1.52	6.13	0.25	0.00							
SM	GYP-205	205	0.0	0.1	0.07	1.04	0.47	0.00	1.58	5.61	0.28	0.00	1.9	2.9	109.0	35.2	0.2	0.6	0.3
Mudstone	GYP-199	199	0.0	0.1	0.06	0.80	0.26	0.00	1.12	5.75	0.19	0.00							
Mudstone	GYP-193	193	0.0	0.0	0.04	1.11	0.53	0.00	1.68	5.86	0.29	0.00	1.9	2.9	114.2	34.8	0.2	0.6	0.3

Lithology[a]	Sample	Height (m)	TIC (wt.%)	TOC (wt.%)	Fe_{carb} (wt.%)	Fe_{ox} (wt.%)	Fe_{mag} (wt.%)	Fe_{py} (wt.%)	Fe_{HR} (wt.%)	Fe_T (wt.%)	Fe_{HR}/Fe_T	Fe_{py}/Fe_{HR}	U (ppm)	Mo (ppm)	V (ppm)	Th (ppm)	U_{EF}	Mo_{EF}	V_{EF}
CM	GYP-184	184	5.7	0.1	0.39	0.18	0.13	0.00	0.70	2.88	0.24	0.00							
Mudstone	GYP-175	175	0.0	0.1	0.07	1.05	0.48	0.00	1.60	6.09	0.26	0.00	2.0	2.7	103.4	33.4	0.2	0.6	0.3
Mudstone	GYP-167	167	0.0	0.2	0.06	0.45	0.32	0.00	0.83	5.55	0.15	0.00							
SM	GYP-159	159	0.8	0.0	0.13	0.19	0.16	0.00	0.48	4.29	0.11	0.00	3.3	0.6	134.6	24.3	0.5	0.2	0.6
SM	GYP-151	151	0.0	0.2	0.11	0.47	0.31	0.00	0.89	5.74	0.16	0.00							
SM	GYP-144	144	0.0	0.1	0.11	0.37	0.22	0.00	0.70	5.45	0.13	0.00	2.0	2.9	94.5	34.1	0.2	0.6	0.3
SM	GYP-134	134	0.0	0.1	0.08	0.49	0.34	0.00	0.91	5.54	0.16	0.00							
SM	GYP-121	121	0.0	0.1	0.10	0.76	0.27	0.00	1.13	4.89	0.23	0.00	2.0	3.0	114.1	36.7	0.2	0.6	0.3
SM	GYP-111	111	0.0	0.1	0.06	1.01	0.35	0.00	1.42	5.53	0.26	0.00							
SM	GYP-95	95	0.0	0.1	0.03	1.18	0.74	0.00	1.95	6.06	0.32	0.00	1.9	2.9	129.8	40.9	0.2	0.5	0.3
CSM	GYP-81	81	2.5	0.2	0.19	0.29	0.20	0.00	0.68	3.70	0.18	0.00							
SS	GYP-67	67	0.0	0.1	0.17	0.29	0.31	0.00	0.77	5.25	0.15	0.00	2.0	2.9	101.6	34.2	0.2	0.6	0.3
SM	GYP-60	60	0.0	0.1	0.07	1.01	0.44	0.00	1.52	6.16	0.25	0.00							
SM	GYP-46	46	0.0	0.1	0.06	1.03	0.50	0.00	1.59	4.89	0.33	0.00	4.0	0.4	146.8	27.6	0.6	0.1	0.5
SM	GYP-33	33	0.0	0.1	0.03	1.11	0.56	0.00	1.70	5.37	0.32	0.00							
Mudstone	GYP-24	24	0.0	0.1	0.05	1.27	0.61	0.00	1.93	5.46	0.35	0.00	2.0	2.8	92.7	34.1	0.2	0.6	0.3
SM	GYP-11	11	0.0	0.0	0.13	0.31	0.31	0.00	0.75	6.47	0.12	0.00	1.8	2.9	109.6	37.1	0.2	0.6	0.3
SM	GYP-03	3	0.0	0.0	0.05	1.43	0.67	0.00	2.15	6.31	0.34	0.00	2.1	2.8	113.3	39.5	0.2	0.5	0.3
SM	GYP-01	1	0.0	0.1	0.05	1.38	0.52	0.00	1.95	6.01	0.32	0.00	1.8	3.0	98.3	34.7	0.2	0.6	0.3
BS	WHB-40	92	0.0	1.9	0.23	0.80	0.08	0.81	1.92	3.10	0.62	0.42	8.8	23.0	120.3	15.4	2.2	10.7	0.8
BS	WHB-35	87	0.0	1.5						1.69			2.9	20.1	129.7	21.9	0.5	6.5	0.6
BS	WHB-30	82	0.0	1.5						1.43			6.9	20.7	109.2	12.8	2.1	11.6	0.9
BS	WHB-24	76	0.0	1.0						1.26			10.5	37.0	172.3	18.5	2.2	14.2	0.9
BS	WHB-17	69	0.0	1.5						1.32			8.5	21.2	332.2	12.2	2.7	12.5	2.7
BS	WHB-14	66	0.0	0.9						3.94			5.6	15.4	275.8	21.7	1.0	5.1	1.3

Lithology[a]	Sample	Height (m)	TIC (wt.%)	TOC (wt.%)	Fe_{carb} (wt.%)	Fe_{ox} (wt.%)	Fe_{mag} (wt.%)	Fe_{py} (wt.%)	Fe_{HR} (wt.%)	Fe_T (wt.%)	Fe_{HR}/Fe_T	Fe_{py}/Fe_{HR}	U (ppm)	Mo (ppm)	V (ppm)	Th (ppm)	U_{EF}	Mo_{EF}	V_{EF}
BS	WHB-11	63	0.0	1.4						4.30									
BS	WHB-06	58	0.8	1.7	0.23	0.22	0.05	1.35	1.85	2.63	0.70	0.73	10.0	34.0	202.6	13.4	2.9	18.1	1.5
BS	WHB-03	55	0.0	0.6	0.02	0.06	0.01	0.74	0.83	3.64	0.23	0.89							
CM	WHB-01	53	3.3	0.3	0.25	0.07	0.03	0.74	1.09	1.71	0.64	0.68	2.1	9.1	64.2	8.8	0.9	7.3	0.7
ML	WHJ-23	52	7.9	0.4						0.36			1.9	1.4	23.3	1.0	7.1	9.9	2.3
BS	WHJ-20	49	0.0	1.5						3.14			2.8	20.6	144.5	15.0	0.7	9.8	1.0
ML	WHJ-15	44	10.8	0.7						0.35			1.6	3.9	6.2	1.0	6.3	29.2	0.6
ML	WHJ-12	41	10.0	0.3	0.09	0.03	0.01	0.41	0.54	0.62	0.88	0.76	3.5	10.8	24.5	4.4	3.0	17.3	0.6
ML	WHJ-07	36	9.4	0.7	0.26	0.04	0.01	0.51	0.82	1.00	0.82	0.62	1.0	0.7	5.1	0.4	10.8	13.6	1.4
ML	WHJ-05	34	10.0	0.9	0.24	0.07	0.01	0.19	0.51	0.67	0.76	0.37	6.3	6.6	23.2	1.7	14.1	27.8	1.4
BS	WHJ-04	33	0.0	4.0						3.38			5.1	39.6	251.1	15.2	1.3	18.5	1.6
ML	WHJ-01	30	10.0	0.1	0.07	0.18	0.01	0.08	0.34	0.53	0.64	0.24	1.2	1.3	17.6	1.8	2.5	5.2	1.0
BS	WHN-23	23	0.0	3.2						0.92			20.6	8.2	578.0	9.4	8.4	6.2	6.2
BS	WHN-20	20	0.0	2.5						0.99			4.2	8.5	1055.8	12.9	1.2	4.7	8.2
BS	WHN-16	16	0.0	6.2						0.92									
BS	WHN-12	12	0.0	5.6						0.57			53.9	45.4	320.0	11.0	18.7	29.4	2.9
BS	WHN-03	3	0.0	6.0						0.38									
BS	WHN-01	1	0.0	5.4						0.59			7.7	40.0	897.0	4.2	7.0	68.4	21.5
3. Zhalagou Section (basinal)[b]																			
Mudstone	SDZ-(-7)	109	0.0	0.1	0.03	1.50	0.60	0.00	2.13	4.61	0.46	0.00	2.5	1.6	132.7	22.3	0.4	0.5	0.6
Mudstone	SDZ-(-9)	107	2.2	0.0	0.63	0.08	0.10	0.63	1.44	4.27	0.34	0.44	2.2	1.5	84.3	17.4	0.5	0.6	0.5
Mudstone	SDZ-(-15)	101	0.0	0.1	0.10	0.95	0.38	0.00	1.43	4.74	0.30	0.00	2.6	1.2	125.9	25.2	0.4	0.3	0.5
Mudstone	SDZ-(-23)	93	0.0	0.2	0.03	1.15	0.12	0.00	1.30	3.22	0.40	0.00	2.8	2.1	130.6	26.9	0.4	0.5	0.5
Mudstone	SDZ-(-27)	89	0.0	0.1	0.03	1.02	0.48	0.00	1.53	4.03	0.38	0.00	2.6	1.8	125.8	24.2	0.4	0.5	0.5
Mudstone	SDZ-(-35)	81								2.07			9.7	11.1	106.7	15.1	2.4	5.3	0.7

Lithology[a]	Sample	Height (m)	TIC (wt.%)	TOC (wt.%)	Fe_{carb} (wt.%)	Fe_{ox} (wt.%)	Fe_{mag} (wt.%)	Fe_{py} (wt.%)	Fe_{HR} (wt.%)	Fe_T (wt.%)	Fe_{HR}/Fe_T	Fe_{py}/Fe_{HR}	U (ppm)	Mo (ppm)	V (ppm)	Th (ppm)	U_{EF}	Mo_{EF}	V_{EF}
Mudstone	SDZ-(-38)	78	0.0	1.3						1.69			4.9	15.5	211.0	14.9	1.2	7.4	1.4
Mudstone	SDZ-(-44)	72	0.0	1.7						0.71			4.3	5.9	73.2	12.3	1.3	3.4	0.6
Mudstone	SDZ-(-47)	69	0.0	1.5	0.12	1.28	0.18	0.96	2.54	3.59	0.71	0.38	5.8	21.0	110.5	11.9	1.9	12.6	0.9
Mudstone	SDZ-64	64	0.0	1.8						1.65			12.2	39.7	362.4	14.0	3.3	20.3	2.6
Mudstone	SDZ-(-53)	63	0.0	1.7						1.05			3.8	10.6	96.2	16.2	0.9	4.7	0.6
Mudstone	SDZ-(-57)	59	0.0	1.4						1.57			4.0	19.0	133.2	19.2	0.8	7.0	0.7
Mudstone	SDZ-(-61)	55	0.0	1.4						1.37			5.2	22.1	364.8	13.7	1.4	11.5	2.7
Mudstone	SDZ-(-64)	52	0.0	1.3						1.56			6.4	30.1	414.8	15.4	1.6	14.0	2.7
Mudstone	SDZ-42	42	0.0	1.6	0.46	0.41	0.01	1.07	1.95	2.37	0.82	0.55							
Mudstone	SDZ-40	40	0.0	2.0	0.67	0.77	0.01	1.57	3.02	3.43	0.88	0.52	3.3	5.5	99.9	8.3	1.5	4.7	1.2
Mudstone	SDZ-38	38	0.0	2.2	0.73	0.78	0.02	1.41	2.94	3.23	0.91	0.48	3.0	3.8	103.3	7.4	1.5	3.7	1.4
Mudstone	SDZ-37	37	0.0	2.0	0.32	0.23	0.02	0.39	0.96	1.13	0.85	0.41							
Mudstone	SDZ-35	35	0.0	2.3	0.32	0.06	0.00	0.91	1.29	1.35	0.96	0.71							
Mudstone	SDZ-33	33	0.0	1.5	0.31	0.20	0.01	0.63	1.15	0.88	1.00	0.55	3.1	2.8	109.1	9.0	1.3	2.2	1.2
Mudstone	SDZ-31	31	0.0	2.8						0.39			2.8	2.8	111.7	10.6	1.0	1.8	1.1
Mudstone	SDZ-30	30	0.0	2.2						3.13			2.7	3.5	114.4	9.8	1.0	2.5	1.2
Mudstone	SDZ-28	28	0.0	2.2						0.28			2.8	3.2	118.6	10.5	1.0	2.2	1.1
Mudstone	SDZ-26	26	0.0	2.5	0.88	0.11	0.01	1.72	2.72	3.44	0.79	0.63	2.8	3.9	92.7	7.6	1.4	3.7	1.2
Mudstone	SDZ-24	24	0.0	1.0	0.52	0.61	0.02	1.74	2.89	2.97	0.97	0.60	2.1	1.0	89.5	11.1	0.7	0.6	0.8
Mudstone	SDZ-22	22	0.0	2.1	0.40	0.52	0.02	0.83	1.77	1.83	0.97	0.47	2.9	3.5	100.9	8.2	1.3	3.1	1.2
Mudstone	SDZ-16	16	0.0	7.3						0.25			8.6	32.6	1189.8	5.4	6.1	43.2	22.1
Mudstone	SDZ-14.5	14.5	0.0	7.6						0.10			12.5	34.3	1019.3	6.4	7.4	38.0	15.8
Mudstone	SDZ-13	13	0.0	7.5						0.30			9.5	8.2	1818.1	6.1	5.9	9.5	29.6
Mudstone	SDZ-11	11	0.0	7.9						0.24			11.2	29.0	626.1	7.8	5.5	26.5	8.0
Mudstone	SDZ-9	9	0.0	10.0						0.38			20.5	44.3	10788.1	9.4	8.3	33.6	114.6

Lithology[a]	Sample	Height (m)	TIC (wt.%)	TOC (wt.%)	Fe_{carb} (wt.%)	Fe_{ox} (wt.%)	Fe_{mag} (wt.%)	Fe_{py} (wt.%)	Fe_{HR} (wt.%)	Fe_T (wt.%)	Fe_{HR}/Fe_T	Fe_{py}/Fe_{HR}	U (ppm)	Mo (ppm)	V (ppm)	Th (ppm)	U_{EF}	Mo_{EF}	V_{EF}
Mudstone	SDZ-8	8	0.0	4.4	0.15	0.50	0.05	0.82	1.52	1.68	0.91	0.54	21.7	60.0	3609.5	10.4	8.0	41.3	34.8
Mudstone	SDZ-6.9	6.9	0.0	4.4	0.07	0.21	0.02	0.35	0.65	0.79	0.82	0.54	21.6	61.7	2595.6	11.8	7.0	37.4	22.1
Mudstone	SDZ-5.7	5.7	0.0	3.6	0.21	0.15	0.02	0.86	1.24	1.33	0.93	0.69	18.1	20.8	2072.8	8.4	8.2	17.6	24.6
Mudstone	SDZ-4.2	4.2	0.0	5.4	0.04	0.20	0.02	0.13	0.39	0.56	0.70	0.33	15.4	21.4	3147.8	9.9	5.9	15.5	31.9
Mudstone	SDZ-03	3	0.0	6.2	0.46	0.39	0.01	0.85	1.71	1.82	0.94	0.50	22.3	86.0	1227.4	6.3	13.6	98.1	19.6
Mudstone	SDZ-01	1	0.0	9.8						0.34			18.3	46.7	11309.3	9.3	7.5	35.8	121.6
Mudstone	SDZ-0	0	0.0	11.4						0.29			19.8	18.4	2459.1	8.4	9.1	15.7	29.4

[a] “BS”: black shale; “CM”: Calcareous mudstone; “SM”: Silty mudstone; “MS”: Muddy siltstone; “SS”: Silty shale; “CSM”: Calcareous silty shale; “ML”: Muddy limestone.
[b] Data sources: all data excluding those at Jiuqunao (samples JJL1-11; Och et al., 2016) are original to this study.

Table DR4. Global iron speciation data from 635 to 497 Ma used for single-point detection test in this study

Age bin (Ma)	Age bin	Age (Ma)	Geographic Area/Basin	References	Core/Outcrop	Group/Formation	Section	Sample	Fe_{carb}	Fe_{ox}	Fe_{mag}	Fe_{Py}	Fe_{HR}	Fe_T	Fe_{HR}/Fe_T	Fe_{Py}/Fe_{HR}
635.0-621.2	1	635	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-17	0.14	0.10	0.04	1.54	1.82	2.34	0.78	0.85
635.0-621.2	1	635	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-15	0.09	0.04	0.02	0.74	0.90	1.91	0.47	0.83
635.0-621.2	1	635	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-14	0.17	0.53	0.03	3.43	4.16	4.07	1.00	0.82
635.0-621.2	1	634	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-18	0.14	0.16	0.06	1.18	1.53	2.38	0.64	0.77
635.0-621.2	1	633	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-21	0.14	0.05	0.04	0.92	1.14	1.91	0.60	0.81
635.0-621.2	1	632	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-24	0.10	0.10	0.05	1.09	1.35	2.51	0.54	0.81
635.0-621.2	1	630	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-26	0.11	0.20	0.04	0.22	0.57	1.22	0.47	0.38
635.0-621.2	1	628	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-29	0.09	0.90	0.06	0.03	1.07	1.95	0.55	0.03
635.0-621.2	1	625	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-37	0.14	0.78	0.05	0.03	0.99	1.64	0.61	0.04
635.0-621.2	1	624	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-40	0.05	1.23	0.07	0.04	1.39	2.51	0.55	0.03
635.0-621.2	1	635	South China	Chen et al., 2015, NC	Outcrop	Doushantuo	Jiulongwan							1.74	0.92	0.47
635.0-621.2	1	633	South China	Chen et al., 2015, NC	Outcrop	Doushantuo	Jiulongwan							1.02	0.86	0.44
635.0-621.2	1	633	South China	Chen et al., 2015, NC	Outcrop	Doushantuo	Jiulongwan							1.33	0.89	0.58
635.0-621.2	1	635	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	0	0.67	0.62	0.11	0.71	2.10	3.24	0.65	0.34
635.0-621.2	1	635	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	2	0.58	0.14	0.06	0.39	1.17	1.55	0.75	0.33
635.0-621.2	1	635	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	4	0.59	0.21	0.05	0.60	1.44	1.86	0.78	0.41
635.0-621.2	1	635	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	6	0.50	0.03	0.03	0.79	1.36	1.57	0.87	0.59
635.0-621.2	1	635	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	0	0.39	0.07	0.02	0.92	1.39	1.76	0.79	0.66
635.0-621.2	1	634	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	1.3	0.64	0.06	0.03	1.40	2.12	2.23	0.95	0.66
635.0-621.2	1	633	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	2.3	0.67	0.04	0.05	1.20	1.97	2.13	0.92	0.61
635.0-621.2	1	633	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	2.8	0.58	0.03	0.02	0.72	1.35	1.38	0.98	0.53
635.0-621.2	1	630	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	6	0.47	0.06	0.04	0.60	1.18	1.97	0.60	0.51
635.0-621.2	1	629	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	7	0.53	0.06	0.05	0.99	1.62	2.15	0.75	0.61
635.0-621.2	1	627	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	10	0.45	0.11	0.02	0.52	1.11	1.24	0.89	0.47
635.0-621.2	1	626	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	11	0.19	0.03	0.00	0.24	0.47	1.83	0.25	0.52
635.0-621.2	1	624	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	13.5	0.70	0.07	0.09	1.39	2.25	2.47	0.91	0.62
635.0-621.2	1	630	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Minle	ML-21	0.00	0.42	0.05	0.01	0.48	2.51	0.19	0.02
635.0-621.2	1	631	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Minle	ML-20	0.29	0.92	0.09	0.06	1.35	4.20	0.32	0.05
635.0-621.2	1	633	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Minle	ML-19	0.39	0.13	0.11	0.03	0.66	3.03	0.22	0.04
635.0-621.2	1	635	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	2.4	0.00	0.22	0.00	0.15	0.37	2.19	0.17	0.41
635.0-621.2	1	635	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	2.7	0.03	0.26	0.06	0.15	0.50	1.73	0.29	0.29
635.0-621.2	1	634	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	3	0.10	0.07	0.04	0.55	0.76	1.93	0.39	0.73
635.0-621.2	1	634	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	3.2	0.02	0.00	0.01	1.22	1.26	2.57	0.49	0.97
635.0-621.2	1	634	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	3.5	0.04	0.42	0.17	0.18	0.82	2.06	0.40	0.23
635.0-621.2	1	634	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	3.7	0.09	0.10	0.08	1.72	1.99	3.16	0.63	0.87
635.0-621.2	1	633	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	4	0.04	0.05	0.04	0.75	0.87	2.28	0.38	0.85
635.0-621.2	1	633	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	4.3	0.11	0.04	0.04	1.91	2.11	3.90	0.54	0.91
635.0-621.2	1	633	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	4.6	0.73	0.08	0.03	1.12	1.97	3.18	0.62	0.57
635.0-621.2	1	633	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	4.8	0.13	0.06	0.04	0.57	0.79	2.64	0.30	0.72
635.0-621.2	1	633	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	5	2.02	0.00	0.40	1.27	3.69	5.27	0.70	0.34
635.0-621.2	1	632	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	5.4	0.41	0.02	0.00	1.58	2.01	3.14	0.64	0.79
635.0-621.2	1	632	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	5.6	0.91	0.13	0.00	1.44	2.48	3.96	0.63	0.58
635.0-621.2	1	632	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	5.8	0.79	0.07	0.00	1.54	2.40	3.49	0.69	0.64
635.0-621.2	1	632	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	6	0.01	0.00	0.00	2.59	2.60	3.79	0.69	1.00
635.0-621.2	1	631	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	6.3	0.03	0.01	0.00	2.66	2.69	3.84	0.70	0.99
635.0-621.2	1	631	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	6.5	0.01	0.68	0.00	0.03	0.72	2.46	0.29	0.05
635.0-621.2	1	631	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	6.8	0.00	0.04	0.00	1.35	1.39	2.88	0.48	0.97
635.0-621.2	1	631	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	7	0.14	0.04	0.00	1.95	2.13	3.43	0.62	0.91
635.0-621.2	1	630	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	7.3	0.28	0.00	0.03	1.51	1.81	2.92	0.62	0.83
635.0-621.2	1	629	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	8.6	0.28	0.04	0.00	2.18	2.51	3.76	0.67	0.87
635.0-621.2	1	628	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	9.4	0.24	0.05	0.03	2.01	2.33	3.45	0.68	0.86
635.0-621.2	1	628	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	9.7	0.16	0.00	0.04	1.91	2.11	2.97	0.71	0.91
635.0-621.2	1	626	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	11.6	0.06	0.00	0.03	1.90	1.99	2.98	0.67	0.95
635.0-621.2	1	624	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Wuhe	13.7	0.67	0.01	0.00	1.56	2.24	2.47	0.91	0.70
635.0-621.2	1	635	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Taoying	TY09-13.3	0.00	0.10	0.00	0.70	0.80	1.50	0.53	0.85
635.0-621.2	1	634	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Taoying	TY09-15.1	0.00	0.00	0.00	0.40	0.40	1.30	0.31	0.93
635.0-621.2	1	633	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Taoying	TY09-16.5	0.00	0.10	0.00	1.40	1.50	2.10	0.70	0.96
635.0-621.2	1	633	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Taoying	TY09-17.5	0.00	0.40	0.00	0.40	0.80	1.50	0.56	0.47
635.0-621.2	1	630	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Taoying	TY09-22.3	0.00	0.00	0.00	1.50	1.50	1.00	1.00	1.00
635.0-621.2	1	635	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Yuanjia	WHH-5.7	0.00	0.10	0.00	1.60	1.70	2.40	0.72	0.94
635.0-621.2	1	634	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Yuanjia	WHH-6.3	0.20	0.10	0.00	1.70	1.90	2.70	0.72	0.88
635.0-621.2	1	634	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Yuanjia	WHH-6.4	0.10	0.10	0.00	2.10	2.30	3.10	0.73	0.93
635.0-621.2	1	633	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Yuanjia	WHH-6.8	0.20	0.00	0.00	2.30	2.50	2.90	0.84	0.92
635.0-621.2	1	633	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Yuanjia	WHH-6.9	0.10	0.00	0.00	2.80	2.90	4.20	0.69	0.95
635.0-621.2	1	633	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Yuanjia	WHH-7.2	0.10	0.00	0.00	3.50	3.70	4.20	0.86	0.96

635.0-621.2	1	633	South China	Sahoo et al., 2012, Nature	Outcrop	Doushantuo Fm. Member II	Yuanjia	WHH-7.4	0.10	0.00	0.00	3.50	3.70	4.50	0.81	0.97
635.0-621.2	1	635	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	20.6	0.37	0.47	0.01	2.70	3.55	3.05	1.00	0.88
635.0-621.2	1	632	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	26.6	1.01	0.03	0.01	0.11	1.16	1.04	1.00	0.11
635.0-621.2	1	631	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	29.8	0.12	0.07	0.01	2.86	3.06	3.07	1.00	0.93
635.0-621.2	1	627	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	38.4	2.49	0.13	0.23	3.55	6.39	5.76	1.00	0.62
635.0-621.2	1	623	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	47.2	1.03	1.23	0.14	2.61	5.01	4.47	1.00	0.58
635.0-621.2	1	622	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	49.2	0.36	0.29	0.02	2.99	3.64	3.25	1.00	0.92
635.0-621.2	1	633	South China	Li et al., 2011, Science	Outcrop	Doushantuo	Zhongling	SH-13	0.45	0.08	0.06	1.71	2.29	2.62	0.88	0.74
635.0-621.2	1	632	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-15	0.04	1.34	0.03	0.16	1.57	2.36	0.67	0.10
635.0-621.2	1	631	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-16	0.02	0.49	0.04	0.01	0.56	1.70	0.33	0.02
635.0-621.2	1	631	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-18	0.20	0.15	0.03	2.89	3.27	3.93	0.83	0.88
635.0-621.2	1	630	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-20	0.29	0.80	0.03	1.95	3.06	4.11	0.74	0.63
635.0-621.2	1	630	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-23	0.41	0.20	0.03	2.04	2.67	3.68	0.73	0.76
635.0-621.2	1	628	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-24	0.13	0.50	0.24	2.54	3.41	4.13	0.83	0.75
635.0-621.2	1	627	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-26	0.19	0.18	0.14	1.35	1.85	2.81	0.66	0.73
635.0-621.2	1	626	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-28	0.08	0.27	0.02	0.05	0.42	1.15	0.37	0.12
635.0-621.2	1	626	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-31	0.05	0.87	0.09	0.00	1.01	5.10	0.20	0.00
635.0-621.2	1	625	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-34	0.92	0.49	0.90	0.09	2.40	4.26	0.57	0.04
635.0-621.2	1	630	Caribou Mountains	Canfield et al., 2008, Science		Old Fort Point			0.68	0.16	0.33	0.00	1.18	3.44	0.34	0.00
635.0-621.2	1	630	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.09	2.75	0.02	0.22	3.08	4.24	0.73	0.07
635.0-621.2	1	628	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.12	2.27	0.04	0.30	2.73	4.28	0.64	0.11
635.0-621.2	1	626	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.14	2.58	0.04	0.16	2.91	4.19	0.69	0.05
635.0-621.2	1	624	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.29	1.14	0.07	0.15	1.65	3.46	0.48	0.09
635.0-621.2	1	622	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.26	2.00	0.09	0.10	2.45	4.99	0.49	0.04
635.0-621.2	1	630	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G306	159	0.21	0.58	0.03	0.35	1.17	1.43	0.82	0.30
635.0-621.2	1	631	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G436	138	0.73	0.12	0.06	0.04	0.94	2.63	0.36	0.04
635.0-621.2	1	631	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G306a	143	1.15	0.63	0.06	0.98	2.81	3.96	0.71	0.35
635.0-621.2	1	631	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G306	131	0.24	0.85	0.07	0.69	1.84	3.53	0.52	0.37
635.0-621.2	1	631	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G436	120	0.38	0.13	0.19	0.02	0.72	4.26	0.17	0.03
635.0-621.2	1	632	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G436	105	0.37	0.13	0.13	0.55	1.17	5.19	0.23	0.47
635.0-621.2	1	632	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G436	101.5	0.34	0.15	0.11	0.72	1.32	3.31	0.40	0.54
635.0-621.2	1	632	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G436	95.5	0.31	0.14	0.19	0.18	0.82	3.82	0.21	0.22
635.0-621.2	1	632	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G436	88	0.18	0.10	0.11	0.06	0.46	3.61	0.13	0.14
635.0-621.2	1	633	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G411	72	0.25	0.53	0.19	0.06	1.03	3.81	0.27	0.06
635.0-621.2	1	633	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G411	67	0.13	0.62	0.20	0.00	0.95	4.32	0.22	0.00
635.0-621.2	1	633	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G436	64	0.56	0.24	0.11	0.66	1.57	3.46	0.45	0.42
635.0-621.2	1	634	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G411	45	1.30	0.66	0.08	0.02	2.06	3.38	0.61	0.01
635.0-621.2	1	634	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G436	42	0.23	0.64	0.11	0.28	1.26	3.04	0.41	0.22
635.0-621.2	1	634	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G411	41	1.71	0.71	0.07	0.27	2.76	4.37	0.63	0.10
635.0-621.2	1	634	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G411	37	0.54	0.77	0.19	0.04	1.54	4.42	0.35	0.02
635.0-621.2	1	635	Svalbard	Sperling et al., 2015, Nature	Outcrop	Dracoisen	G436	10.5	0.38	0.13	0.11	0.48	1.11	3.71	0.30	0.43
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G306	159	0.21	0.58	0.03	0.35	1.17	1.43	0.82	0.30
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G306a	143	1.15	0.63	0.06	0.98	2.82	3.96	0.71	0.35
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G306	131	0.24	0.85	0.07	0.69	1.85	3.53	0.52	0.37
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G436	138	0.73	0.12	0.06	0.04	0.95	2.63	0.36	0.04
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G436	120	0.38	0.13	0.19	0.02	0.72	4.26	0.17	0.03
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G436	105	0.37	0.13	0.13	0.55	1.18	5.19	0.23	0.47
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G436	101.5	0.34	0.15	0.11	0.72	1.32	3.31	0.40	0.54
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G436	95.5	0.31	0.14	0.19	0.18	0.82	3.82	0.21	0.22
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G436	88	0.18	0.10	0.11	0.06	0.45	3.61	0.13	0.14
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G436	64	0.56	0.24	0.11	0.66	1.57	3.46	0.45	0.42
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G436	42	0.23	0.64	0.11	0.28	1.26	3.04	0.41	0.22
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G436	10.5	0.38	0.13	0.11	0.05	0.67	3.71	0.18	0.08
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G411	72	0.25	0.53	0.19	0.06	1.03	3.81	0.27	0.06
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G411	67	0.13	0.62	0.20	0.00	0.95	4.32	0.22	0.00
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G411	45	1.30	0.66	0.08	0.02	2.06	3.38	0.61	0.01
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G411	41	1.71	0.71	0.07	0.27	2.76	4.37	0.63	0.10
635.0-621.2	1	635	Svalbard	Kunzmann et al., 2015, CG		Dracoisen	G411	37	0.54	0.77	0.19	0.04	1.54	4.42	0.35	0.02
635.0-621.2	1	625	Svalbard	Canfield et al., 2008, Science		Elbobreen Fm,Spitsbergen			1.39	0.39	0.14	0.06	1.97	4.65	0.42	0.03
621.2-607.4	2	621	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-42	0.14	0.11	0.09	0.82	1.16	2.31	0.50	0.71
621.2-607.4	2	620	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-45	0.13	0.08	0.05	0.44	0.71	1.14	0.62	0.63
621.2-607.4	2	619	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-48	0.11	0.08	0.06	0.51	0.76	1.74	0.44	0.67
621.2-607.4	2	618	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-51	0.16	0.11	0.04	0.49	0.81	1.40	0.57	0.61
621.2-607.4	2	616	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-56	0.06	0.07	0.06	1.01	1.20	2.38	0.50	0.84
621.2-607.4	2	614	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-60	0.07	0.06	0.05	0.70	0.88	1.76	0.50	0.79
621.2-607.4	2	610	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-64	0.09	0.16	0.05	0.51	0.82	1.48	0.55	0.63
621.2-607.4	2	608	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-68I	0.07	0.09	0.06	0.61	0.83	1.60	0.52	0.73
621.2-607.4	2	608	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	JS-68O	0.06	0.11	0.07	0.66	0.89	1.65	0.54	0.74

621.2-607.4	2	619	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	20.8	0.53	0.06	0.07	0.91	1.57	1.65	0.95	0.58
621.2-607.4	2	614	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	27	0.63	0.11	0.12	1.30	2.16	2.53	0.85	0.60
621.2-607.4	2	613	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	27.7	0.39	0.04	0.03	0.54	0.99	1.11	0.89	0.54
621.2-607.4	2	610	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	31.3	0.54	0.53	0.05	0.04	1.16	1.41	0.82	0.03
621.2-607.4	2	608	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	34	0.59	0.32	0.05	0.04	1.00	1.31	0.77	0.04
621.2-607.4	2	620	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	16.1	0.03	1.77	0.36	0.00	2.16	2.28	0.95	0.00
621.2-607.4	2	614	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	24.15	0.24	1.13	0.19	1.38	2.94	2.82	1.00	0.00
621.2-607.4	2	608	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	30.1	0.25	1.11	0.15	1.67	3.17	2.99	1.00	0.46
621.2-607.4	2	617	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	21.5	0.14	0.09	0.01	1.70	1.94	3.01	0.64	0.87
621.2-607.4	2	614	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	24.1	0.18	0.00	0.00	2.45	2.63	3.70	0.71	0.93
621.2-607.4	2	612	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	26	0.20	0.00	0.00	2.44	2.64	3.26	0.81	0.93
621.2-607.4	2	609	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	29	0.11	0.00	0.01	2.68	2.80	3.69	0.76	0.95
621.2-607.4	2	618	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	57.6	0.32	0.13	0.01	1.09	1.54	1.55	0.99	0.70
621.2-607.4	2	614	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-38	0.42	0.29	0.00	0.02	0.74	6.69	0.11	0.03
621.2-607.4	2	614	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-37	0.23	0.13	0.15	0.03	0.54	7.67	0.07	0.06
621.2-607.4	2	613	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-35	0.31	0.47	0.00	0.04	0.82	5.21	0.16	0.05
621.2-607.4	2	610	South China	Canfield et al., 2008, Science		Doushantuo	Songtao		0.36	0.37	0.01	0.56	1.28	1.43	0.90	0.44
621.2-607.4	2	608	Caribou Mountains	Canfield et al., 2008, Science		Old Fort Point			0.31	0.00	0.01	0.38	0.69	1.93	0.36	0.54
621.2-607.4	2	608	Caribou Mountains	Canfield et al., 2008, Science		Old Fort Point			0.74	0.02	0.03	1.48	2.27	3.75	0.61	0.65
621.2-607.4	2	608	Caribou Mountains	Canfield et al., 2008, Science		Old Fort Point			0.61	0.00	0.02	0.05	0.69	1.47	0.47	0.08
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	1	0.22	1.22	0.11	0.04	1.59	4.41	0.36	0.03
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	28	0.22	0.76	0.06	0.06	1.09	3.28	0.33	0.05
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	32	0.20	0.77	0.05	0.03	1.04	2.84	0.37	0.03
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	37.5	0.29	0.82	0.07	0.08	1.27	3.33	0.38	0.07
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	43	0.18	0.75	0.08	0.04	1.06	3.03	0.35	0.04
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	47.5	0.19	1.03	0.09	0.15	1.45	3.82	0.38	0.10
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	49.5	0.30	1.24	0.09	0.10	1.74	3.70	0.47	0.06
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	55	0.16	0.89	0.05	0.08	1.17	3.94	0.30	0.07
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	60	0.29	1.02	0.15	0.11	1.56	3.44	0.45	0.07
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	65	0.28	0.88	0.06	0.11	1.33	4.17	0.32	0.08
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	70	0.23	1.44	0.12	0.08	1.87	5.07	0.37	0.04
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	75	0.26	1.32	0.12	0.05	1.75	2.81	0.62	0.03
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	80	0.32	1.14	0.11	0.15	1.73	6.23	0.28	0.09
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	86	0.16	1.17	0.13	0.06	1.52	3.51	0.43	0.04
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	90	0.21	0.75	0.16	0.08	1.19	2.92	0.41	0.07
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	95	0.30	1.02	0.17	0.03	1.52	3.47	0.44	0.02
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	100	0.17	1.16	0.12	0.03	1.48	4.79	0.31	0.02
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	105	0.34	0.65	0.13	0.11	1.22	2.76	0.44	0.09
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	110	0.24	0.89	0.12	0.08	1.32	2.80	0.47	0.06
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	115	0.23	0.52	0.16	0.07	0.99	3.48	0.28	0.07
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	120	0.27	0.86	0.10	0.07	1.30	2.87	0.45	0.05
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	125	0.31	1.01	0.10	0.11	1.52	2.18	0.70	0.07
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	131	0.28	0.56	0.11	0.06	1.02	3.23	0.32	0.06
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	135	0.22	1.05	0.12	0.11	1.50	3.80	0.40	0.07
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	140	0.14	0.51	0.12	0.01	0.77	2.43	0.32	0.01
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	145	0.28	0.57	0.15	0.13	1.13	2.79	0.40	0.11
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	150	0.26	1.25	0.06	0.04	1.60	3.50	0.46	0.02
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	154	0.10	0.58	0.05	0.01	0.74	3.28	0.22	0.01
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	160	0.24	0.65	0.08	0.04	1.01	3.79	0.27	0.04
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	165	0.06	0.30	0.05	0.01	0.42	5.59	0.08	0.02
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	170	0.12	0.19	0.09	0.01	0.41	5.09	0.08	0.02
621.2-607.4	2	620	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed	W11	175	0.07	1.24	0.04	0.02	1.36	3.38	0.40	0.01
621.2-607.4	2	615	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.38	1.99	0.11	0.09	2.57	5.41	0.48	0.03
621.2-607.4	2	613	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.24	0.39	0.07	0.05	0.75	2.61	0.29	0.07
621.2-607.4	2	611	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.33	1.86	0.13	0.02	2.33	5.50	0.42	0.01
621.2-607.4	2	609	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.50	1.83	0.15	0.03	2.50	6.27	0.40	0.01
621.2-607.4	2	621	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.33	4.55	0.10	0.05	5.03	6.82	0.74	0.01
621.2-607.4	2	619	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.43	1.76	0.14	0.09	2.41	5.14	0.47	0.04
621.2-607.4	2	617	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.42	2.15	0.14	0.06	2.76	5.79	0.48	0.02
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	31	0.03	0.66	0.01	0.07	0.78	1.25	0.63	0.09
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	54	0.08	2.04	0.16	0.00	2.28	4.91	0.46	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	58	0.08	2.23	0.10	0.00	2.42	4.81	0.50	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	62	0.06	2.03	0.12	0.00	2.21	4.80	0.46	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	70	0.15	1.32	0.15	0.00	1.62	4.66	0.35	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	74	0.09	1.64	0.12	0.00	1.85	4.80	0.39	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	82	0.12	1.61	0.11	0.00	1.84	5.17	0.36	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	90	0.08	1.39	0.11	0.00	1.59	5.25	0.30	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	96	0.08	1.88	0.11	0.00	2.07	4.30	0.48	0.00

621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	98	0.15	1.75	0.11	0.00	2.01	4.88	0.41	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	102	0.10	1.55	0.11	0.00	1.76	4.61	0.38	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	110	0.11	1.70	0.14	0.00	1.95	4.95	0.39	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	118	0.07	2.22	0.13	0.00	2.42	5.44	0.45	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	126	0.09	2.03	0.12	0.00	2.25	5.88	0.38	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	134	0.10	1.91	0.13	0.00	2.14	7.07	0.30	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	142	0.26	1.54	0.15	0.03	1.98	6.84	0.29	0.01
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	150	0.20	2.45	0.11	0.01	2.77	6.30	0.44	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	158	0.12	1.97	0.14	0.00	2.23	5.38	0.41	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	166	0.26	1.52	0.17	0.01	1.97	5.83	0.34	0.01
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	174	0.17	1.55	0.15	0.00	1.88	5.23	0.36	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	182	0.14	1.28	0.10	0.00	1.52	5.05	0.30	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	190	0.22	1.70	0.14	0.01	2.08	5.41	0.38	0.01
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	198	0.19	1.14	0.12	0.09	1.55	5.63	0.27	0.06
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	206	0.26	1.02	0.27	0.02	1.57	4.57	0.34	0.01
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	214	0.14	1.33	0.12	0.01	1.60	5.26	0.30	0.01
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	222	0.13	1.65	0.21	0.00	2.00	4.78	0.42	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	230	0.22	1.18	0.31	0.01	1.72	7.83	0.22	0.01
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	238	0.15	1.87	0.13	0.01	2.16	5.11	0.42	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	246	0.15	1.64	0.12	0.01	1.92	5.23	0.37	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	254	0.29	1.53	0.46	0.00	2.29	6.19	0.37	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	262	0.13	2.03	0.13	0.00	2.29	5.40	0.42	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	270	0.23	1.81	0.10	0.00	2.14	4.88	0.44	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	278	0.17	1.92	0.19	0.00	2.28	5.68	0.40	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	286	0.25	2.18	0.13	0.01	2.58	4.30	0.60	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	290	0.22	2.24	0.08	0.01	2.54	5.57	0.46	0.00
621.2-607.4	2	620	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F838	298	0.19	3.05	0.05	0.00	3.29	4.71	0.70	0.00
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.59	0.19	0.08	0.01	0.87	3.62	0.24	0.01
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.34	0.12	0.26	0.01	0.72	4.10	0.18	0.01
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.66	0.29	0.14	0.11	1.20	6.23	0.19	0.09
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.22	0.13	0.10	0.31	0.75	3.38	0.22	0.41
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.52	0.07	0.00	0.17	0.76	1.52	0.50	0.23
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.22	0.81	0.02	0.03	1.08	1.81	0.60	0.03
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.17	1.04	0.03	0.16	1.41	2.90	0.49	0.12
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.61	0.44	0.03	0.36	1.44	2.22	0.65	0.25
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.19	0.47	0.19	0.03	0.88	4.00	0.22	0.03
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.25	0.54	0.24	0.05	1.08	4.60	0.23	0.05
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.22	1.17	0.19	0.02	1.60	4.38	0.36	0.01
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.43	0.22	0.39	0.01	1.04	4.71	0.22	0.01
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.40	0.18	0.23	0.05	0.86	3.71	0.23	0.06
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.16	0.65	0.09	0.14	1.04	4.24	0.24	0.14
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.33	0.91	0.05	0.36	1.65	3.33	0.50	0.22
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.11	0.41	0.01	0.03	0.55	1.34	0.41	0.05
621.2-607.4	2	610	East Greenland	Canfield et al., 2008, Science		Canyon Fm East Greenland			0.14	0.64	0.20	0.41	1.39	4.23	0.33	0.30
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.51	0.29	0.49	1.01	2.30	4.99	0.46	0.44
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.94	0.23	1.38	0.66	3.22	7.08	0.45	0.21
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			1.37	0.09	0.60	0.11	2.17	4.14	0.52	0.05
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.57	0.23	0.46	0.97	2.24	4.83	0.46	0.43
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.62	0.17	0.30	2.75	3.84	5.19	0.74	0.72
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.58	0.27	0.20	1.85	2.90	5.18	0.56	0.64
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.88	0.28	1.47	0.94	3.57	7.70	0.46	0.26
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.66	0.26	0.27	1.50	2.70	4.34	0.62	0.56
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.77	0.07	0.31	1.40	2.55	4.47	0.57	0.55
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.64	0.05	0.26	0.08	1.03	2.52	0.41	0.07
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.44	0.15	0.46	0.02	1.06	3.71	0.29	0.02
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.86	0.10	0.42	0.84	2.22	4.44	0.50	0.38
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.29	0.05	0.17	0.88	1.39	2.84	0.49	0.63
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.58	0.08	0.33	1.12	2.11	4.28	0.49	0.53
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.49	0.07	0.23	1.64	2.43	4.81	0.50	0.68
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.24	0.07	0.20	1.76	2.27	5.10	0.44	0.77
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.47	0.12	0.47	0.01	1.07	4.18	0.26	0.01
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.77	0.10	0.46	0.08	1.42	4.71	0.30	0.06
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.30	0.08	0.23	0.43	1.05	3.42	0.31	0.41
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.66	0.15	0.26	1.35	2.41	5.68	0.43	0.56
621.2-607.4	2	610	Stuart Shelf	Canfield et al., 2008, Science		Elyuah Formation			0.46	0.17	0.12	1.87	2.61	4.10	0.64	0.71
621.2-607.4	2	620	Svalbard	Canfield et al., 2008, Science		Dracoisan Formation			0.19	1.08	0.22	0.05	1.54	3.56	0.43	0.03
621.2-607.4	2	620	Svalbard	Canfield et al., 2008, Science		Dracoisan Formation			0.05	0.87	0.06	0.08	1.06	1.60	0.67	0.08
621.2-607.4	2	620	Svalbard	Canfield et al., 2008, Science		Dracoisan Formation			0.27	1.49	0.26	0.06	2.07	3.56	0.58	0.03

607.4-593.6	3	606	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	32.4	0.11	0.00	0.00	2.40	2.52	2.87	0.88	0.95
607.4-593.6	3	604	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	35.1	0.06	0.00	0.00	2.20	2.27	2.56	0.88	0.97
607.4-593.6	3	600	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	38.5	0.12	0.00	0.00	2.29	2.41	3.90	0.62	0.95
607.4-593.6	3	598	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	41.1	0.09	0.00	0.00	3.09	3.19	3.64	0.88	0.97
607.4-593.6	3	595	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	44.3	0.23	0.00	0.00	1.45	1.68	1.87	0.90	0.86
607.4-593.6	3	600	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	45	0.64	0.08	0.10	0.58	1.41	1.45	0.97	0.41
607.4-593.6	3	596	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	49	0.53	0.10	0.05	0.44	1.12	1.23	0.91	0.40
607.4-593.6	3	605	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	33.6	0.27	1.51	0.44	0.68	2.90	2.47	1.00	0.27
607.4-593.6	3	594	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	109.8	0.52	0.33	0.01	1.66	2.52	2.28	1.00	0.73
607.4-593.6	3	597	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	103.6	1.76	0.17	0.02	1.81	3.76	3.31	1.00	0.55
607.4-593.6	3	601	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	93.6	0.13	0.13	0.01	0.84	1.11	1.02	1.00	0.82
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2348				0.01	0.89	3.95	0.23	0.01
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2349				0.09	1.00	4.08	0.24	0.09
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2350				0.07	1.10	4.20	0.26	0.06
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2351				0.01	1.09	4.59	0.24	0.01
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2351				0.02	1.64	4.93	0.33	0.01
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2352				0.01	1.03	4.30	0.24	0.01
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2394				0.03	1.11	8.51	0.13	0.03
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2400				0.04	1.07	5.49	0.20	0.04
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2445				0.05	0.47	2.21	0.21	0.10
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2449				0.01	1.26	5.38	0.23	0.01
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2450				0.05	1.28	1.54	0.83	0.04
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2502				0.31	0.91	3.40	0.27	0.34
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2504				0.12	0.60	2.17	0.28	0.20
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2506				0.21	0.96	3.54	0.27	0.22
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2508				0.32	0.95	2.99	0.32	0.34
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2559				0.02	2.04	6.31	0.32	0.01
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2563				0.14	1.87	6.23	0.30	0.07
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2600				0.07	0.94	3.82	0.25	0.08
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2601				0.10	0.59	3.41	0.17	0.17
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2602				0.23	1.73	5.49	0.32	0.13
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2603				0.07	0.55	4.41	0.12	0.13
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2606				0.05	0.97	3.35	0.29	0.05
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2688				0.00	1.56	4.89	0.32	0.00
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2690				0.01	1.89	5.24	0.36	0.00
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2691				0.01	1.42	5.78	0.25	0.00
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2692				0.00	1.73	5.31	0.33	0.00
607.4-593.6	3	600	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Vychegda	Kel'tminskaya-1	2728				0.02	0.34	2.38	0.14	0.07
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	16	1.31	0.80	0.00	0.01	2.11	2.98	0.71	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	18	1.74	0.68	0.00	0.01	2.43	3.39	0.72	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	20	0.36	0.81	0.12	0.06	1.34	4.59	0.29	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	20	2.10	0.24	0.00	0.05	2.40	3.08	0.78	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	22	1.63	0.65	0.01	0.10	2.39	3.11	0.77	0.04
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	24	1.19	1.25	0.00	0.03	2.47	3.26	0.76	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	26	1.66	1.07	0.00	0.26	3.00	4.06	0.74	0.09
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	28	0.68	1.51	0.02	0.14	2.35	4.02	0.59	0.06
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	29.3	0.55	1.51	0.04	0.20	2.30	3.51	0.66	0.09
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	30.2	0.12	1.25	0.03	0.03	1.43	2.73	0.52	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	32	0.76	0.69	0.05	0.15	1.65	4.19	0.39	0.09
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	34	1.17	0.94	0.09	0.23	2.43	3.37	0.72	0.09
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	36	0.62	0.38	0.06	0.05	1.10	3.25	0.34	0.04
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	40	0.65	0.71	0.05	0.24	1.65	4.67	0.35	0.15
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	40	0.95	0.98	0.10	0.20	2.23	4.08	0.55	0.09
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	43.8	0.65	0.33	0.06	0.05	1.09	3.43	0.32	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	46	0.87	0.48	0.11	0.19	1.65	3.79	0.44	0.12
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	48.2	1.25	0.59	0.05	0.15	2.05	4.45	0.46	0.07
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	50	1.28	0.35	0.10	0.13	1.86	3.64	0.51	0.07
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	54	0.91	1.07	0.07	0.11	2.15	4.72	0.46	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	56	0.46	0.58	0.13	0.31	1.47	4.25	0.35	0.21
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	58	0.79	0.75	0.06	0.14	1.74	5.00	0.35	0.08
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	60	1.04	0.31	0.25	0.10	1.71	2.97	0.57	0.06
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	62.5	1.25	0.11	0.12	0.22	1.69	4.81	0.35	0.13
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	64	0.43	1.08	0.07	0.09	1.67	4.86	0.34	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	66	0.37	0.79	0.06	0.03	1.25	3.31	0.38	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	68	0.79	0.75	0.06	0.20	1.80	5.33	0.34	0.11
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	70	0.52	0.52	0.06	0.36	1.47	4.79	0.31	0.25
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	72	1.57	0.45	0.12	0.36	2.51	5.34	0.47	0.15
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	75	0.50	0.55	0.06	0.05	1.17	4.75	0.25	0.05

607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	77	0.53	0.48	0.06	0.15	1.22	4.83	0.25	0.12
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	79	0.57	0.35	0.07	0.08	1.07	4.63	0.23	0.08
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	82	0.52	0.77	0.05	0.17	1.51	4.82	0.31	0.11
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	85	1.22	0.21	0.20	0.21	1.84	4.25	0.43	0.11
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	87	1.19	0.18	0.15	0.06	1.57	3.20	0.49	0.04
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	90	0.62	0.67	0.04	0.19	1.52	4.51	0.34	0.13
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	91	0.29	1.06	0.05	0.13	1.52	4.46	0.34	0.08
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	93	0.41	0.61	0.03	0.10	1.14	2.89	0.39	0.08
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	95	0.57	0.78	0.03	0.17	1.55	4.38	0.36	0.11
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	97	0.44	1.36	0.04	0.10	1.93	4.51	0.43	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	99	0.98	0.34	0.16	0.26	1.74	2.60	0.67	0.15
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	101	0.78	1.09	0.04	0.15	2.06	3.69	0.56	0.07
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	103	1.02	0.39	0.27	0.16	1.83	4.51	0.41	0.09
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	105	0.55	1.20	0.04	0.10	1.89	4.23	0.45	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	107	0.40	1.88	0.04	0.15	2.47	5.08	0.49	0.06
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	109	1.00	1.74	0.08	0.24	3.06	6.02	0.51	0.08
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	112	1.51	0.32	0.33	0.18	2.33	4.20	0.56	0.08
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	113	0.95	1.15	0.04	0.16	2.30	6.06	0.38	0.07
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	119	0.58	0.50	0.04	0.13	1.25	3.83	0.33	0.11
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	121	0.45	0.65	0.04	0.18	1.33	4.34	0.31	0.14
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	123	0.45	0.78	0.05	0.14	1.41	4.40	0.32	0.10
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	125	1.46	0.33	0.29	0.34	2.43	4.95	0.49	0.14
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	127	0.57	0.86	0.03	0.22	1.68	4.84	0.35	0.13
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	129	0.48	0.39	0.02	0.18	1.07	4.48	0.24	0.17
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	131	0.54	1.42	0.05	0.19	2.20	5.02	0.44	0.09
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	135	1.39	0.63	0.26	0.14	2.42	5.35	0.45	0.06
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	139	0.64	0.95	0.07	0.18	1.84	5.45	0.34	0.10
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	141	0.29	1.17	0.07	0.07	1.60	4.71	0.34	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	143	0.71	0.97	0.07	0.15	1.89	4.67	0.41	0.08
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	145	0.64	1.04	0.08	0.16	1.93	5.03	0.38	0.08
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	147	1.37	0.83	0.28	0.06	2.54	5.53	0.46	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	149	0.26	1.27	0.07	0.04	1.65	4.73	0.35	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	151	0.28	1.03	0.06	0.10	1.47	4.52	0.33	0.07
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	153	0.23	0.68	0.05	0.10	1.05	3.80	0.28	0.10
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	155	0.89	0.51	0.31	0.29	2.00	4.25	0.47	0.14
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	157	1.44	0.57	0.32	0.11	2.44	5.16	0.47	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	159	0.39	1.24	0.08	0.06	1.76	4.59	0.38	0.03
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	161	0.32	1.63	0.07	0.01	2.04	4.10	0.50	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	163	0.81	0.62	0.08	0.12	1.63	5.02	0.33	0.08
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	165	1.53	0.61	0.25	0.14	2.52	4.76	0.53	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	167	0.16	1.63	0.06	0.12	1.97	5.48	0.36	0.06
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	168	0.22	1.16	0.06	0.02	1.46	4.41	0.33	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	176	1.68	0.56	0.22	0.03	2.49	3.99	0.62	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	182	0.29	1.51	0.10	0.16	2.05	4.27	0.48	0.08
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	184	0.31	1.34	0.06	0.17	1.87	4.02	0.47	0.09
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	187	0.34	1.46	0.09	0.11	2.01	4.27	0.47	0.06
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	188.5	0.62	1.50	0.11	0.15	2.38	4.95	0.48	0.06
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	191	0.90	1.12	0.06	0.11	2.18	5.35	0.41	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	193.5	0.42	1.01	0.12	0.05	1.59	4.33	0.37	0.03
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	195	1.10	0.74	0.10	0.11	2.05	2.80	0.73	0.06
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	197	0.76	1.42	0.16	0.05	2.39	5.37	0.45	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	199	0.67	1.46	0.11	0.01	2.25	5.80	0.39	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	201	0.63	1.16	0.23	0.05	2.07	4.99	0.41	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	203	0.68	1.92	0.19	0.13	2.93	5.53	0.53	0.04
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	205.2	0.67	0.15	0.19	0.12	1.14	5.46	0.21	0.11
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	207	0.43	0.88	0.13	0.03	1.47	4.64	0.32	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	208.5	0.54	1.23	0.14	0.05	1.96	5.10	0.38	0.03
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	213	0.41	0.93	0.08	0.01	1.44	4.60	0.31	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	215	0.23	1.19	0.10	0.03	1.55	4.31	0.36	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	219	0.39	1.28	0.12	0.05	1.84	5.14	0.36	0.03
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	221	0.48	1.64	0.17	0.27	2.55	6.00	0.42	0.11
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	223	0.63	1.57	0.13	0.04	2.38	5.56	0.43	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	227	0.57	1.54	0.17	0.08	2.36	5.71	0.41	0.03
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	229	0.28	1.10	0.12	0.06	1.57	4.12	0.38	0.04
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	234	0.80	0.69	0.14	0.12	1.75	4.40	0.40	0.07
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	236	0.80	1.12	0.14	0.04	2.10	4.80	0.44	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	238	0.39	0.71	0.15	0.06	1.31	4.26	0.31	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	240	1.27	0.93	0.11	0.02	2.33	4.24	0.55	0.01

607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	242	0.74	1.29	0.18	0.02	2.23	5.40	0.41	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	244	0.62	0.95	0.16	0.02	1.75	5.18	0.34	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	248	0.34	0.49	0.16	0.00	0.99	3.87	0.26	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	252	0.43	1.46	0.09	0.12	2.09	5.07	0.41	0.06
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	253	1.08	1.22	0.15	0.10	2.55	5.26	0.48	0.04
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	254	0.62	1.28	0.11	0.04	2.04	5.15	0.40	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	256	0.48	0.74	0.12	0.03	1.36	4.86	0.28	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	258	0.00	0.67	0.09	0.02	0.79	1.57	0.51	0.03
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	260	0.50	0.64	0.09	0.04	1.27	4.97	0.25	0.03
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	262	0.85	0.95	0.18	0.05	2.03	6.37	0.32	0.03
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	264	0.61	0.57	0.14	0.02	1.35	5.16	0.26	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	264	0.74	0.93	0.19	0.02	1.88	4.43	0.42	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	266	0.63	0.58	0.15	0.03	1.39	2.20	0.63	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	268	0.51	1.72	0.15	0.02	2.38	5.24	0.45	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	270	1.00	1.10	0.12	0.02	2.23	5.02	0.44	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	272	0.72	1.27	0.15	0.02	2.15	5.64	0.38	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	274	0.96	0.83	0.13	0.03	1.94	4.28	0.45	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	276	0.67	1.43	0.17	0.00	2.27	5.61	0.40	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	278	0.93	1.02	0.12	0.03	2.10	6.30	0.33	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	280	0.35	0.91	0.12	0.03	1.40	3.88	0.36	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	282	0.54	1.54	0.13	0.04	2.24	5.23	0.43	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	284	0.37	0.70	0.12	0.06	1.25	5.78	0.22	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	284	0.39	0.93	0.14	0.05	1.50	6.02	0.25	0.03
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	286	0.27	0.57	0.12	0.02	0.97	5.27	0.18	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	288	2.17	0.55	0.07	0.19	2.98	7.14	0.42	0.06
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	290	0.31	0.52	0.11	0.14	1.08	5.04	0.21	0.13
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	292	0.26	0.67	0.12	0.08	1.14	5.23	0.22	0.07
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	294	0.46	0.92	0.11	0.05	1.54	5.21	0.30	0.04
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	298	0.33	0.93	0.12	0.01	1.40	5.93	0.24	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	300	0.75	0.75	0.13	0.01	1.63	5.11	0.32	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	302	1.21	0.66	0.13	0.01	2.01	4.14	0.48	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	304	0.21	0.43	0.08	0.04	0.76	4.26	0.18	0.05
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	306	0.26	1.24	0.10	0.12	1.72	5.71	0.30	0.07
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	316	0.25	1.05	0.09	0.01	1.39	3.73	0.37	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	318	0.98	0.62	0.12	0.01	1.73	5.03	0.34	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	320	0.53	1.82	0.15	0.00	2.50	5.50	0.45	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	324	0.38	0.53	0.11	0.01	1.03	3.53	0.29	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	326	0.20	1.09	0.16	0.02	1.47	5.29	0.28	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	328	0.22	1.28	0.16	0.01	1.67	6.45	0.26	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	331	0.34	0.93	0.11	0.20	1.57	6.09	0.26	0.13
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	332	0.20	1.06	0.11	0.03	1.40	4.84	0.29	0.02
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	334	0.22	0.79	0.14	0.01	1.15	5.67	0.20	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	336	0.34	0.12	0.15	0.00	0.62	5.58	0.11	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	338	0.28	0.66	0.12	0.09	1.15	5.82	0.20	0.08
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	340	0.28	0.94	0.16	0.14	1.51	6.88	0.22	0.09
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	342	0.27	1.30	0.13	0.00	1.71	5.83	0.29	0.00
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	344	0.41	0.98	0.12	0.12	1.63	6.12	0.27	0.08
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	346	0.60	0.84	0.08	0.05	1.56	4.22	0.37	0.03
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	348.5	0.16	0.65	0.08	0.12	1.00	4.42	0.23	0.12
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	352	0.20	0.36	0.10	0.04	0.70	4.84	0.14	0.06
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	354	0.21	0.78	0.10	0.03	1.13	5.35	0.21	0.03
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	356	0.20	0.97	0.04	0.21	1.42	4.53	0.31	0.15
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	358	0.25	0.71	0.05	0.26	1.26	3.86	0.33	0.20
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	360	0.44	0.98	0.09	0.05	1.56	4.48	0.35	0.03
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	360	0.70	0.73	0.07	0.01	1.52	3.16	0.48	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	362	0.19	1.61	0.10	0.02	1.91	4.15	0.46	0.01
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	364	0.18	1.87	0.09	0.17	2.30	5.05	0.46	0.07
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	366	1.95	1.29	0.03	0.37	3.63	4.69	0.77	0.10
607.4-593.6	3	600	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Sheepbed	F849	368	0.87	1.43	0.01	0.21	2.52	3.94	0.64	0.08
607.4-593.6	3	605	East Greenland	Canfield et al., 2008, Science		Spiral Creek Formation			0.37	0.58	0.04	0.05	1.03	1.88	0.55	0.04
607.4-593.6	3	605	East Greenland	Canfield et al., 2008, Science		Spiral Creek Formation			0.70	0.48	0.03	0.13	1.33	2.01	0.66	0.10
607.4-593.6	3	605	East Greenland	Canfield et al., 2008, Science		Spiral Creek Formation			0.30	0.45	0.12	0.25	1.11	3.51	0.32	0.22
607.4-593.6	3	605	East Greenland	Canfield et al., 2008, Science		Spiral Creek Formation			0.20	0.21	0.14	0.01	0.56	2.01	0.28	0.01
607.4-593.6	3	605	East Greenland	Canfield et al., 2008, Science		Spiral Creek Formation			0.36	0.19	0.25	0.01	0.82	2.36	0.35	0.01
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-70	0.10	0.34	0.04	0.00	0.48	3.64	0.13	0.01
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-78	0.06	0.22	0.03	0.01	0.32	3.24	0.10	0.02
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-88	0.10	0.93	0.04	0.00	1.07	3.40	0.32	0.00
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-99	0.03	1.29	0.03	0.05	1.41	2.38	0.59	0.04

607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-105	0.03	0.86	0.02	0.02	0.93	1.58	0.59	0.02
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-114	0.15	0.28	0.05	0.06	0.54	4.26	0.13	0.12
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-118	0.02	0.55	0.01	0.08	0.65	1.13	0.58	0.12
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-119CRUMBLY	0.30	1.23	0.00	0.11	1.64	1.87	0.88	0.07
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-124.3	0.05	0.17	0.02	0.01	0.25	2.74	0.09	0.03
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-128	0.10	0.80	0.03	0.11	1.04	3.08	0.34	0.11
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-132	0.26	0.14	0.02	1.04	1.46	3.44	0.42	0.71
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-139	0.01	0.59	0.05	0.19	0.84	1.07	0.78	0.22
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-146	0.02	1.70	0.03	0.16	1.91	2.40	0.80	0.08
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-156	0.07	0.63	0.01	0.08	0.78	1.35	0.58	0.10
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-166	0.22	0.75	0.03	0.13	1.13	3.40	0.33	0.11
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-175	0.11	1.82	0.04	0.06	2.03	3.60	0.56	0.03
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-205	0.10	0.95	0.05	0.00	1.11	5.03	0.22	0.00
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-216	0.12	0.54	0.06	0.01	0.74	4.53	0.16	0.02
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-228	0.14	0.59	0.05	0.01	0.79	4.49	0.18	0.01
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-237	0.19	0.31	0.19	0.00	0.69	6.51	0.11	0.00
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-243	0.06	0.23	0.03	0.00	0.32	3.25	0.10	0.01
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-253	0.04	1.90	0.03	0.02	1.99	2.91	0.68	0.01
607.4-593.6	3	600	Mackenzie Mountains	Sperling et al., 2015, GSAB		Sheepbed(?)		F1165-263	0.19	2.13	0.04	0.07	2.43	3.66	0.66	0.03
607.4-593.6	3	605	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.38	2.70	0.12	0.05	3.25	6.08	0.53	0.01
607.4-593.6	3	603	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.40	3.87	0.12	0.03	4.42	6.91	0.64	0.01
607.4-593.6	3	602	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.31	1.92	0.09	0.02	2.34	5.04	0.46	0.01
607.4-593.6	3	600	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.59	0.99	0.19	0.98	2.74	6.25	0.44	0.36
607.4-593.6	3	598	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.41	3.45	0.14	0.06	4.06	7.03	0.58	0.01
607.4-593.6	3	596	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.77	2.48	0.41	0.63	4.29	8.15	0.53	0.15
607.4-593.6	3	594	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.48	0.60	0.07	1.16	2.31	4.49	0.52	0.50
607.4-593.6	3	607	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.40	3.34	0.13	0.05	3.91	6.92	0.57	0.01
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	70	0.10	0.34	0.04	0.00	0.48	3.64	0.13	0.01
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	78	0.06	0.22	0.03	0.01	0.32	3.24	0.10	0.02
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	88	0.10	0.93	0.04	0.00	1.07	3.40	0.32	0.00
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	99	0.03	1.29	0.03	0.05	1.41	2.38	0.59	0.04
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	105	0.03	0.86	0.02	0.02	0.93	1.58	0.59	0.02
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	114	0.15	0.28	0.05	0.06	0.54	4.26	0.13	0.12
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	118	0.02	0.55	0.01	0.08	0.65	1.13	0.58	0.12
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	124.3	0.05	0.17	0.02	0.01	0.25	2.74	0.09	0.03
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	128	0.10	0.80	0.03	0.11	1.04	3.08	0.34	0.11
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	132	0.26	0.14	0.02	1.04	1.46	3.44	0.42	0.71
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	139	0.01	0.59	0.05	0.19	0.84	1.07	0.78	0.22
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	146	0.02	1.70	0.03	0.16	1.91	2.40	0.80	0.08
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	156	0.07	0.63	0.01	0.08	0.78	1.35	0.58	0.10
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	166	0.22	0.75	0.03	0.13	1.13	3.40	0.33	0.11
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	175	0.11	1.82	0.04	0.06	2.03	3.60	0.56	0.03
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	205	0.10	0.95	0.05	0.00	1.11	5.03	0.22	0.00
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	216	0.12	0.54	0.06	0.01	0.74	4.53	0.16	0.02
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	228	0.14	0.59	0.05	0.01	0.79	4.49	0.18	0.01
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	237	0.19	0.31	0.19	0.00	0.69	6.51	0.11	0.00
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	243	0.06	0.23	0.03	0.00	0.32	3.25	0.10	0.01
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	253	0.04	1.90	0.03	0.02	1.99	2.91	0.68	0.01
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	263	0.19	2.13	0.04	0.07	2.43	3.66	0.66	0.03
593.6-579.8	4	590	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Sheepbed?	F1165	119crumbly	0.30	1.23	0.00	0.11	1.64	1.87	0.88	0.07
593.6-579.8	4	592	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.33	0.75	0.09	0.88	2.05	4.49	0.46	0.43
593.6-579.8	4	590	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed			0.45	3.80	0.12	0.20	4.57	6.98	0.65	0.04
593.6-579.8	4	590	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed middle mbr			0.05	1.93	0.01	0.16	2.15	2.94	0.73	0.07
593.6-579.8	4	590	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed middle mbr			0.02	1.47	0.00	0.15	1.64	2.01	0.82	0.09
593.6-579.8	4	590	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed middle mbr			0.04	2.27	0.01	0.16	2.46	3.19	0.77	0.06
593.6-579.8	4	590	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed middle mbr			0.03	3.22	0.00	0.39	3.64	4.26	0.86	0.11
593.6-579.8	4	590	Mackenzie Mountains	Canfield et al., 2008, Science		Sheepbed middle mbr			0.04	2.11	0.01	0.21	2.37	3.04	0.78	0.09
593.6-579.8	4	580	Caribou Mountains	Canfield et al., 2008, Science		Upper Kaza			0.16	0.02	0.10	0.00	0.28	4.23	0.07	0.00
593.6-579.8	4	580	Caribou Mountains	Canfield et al., 2008, Science		Upper Kaza			0.59	0.10	0.31	0.21	1.20	5.35	0.22	0.17
593.6-579.8	4	580	Caribou Mountains	Canfield et al., 2008, Science		Upper Kaza			0.14	0.04	0.05	0.03	0.25	4.62	0.05	0.10
593.6-579.8	4	580	Caribou Mountains	Canfield et al., 2008, Science		Upper Kaza			0.32	0.07	0.17	0.01	0.56	3.83	0.15	0.02
593.6-579.8	4	580	Caribou Mountains	Canfield et al., 2008, Science		Upper Kaza			0.29	0.07	0.19	0.00	0.55	3.44	0.16	0.00
593.6-579.8	4	583	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.39	0.22	0.32	0.07	1.00	2.79	0.36	0.07
593.6-579.8	4	583	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.30	0.21	0.29	0.18	0.98	3.20	0.30	0.18
593.6-579.8	4	583	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.34	0.25	0.34	0.04	0.96	3.50	0.28	0.04
593.6-579.8	4	583	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.32	0.26	0.35	0.08	1.00	3.58	0.28	0.08
593.6-579.8	4	583	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.30	0.25	0.31	0.01	0.87	2.95	0.29	0.01
593.6-579.8	4	583	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.45	0.31	0.42	0.05	1.23	3.68	0.33	0.04

593.6-579.8	4	583	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.54	0.34	0.52	0.02	1.42	4.77	0.30	0.01
593.6-579.8	4	583	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.32	0.32	0.31	0.01	0.97	3.06	0.32	0.01
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.50	0.26	0.46	0.01	1.23	4.19	0.29	0.01
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.32	0.28	0.41	0.00	1.01	3.59	0.28	0.00
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.39	0.32	0.36	0.02	1.09	3.28	0.33	0.02
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.40	0.31	0.37	0.02	1.10	3.68	0.30	0.01
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.31	0.30	0.26	0.00	0.87	3.85	0.23	0.00
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.31	0.26	0.20	0.00	0.78	2.84	0.27	0.01
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.39	0.24	0.24	0.01	0.88	3.39	0.26	0.01
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.39	0.36	0.33	0.03	1.10	3.08	0.36	0.02
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.32	0.35	0.38	0.00	1.06	3.66	0.29	0.00
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.49	0.40	0.55	0.00	1.44	4.18	0.34	0.00
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.14	0.17	0.15	0.00	0.46	2.03	0.23	0.00
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.31	0.21	0.21	0.00	0.72	2.09	0.35	0.00
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.31	0.27	0.26	0.00	0.85	2.76	0.31	0.00
593.6-579.8	4	582	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.26	0.41	0.46	0.00	1.13	3.39	0.34	0.00
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.39	0.37	0.27	0.57	1.60	3.14	0.51	0.36
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.29	0.34	0.37	0.00	1.00	3.61	0.28	0.00
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.39	0.23	0.22	0.03	0.87	2.38	0.37	0.03
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.22	0.27	0.33	0.04	0.85	2.13	0.40	0.04
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.21	0.25	0.27	0.04	0.76	2.56	0.30	0.05
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.09	0.09	0.07	0.01	0.26	1.00	0.26	0.03
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		middle upper Mall Bay			0.13	0.14	0.13	0.17	0.56	1.31	0.42	0.30
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		lower Gaskiers			0.44	0.36	0.33	0.02	1.16	2.93	0.40	0.02
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		lower Gaskiers			0.41	0.44	0.58	0.08	1.52	3.51	0.43	0.05
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		lower Gaskiers			0.49	0.41	0.62	0.01	1.54	4.73	0.32	0.01
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		lower Gaskiers			0.44	0.24	0.30	0.01	1.00	3.02	0.33	0.01
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		lower Gaskiers			0.38	0.45	0.33	0.00	1.16	3.73	0.31	0.00
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		lower Gaskiers			0.17	0.60	0.32	0.01	1.10	4.07	0.27	0.01
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		lower Gaskiers			0.29	0.78	0.52	0.00	1.60	4.61	0.35	0.00
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		lower Gaskiers			0.31	0.71	0.51	0.01	1.54	4.45	0.35	0.01
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Gaskiers			0.25	0.17	0.28	0.14	0.83	3.13	0.27	0.16
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Gaskiers			0.28	0.41	0.43	0.06	1.17	3.97	0.30	0.05
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Gaskiers			0.29	0.16	0.33	0.08	0.85	3.69	0.23	0.09
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Gaskiers			0.31	0.24	0.48	0.02	1.06	3.84	0.28	0.02
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers Harbour Main			0.27	0.42	0.53	0.01	1.23	3.99	0.31	0.00
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers Harbour Main			0.38	0.42	0.52	0.01	1.33	3.76	0.35	0.01
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers Harbour Main			0.35	0.40	0.42	0.00	1.17	3.71	0.32	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers Harbour Main			0.34	0.57	0.40	0.00	1.32	3.78	0.35	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers Harbour Main			0.16	0.83	0.17	0.00	1.16	3.30	0.35	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers Harbour Main			0.08	1.26	0.18	0.00	1.52	3.29	0.46	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers Harbour Main			0.07	1.45	0.21	0.00	1.73	3.60	0.48	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers Harbour Main			0.18	0.91	0.28	0.00	1.36	3.72	0.37	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers Harbour Main			0.32	0.94	0.31	0.00	1.56	3.76	0.42	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers Harbour Main			0.32	0.46	0.21	0.01	1.00	2.92	0.34	0.01
593.6-579.8	4	581	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers St. Mary's			0.34	0.63	0.58	0.01	1.56	3.86	0.40	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers St. Mary's			0.35	0.65	0.54	0.01	1.55	3.61	0.43	0.01
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers St. Mary's			0.48	0.76	0.78	0.03	2.04	4.66	0.44	0.01
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers St. Mary's			0.30	0.72	0.53	0.01	1.57	3.65	0.43	0.01
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers St. Mary's			0.32	0.75	0.58	0.05	1.71	4.09	0.42	0.03
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Gaskiers St. Mary's			0.27	0.64	0.49	0.00	1.41	3.59	0.39	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lowermost Drook at St Mary's			0.17	1.16	0.35	0.00	1.68	3.91	0.43	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lowermost Drook at St Mary's			0.18	0.40	0.22	0.00	0.81	3.33	0.24	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lowermost Drook at St Mary's			0.16	0.13	0.11	0.01	0.41	2.18	0.19	0.02
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lowermost Drook at St Mary's			0.16	0.34	0.21	0.00	0.71	2.67	0.27	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lowermost Drook at St Mary's			0.17	0.27	0.19	0.00	0.64	2.65	0.24	0.01
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lowermost Drook at St Mary's			0.04	0.82	0.37	0.00	1.24	4.16	0.30	0.00
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lowermost Drook at St Mary's			0.18	0.20	0.16	0.00	0.54	2.77	0.20	0.01
593.6-579.8	4	580	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Drook@Harbour Main			0.38	0.36	0.34	0.00	1.08	4.30	0.25	0.00
593.6-579.8	4	582	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	57.3	0.03	0.00	0.00	1.47	1.49	2.43	0.61	0.98
593.6-579.8	4	581	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	60.7	0.15	0.08	0.01	0.82	1.06	1.34	0.79	0.77
593.6-579.8	4	581	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	61.1	0.30	0.24	0.04	0.40	0.99	1.16	0.85	0.41
593.6-579.8	4	580	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	62.4	0.48	0.24	0.05	0.12	0.88	1.01	0.88	0.14
593.6-579.8	4	580	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	63.1	0.15	0.00	0.05	0.85	1.06	1.37	0.77	0.81
593.6-579.8	4	580	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	63.7	0.05	0.02	0.07	0.48	0.61	1.61	0.38	0.79
593.6-579.8	4	580	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	63.9	0.06	0.08	0.06	0.50	0.71	1.04	0.68	0.71
593.6-579.8	4	580	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	64.5	0.01	0.00	0.01	1.73	1.76	2.51	0.70	0.99
593.6-579.8	4	590	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	49.7	0.04	1.70	0.38	0.00	2.12	2.38	0.89	0.00

593.6-579.8	4	584	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	55.3	0.01	2.11	0.50	0.00	2.62	2.91	0.90	0.00
593.6-579.8	4	583	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	56	0.01	1.69	0.51	0.01	2.22	2.69	0.83	0.00
593.6-579.8	4	581	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	59.85	0.01	1.73	0.23	0.00	1.98	2.45	0.81	0.00
593.6-579.8	4	592	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	47.5	0.15	0.00	0.01	2.78	2.94	2.41	1.00	0.95
593.6-579.8	4	589	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	50.1	0.16	0.00	0.00	2.28	2.44	2.60	0.94	0.94
593.6-579.8	4	586	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	53.4	0.07	0.00	0.00	2.88	2.96	3.62	0.82	0.97
593.6-579.8	4	585	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	54.9	0.10	0.04	0.01	3.47	3.61	3.09	1.00	0.96
593.6-579.8	4	583	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member II	Wuhe	56.3	0.08	0.03	0.01	3.89	4.01	2.77	1.00	0.97
593.6-579.8	4	588	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	123.4	1.02	0.23	0.03	2.19	3.47	3.29	1.00	0.67
593.6-579.8	4	581	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	139	0.81	0.47	0.01	0.91	2.19	1.83	1.00	0.50
593.6-579.8	4	592	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-71	0.15	0.67	0.08	0.01	0.91	1.15	0.79	0.01
593.6-579.8	4	593	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-69	0.16	0.63	0.06	0.04	0.89	1.16	0.76	0.04
593.6-579.8	4	589	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	58	0.43	0.04	0.05	1.64	2.16	2.20	0.98	0.76
593.6-579.8	4	587	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	60.5	0.59	0.39	0.08	0.07	1.13	1.34	0.84	0.06
593.6-579.8	4	587	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	61.1	0.48	0.08	0.16	0.62	1.33	1.51	0.88	0.47
593.6-579.8	4	583	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	66	0.52	0.16	0.16	0.52	1.36	1.37	0.99	0.38
593.6-579.8	4	582	South China	Och et al., 2016, Sedimentology	Outcrop	DST II	Jiulongwan	66.9	0.42	0.04	0.07	0.75	1.27	1.45	0.88	0.59
593.6-579.8	4	588	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	HN-04	0.35	0.09	0.09	0.53	1.07	1.48	0.72	0.50
593.6-579.8	4	590	Stuart Shelf	Canfield et al., 2008, Science		Grants Bluff			0.37	0.11	0.41	0.34	1.22	4.53	0.27	0.28
593.6-579.8	4	590	Stuart Shelf	Canfield et al., 2008, Science		Grants Bluff			0.46	0.11	0.07	0.95	1.59	3.56	0.45	0.60
593.6-579.8	4	590	Stuart Shelf	Canfield et al., 2008, Science		Grants Bluff			0.41	0.03	0.05	0.18	0.67	2.54	0.26	0.27
593.6-579.8	4	590	Stuart Shelf	Canfield et al., 2008, Science		Grants Bluff			0.52	0.28	0.17	1.39	2.35	4.19	0.56	0.59
593.6-579.8	4	590	Stuart Shelf	Canfield et al., 2008, Science		Grants Bluff			0.51	0.10	0.16	1.85	2.62	4.14	0.63	0.71
593.6-579.8	4	590	Stuart Shelf	Canfield et al., 2008, Science		Grants Bluff			0.47	0.17	0.15	1.55	2.33	3.47	0.67	0.66
593.6-579.8	4	590	Stuart Shelf	Canfield et al., 2008, Science		Grants Bluff			0.61	0.10	0.27	1.38	2.36	4.35	0.54	0.58
593.6-579.8	4	590	Stuart Shelf	Canfield et al., 2008, Science		Grants Bluff			0.49	0.11	0.16	1.76	2.52	4.13	0.61	0.70
593.6-579.8	4	590	Stuart Shelf	Canfield et al., 2008, Science		Grants Bluff			0.31	0.09	0.14	0.77	1.31	2.95	0.44	0.59
593.6-579.8	4	590	Stuart Shelf	Canfield et al., 2008, Science		Grants Bluff			0.47	0.19	0.15	1.86	2.67	4.19	0.64	0.70
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	28.5	0.24	1.34	0.03	0.53	2.14	3.72	0.57	0.25
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	31.2	0.72	1.01	0.03	0.21	1.98	2.96	0.67	0.11
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	33.75	0.16	1.06	0.02	0.09	1.32	2.82	0.47	0.07
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	38.6	0.25	0.84	0.03	0.18	1.30	3.48	0.37	0.14
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	53.3	0.28	1.24	0.03	0.18	1.73	3.97	0.44	0.10
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	66.5	0.43	0.95	0.02	0.12	1.52	2.61	0.58	0.08
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	70	0.39	1.40	0.02	0.12	1.93	3.00	0.64	0.06
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	76.9	0.20	1.52	0.04	0.02	1.77	3.27	0.54	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	86	0.09	1.98	0.04	0.11	2.22	4.03	0.55	0.05
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	92	0.12	1.27	0.06	0.03	1.48	4.12	0.36	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	103.5	0.36	1.36	0.02	0.15	1.89	2.60	0.73	0.08
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	116.5	0.14	1.45	0.03	0.09	1.70	2.99	0.57	0.05
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	126.8	0.03	0.75	0.02	0.01	0.80	1.42	0.56	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	141.3	0.09	0.15	0.06	0.00	0.30	3.35	0.09	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	159	0.12	0.29	0.07	0.06	0.54	4.23	0.13	0.11
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	181.9	0.08	0.30	0.05	0.02	0.46	4.33	0.11	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	196.2	0.09	1.31	0.05	0.06	1.51	3.17	0.48	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	209.2	0.06	1.73	0.06	0.04	1.89	3.88	0.49	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	217.5	0.16	1.76	0.10	0.09	2.10	4.14	0.51	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	223	0.10	1.93	0.04	0.08	2.16	3.62	0.60	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	232.5	0.11	1.17	0.05	0.16	1.50	2.59	0.58	0.11
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	253	0.07	1.65	0.05	0.05	1.82	3.13	0.58	0.03
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	278	0.20	1.83	0.09	0.12	2.23	3.76	0.59	0.05
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	289.5	0.16	2.21	0.12	0.11	2.61	4.01	0.65	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1161	303.4	0.09	2.19	0.02	0.14	2.45	3.02	0.81	0.06
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	51.3	0.09	2.44	0.02	0.17	2.72	3.22	0.84	0.06
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	56	0.07	0.87	0.01	0.16	1.11	1.75	0.63	0.14
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	122.5	0.17	2.34	0.01	0.07	2.59	2.89	0.90	0.03
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	135	0.08	1.04	0.00	0.10	1.22	1.63	0.75	0.08
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	145	0.50	1.58	0.00	0.17	2.26	2.73	0.83	0.07
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	165.2	0.14	1.85	0.00	0.09	2.08	2.48	0.84	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	176.5	0.13	2.95	0.03	0.08	3.18	4.10	0.78	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	179.5	0.07	3.17	0.01	0.15	3.41	3.83	0.89	0.05
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	194	0.03	1.85	0.02	0.03	1.94	2.87	0.68	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	203.4	0.02	0.38	0.00	0.01	0.42	1.11	0.38	0.03
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	212	0.04	0.14	0.00	0.11	0.30	2.70	0.11	0.36
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	226	0.05	0.89	0.00	0.03	0.97	1.51	0.65	0.03
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	F1162	250.5	0.04	1.07	0.00	0.08	1.19	1.26	0.94	0.07
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB		June beds		N-89-115	0.04	1.37	0.01	0.21	1.62	1.79	0.91	0.13
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB		June beds		N91-21	0.10	2.34	0.01	0.45	2.91	3.27	0.89	0.16

579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	N11-06-gully 4-219 m	0.09	1.81	0.01	0.03	1.94	2.60	0.74	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-28.5	0.24	1.34	0.03	0.53	2.14	3.72	0.57	0.25
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-31.2	0.72	1.01	0.03	0.21	1.98	2.96	0.67	0.11
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-33.76	0.16	1.06	0.02	0.09	1.32	2.82	0.47	0.07
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-38.6	0.25	0.84	0.03	0.18	1.30	3.48	0.37	0.14
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-53.3	0.28	1.24	0.03	0.18	1.73	3.97	0.44	0.10
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-66.5	0.43	0.95	0.02	0.12	1.52	2.61	0.58	0.08
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-70	0.34	1.40	0.02	0.12	1.89	3.00	0.63	0.07
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-76.9	0.20	1.52	0.04	0.02	1.77	3.27	0.54	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-86	0.09	1.98	0.04	0.11	2.22	4.03	0.55	0.05
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-92	0.12	1.27	0.06	0.03	1.48	4.12	0.36	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-103.5	0.36	1.36	0.02	0.15	1.89	2.60	0.73	0.08
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-116.5	0.14	1.45	0.03	0.09	1.70	2.99	0.57	0.05
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-126.8	0.03	0.75	0.02	0.01	0.80	1.42	0.56	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-141.3	0.09	0.15	0.06	0.00	0.30	3.35	0.09	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-159	0.12	0.29	0.07	0.06	0.54	4.23	0.13	0.11
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-181.9	0.08	0.30	0.05	0.02	0.46	4.33	0.11	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-196.2	0.09	1.31	0.05	0.06	1.51	3.17	0.48	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-209.2	0.06	1.73	0.06	0.04	1.89	3.88	0.49	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-217.5	0.16	1.76	0.10	0.09	2.10	4.14	0.51	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-223	0.10	1.93	0.04	0.08	2.16	3.62	0.60	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-232.5	0.11	1.17	0.05	0.16	1.50	2.59	0.58	0.11
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-253	0.07	1.65	0.05	0.05	1.82	3.13	0.58	0.03
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-278	0.20	1.83	0.09	0.12	2.23	3.76	0.59	0.05
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-289.5	0.16	2.21	0.12	0.11	2.61	4.01	0.65	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1161-303.4	0.09	2.19	0.02	0.14	2.45	3.02	0.81	0.06
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162-51.3	0.09	2.44	0.02	0.17	2.72	3.22	0.84	0.06
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162-56	0.07	0.87	0.01	0.16	1.11	1.75	0.63	0.14
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162-122.5	0.17	2.34	0.01	0.07	2.59	2.89	0.90	0.03
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162-135	0.08	1.04	0.00	0.10	1.22	1.63	0.75	0.08
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162- 145	0.50	1.58	0.00	0.17	2.26	2.73	0.83	0.07
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162-165.2	0.14	1.85	0.00	0.09	2.08	2.48	0.84	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162-176.5	0.13	2.95	0.03	0.08	3.18	4.10	0.78	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162-179.5	0.07	3.17	0.01	0.15	3.41	3.83	0.89	0.05
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162-194	0.03	1.85	0.02	0.03	1.94	2.87	0.68	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162-203.4	0.02	0.38	0.00	0.01	0.42	1.11	0.38	0.03
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162-212	0.04	0.14	0.00	0.11	0.30	2.70	0.11	0.36
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162-226	0.05	0.89	0.00	0.03	0.97	1.51	0.65	0.03
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	F1162-250.5	0.04	1.07	0.00	0.08	1.19	1.26	0.94	0.07
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-7.7	0.11	1.42	0.05	0.17	1.76	3.25	0.54	0.10
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-18.3	0.07	1.66	0.07	0.02	1.82	4.15	0.44	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-28.3	0.02	1.64	0.02	0.01	1.68	2.40	0.70	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-55.4	0.14	1.07	0.15	0.01	1.37	3.64	0.38	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-61.9	0.16	0.32	0.04	0.00	0.52	1.93	0.27	0.00
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-82.8	0.10	0.84	0.08	0.04	1.06	3.16	0.34	0.04
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-92	0.08	1.50	0.06	0.03	1.67	3.19	0.52	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-104	0.09	0.98	0.03	0.00	1.11	2.33	0.48	0.00
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-108	0.17	0.72	0.06	0.00	0.95	2.55	0.37	0.00
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-127.5	0.05	1.37	0.09	0.01	1.52	3.67	0.41	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-136.5	0.06	1.28	0.07	0.02	1.44	3.17	0.45	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-145.9	0.05	0.73	0.08	0.01	0.88	3.12	0.28	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-157.9	0.09	0.77	0.03	0.01	0.89	1.91	0.47	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-168.7	0.19	1.53	0.03	0.00	1.75	2.74	0.64	0.00
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-177.3	0.07	0.77	0.07	0.03	0.94	3.44	0.27	0.03
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-187.2	0.13	1.34	0.12	0.08	1.66	4.92	0.34	0.05
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-197.8	0.09	2.09	0.09	0.05	2.33	4.69	0.50	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-207.5	0.19	1.58	0.18	0.20	2.15	5.87	0.37	0.09
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-215.6	0.10	1.03	0.12	0.02	1.28	4.18	0.31	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-225.8	0.09	1.27	0.13	0.03	1.51	4.46	0.34	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-234	0.12	1.30	0.15	0.03	1.61	4.56	0.35	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-243.1	0.03	0.23	0.03	0.00	0.29	1.57	0.19	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-252	0.11	1.20	0.14	0.02	1.48	4.03	0.37	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-262.8	0.04	1.15	0.03	0.03	1.25	2.56	0.49	0.02
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-272.2	0.04	1.58	0.01	0.13	1.76	2.49	0.71	0.07
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1128-281.8	0.03	0.94	0.03	0.01	1.02	2.05	0.50	0.01
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1129-4.7	0.07	0.19	0.02	0.02	0.29	1.38	0.21	0.05
579.8-566.0	5	570	Mackenzie Mountains	Sperling et al., 2015, GSAB	June beds	J1129-10.2	0.03	0.36	0.01	0.01	0.41	1.16	0.35	0.02
579.8-566.0	5	579	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza		0.28	0.05	0.18	0.05	0.56	3.14	0.18	0.09

579.8-566.0	5	579	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.17	0.03	0.09	0.18	0.47	5.02	0.09	0.37
579.8-566.0	5	579	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.53	0.28	0.26	0.46	1.53	5.87	0.26	0.30
579.8-566.0	5	579	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.29	0.11	0.16	0.09	0.65	3.86	0.17	0.14
579.8-566.0	5	579	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.10	0.10	0.05	0.00	0.25	3.63	0.07	0.02
579.8-566.0	5	579	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.32	0.05	0.19	0.00	0.57	3.93	0.14	0.00
579.8-566.0	5	579	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.33	0.03	0.18	0.01	0.55	3.18	0.17	0.02
579.8-566.0	5	579	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.40	0.06	0.18	0.03	0.66	3.98	0.17	0.04
579.8-566.0	5	579	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.28	0.04	0.16	0.00	0.49	2.08	0.23	0.01
579.8-566.0	5	578	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.17	0.06	0.09	0.00	0.32	6.59	0.05	0.00
579.8-566.0	5	578	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.33	0.02	0.16	0.01	0.51	3.55	0.14	0.01
579.8-566.0	5	578	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.32	0.03	0.20	0.00	0.55	4.92	0.11	0.00
579.8-566.0	5	578	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.22	0.03	0.00	0.00	0.25	1.93	0.13	0.01
579.8-566.0	5	578	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.27	0.08	0.25	0.28	0.89	4.92	0.18	0.32
579.8-566.0	5	578	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.28	0.04	0.14	0.00	0.46	3.73	0.12	0.00
579.8-566.0	5	577	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.25	0.06	0.15	0.12	0.57	4.47	0.13	0.21
579.8-566.0	5	577	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.21	0.27	0.05	0.16	0.69	5.00	0.14	0.24
579.8-566.0	5	577	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.30	0.04	0.10	0.29	0.74	5.56	0.13	0.40
579.8-566.0	5	577	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.20	0.01	0.09	0.27	0.57	4.48	0.13	0.48
579.8-566.0	5	577	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.35	0.08	0.16	0.00	0.59	3.95	0.15	0.00
579.8-566.0	5	577	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.95	0.04	0.19	0.02	1.19	4.34	0.27	0.01
579.8-566.0	5	577	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.38	0.00	0.18	0.03	0.58	8.53	0.07	0.04
579.8-566.0	5	577	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.34	0.02	0.18	0.02	0.56	2.81	0.20	0.04
579.8-566.0	5	577	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.70	0.03	0.18	0.01	0.91	4.00	0.23	0.01
579.8-566.0	5	576	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.13	0.00	0.05	0.00	0.19	5.36	0.03	0.01
579.8-566.0	5	576	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.23	0.03	0.08	0.18	0.52	5.67	0.09	0.36
579.8-566.0	5	576	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.24	0.03	0.11	0.05	0.44	7.52	0.06	0.11
579.8-566.0	5	576	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.24	0.02	0.14	0.10	0.50	5.04	0.10	0.21
579.8-566.0	5	576	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.22	0.04	0.11	0.13	0.51	4.09	0.12	0.27
579.8-566.0	5	576	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.08	0.21	0.03	0.00	0.32	2.91	0.11	0.00
579.8-566.0	5	576	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.17	0.10	0.05	0.01	0.33	6.21	0.05	0.04
579.8-566.0	5	575	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.23	0.06	0.14	0.00	0.43	2.30	0.18	0.00
579.8-566.0	5	575	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.25	0.00	0.16	0.03	0.44	1.97	0.22	0.06
579.8-566.0	5	575	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.35	0.01	0.19	0.03	0.58	7.92	0.07	0.05
579.8-566.0	5	575	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.41	0.02	0.21	0.01	0.64	5.26	0.12	0.01
579.8-566.0	5	575	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.30	0.04	0.12	0.00	0.46	4.53	0.10	0.00
579.8-566.0	5	575	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.14	0.16	0.05	0.02	0.38	4.76	0.08	0.05
579.8-566.0	5	575	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.29	0.03	0.13	0.01	0.45	7.14	0.06	0.02
579.8-566.0	5	575	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.25	0.01	0.15	0.02	0.42	3.84	0.11	0.05
579.8-566.0	5	575	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.32	0.00	0.14	0.17	0.63	11.61	0.05	0.27
579.8-566.0	5	574	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.17	0.07	0.06	0.09	0.39	6.44	0.06	0.24
579.8-566.0	5	574	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.17	0.02	0.17	0.02	0.38	1.62	0.23	0.05
579.8-566.0	5	574	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.42	0.01	0.17	0.04	0.64	2.85	0.22	0.06
579.8-566.0	5	574	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.11	0.00	0.07	0.46	0.64	2.98	0.21	0.72
579.8-566.0	5	574	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.10	0.08	0.04	0.05	0.26	4.25	0.06	0.19
579.8-566.0	5	574	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.30	0.02	0.14	0.46	0.93	6.15	0.15	0.50
579.8-566.0	5	574	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.23	0.00	0.16	0.01	0.40	3.71	0.11	0.01
579.8-566.0	5	574	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.67	0.01	0.10	0.01	0.79	1.97	0.40	0.02
579.8-566.0	5	574	Caribou Mountains	Canfield et al., 2008, Science	Upper Kaza	0.23	0.55	0.17	0.01	0.95	2.14	0.45	0.01
579.8-566.0	5	573	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.17	0.02	0.07	0.10	0.36	6.00	0.06	0.27
579.8-566.0	5	573	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.27	0.03	0.07	0.27	0.62	6.01	0.10	0.43
579.8-566.0	5	573	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.40	0.01	0.14	0.30	0.85	5.12	0.17	0.35
579.8-566.0	5	573	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.24	0.01	0.11	0.01	0.37	8.92	0.04	0.03
579.8-566.0	5	573	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.22	0.02	0.10	0.26	0.61	7.23	0.08	0.44
579.8-566.0	5	573	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.32	0.09	0.15	0.11	0.67	5.50	0.12	0.16
579.8-566.0	5	573	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.15	0.03	0.07	0.00	0.26	5.26	0.05	0.01
579.8-566.0	5	573	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.21	0.03	0.10	0.02	0.36	6.24	0.06	0.07
579.8-566.0	5	573	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.39	0.07	0.15	0.16	0.76	7.92	0.10	0.21
579.8-566.0	5	572	Caribou Mountains	Canfield et al., 2008, Science	Issac	1.19	0.02	0.18	0.46	1.84	4.04	0.46	0.25
579.8-566.0	5	572	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.23	0.17	0.13	0.04	0.57	1.40	0.41	0.07
579.8-566.0	5	572	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.30	0.39	0.12	0.30	1.11	7.21	0.15	0.27
579.8-566.0	5	572	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.57	0.08	0.09	0.24	0.97	8.18	0.12	0.24
579.8-566.0	5	572	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.25	0.00	0.07	0.05	0.37	6.00	0.06	0.13
579.8-566.0	5	572	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.33	0.06	0.07	0.01	0.47	6.88	0.07	0.03
579.8-566.0	5	572	Caribou Mountains	Canfield et al., 2008, Science	Issac	4.58	0.09	0.11	0.11	4.88	4.25	1.00	0.02
579.8-566.0	5	572	Caribou Mountains	Canfield et al., 2008, Science	Issac	2.13	0.28	0.07	0.23	2.70	4.03	0.67	0.09
579.8-566.0	5	572	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.21	0.17	0.06	0.17	0.61	6.03	0.10	0.28
579.8-566.0	5	572	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.18	0.10	0.08	0.08	0.44	6.64	0.07	0.18
579.8-566.0	5	571	Caribou Mountains	Canfield et al., 2008, Science	Issac	0.13	0.22	0.05	0.07	0.47	5.84	0.08	0.16

579.8-566.0	5	571	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.29	0.06	0.06	0.03	0.43	6.40	0.07	0.06
579.8-566.0	5	571	Caribou Mountains	Canfield et al., 2008, Science		Issac			5.50	0.12	0.10	0.09	5.81	6.45	0.90	0.02
579.8-566.0	5	571	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.27	0.04	0.06	0.13	0.49	5.82	0.09	0.26
579.8-566.0	5	571	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.28	0.18	0.05	0.03	0.53	5.54	0.10	0.06
579.8-566.0	5	571	Caribou Mountains	Canfield et al., 2008, Science		Issac			1.68	0.10	0.02	0.10	1.90	2.16	0.88	0.05
579.8-566.0	5	571	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.91	0.09	0.02	0.08	1.10	1.96	0.56	0.08
579.8-566.0	5	571	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.60	0.03	0.03	0.54	1.20	2.26	0.53	0.45
579.8-566.0	5	571	Caribou Mountains	Canfield et al., 2008, Science		Issac			1.76	0.13	0.05	0.46	2.39	4.70	0.51	0.19
579.8-566.0	5	570	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.67	0.17	0.04	0.12	0.99	3.32	0.30	0.12
579.8-566.0	5	570	Caribou Mountains	Canfield et al., 2008, Science		Issac			1.05	0.05	0.02	0.01	1.13	2.29	0.49	0.01
579.8-566.0	5	570	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.12	0.06	0.03	0.12	0.34	4.97	0.07	0.37
579.8-566.0	5	570	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.52	0.25		0.56	1.33	4.45	0.30	0.42
579.8-566.0	5	570	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.44	0.08	0.06	0.07	0.64	6.12	0.10	0.11
579.8-566.0	5	570	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.16	0.07	0.08	0.01	0.31	6.68	0.05	0.03
579.8-566.0	5	570	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.14	0.25	0.06	0.03	0.48	5.52	0.09	0.06
579.8-566.0	5	570	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.47	0.14	0.04	0.48	1.14	2.77	0.41	0.42
579.8-566.0	5	570	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.09	0.02	0.06	0.01	0.19	3.41	0.05	0.08
579.8-566.0	5	570	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.15	0.44	0.12	0.04	0.75	1.44	0.52	0.05
579.8-566.0	5	569	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.17	0.19	0.09	0.35	0.80	4.35	0.18	0.44
579.8-566.0	5	569	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.30	0.43	0.17	0.01	0.91	3.71	0.24	0.01
579.8-566.0	5	569	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.15	0.37	0.08	0.07	0.66	6.27	0.11	0.10
579.8-566.0	5	569	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.16	0.70	0.23	0.01	1.09	1.81	0.60	0.01
579.8-566.0	5	569	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.18	0.05	0.09	0.31	0.62	4.77	0.13	0.50
579.8-566.0	5	569	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.15	0.18	0.08	0.05	0.47	7.00	0.07	0.12
579.8-566.0	5	569	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.15	0.05	0.07	0.01	0.28	5.98	0.05	0.03
579.8-566.0	5	568	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.18	0.03	0.07	0.01	0.29	5.90	0.05	0.02
579.8-566.0	5	568	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.16	0.22	0.07	0.01	0.46	5.63	0.08	0.02
579.8-566.0	5	568	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.22	0.03	0.08	0.01	0.32	5.80	0.06	0.02
579.8-566.0	5	568	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.15	0.12	0.06	0.03	0.35	5.31	0.07	0.08
579.8-566.0	5	568	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.29	0.04	0.08	0.47	0.87	7.27	0.12	0.54
579.8-566.0	5	568	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.63	0.04	0.09	0.12	0.88	1.32	0.67	0.14
579.8-566.0	5	568	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.21	0.04	0.10	0.21	0.57	4.51	0.13	0.37
579.8-566.0	5	568	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.13	0.09	0.11	0.14	0.47	1.15	0.41	0.31
579.8-566.0	5	568	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.47	0.08	0.12	0.61	1.28	5.94	0.22	0.48
579.8-566.0	5	568	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.79	0.15	0.24	0.02	1.19	3.27	0.37	0.01
579.8-566.0	5	567	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.49	0.05	0.18	0.01	0.73	1.00	0.73	0.02
579.8-566.0	5	567	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.15	0.03	0.07	0.00	0.25	4.53	0.06	0.02
579.8-566.0	5	567	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.13	0.06	0.07	0.01	0.27	6.00	0.05	0.03
579.8-566.0	5	567	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.27	0.04	0.17	0.29	0.77	6.67	0.11	0.37
579.8-566.0	5	567	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.16	0.05	0.08	0.12	0.41	5.74	0.07	0.30
579.8-566.0	5	567	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.13	0.06	0.06	1.04	1.30	4.59	0.28	0.80
579.8-566.0	5	567	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.12	0.11	0.13	0.17	0.52	2.23	0.23	0.32
579.8-566.0	5	567	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.18	0.07	0.05	0.02	0.32	5.08	0.06	0.07
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	234	0.14	1.81	0.03	0.13	2.11	3.68	0.57	0.06
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	236	0.05	0.62	0.02	0.07	0.76	1.44	0.53	0.10
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	295	0.08	0.72	0.01	0.02	0.82	1.38	0.60	0.03
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	398	0.10	0.81	0.07	0.00	0.98	3.55	0.28	0.00
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	412	0.12	0.27	0.06	0.01	0.46	2.85	0.16	0.02
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	432	0.09	0.21	0.07	0.11	0.49	3.33	0.15	0.23
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	442	0.11	1.10	0.07	0.00	1.29	4.68	0.27	0.00
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	458	0.10	0.79	0.10	0.00	0.99	4.92	0.20	0.00
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	473	0.12	0.20	0.09	0.00	0.41	4.46	0.09	0.00
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	501	0.14	1.95	0.07	0.00	2.16	4.25	0.51	0.00
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	514	0.10	1.16	0.09	0.00	1.34	4.44	0.30	0.00
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	528	0.10	0.26	0.08	0.00	0.43	3.64	0.12	0.00
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	542	0.09	0.14	0.06	0.00	0.30	2.76	0.11	0.01
579.8-566.0	5	570	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	June beds	W11	570	0.09	0.49	0.06	0.00	0.65	3.74	0.17	0.01
579.8-566.0	5	579	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lowermost Drook at St Mary's			0.21	0.21	0.18	0.01	0.61	2.83	0.22	0.01
579.8-566.0	5	579	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lowermost Drook at St Mary's			0.28	0.31	0.27	0.07	0.93	3.53	0.26	0.07
579.8-566.0	5	579	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lowermost Drook at St Mary's			0.25	0.20	0.23	0.01	0.68	3.62	0.19	0.01
579.8-566.0	5	579	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lowermost Drook at St Mary's			0.24	0.17	0.21	0.01	0.62	3.34	0.19	0.01
579.8-566.0	5	577	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Drook New Bridge			0.27	0.20	0.21	0.13	0.82	2.67	0.31	0.16
579.8-566.0	5	577	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Drook New Bridge			0.60	0.30	0.42	0.00	1.33	4.70	0.28	0.00
579.8-566.0	5	577	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Drook New Bridge			0.25	0.16	0.14	0.08	0.63	1.86	0.34	0.13
579.8-566.0	5	577	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Drook New Bridge			0.18	0.13	0.09	0.06	0.46	1.59	0.29	0.13
579.8-566.0	5	577	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Drook New Bridge			0.29	0.22	0.21	0.03	0.75	3.25	0.23	0.04
579.8-566.0	5	577	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Drook New Bridge			0.27	0.19	0.36	0.01	0.82	2.86	0.29	0.02
579.8-566.0	5	577	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Drook New Bridge			0.23	0.15	0.17	0.00	0.54	2.19	0.25	0.00

579.8-566.0	5	576	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Drook New Bridge			0.22	0.16	0.17	0.10	0.64	2.39	0.27	0.15
579.8-566.0	5	576	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Drook New Bridge			0.22	0.14	0.16	0.07	0.59	2.15	0.28	0.11
579.8-566.0	5	576	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Drook New Bridge			0.24	0.15	0.17	0.02	0.59	2.33	0.25	0.04
579.8-566.0	5	575	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.27	0.22	0.21	0.53	1.23	3.97	0.31	0.43
579.8-566.0	5	575	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.26	0.18	0.19	0.02	0.64	2.86	0.22	0.03
579.8-566.0	5	575	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.34	0.20	0.20	0.00	0.73	3.76	0.20	0.00
579.8-566.0	5	575	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.24	0.14	0.09	0.24	0.71	2.48	0.29	0.34
579.8-566.0	5	575	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.26	0.12	0.09	0.00	0.47	1.98	0.24	0.01
579.8-566.0	5	575	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.24	0.10	0.08	0.01	0.43	1.91	0.23	0.01
579.8-566.0	5	574	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.29	0.12	0.12	0.01	0.53	2.74	0.20	0.01
579.8-566.0	5	574	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.29	0.18	0.15	0.00	0.62	2.30	0.27	0.00
579.8-566.0	5	574	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.33	0.17	0.18	0.00	0.68	3.67	0.19	0.00
579.8-566.0	5	574	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.28	0.10	0.12	0.00	0.51	3.06	0.16	0.00
579.8-566.0	5	574	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.29	0.24	0.32	0.00	0.85	4.27	0.20	0.00
579.8-566.0	5	574	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.28	0.25	0.28	0.00	0.81	4.81	0.17	0.00
579.8-566.0	5	574	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.26	0.18	0.20	0.41	1.05	3.35	0.31	0.39
579.8-566.0	5	574	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.32	0.18	0.19	0.00	0.69	5.14	0.13	0.01
579.8-566.0	5	574	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.24	0.20	0.21	0.03	0.69	3.94	0.17	0.05
579.8-566.0	5	573	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.33	0.17	0.17	0.51	1.18	3.91	0.30	0.44
579.8-566.0	5	573	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.36	0.21	0.27	0.00	0.83	4.45	0.19	0.00
579.8-566.0	5	573	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.25	0.33	0.18	0.00	0.76	3.91	0.19	0.00
579.8-566.0	5	573	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Drook			0.32	0.22	0.24	0.02	0.80	4.71	0.17	0.02
579.8-566.0	5	570	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.36	0.47	0.30	0.00	1.13	4.09	0.28	0.00
579.8-566.0	5	570	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.32	0.47	0.29	0.00	1.09	4.32	0.25	0.00
579.8-566.0	5	570	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.26	0.47	0.24	0.00	0.98	3.48	0.28	0.00
579.8-566.0	5	570	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.34	0.50	0.32	0.00	1.16	4.52	0.26	0.00
579.8-566.0	5	570	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.28	0.35	0.26	0.00	0.89	4.26	0.21	0.00
579.8-566.0	5	570	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.30	0.33	0.27	0.04	0.94	3.82	0.25	0.04
579.8-566.0	5	569	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.25	0.17	0.18	0.01	0.62	2.48	0.25	0.02
579.8-566.0	5	569	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.39	0.18	0.25	0.00	0.82	3.47	0.24	0.00
579.8-566.0	5	569	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.16	0.13	0.11	0.00	0.40	2.35	0.17	0.00
579.8-566.0	5	569	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.24	0.16	0.17	0.01	0.58	2.51	0.23	0.01
579.8-566.0	5	569	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.20	0.32	0.23	0.00	0.74	3.16	0.23	0.00
579.8-566.0	5	569	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.24	0.29	0.23	0.00	0.76	3.58	0.21	0.00
579.8-566.0	5	569	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.35	0.41	0.36	0.00	1.11	4.68	0.24	0.00
579.8-566.0	5	569	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.29	0.37	0.30	0.00	0.95	3.62	0.26	0.00
579.8-566.0	5	569	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Briscal			0.28	0.50	0.29	0.00	1.07	3.68	0.29	0.00
579.8-566.0	5	567	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Mistaken Point			0.30	0.21	0.24	0.00	0.75	4.04	0.19	0.00
579.8-566.0	5	567	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Mistaken Point			0.22	0.56	0.21	0.08	1.07	4.28	0.25	0.08
579.8-566.0	5	567	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Mistaken Point			0.24	0.35	0.16	0.00	0.76	3.77	0.20	0.00
579.8-566.0	5	567	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Mistaken Point			0.18	0.16	0.20	0.00	0.54	3.76	0.14	0.00
579.8-566.0	5	567	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Mistaken Point			0.24	0.43	0.21	0.00	0.88	4.32	0.20	0.00
579.8-566.0	5	579	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	65.5	0.13	0.00	0.05	0.76	0.94	1.53	0.61	0.81
579.8-566.0	5	579	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	66.3	0.00	0.80	0.18	0.10	1.08	1.94	0.56	0.09
579.8-566.0	5	579	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	66.8	0.03	0.54	0.40	0.42	1.39	2.37	0.58	0.30
579.8-566.0	5	579	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	67.1	0.00	0.89	0.24	0.03	1.16	2.35	0.49	0.02
579.8-566.0	5	579	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	67.4	0.02	0.74	0.49	0.02	1.27	2.37	0.54	0.02
579.8-566.0	5	573	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	81.9	0.20	0.00	0.03	2.02	2.24	3.98	0.56	0.90
579.8-566.0	5	573	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	82.8	0.26	0.00	0.02	2.07	2.35	2.80	0.84	0.88
579.8-566.0	5	572	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	83.7	0.16	0.00	0.03	2.42	2.60	5.00	0.52	0.93
579.8-566.0	5	572	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	84.5	0.28	0.00	0.02	2.43	2.73	2.79	0.98	0.89
579.8-566.0	5	572	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	85.7	0.13	0.00	0.01	3.23	3.37	4.09	0.82	0.96
579.8-566.0	5	571	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	86.6	0.22	0.00	0.05	2.60	2.86	3.37	0.85	0.91
579.8-566.0	5	571	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	87.1	0.31	0.00	0.00	1.79	2.11	2.38	0.89	0.85
579.8-566.0	5	571	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	88.3	0.21	0.50	0.29	2.34	3.33	3.81	0.88	0.70
579.8-566.0	5	570	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	89.2	0.10	0.00	0.02	3.59	3.71	4.23	0.88	0.97
579.8-566.0	5	570	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	90.7	0.08	0.00	0.01	2.51	2.60	3.01	0.86	0.97
579.8-566.0	5	569	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	91.5	0.09	0.00	0.00	2.47	2.56	3.15	0.81	0.97
579.8-566.0	5	569	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	93	0.05	0.00	0.07	2.31	2.43	3.14	0.77	0.95
579.8-566.0	5	569	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	94	0.28	0.00	0.00	0.67	0.95	1.24	0.76	0.71
579.8-566.0	5	568	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	95.6	0.08	0.00	0.02	3.58	3.68	4.42	0.83	0.97
579.8-566.0	5	568	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	96.3	0.10	0.00	0.01	3.23	3.33	3.92	0.85	0.97
579.8-566.0	5	567	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	97.9	0.09	0.00	0.00	3.23	3.32	3.52	0.94	0.97
579.8-566.0	5	579	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	66.15	0.02	1.76	0.28	0.00	2.07	2.81	0.74	0.00
579.8-566.0	5	576	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	74.525	0.04	1.13	0.22	0.01	1.39	1.59	0.88	0.00
579.8-566.0	5	573	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	82.575	0.63	0.63	0.22	1.75	3.23	3.28	0.98	0.53
579.8-566.0	5	571	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	88.175	0.44	0.89	0.15	1.62	3.09	2.94	1.00	0.55
579.8-566.0	5	569	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	164.6	0.37	0.50	0.02	1.19	2.08	1.91	1.00	0.63

579.8-566.0	5	574	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	154.52	2.67	0.19	0.07	2.13	5.06	4.34	1.00	0.49
579.8-566.0	5	570	South China	Canfield et al., 2008, Science		Doushantuo(Dengying)?			0.11	0.23	0.01	0.43	0.77	1.02	0.76	0.56
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	1A B	0.01	1.35	0.02	0.00	1.37	4.45	0.31	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	1A D	0.02	2.07	0.04	0.00	2.12	5.91	0.36	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	1B A	0.00	1.63	0.02	0.00	1.66	4.58	0.36	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	1B B	0.01	3.22	0.04	0.01	3.27	7.65	0.43	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	2A	1.21	0.05	0.00	0.00	1.26	1.48	0.85	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	4A	0.04	1.29	0.04	0.00	1.37	2.69	0.51	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	4B	0.01	1.34	0.06	0.00	1.41	2.59	0.54	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	4C	0.01	1.33	0.06	0.00	1.41	2.54	0.55	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	4D	0.03	0.85	0.02	0.00	0.91	1.28	0.71	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	4E	0.05	2.99	0.09	0.01	3.14	4.85	0.65	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	4F	0.04	4.23	0.10	0.01	4.38	7.80	0.56	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	5A	0.03	3.49	0.44	0.00	3.96	6.03	0.66	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	5B	0.05	4.78	0.34	0.00	5.17	7.62	0.68	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	5C	0.03	3.44	0.25	0.00	3.73	6.86	0.54	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	5D	0.05	3.53	0.37	0.00	3.95	6.92	0.57	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	6A	0.05	3.55	0.07	0.73	4.40	6.10	0.72	0.17
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	6B	0.01	2.35	0.11	0.00	2.48	7.46	0.33	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	6C	0.01	6.52	0.13	0.01	6.67	15.19	0.44	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	6D	0.00	3.16	0.00	0.01	3.17	5.30	0.60	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	7A A	0.03	0.84	0.01	0.00	0.87	3.68	0.24	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	7A B	0.05	1.51	0.02	0.00	1.58	3.97	0.40	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	7BB A	0.01	0.14	0.00	0.00	0.15	1.63	0.09	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	7BB B	0.01	0.21	0.00	0.00	0.22	2.56	0.09	0.01
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	7BB C	0.02	0.27	0.00	0.00	0.30	3.46	0.09	0.01
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	7BB D	0.03	0.33	0.00	0.00	0.36	2.66	0.14	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	7BB E	0.02	0.40	0.00	0.00	0.42	2.54	0.16	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	8A	0.02	1.02	0.00	0.00	1.05	5.01	0.21	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	8B	0.03	4.09	0.26	0.00	4.37	9.50	0.46	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	9B A	0.03	10.12	0.20	0.01	10.35	27.77	0.37	0.00
566.0-552.2	6	555	Nico Perez Terrane (Uruguay)	Frei et al., 2013, GR	Outcrop	Yerbal	La Salvaje Farm	9B B	0.05	14.02	0.46	0.01	14.53	36.24	0.40	0.00
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Gametrail	F1162	445.7	0.17	1.47	0.00	0.04	1.69	1.88	0.90	0.03
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Gametrail	F1162	496.4	0.12	1.70	0.00	0.03	1.85	2.04	0.91	0.02
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1162	542.3	0.02	2.07	0.01	0.00	2.11	2.69	0.78	0.00
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1162	542.7	0.02	0.93	0.00	0.00	0.95	1.61	0.59	0.00
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1162	547.8	0.01	0.43	0.00	0.00	0.44	1.14	0.38	0.01
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Gametrail	F1162	419weathered	0.02	3.39	0.01	0.01	3.43	3.66	0.94	0.00
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1162	547.4silty	0.02	0.88	0.01	0.01	0.91	1.44	0.63	0.01
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1163	22.5	0.18	1.40	0.02	0.09	1.69	2.17	0.78	0.05
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1163	28.6	0.13	0.86	0.01	0.21	1.20	1.43	0.84	0.17
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1163	46.4	0.19	1.11	0.01	0.20	1.51	3.74	0.40	0.13
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1163	50.3	0.08	0.99	0.00	0.14	1.21	1.50	0.81	0.12
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1163	61.3	0.10	1.52	0.02	0.19	1.83	2.66	0.69	0.11
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1163	90.7	0.07	0.62	0.04	0.01	0.74	2.41	0.31	0.01
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1163	103.5	0.06	0.33	0.05	0.02	0.46	2.51	0.18	0.04
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1163	113	0.14	2.23	0.06	0.03	2.47	3.68	0.67	0.01
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1163	128.2	0.08	1.81	0.05	0.02	1.95	4.02	0.49	0.01
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1163	134.6	0.10	2.18	0.03	0.04	2.34	3.51	0.67	0.02
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1163	147.1	0.17	2.38	0.02	0.10	2.67	3.50	0.76	0.04
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1163	80silty	0.09	0.61	0.01	0.06	0.77	1.15	0.67	0.08
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1164	49.1	0.13	2.19	0.01	0.00	2.33	2.86	0.81	0.00
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1164	64	0.06	2.64	0.07	0.03	2.81	4.84	0.58	0.01
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1164	75.9	0.11	0.67	0.01	0.02	0.82	1.72	0.47	0.02
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1164	84.2	0.34	0.23	0.01	0.09	0.67	1.04	0.64	0.13
566.0-552.2	6	565	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	F1164	93.1	0.21	2.27	0.03	0.03	2.54	3.34	0.76	0.01
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	7.7	0.11	1.42	0.05	0.17	1.76	3.25	0.54	0.10
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	18.3	0.07	1.66	0.07	0.02	1.82	4.15	0.44	0.01
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	28.3	0.02	1.64	0.02	0.01	1.68	2.40	0.70	0.01
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	55.4	0.14	1.07	0.15	0.01	1.37	3.64	0.38	0.01
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	61.9	0.16	0.32	0.04	0.00	0.52	1.93	0.27	0.00
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	82.8	0.10	0.84	0.08	0.04	1.06	3.16	0.34	0.04
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	92	0.08	1.50	0.06	0.03	1.67	3.19	0.52	0.02
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	104	0.09	0.98	0.03	0.00	1.11	2.33	0.48	0.00
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	108	0.17	0.72	0.06	0.00	0.95	2.55	0.37	0.00
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	127.5	0.05	1.37	0.09	0.01	1.52	3.67	0.41	0.01
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	136.2	0.06	1.28	0.07	0.02	1.44	3.17	0.45	0.02
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	145.9	0.05	0.73	0.08	0.01	0.88	3.12	0.28	0.02

566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	157.9	0.09	0.77	0.03	0.01	0.89	1.91	0.47	0.01
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	168.7	0.19	1.53	0.03	0.00	1.75	2.74	0.64	0.00
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	177.3	0.07	0.77	0.07	0.03	0.94	3.44	0.27	0.03
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	187.2	0.13	1.34	0.12	0.08	1.66	4.92	0.34	0.05
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	197.8	0.09	2.09	0.09	0.05	2.33	4.69	0.50	0.02
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	207.5	0.19	1.58	0.18	0.20	2.15	5.87	0.37	0.09
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	215.6	0.10	1.03	0.12	0.02	1.28	4.18	0.31	0.02
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	225.8	0.09	1.27	0.13	0.03	1.51	4.46	0.34	0.02
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	234	0.12	1.30	0.15	0.03	1.61	4.56	0.35	0.02
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	243.1	0.03	0.23	0.03	0.00	0.29	1.57	0.19	0.01
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	252	0.11	1.20	0.14	0.02	1.48	4.03	0.37	0.02
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	262.8	0.04	1.15	0.03	0.03	1.25	2.56	0.49	0.02
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	272.2	0.04	1.58	0.01	0.13	1.76	2.49	0.71	0.07
566.0-552.2	6	560	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	281.8	0.03	0.94	0.03	0.01	1.02	2.05	0.50	0.01
566.0-552.2	6	565	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.25	0.08	0.10	0.57	1.00	4.72	0.21	0.58
566.0-552.2	6	565	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.67	0.18	0.12	0.13	1.10	4.60	0.24	0.12
566.0-552.2	6	565	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.38	0.16	0.09	0.22	0.85	3.59	0.24	0.26
566.0-552.2	6	565	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.52	0.93	0.13	0.15	1.74	4.95	0.35	0.09
566.0-552.2	6	565	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.22	0.15	0.13	1.17	1.67	2.43	0.69	0.70
566.0-552.2	6	565	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.35	0.05	0.20	0.08	0.68	2.40	0.28	0.11
566.0-552.2	6	565	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.37	0.15	0.26	0.12	0.89	2.00	0.45	0.13
566.0-552.2	6	565	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.76	0.16	0.19	0.34	1.44	4.32	0.33	0.24
566.0-552.2	6	565	Caribou Mountains	Canfield et al., 2008, Science		Issac			1.03	0.07	0.13	0.52	1.75	3.05	0.57	0.30
566.0-552.2	6	565	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.20	0.06	0.15	0.03	0.43	1.83	0.23	0.06
566.0-552.2	6	564	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.64	0.05	0.22	0.04	0.95	1.76	0.54	0.04
566.0-552.2	6	564	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.45	0.01	0.12	0.23	0.82	4.28	0.19	0.28
566.0-552.2	6	564	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.53	0.19	0.10	0.52	1.35	4.50	0.30	0.39
566.0-552.2	6	564	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.48	0.14	0.16	0.32	1.08	2.20	0.49	0.29
566.0-552.2	6	564	Caribou Mountains	Canfield et al., 2008, Science		Issac			1.46	0.47	0.19	0.29	2.41	2.66	0.91	0.12
566.0-552.2	6	564	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.47	0.04	0.24	0.19	0.94	2.83	0.33	0.21
566.0-552.2	6	564	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.18	0.51	0.09	0.88	1.67	3.95	0.42	0.53
566.0-552.2	6	564	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.16	0.03	0.09	0.87	1.15	2.42	0.47	0.76
566.0-552.2	6	564	Caribou Mountains	Canfield et al., 2008, Science		Issac			1.55	0.00	0.13	0.75	2.43	4.89	0.50	0.31
566.0-552.2	6	563	Caribou Mountains	Canfield et al., 2008, Science		Issac			2.44	0.06	0.17	0.47	3.14	3.10	1.00	0.15
566.0-552.2	6	563	Caribou Mountains	Canfield et al., 2008, Science		Issac			1.22	0.14	0.20	0.54	2.10	4.41	0.48	0.26
566.0-552.2	6	563	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.19	0.17	0.08	0.06	0.50	3.22	0.16	0.13
566.0-552.2	6	563	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.27	0.04	0.12	0.43	0.86	4.37	0.20	0.50
566.0-552.2	6	563	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.52	0.09	0.16	0.42	1.19	4.94	0.24	0.36
566.0-552.2	6	563	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.33	0.05	0.11	0.13	0.61	3.49	0.18	0.21
566.0-552.2	6	563	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.36	0.27	0.13	0.08	0.84	4.36	0.19	0.09
566.0-552.2	6	563	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.71	0.05	0.18	0.07	1.01	5.17	0.20	0.07
566.0-552.2	6	563	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.27	0.09	0.10	0.11	0.57	6.47	0.09	0.19
566.0-552.2	6	563	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.30	0.05	0.18	0.07	0.59	2.60	0.23	0.12
566.0-552.2	6	562	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.81	0.07	0.14	0.26	1.28	4.75	0.27	0.20
566.0-552.2	6	562	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.26	0.04	0.12	1.47	1.88	5.19	0.36	0.78
566.0-552.2	6	562	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.16	0.12	0.09	0.01	0.37	3.53	0.11	0.02
566.0-552.2	6	562	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.39	0.04	0.12	0.56	1.11	3.76	0.29	0.51
566.0-552.2	6	562	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.24	0.08	0.18	0.01	0.51	1.67	0.30	0.02
566.0-552.2	6	562	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.26	0.01	0.14	0.07	0.48	1.74	0.28	0.14
566.0-552.2	6	562	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.70	0.04	0.16	0.12	1.01	2.85	0.36	0.12
566.0-552.2	6	562	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.18	0.12	0.08	0.09	0.47	4.55	0.10	0.19
566.0-552.2	6	562	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.27	0.10	0.11	0.16	0.64	5.38	0.12	0.25
566.0-552.2	6	561	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.27	0.18	0.12	0.83	1.40	5.17	0.27	0.59
566.0-552.2	6	561	Caribou Mountains	Canfield et al., 2008, Science		Issac			6.50	0.18	0.15	0.45	7.28	5.86	1.00	0.06
566.0-552.2	6	561	Caribou Mountains	Canfield et al., 2008, Science		Issac			3.13	0.13	0.19	0.66	4.10	3.83	1.00	0.16
566.0-552.2	6	561	Caribou Mountains	Canfield et al., 2008, Science		Issac			2.90	0.07	0.11	0.09	3.16	2.68	1.00	0.03
566.0-552.2	6	561	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.36	0.13	0.09	0.26	0.84	3.53	0.24	0.31
566.0-552.2	6	561	Caribou Mountains	Canfield et al., 2008, Science		Issac			3.06	0.03	0.13	0.06	3.28	3.03	1.00	0.02
566.0-552.2	6	561	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.83	0.10	0.21	0.63	1.77	4.96	0.36	0.36
566.0-552.2	6	561	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.32	0.07	0.19	0.15	0.73	4.69	0.15	0.21
566.0-552.2	6	561	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.26	0.27	0.13	0.18	0.83	4.39	0.19	0.22
566.0-552.2	6	561	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.39	0.04	0.13	0.48	1.05	1.22	0.86	0.45
566.0-552.2	6	560	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.76	0.09	0.09	0.41	1.34	2.10	0.64	0.30
566.0-552.2	6	560	Caribou Mountains	Canfield et al., 2008, Science		Issac			1.34	0.21	0.35	2.27	4.17	7.04	0.59	0.54
566.0-552.2	6	560	Caribou Mountains	Canfield et al., 2008, Science		Issac			1.60	0.07	0.09	0.17	1.93	1.77	1.00	0.09
566.0-552.2	6	560	Caribou Mountains	Canfield et al., 2008, Science		Issac			1.41	0.19	0.18	0.79	2.57	3.79	0.68	0.31
566.0-552.2	6	560	Caribou Mountains	Canfield et al., 2008, Science		Issac			1.83	0.18	0.19	0.81	3.01	3.02	1.00	0.27
566.0-552.2	6	560	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.65	0.14	0.15	0.50	1.45	3.43	0.42	0.35

566.0-552.2	6	560	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.69	0.12	0.15	0.45	1.40	3.78	0.37	0.32
566.0-552.2	6	560	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.39	0.12	0.17	0.61	1.28	3.42	0.38	0.48
566.0-552.2	6	560	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.88	0.13	0.14	0.67	1.82	3.68	0.49	0.37
566.0-552.2	6	566	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.13	0.13	0.04	0.44	0.74	3.12	0.24	0.60
566.0-552.2	6	566	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.29	0.05	0.06	0.45	0.85	3.62	0.23	0.53
566.0-552.2	6	566	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.64	0.15	0.14	0.19	1.12	3.76	0.30	0.17
566.0-552.2	6	566	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.21	0.06	0.10	1.05	1.43	4.04	0.35	0.74
566.0-552.2	6	566	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.52	0.08	0.08	0.60	1.28	3.84	0.33	0.47
566.0-552.2	6	566	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.16	0.03	0.06	0.29	0.54	3.83	0.14	0.54
566.0-552.2	6	566	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.19	0.11	0.09	0.21	0.60	4.40	0.14	0.35
566.0-552.2	6	566	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.76	0.05	0.07	1.41	2.28	2.59	0.88	0.62
566.0-552.2	6	566	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.42	0.32	0.08	0.20	1.03	4.22	0.24	0.19
566.0-552.2	6	566	Caribou Mountains	Canfield et al., 2008, Science		Issac			0.11	0.29	0.05	0.83	1.27	2.59	0.49	0.65
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	282	3.23	0.95	0.03	0.22	4.43	6.04	0.73	0.05
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	287	0.05	0.34	0.01	0.00	0.40	1.21	0.33	0.00
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	298	0.33	0.93	0.12	0.16	1.54	5.93	0.26	0.10
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	309.5	0.20	0.72	0.14	0.06	1.12	4.22	0.27	0.05
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	311	1.04	1.20	0.09	0.19	2.52	4.64	0.54	0.08
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	312	1.06	3.03	0.24	0.11	4.44	7.40	0.60	0.02
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	332.5	0.03	0.49	0.00	0.00	0.53	1.45	0.36	0.00
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	335	2.45	3.02	0.04	0.12	5.64	6.55	0.86	0.02
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	337	0.91	1.04	0.02	0.14	2.11	2.96	0.71	0.07
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	344.8	0.56	1.05	0.04	0.00	1.65	4.32	0.38	0.00
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	388	0.25	1.20	0.10	0.03	1.58	4.05	0.39	0.02
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	391	0.63	1.92	0.06	0.19	2.80	4.68	0.60	0.07
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	393.5	0.16	2.37	0.04	0.01	2.59	4.32	0.60	0.01
566.0-552.2	6	560	Wernecke Mountains	Johnston et al., 2013 CG	Outcrop	Blueflower	F850	395	0.11	3.29	0.09	0.08	3.56	6.00	0.59	0.02
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.16	0.78	0.17	0.00	1.12	5.11	0.22	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.15	1.00	0.23	0.00	1.38	4.52	0.31	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.17	0.19	0.18	0.00	0.54	3.50	0.15	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.14	0.72	0.18	0.00	1.04	4.23	0.25	
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.07	0.45	0.11	0.00	0.63	2.95	0.21	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.32	0.42	0.25	0.00	0.99	5.79	0.17	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.21	0.49	0.22	0.00	0.92	4.03	0.23	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.22	0.58	0.24	0.00	1.05	4.41	0.24	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.20	0.61	0.23	0.00	1.03	4.38	0.24	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.18	0.47	0.24	0.00	0.90	3.36	0.27	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.19	0.75	0.27	0.00	1.21	4.75	0.26	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.18	0.68	0.29	0.00	1.16	4.34	0.27	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.28	0.36	0.30	0.00	0.94	5.23	0.18	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.17	0.42	0.22	0.00	0.82	4.25	0.19	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle Mistaken Point			0.16	0.46	0.19	0.00	0.80	3.62	0.22	0.00
566.0-552.2	6	565	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Mistaken Point			0.51	0.26	0.33	0.01	1.10	5.36	0.21	0.00
566.0-552.2	6	564	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Mistaken Point			0.35	0.20	0.27	0.01	0.82	4.88	0.17	0.01
566.0-552.2	6	564	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Mistaken Point			0.44	0.18	0.28	0.01	0.91	4.73	0.19	0.01
566.0-552.2	6	564	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.29	0.39	0.30	0.02	0.99	4.72	0.21	0.02
566.0-552.2	6	564	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.27	0.26	0.23	0.00	0.75	4.07	0.19	0.00
566.0-552.2	6	564	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.36	0.26	0.28	0.02	0.91	4.79	0.19	0.02
566.0-552.2	6	564	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.29	0.34	0.27	0.00	0.89	4.50	0.20	0.00
566.0-552.2	6	563	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.42	0.36	0.29	0.72	1.80	5.39	0.33	0.40
566.0-552.2	6	563	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.46	0.38	0.34	0.33	1.51	5.49	0.27	0.22
566.0-552.2	6	563	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.27	0.45	0.28	0.01	1.01	4.15	0.24	0.01
566.0-552.2	6	563	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.32	0.28	0.27	0.55	1.41	4.94	0.28	0.39
566.0-552.2	6	563	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.49	0.22	0.38	0.21	1.30	5.61	0.23	0.16
566.0-552.2	6	563	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.28	0.28	0.23	0.01	0.80	4.28	0.19	0.01
566.0-552.2	6	563	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.32	0.30	0.30	0.02	0.93	4.39	0.21	0.02
566.0-552.2	6	563	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.35	0.32	0.33	0.00	1.00	4.31	0.23	0.00
566.0-552.2	6	563	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.31	0.32	0.25	0.14	1.02	3.77	0.27	0.14
566.0-552.2	6	563	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.31	0.35	0.30	0.01	0.97	3.34	0.29	0.01
566.0-552.2	6	563	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.29	0.27	0.25	0.00	0.82	3.30	0.25	0.00
566.0-552.2	6	563	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.26	0.32	0.31	0.13	1.02	4.12	0.25	0.13
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.32	0.28	0.29	0.36	1.26	5.05	0.25	0.29
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to upper Trepassey			0.43	0.35	0.34	0.63	1.76	4.33	0.41	0.36
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Fermeuse			0.22	0.26	0.20	0.05	0.73	4.55	0.16	0.07
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Fermeuse			0.24	0.20	0.21	0.09	0.73	4.71	0.16	0.12
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Fermeuse			0.21	0.23	0.20	0.21	0.84	4.72	0.18	0.25
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Fermeuse			0.22	0.21	0.23	0.12	0.78	4.76	0.16	0.15
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Fermeuse			0.22	0.23	0.23	0.09	0.78	4.96	0.16	0.12

566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Fermeuse			0.23	0.32	0.21	0.01	0.78	4.46	0.18	0.01
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Fermeuse			0.21	0.16	0.18	0.05	0.59	4.44	0.13	0.08
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Fermeuse			0.26	0.28	0.21	0.17	0.92	4.27	0.22	0.18
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Fermeuse			0.25	0.20	0.21	0.23	0.89	4.13	0.22	0.25
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Fermeuse			0.20	0.21	0.18	0.02	0.61	3.15	0.19	0.03
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Fermeuse			0.23	0.25	0.21	0.02	0.71	4.40	0.16	0.03
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.33	0.25	0.15	0.06	0.78	3.45	0.23	0.07
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.37	0.25	0.22	0.40	1.25	5.04	0.25	0.32
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.29	0.27	0.21	0.00	0.77	4.58	0.17	0.00
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.27	0.23	0.18	0.23	0.91	4.70	0.19	0.25
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.28	0.26	0.15	0.08	0.77	3.64	0.21	0.10
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.33	0.45	0.24	0.08	1.11	3.93	0.28	0.08
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.31	0.39	0.23	0.14	1.08	4.23	0.25	0.13
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.32	0.39	0.24	0.11	1.06	3.95	0.27	0.11
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.36	0.28	0.24	0.06	0.94	3.53	0.27	0.06
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.19	0.13	0.12	0.12	0.57	2.45	0.23	0.21
566.0-552.2	6	562	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.27	0.22	0.23	0.02	0.73	4.23	0.17	0.03
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.31	0.25	0.22	0.02	0.80	4.44	0.18	0.03
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.31	0.23	0.24	0.06	0.83	4.59	0.18	0.07
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.30	0.25	0.25	0.02	0.81	4.48	0.18	0.02
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.29	0.34	0.24	0.02	0.89	4.66	0.19	0.02
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.29	0.30	0.24	0.04	0.86	4.58	0.19	0.04
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.29	0.24	0.23	0.04	0.80	4.40	0.18	0.05
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Middle to Upper Fermeuse			0.28	0.26	0.27	0.08	0.90	4.96	0.18	0.09
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Fermeuse			0.29	0.21	0.21	0.13	0.83	4.26	0.19	0.15
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Fermeuse			0.33	0.24	0.22	0.14	0.93	4.43	0.21	0.15
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Fermeuse			0.29	0.28	0.21	0.08	0.86	4.66	0.19	0.09
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Fermeuse			0.33	0.44	0.18	0.04	0.99	4.37	0.23	0.04
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Fermeuse			0.30	0.27	0.19	0.12	0.87	4.24	0.21	0.14
566.0-552.2	6	561	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Upper Fermeuse			0.34	0.18	0.06	0.55	1.12	2.30	0.49	0.49
566.0-552.2	6	566	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Mistaken Point			0.15	0.16	0.11	0.01	0.42	2.52	0.17	0.01
566.0-552.2	6	566	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Mistaken Point			0.23	0.05	0.15	0.00	0.43	3.60	0.12	0.01
566.0-552.2	6	566	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Mistaken Point			0.06	0.29	0.02	0.00	0.37	1.87	0.20	0.01
566.0-552.2	6	566	Avalon Peninsula, Newfoundland	Canfield et al., 2007, Science		Lower Mistaken Point			0.15	0.09	0.13	0.01	0.38	3.82	0.10	0.02
566.0-552.2	6	566	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	99.6	0.07	0.00	0.00	1.70	1.77	2.18	0.81	0.96
566.0-552.2	6	566	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	100.4	0.03	0.00	0.03	1.53	1.59	2.22	0.72	0.96
566.0-552.2	6	566	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	101.2	0.20	0.00	0.00	1.34	1.54	1.73	0.89	0.87
566.0-552.2	6	566	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	99.1	0.11	1.87	0.57	0.15	2.70	3.65	0.74	0.04
566.0-552.2	6	559	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member IV	Wuhe	116.3	0.15	0.00	0.05	1.03	1.23	1.90	0.65	0.84
566.0-552.2	6	559	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member IV	Wuhe	116.8	0.09	0.01	0.06	1.16	1.32	1.80	0.73	0.88
566.0-552.2	6	559	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member IV	Wuhe	117.4	0.14	0.00	0.07	2.44	2.66	3.19	0.83	0.92
566.0-552.2	6	565	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	102.4	0.06	0.00	0.01	2.75	2.82	3.05	0.93	0.97
566.0-552.2	6	565	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	103.3	0.16	0.00	0.05	1.40	1.61	1.83	0.88	0.87
566.0-552.2	6	565	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	104.1	0.09	0.00	0.02	2.59	2.70	3.41	0.79	0.96
566.0-552.2	6	564	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	105.3	0.07	0.06	0.10	2.11	2.33	3.25	0.72	0.90
566.0-552.2	6	564	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	106.4	0.03	0.00	0.00	2.24	2.27	3.09	0.74	0.99
566.0-552.2	6	564	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	107.4	0.05	0.00	0.01	2.89	2.95	3.64	0.81	0.98
566.0-552.2	6	563	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	108.3	0.06	0.00	0.05	1.51	1.61	2.02	0.80	0.93
566.0-552.2	6	562	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member III	Wuhe	110.7	0.27	0.00	0.00	0.84	1.10	1.09	1.00	0.76
566.0-552.2	6	560	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member IV	Wuhe	114.5	0.01	0.00	0.01	0.68	0.69	1.00	0.70	0.98
566.0-552.2	6	560	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member IV	Wuhe	115.3	0.07	0.00	0.01	1.39	1.47	2.47	0.60	0.95
566.0-552.2	6	560	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member IV	Wuhe	115.5	0.10	0.02	0.07	1.62	1.80	2.45	0.74	0.90
566.0-552.2	6	560	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member IV	Wuhe	115.9	0.11	0.02	0.06	1.55	1.73	2.39	0.72	0.90
566.0-552.2	6	565	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	104.35	0.25	2.25	0.93	0.01	3.44	3.32	1.00	0.00
566.0-552.2	6	564	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Wuhe	107.5	0.17	0.77	0.25	2.29	3.49	3.32	1.00	0.69
566.0-552.2	6	558	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member IV	Wuhe	117.8	0.14	0.00	0.01	2.14	2.29	3.43	0.67	0.94
566.0-552.2	6	558	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member IV	Wuhe	118.3	0.17	0.00	0.04	2.00	2.21	2.63	0.84	0.90
566.0-552.2	6	558	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member IV	Wuhe	118.9	0.15	0.00	0.01	1.08	1.24	1.35	0.92	0.87
566.0-552.2	6	558	South China	Sahoo et al., 2016, Geobiology	Outcrop	Doushantuo Fm. Member IV	Wuhe	119.5	0.15	0.00	0.04	1.08	1.28	1.45	0.88	0.85
566.0-552.2	6	559	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-48	0.01	1.77	0.03	0.10	1.91	2.50	0.76	0.05
566.0-552.2	6	558	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Zhongling	SH-47	0.00	1.02	0.02	0.06	1.11	1.40	0.79	0.06
566.0-552.2	6	559	South China	Och et al., 2016, Sedimentology	Outcrop	upper DST	Maoshi	12.1	0.10	0.65	0.02	0.01	0.78	1.07	0.73	0.01
566.0-552.2	6	559	South China	Och et al., 2016, Sedimentology	Outcrop	upper DST	Maoshi	12.7	0.28	0.29	0.01	1.90	2.48	2.57	0.97	0.77
566.0-552.2	6	559	South China	Och et al., 2016, Sedimentology	Outcrop	upper DST	Maoshi	13.5	0.23	0.34	0.01	1.48	2.07	2.21	0.93	0.72
566.0-552.2	6	559	South China	Och et al., 2016, Sedimentology	Outcrop	upper DST	Maoshi	15	0.42	0.23	0.01	2.20	2.87	2.82	1.00	0.77
566.0-552.2	6	560	South China	Och et al., 2016, Sedimentology	Outcrop	upper DST	Maoshi	16	0.30	0.97	0.03	0.83	2.13	3.10	0.69	0.39
566.0-552.2	6	560	South China	Och et al., 2016, Sedimentology	Outcrop	upper DST	Maoshi	18	0.43	1.33	0.02	1.43	3.20	3.30	0.97	0.45
566.0-552.2	6	557	South China	Och et al., 2016, Sedimentology	Outcrop	upper DST	Maoshi	7	0.23	0.73	0.01	0.01	0.99	1.32	0.75	0.01

566.0-552.2	6	558	South China	Och et al., 2016, Sedimentology	Outcrop	upper DST	Maoshi	9	0.24	0.32	0.01	0.10	0.68	1.02	0.66	0.15
566.0-552.2	6	558	South China	Och et al., 2016, Sedimentology	Outcrop	upper DST	Maoshi	9.4	0.31	0.24	0.01	1.50	2.07	2.18	0.95	0.73
566.0-552.2	6	558	South China	Och et al., 2016, Sedimentology	Outcrop	upper DST	Maoshi	10.9	0.26	0.79	0.01	0.64	1.70	2.07	0.82	0.38
566.0-552.2	6	559	South China	Kendall et al., 2015, GCA	Core	Doushantuo Fm. Member IV	Three Georges Core#1	208.78	0.0	0.10	0.00	1.80	1.90	2.90	0.65	0.94
566.0-552.2	6	559	South China	Kendall et al., 2015, GCA	Core	Doushantuo Fm. Member IV	Three Georges Core#1	208.75	0.1	0.10	0.00	2.20	2.40	2.90	0.81	0.94
566.0-552.2	6	559	South China	Kendall et al., 2015, GCA	Core	Doushantuo Fm. Member IV	Three Georges Core#1	208.49	0.1	0.10	0.00	1.80	2.00	2.40	0.82	0.93
566.0-552.2	6	560	South China	Kendall et al., 2015, GCA	Core	Doushantuo Fm. Member IV	Three Georges Core#1	207.95	0.0	0.10	0.00	1.80	1.90	2.90	0.66	0.94
566.0-552.2	6	560	South China	Kendall et al., 2015, GCA	Core	Doushantuo Fm. Member IV	Three Georges Core#1	207.46	0.0	0.10	0.00	2.60	2.70	3.10	0.86	0.96
566.0-552.2	6	560	South China	Kendall et al., 2015, GCA	Core	Doushantuo Fm. Member IV	Three Georges Core#1	207.22	0.0	0.10	0.00	2.10	2.20	3.00	0.74	0.94
566.0-552.2	6	560	South China	Kendall et al., 2015, GCA	Core	Doushantuo Fm. Member IV	Three Georges Core#1	207.2	0.0	0.10	0.00	3.20	3.30	2.90	1.00	0.97
566.0-552.2	6	560	South China	Kendall et al., 2015, GCA	Core	Doushantuo Fm. Member IV	Three Georges Core#1	207.12	0.1	0.10	0.00	2.50	2.70	2.80	0.94	0.93
566.0-552.2	6	560	South China	Kendall et al., 2015, GCA	Core	Doushantuo Fm. Member IV	Three Georges Core#1	206.95	0.1	0.10	0.00	2.00	2.20	3.00	0.73	0.94
566.0-552.2	6	557	South China	Kendall et al., 2015, GCA	Core	Doushantuo Fm. Member IV	Three Georges Core#1	211.72	0.1	0.10	0.00	1.30	1.50	1.70	0.92	0.87
566.0-552.2	6	558	South China	Kendall et al., 2015, GCA	Core	Doushantuo Fm. Member IV	Three Georges Core#1	210.55	0.3	0.10	0.00	1.80	2.10	2.80	0.76	0.83
566.0-552.2	6	558	South China	Kendall et al., 2015, GCA	Core	Doushantuo Fm. Member IV	Three Georges Core#1	210.44	0.4	0.10	0.00	2.30	2.90	3.40	0.83	0.82
566.0-552.2	6	559	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	11.7	0.11	0.02	0.01	0.66	0.80	1.02	0.78	0.83
566.0-552.2	6	559	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	10.1	0.08	0.03	0.01	1.29	1.41	1.70	0.83	0.91
566.0-552.2	6	559	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	9.7	0.07	0.02	0.01	1.46	1.56	1.94	0.80	0.94
566.0-552.2	6	559	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	9.4	0.06	0.02	0.01	1.25	1.34	1.65	0.81	0.93
566.0-552.2	6	559	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	8.9	0.06	0.02	0.01	1.80	1.89	2.14	0.88	0.95
566.0-552.2	6	559	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	8.6	0.08	0.02	0.01	1.93	2.04	2.38	0.86	0.95
566.0-552.2	6	559	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	8.3	0.09	0.03	0.01	1.97	2.10	2.33	0.90	0.94
566.0-552.2	6	559	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	8	0.10	0.04	0.01	0.84	0.99	2.23	0.44	0.85
566.0-552.2	6	560	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	5.8	0.06	0.06	0.01	0.72	0.85	1.18	0.72	0.85
566.0-552.2	6	560	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	5.35	0.11	0.09	0.01	1.52	1.73	1.96	0.88	0.88
566.0-552.2	6	560	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	5.1	0.13	0.04	0.01	0.97	1.15	1.24	0.93	0.84
566.0-552.2	6	560	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	4.4	0.10	0.04	0.01	1.68	1.83	2.00	0.92	0.92
566.0-552.2	6	560	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	1.1	0.05	0.06	0.01	0.96	1.08	2.24	0.48	0.89
566.0-552.2	6	560	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	0.2	0.05	0.04	0.01	1.29	1.39	3.43	0.41	0.93
566.0-552.2	6	557	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	22.9	0.06	0.02	0.01	0.78	0.87	1.11	0.78	0.90
566.0-552.2	6	557	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	22.6	0.08	0.02	0.01	0.65	0.76	1.01	0.75	0.86
566.0-552.2	6	558	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	19.7	0.06	0.02	0.01	0.60	0.69	1.04	0.66	0.87
566.0-552.2	6	558	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Jiuqunao	19.3	0.07	0.02	0.01	0.97	1.07	1.17	0.91	0.91
566.0-552.2	6	560	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Miaohe	6.9	0.03	0.17	0.03	0.05	0.28	1.31	0.21	0.18
566.0-552.2	6	557	South China	Li et al., 2015, SR	Outcrop	Doushantuo Fm. Member IV	Miaohe	23.5	0.03	0.04	0.01	0.87	0.95	1.36	0.70	0.92
566.0-552.2	6	560	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	HN-12	0.10	0.07	0.01	2.12	2.30	3.05	0.75	0.92
566.0-552.2	6	560	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	HN-11	0.07	0.06	0.01	2.09	2.23	3.20	0.70	0.94
566.0-552.2	6	559	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	HN-13	0.05	0.01	0.01	1.01	1.08	2.93	0.37	0.93
566.0-552.2	6	559	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	HN-09	0.09	0.11	0.02	1.95	2.16	2.84	0.76	0.90
566.0-552.2	6	555	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	HN-23	0.20	0.12	0.04	1.92	2.29	3.26	0.70	0.84
566.0-552.2	6	556	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	HN-21	0.07	0.02	0.02	1.02	1.13	2.70	0.42	0.90
566.0-552.2	6	557	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	HN-18	0.06	0.03	0.01	0.97	1.07	2.30	0.47	0.90
566.0-552.2	6	558	South China	Li et al., 2010, Science	Outcrop	Doushantuo	Jiulongwan	HN-15	0.05	0.01	0.02	1.38	1.47	2.71	0.54	0.94
566.0-552.2	6	553	South China	Chen et al., 2015, NC	Outcrop	Doushantuo IV	Jiulongwan							3.39	0.88	0.76
566.0-552.2	6	554	South China	Chen et al., 2015, NC	Outcrop	Doushantuo IV	Jiulongwan							2.91	0.87	0.74
566.0-552.2	6	558	South China	Chen et al., 2015, NC	Outcrop	Doushantuo IV	Jiulongwan							3.25	1.00	0.73
566.0-552.2	6	558	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	7.75	0.80	0.09	0.01	3.05	3.95	3.86	1.00	0.77
566.0-552.2	6	558	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	8.25	0.54	0.03	0.00	2.29	2.87	2.97	0.97	0.80
566.0-552.2	6	558	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	8.85	0.69	0.16	0.03	2.39	3.26	3.25	1.00	0.73
566.0-552.2	6	558	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	9.7	0.62	0.03	0.01	2.38	3.04	2.94	1.00	0.78
566.0-552.2	6	558	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	10.4	0.65	0.09	0.00	1.43	2.18	2.46	0.88	0.66
566.0-552.2	6	558	South China	Och et al., 2016, Sedimentology	Outcrop	DST IV	Jiulongwan	16	0.28	0.09	0.01	0.64	1.02	1.01	1.00	0.63
566.0-552.2	6	558	South China	Och et al., 2016, Sedimentology	Outcrop	DST IV	Jiulongwan	17.5	0.23	0.11	0.01	0.77	1.13	1.21	0.93	0.69
566.0-552.2	6	557	South China	Och et al., 2016, Sedimentology	Outcrop	DST IV	Jiulongwan	18.5	0.49	0.16	0.01	1.30	1.95	1.96	0.99	0.66
566.0-552.2	6	557	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	12	0.47	0.01	0.02	1.14	1.65	2.31	0.71	0.69
566.0-552.2	6	559	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	3.25	0.53	0.01	0.01	1.85	2.40	2.41	0.99	0.77
566.0-552.2	6	559	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	3.75	0.59	0.02	0.01	1.88	2.51	2.38	1.00	0.75
566.0-552.2	6	559	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	4.25	0.60	0.05	0.01	1.86	2.53	2.49	1.00	0.74
566.0-552.2	6	559	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	4.85	0.53	0.03	0.01	2.07	2.64	2.45	1.00	0.78
566.0-552.2	6	559	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	5.55	0.52	0.01	0.01	2.11	2.65	2.50	1.00	0.80
566.0-552.2	6	559	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	5.95	0.53	0.03	0.01	2.22	2.79	2.71	1.00	0.80
566.0-552.2	6	559	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	6.55	0.56	0.05	0.01	2.24	2.86	3.04	0.94	0.78
566.0-552.2	6	559	South China	Och et al., 2016, Sedimentology	Outcrop	DST IV	Jiulongwan	13.5	0.32	0.05	0.01	0.69	1.07	1.07	1.00	0.64
566.0-552.2	6	558	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	7.35	0.61	0.02	0.01	3.19	3.83	3.58	1.00	0.83
566.0-552.2	6	560	South China	Och et al., 2016, Sedimentology	Outcrop	DST IV	Jiulongwan	9.2	0.36	0.14	0.01	1.00	1.51	1.53	0.99	0.66
566.0-552.2	6	560	South China	Och et al., 2016, Sedimentology	Outcrop	DST IV	Jiulongwan	11.2	0.25	0.23	0.01	0.64	1.13	1.29	0.87	0.57
566.0-552.2	6	560	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	0	0.60	0.03	0.01	4.02	4.65	4.82	0.97	0.86
566.0-552.2	6	560	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	1.65	0.56	0.01	0.00	1.78	2.36	2.34	1.00	0.76

566.0-552.2	6	560	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	2.15	0.54	0.04	0.03	1.92	2.53	2.34	1.00	0.76
566.0-552.2	6	560	South China	Och et al., 2016, Sedimentology	Outcrop	Miaohe	Jiulongwan	2.65	0.63	0.06	0.02	2.27	2.99	2.75	1.00	0.76
566.0-552.2	6	557	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	189.8	0.34	0.25	0.02	1.33	1.94	1.83	1.00	0.73
566.0-552.2	6	560	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	183.1	0.40	0.56	0.02	1.52	2.51	2.33	1.00	0.65
566.0-552.2	6	561	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	182.1	0.90	0.29	0.01	1.58	2.78	2.45	1.00	0.64
566.0-552.2	6	563	South China	Han and Fan, 2015, CG	Outcrop	Doushantuo	Xiangtan	178.02	0.54	0.24	0.01	1.25	2.04	1.88	1.00	0.67
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	0.5	0.07	0.20	0.06	0.00	0.33	5.01	0.07	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	2.1	0.06	0.11	0.05	0.00	0.22	3.92	0.06	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	4.5	0.06	0.29	0.06	0.00	0.41	4.68	0.09	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	5.5	0.08	0.21	0.07	0.00	0.36	4.79	0.07	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	7.4	0.06	0.16	0.06	0.00	0.29	4.71	0.06	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	9	0.07	0.12	0.06	0.00	0.25	4.75	0.05	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	13.2	0.09	0.09	0.07	0.00	0.26	4.27	0.06	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	18.4	0.07	0.15	0.05	0.00	0.28	5.28	0.05	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	19.5	0.08	0.16	0.06	0.00	0.30	5.14	0.06	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	20.5	0.13	0.13	0.09	0.00	0.35	5.12	0.07	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	22.4	0.07	0.13	0.06	0.00	0.26	5.01	0.05	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	22.9	0.08	0.09	0.07	0.00	0.24	4.88	0.05	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Feldschuhhorn Member)	FSH-1	23.6	0.06	0.16	0.06	0.00	0.28	4.94	0.06	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	1.7	0.07	0.16	0.05	0.00	0.28	4.77	0.06	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	2.3	0.05	0.13	0.04	0.00	0.21	5.29	0.04	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	3.05	0.06	0.13	0.06	0.00	0.25	5.04	0.05	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	4.7	0.07	0.09	0.05	0.00	0.21	4.82	0.04	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	5.6	0.06	0.12	0.04	0.00	0.22	4.39	0.05	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	6.6	0.07	0.16	0.04	0.00	0.27	5.03	0.05	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	8.3	0.06	0.20	0.05	0.00	0.31	4.63	0.07	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	8.8	0.05	0.07	0.03	0.00	0.15	4.96	0.03	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	10.2	0.05	0.11	0.03	0.00	0.20	4.54	0.04	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	10.8	0.04	0.11	0.03	0.00	0.19	4.43	0.04	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	11.6	0.06	0.10	0.03	0.00	0.20	4.68	0.04	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	12.8	0.06	0.25	0.04	0.00	0.35	4.70	0.07	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	14.3	0.06	0.27	0.04	0.00	0.36	4.79	0.07	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	14.9	0.06	0.10	0.04	0.00	0.20	4.85	0.04	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	16	0.06	0.08	0.04	0.00	0.18	4.85	0.04	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	17	0.07	0.14	0.05	0.00	0.25	4.83	0.05	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	18.8	0.07	0.06	0.04	0.00	0.16	4.68	0.03	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	19.2	0.06	0.18	0.04	0.00	0.28	4.51	0.06	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	21.9	0.08	0.07	0.06	0.00	0.21	4.46	0.05	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	23.6	0.09	0.09	0.07	0.00	0.25	4.86	0.05	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	24	0.05	0.13	0.05	0.00	0.23	4.39	0.05	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	27.7	0.06	0.20	0.04	0.00	0.30	4.30	0.07	0.01
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	28.65	0.16	0.22	0.04	0.00	0.42	4.44	0.09	0.01
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	28.9	0.06	0.25	0.05	0.00	0.36	4.15	0.09	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	36.6	0.04	0.40	0.03	0.00	0.47	3.25	0.14	0.00
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	51.08	0.04	0.10	0.01	0.00	0.16	1.81	0.09	0.01
552.2-538.4	7	545	Namibia	Sperling et al., 2015, Nature	Outcrop	Urusis (Spitskopf Member)	SWP	51.18	0.04	0.10	0.01	0.00	0.15	1.60	0.09	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urikos Member (Kuibis Subgroup)	ZBH (Zebra River)	1	0.09	0.10	0.05	0.00	0.23	4.93	0.05	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urikos Member (Kuibis Subgroup)	ZBH (Zebra River)	2	0.06	0.10	0.04	0.00	0.20	5.77	0.03	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Urikos Member (Kuibis Subgroup)	ZBH (Zebra River)	4	0.08	0.21	0.08	0.00	0.37	6.01	0.06	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Mara Member (Kuibis Subgroup)	ZUB (Zuurburg Farm)	2.25	0.02	0.74	0.10	0.00	0.87	4.08	0.21	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Mara Member (Kuibis Subgroup)	ZUB (Zuurburg Farm)	2.4	0.05	0.36	0.06	0.00	0.47	2.88	0.16	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Mara Member (Kuibis Subgroup)	ZUB (Zuurburg Farm)	3	0.02	0.53	0.14	0.00	0.69	3.89	0.18	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Mara Member (Kuibis Subgroup)	ZUB (Zuurburg Farm)	3.7	0.02	0.54	0.12	0.00	0.68	3.71	0.18	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Mara Member (Kuibis Subgroup)	ZUB (Zuurburg Farm)	3.95	0.02	0.49	0.10	0.00	0.61	3.68	0.17	0.00
552.2-538.4	7	548	Namibia	Sperling et al., 2015, Nature	Outcrop	Mara Member (Kuibis Subgroup)	ZUB (Zuurburg Farm)	4.45	0.02	1.03	0.23	0.00	1.28	4.28	0.30	0.00
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	1.5	1.08	0.00	0.10	0.01		1.18	1.00	0.01
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	2	0.83	0.00	0.22	0.00		1.30	0.81	0.01
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	3.4	0.99	0.00	0.16	0.01		1.25	0.93	0.01
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	7.8	0.99	0.01	0.69	0.02		1.89	0.90	0.01
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	32.3	0.94	0.00	0.07	0.00		1.07	0.95	0.01
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	37	0.27	0.00	1.02	0.01		1.49	0.87	0.01
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	40	0.63	0.01	0.37	0.02		1.09	0.93	0.02
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	43	0.95	0.00	0.44	0.01		1.18	1.00	0.01
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	46	0.86	0.00	0.26	0.01		1.13	1.00	0.01
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	49	1.42	0.01	0.40	0.02		1.83	1.00	0.01
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	61.5	0.59	0.01	0.57	0.01		1.24	0.95	0.01
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	64.5	0.81	0.00	0.20	0.01		1.03	0.99	0.02
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	80	0.47	0.00	0.92	0.02		1.53	0.92	0.01

552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	92	1.26	0.00	0.07	0.01		1.28	1.00	0.01
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	30.6				0.00		2.72	0.83	0.00
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	30.75				0.10		1.59	0.89	0.07
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	31.95				0.10		1.11	0.95	0.09
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	60				0.00		5.03	0.63	0.00
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	65				0.10		1.48	0.89	0.08
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	65.8				0.10		1.27	1.00	0.08
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	90				0.00		1.25	0.41	0.00
552.2-538.4	7	547	Namibia	Wood et al., 2015, PR			Brak	140				0.00		1.41	0.35	0.00
552.2-538.4	7	545	Mongolia	Sperling et al., 2015, Nature	Outcrop	Tsagaan Oloom (Zuune Arts Mbr)	E1216	36.4	0.10	0.94	0.05	0.04	1.14	2.17	0.52	0.04
552.2-538.4	7	545	Mongolia	Sperling et al., 2015, Nature	Outcrop	Tsagaan Oloom (Zuune Arts Mbr)	E1216	36.8	0.21	0.52	0.08	0.44	1.25	2.14	0.59	0.35
552.2-538.4	7	545	Mongolia	Sperling et al., 2015, Nature	Outcrop	Tsagaan Oloom (Zuune Arts Mbr)	E1216	42.4	0.08	0.55	0.04	0.05	0.72	1.46	0.49	0.07
552.2-538.4	7	545	Mongolia	Sperling et al., 2015, Nature	Outcrop	Tsagaan Oloom (Zuune Arts Mbr)	E1216	43.2	0.38	0.42	0.10	0.63	1.53	2.15	0.71	0.41
552.2-538.4	7	550	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	S1208	0	0.10	0.14	0.03	1.08	1.36	2.82	0.48	0.80
552.2-538.4	7	550	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	S1208	8.5	0.06	0.27	0.04	0.00	0.38	2.34	0.16	0.00
552.2-538.4	7	550	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	S1208	12.8	0.30	0.70	0.06	0.75	1.81	3.99	0.45	0.41
552.2-538.4	7	550	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	S1208	20.8	0.34	1.61	0.03	0.53	2.51	3.71	0.68	0.21
552.2-538.4	7	555	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop		F842	135	0.09	0.23	0.19	0.00	0.51	3.92	0.13	0.01
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1372				0.01	1.43	5.39	0.26	0.01
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1374				0.00	1.33	4.98	0.27	0.00
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1376				0.00	1.59	6.77	0.23	0.00
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1412				0.00	1.08	5.36	0.20	0.00
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1415.8				0.01	1.07	4.79	0.22	0.01
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1417				0.01	1.86	6.52	0.28	0.00
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1454.6				0.09	1.81	5.61	0.32	0.05
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1457.3				0.01	1.45	6.02	0.24	0.01
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1461.2				0.00	1.79	5.67	0.32	0.00
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1497.3				0.00	1.24	5.69	0.22	0.00
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1503.3				0.01	0.91	4.61	0.20	0.01
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1542				0.00	1.24	5.19	0.24	0.00
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1545.7				0.01	1.20	5.17	0.23	0.01
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1581.3				0.01	0.78	4.64	0.17	0.02
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1584				0.01	1.15	5.39	0.21	0.01
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1587.3				0.00	1.30	5.03	0.26	0.00
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1623.7				0.00	1.16	4.58	0.25	0.00
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1629.2				0.00	1.38	4.45	0.31	0.00
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1666.5				0.00	1.23	4.21	0.29	0.00
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1670.7				0.00	1.19	4.00	0.30	0.00
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1711				0.03	1.48	5.57	0.26	0.02
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1751				0.04	1.46	4.92	0.30	0.02
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1754.3				0.04	1.84	6.62	0.28	0.02
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1783.7				0.04	1.62	5.46	0.30	0.02
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1786.7				0.02	1.76	6.18	0.28	0.01
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1829				0.01	1.77	6.49	0.27	0.01
552.2-538.4	7	550	Eastern European Platform	Johnston et al., 2012, EPSL	Core	Kotlin	Kel'tminskaya-1	1870				0.01	1.62	5.97	0.27	0.01
552.2-538.4	7	551	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	19	0.62	0.28	0.03	0.23	1.16	1.82	0.64	0.20
552.2-538.4	7	550	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	25	0.83	0.42	0.02	0.17	1.44	2.24	0.64	0.12
552.2-538.4	7	541	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	80	0.46	0.74	0.07	1.28	2.55	4.69	0.54	0.50
552.2-538.4	7	540	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	83	1.47	0.68	0.26	1.00	3.41	4.21	0.81	0.29
552.2-538.4	7	540	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	87	0.44	1.53	0.16	1.24	3.37	7.15	0.47	0.37
552.2-538.4	7	539	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	90	0.28	1.08	0.14	1.03	2.53	4.95	0.51	0.41
552.2-538.4	7	539	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	93	0.34	0.65	0.03	0.36	1.38	1.80	0.77	0.26
552.2-538.4	7	549	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	32	0.41	0.33	0.04	0.39	1.17	2.01	0.58	0.33
552.2-538.4	7	548	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	40	0.50	0.41	0.01	0.00	0.92	1.20	0.77	0.00
552.2-538.4	7	546	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	47	0.15	0.62	0.02	0.00	0.79	1.24	0.64	0.00
552.2-538.4	7	545	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	55	0.84	0.14	0.00	0.22	1.20	1.29	0.93	0.18
552.2-538.4	7	544	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	60	0.32	0.17	0.01	2.08	2.58	4.63	0.56	0.81
552.2-538.4	7	544	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	64	0.25	0.36	0.02	1.41	2.04	3.12	0.65	0.69
552.2-538.4	7	543	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	68	0.14	0.22	0.02	0.41	0.79	1.20	0.66	0.52
552.2-538.4	7	542	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	72	0.26	0.26	0.02	0.38	0.92	1.14	0.81	0.41
552.2-538.4	7	542	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	75	1.68	0.12	0.01	0.88	2.69	4.02	0.67	0.33
552.2-538.4	7	540	South China	Cai et al., 2015, JGS	Outcrop	Liuchapo	Zhalagou	0.7	0.25	0.50	0.02	0.91	1.68	1.82	0.92	0.54
552.2-538.4	7	540	South China	Cai et al., 2015, JGS	Outcrop	Liuchapo	Zhalagou	0.3	0.25	0.34	0.03	0.19	0.81	1.12	0.72	0.23
552.2-538.4	7	541	South China	Cai et al., 2015, JGS	Outcrop	Liuchapo	Zhalagou	0	0.46	0.66	0.03	0.68	1.83	2.34	0.78	0.37
552.2-538.4	7	539	South China	Wang et al., 2012, CG	Outcrop	Liuchapo	Longbizui	LBZ-32	0.01	0.64	0.05	0.41	1.10	1.06	1.00	0.37
552.2-538.4	7	544	South China	Wang et al., 2012, CG	Outcrop	Liuchapo	Longbizui	LBZ-25	0.01	0.61	0.05	0.30	0.95	1.37	0.69	0.31
552.2-538.4	7	547	South China	Chen et al., 2015, NC	Outcrop	Liuchapo	Longbizui	10.9						1.15	0.67	0.47
552.2-538.4	7	549	South China	Chen et al., 2015, NC	Outcrop	Liuchapo	Longbizui	6.2						1.96	1.00	0.73

552.2-538.4	7	549	South China	Och et al., 2016, Sedimentology	Outcrop	Liuchapo	Longbizui	5.4	0.09	0.06	0.00	0.83	0.99	1.09	0.91	0.84
552.2-538.4	7	549	South China	Och et al., 2016, Sedimentology	Outcrop	Liuchapo	Longbizui	5.7	0.06	0.11	0.00	0.75	0.92	1.22	0.76	0.81
552.2-538.4	7	548	South China	Och et al., 2016, Sedimentology	Outcrop	Liuchapo	Longbizui	6.2	0.24	0.08	0.00	0.35	0.67	1.51	0.45	0.52
552.2-538.4	7	548	South China	Och et al., 2016, Sedimentology	Outcrop	Liuchapo	Longbizui	6.2	0.42	0.13	0.00	1.54	2.10	1.95	1.00	0.73
552.2-538.4	7	542	South China	Canfield et al., 2008, Science		Liuchapo	Songtao		0.13	0.68	0.02	0.15	0.98	1.17	0.83	0.15
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	732	0.10	1.80	0.04	0.00	1.95	4.26	0.46	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	750	0.07	2.39	0.14	0.00	2.61	5.86	0.45	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	766	0.12	0.92	0.05	0.00	1.08	4.97	0.22	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	780	0.06	1.21	0.04	0.00	1.31	5.07	0.26	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	796.5	0.06	0.27	0.06	0.00	0.38	4.32	0.09	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	810	0.06	0.69	0.05	0.00	0.80	4.52	0.18	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	828	0.07	0.35	0.12	0.00	0.55	3.91	0.14	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	851.5	0.08	0.46	0.08	0.00	0.63	4.27	0.15	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	852	0.05	1.58	0.05	0.00	1.68	4.37	0.38	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	868	0.06	0.56	0.09	0.00	0.71	3.64	0.19	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	883.5	0.02	2.84	0.25	0.00	3.11	5.75	0.54	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	901	0.04	1.08	0.07	0.00	1.19	3.05	0.39	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	916.5	0.06	1.00	0.12	0.00	1.17	3.96	0.30	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	925	0.05	0.87	0.10	0.00	1.01	3.81	0.27	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	F1159	936	0.01	0.78	0.04	0.00	0.83	2.07	0.40	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1125	0.4	0.02	0.76	0.02	0.00	0.81	2.05	0.39	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1125	1.9	0.02	1.23	0.01	0.00	1.26	2.61	0.48	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	10.2	0.03	0.36	0.01	0.01	0.41	1.16	0.35	0.02
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower	J1128	4.7	0.07	0.19	0.02	0.02	0.29	1.38	0.21	0.05
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	1.65	0.07	0.87	0.07	0.02	1.02	3.37	0.30	0.02
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	2.75	0.08	0.60	0.07	0.01	0.76	3.43	0.22	0.01
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	5.1	0.09	0.64	0.07	0.01	0.81	3.10	0.26	0.01
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	6.5	0.09	0.44	0.06	0.00	0.59	3.76	0.16	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	12.7	0.02	0.19	0.03	0.00	0.24	1.91	0.12	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	17.4	0.07	0.18	0.06	0.01	0.32	3.38	0.10	0.04
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	18	0.03	0.61	0.06	0.00	0.71	3.97	0.18	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	20.8	0.05	0.49	0.06	0.00	0.60	2.88	0.21	0.01
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	31.2	0.04	0.29	0.04	0.02	0.39	3.34	0.12	0.06
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	34.1	0.06	0.87	0.05	0.01	0.99	3.74	0.27	0.01
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	38.4	0.11	0.55	0.07	0.02	0.76	4.22	0.18	0.03
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	42.5	0.06	0.54	0.07	0.02	0.69	4.49	0.15	0.03
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	54.5	0.06	0.46	0.04	0.00	0.55	3.46	0.16	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	57.4	0.07	0.39	0.06	0.00	0.52	4.43	0.12	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	62.5	0.07	0.83	0.05	0.04	0.99	5.02	0.20	0.04
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	66	0.10	1.41	0.06	0.00	1.56	5.39	0.29	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	73.1	0.09	0.39	0.06	0.00	0.54	5.78	0.09	0.01
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	97	0.08	1.44	0.05	0.01	1.58	4.90	0.32	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Blueflower Formation	N13-6	121.5	0.06	0.50	0.05	0.00	0.62	5.57	0.11	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Gametrail		F1162-419WEATHERED	0.02	3.39	0.01	0.01	3.43	3.66	0.94	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1162-445.7	0.17	1.47	0.00	0.04	1.69	1.88	0.90	0.03
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1162-496.4	0.12	1.70	0.00	0.03	1.85	2.04	0.91	0.02
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1162-542.3	0.02	2.07	0.01	0.00	2.11	2.69	0.78	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1162-542.7	0.02	0.93	0.00	0.00	0.95	1.61	0.59	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1162-547.4	0.02	0.88	0.01	0.01	0.91	1.44	0.63	0.01
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1162-547.8	0.01	0.43	0.00	0.00	0.44	1.14	0.38	0.01
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1163-22.5	0.18	1.40	0.02	0.09	1.69	2.17	0.78	0.05
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1163-28.6	0.13	0.86	0.01	0.21	1.20	1.43	0.84	0.17
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1163-46.4	0.19	1.11	0.01	0.20	1.51	3.74	0.40	0.13
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1163-50.3	0.08	0.99	0.00	0.14	1.21	1.50	0.81	0.12
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1163-61.3	0.10	1.52	0.02	0.19	1.83	2.66	0.69	0.11
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1163-80	0.09	0.61	0.01	0.06	0.77	1.15	0.67	0.08
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1163-90.7	0.07	0.62	0.04	0.01	0.74	2.41	0.31	0.01
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1163-103.5	0.06	0.33	0.05	0.02	0.46	2.51	0.18	0.04
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1163-113	0.14	2.23	0.06	0.03	2.47	3.68	0.67	0.01
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1163-128.2	0.08	1.81	0.05	0.02	1.95	4.02	0.49	0.01
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1163-134.6	0.10	2.18	0.03	0.04	2.34	3.51	0.67	0.02
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1163-147.1	0.17	2.38	0.02	0.10	2.67	3.50	0.76	0.04
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1164-49.1	0.13	2.19	0.01	0.00	2.33	2.86	0.81	0.00
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1164-64	0.06	2.64	0.07	0.03	2.81	4.84	0.58	0.01
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1164-75.9	0.11	0.67	0.01	0.02	0.82	1.72	0.47	0.02
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1164-84.2	0.34	0.23	0.01	0.09	0.67	1.04	0.64	0.13
552.2-538.4	7	550	Mackenzie Mountains	Sperling et al., 2015, GSAB		Blueflower		F1164-93.1	0.21	2.27	0.03	0.03	2.54	3.34	0.76	0.01
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 102.7	0.02	1.52	0.02	0.00	1.55	3.07	0.51	0.00

552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 109.4	0.02	2.82	0.01	0.00	2.84	4.17	0.68	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 112.4	0.02	1.74	0.04	0.00	1.79	3.68	0.49	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 117.3	0.03	1.33	0.02	0.00	1.38	3.46	0.40	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 120.2	0.05	0.93	0.13	0.00	1.12	4.45	0.25	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 120.9	0.03	1.22	0.05	0.00	1.29	4.36	0.30	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 9.7	0.01	0.69	0.01	0.00	0.72	1.97	0.36	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	15.8	0.03	0.53	0.05	0.00	0.61	3.17	0.19	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	22.8	0.03	1.32	0.06	0.00	1.40	3.41	0.41	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	23.6	0.01	0.68	0.02	0.00	0.71	1.77	0.40	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	32.5	0.03	1.22	0.05	0.00	1.29	3.86	0.34	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	34.15	0.04	1.48	0.06	0.00	1.58	4.78	0.33	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	40.7	0.03	0.24	0.17	0.00	0.44	2.77	0.16	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	44.8	0.03	0.24	0.02	0.00	0.28	2.12	0.13	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	49.4	0.02	1.31	0.10	0.00	1.42	3.83	0.37	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	50.2	0.03	1.77	0.04	0.00	1.85	3.65	0.51	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	54	0.02	1.77	0.04	0.00	1.83	3.70	0.49	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	61.2	0.06	0.69	0.03	0.00	0.78	2.56	0.31	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	61.4	0.02	0.67	0.03	0.00	0.73	2.55	0.28	0.00
552.2-538.4	7	545	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta Formation	S1305	61.6	0.01	0.27	0.03	0.00	0.32	2.93	0.11	0.01
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	41.7	0.05	0.61	0.00	0.00	0.66	1.53	0.43	0.00
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	42	0.03	2.03	0.02	0.00	2.09	3.23	0.65	0.00
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	42.9	0.76	1.17	0.01	0.59	2.53	3.47	0.73	0.23
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	50.8	0.13	0.69	0.08	0.17	1.07	3.20	0.33	0.16
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	52	0.40	0.92	0.06	0.38	1.76	3.27	0.54	0.22
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	54	0.17	1.07	0.08	0.12	1.44	3.30	0.44	0.08
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	56	0.28	0.48	0.08	0.67	1.51	3.72	0.41	0.44
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	58	0.52	0.39	0.09	0.89	1.89	4.28	0.44	0.47
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	60	0.39	0.69	0.08	0.67	1.83	3.67	0.50	0.36
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	62	0.25	0.19	0.10	0.60	1.14	3.55	0.32	0.52
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	63.3	0.20	0.22	0.08	0.31	0.81	3.39	0.24	0.39
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	64	0.32	0.53	0.08	0.13	1.05	3.11	0.34	0.12
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	66	0.19	0.35	0.08	0.37	1.00	3.09	0.32	0.37
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	68	2.40	0.62	0.02	0.32	3.36	4.17	0.81	0.09
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	74	0.66	0.16	0.02	0.65	1.49	2.84	0.53	0.44
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	76	1.03	0.74	0.02	0.27	2.06	3.02	0.68	0.13
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	78	0.07	0.67	0.02	0.01	0.77	2.18	0.35	0.01
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	80	0.09	0.24	0.02	0.21	0.55	2.03	0.27	0.38
538.4-524.6	8	535	Wernecke Mountains	Sperling et al., 2015, Nature	Outcrop		J1218	90.3	0.03	1.24	0.01	0.09	1.37	1.84	0.74	0.06
538.4-524.6	8	530	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop	F842	F842	227	0.05	1.52	0.01	0.01	1.59	2.23	0.71	0.01
538.4-524.6	8	530	Ogilvie Mountains	Sperling et al., 2015, Nature	Outcrop	F842	F842	229	0.02	0.50	0.00	0.01	0.53	1.02	0.52	0.01
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	66-J1125-212.6	0.01	1.08	0.00	0.00	1.10	2.34	0.47	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	67-J1125-216.2	0.02	1.01	0.02	0.00	1.05	3.28	0.32	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	68-J1125-239.2	0.02	1.17	0.02	0.00	1.21	3.54	0.34	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	69-J1125-241.5	0.02	0.86	0.03	0.00	0.91	2.71	0.34	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	70-J1125-247.6	0.01	2.12	0.01	0.00	2.14	3.55	0.60	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	71-J1125-252.1	0.01	1.09	0.02	0.00	1.12	3.05	0.37	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	72-J1125-258.6	0.01	2.23	0.01	0.00	2.25	3.56	0.63	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	73-J1125-263.4	0.02	2.03	0.02	0.00	2.07	3.60	0.58	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	74-J1125-268.8	0.01	0.93	0.02	0.00	0.96	3.05	0.31	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	77-J1125-296.5	0.02	1.44	0.03	0.00	1.49	3.70	0.40	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	78-J1125-313.5	0.04	1.02	0.02	0.00	1.07	2.98	0.36	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	79-J1125-324.4	0.03	1.38	0.04	0.00	1.45	3.84	0.38	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 125.1	0.03	2.00	0.04	0.00	2.07	4.29	0.48	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 129.6	0.03	1.19	0.03	0.00	1.25	3.06	0.41	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 135.9	0.04	1.29	0.07	0.00	1.40	4.08	0.34	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 142.3	0.09	1.32	0.12	0.00	1.53	4.79	0.32	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 148.3	0.06	1.48	0.09	0.00	1.62	5.05	0.32	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 155.1	0.04	2.61	0.07	0.00	2.73	6.17	0.44	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 161.8	0.04	1.24	0.05	0.00	1.32	4.31	0.31	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 167.4	0.03	1.26	0.03	0.00	1.32	3.87	0.34	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 175.4	0.03	2.47	0.04	0.00	2.54	5.75	0.44	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 182.1	0.02	1.79	0.02	0.00	1.82	3.83	0.48	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 189.4	0.03	1.18	0.02	0.00	1.23	3.24	0.38	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 194.8	0.05	1.43	0.06	0.00	1.54	4.73	0.33	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 200	0.02	0.98	0.03	0.00	1.03	3.73	0.28	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 206.8	0.04	0.99	0.03	0.00	1.06	3.21	0.33	0.00
538.4-524.6	8	535	Mackenzie Mountains	Sperling et al., 2015, Nature	Outcrop	Ingta	J1125	J1125- 209	0.02	0.73	0.02	0.00	0.76	3.40	0.22	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	1	0.05	0.09	0.06	0.00	0.20	4.54	0.04	0.01

538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	1.2	0.07	0.16	0.06	0.00	0.29	3.70	0.08	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	3	0.06	0.34	0.06	0.00	0.45	4.85	0.09	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	5.9	0.09	0.09	0.07	0.00	0.25	4.28	0.06	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	9.9	0.07	0.13	0.06	0.00	0.26	5.09	0.05	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	12.8	0.11	0.33	0.09	0.00	0.53	4.59	0.11	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	14.4	0.10	0.16	0.08	0.00	0.34	4.54	0.07	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	15.1	0.08	0.22	0.07	0.00	0.37	4.67	0.08	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	18.5	0.07	0.31	0.06	0.00	0.44	4.49	0.10	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	21.3	0.07	0.44	0.06	0.00	0.57	5.46	0.10	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	24.5	0.09	0.26	0.08	0.00	0.43	4.70	0.09	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	27.6	0.07	0.33	0.06	0.00	0.45	4.99	0.09	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	31	0.06	1.00	0.09	0.00	1.15	5.03	0.23	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	34	0.05	0.78	0.09	0.00	0.92	4.97	0.19	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	37	0.07	0.48	0.06	0.00	0.61	4.71	0.13	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	40	0.06	0.51	0.06	0.00	0.63	4.85	0.13	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	43	0.06	0.57	0.07	0.00	0.69	5.14	0.13	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	47.6	0.09	0.39	0.07	0.00	0.55	4.97	0.11	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	49.5	0.08	0.34	0.07	0.00	0.49	5.16	0.10	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	53.6	0.08	0.23	0.06	0.00	0.38	4.72	0.08	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	56.7	0.10	0.36	0.07	0.00	0.53	4.88	0.11	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	62.8	0.06	0.47	0.07	0.00	0.61	5.42	0.11	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	69	0.09	0.36	0.09	0.00	0.54	4.93	0.11	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	71.5	0.09	0.37	0.08	0.00	0.54	4.54	0.12	0.00
538.4-524.6	8	538	Namibia	Sperling et al., 2015, Nature	Outcrop	Nomtsas	VF1-S	73	0.10	0.29	0.09	0.00	0.48	4.84	0.10	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	108.4	0.13	1.91	0.06	0.01	2.11	6.65	0.32	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	114	0.08	0.75	0.04	0.00	0.87	11.97	0.07	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	117.9	0.05	2.40	0.04	0.00	2.49	6.06	0.41	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	121	0.07	2.25	0.05	0.00	2.37	5.13	0.46	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	127.1	0.03	2.38	0.03	0.00	2.44	3.90	0.63	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	129.1	0.08	1.00	0.04	0.00	1.12	6.01	0.19	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	151.7	0.05	0.20	0.01	0.00	0.27	4.58	0.06	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	172	0.06	0.27	0.02	0.00	0.35	3.52	0.10	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	197.8	0.06	0.05	0.02	0.00	0.13	4.44	0.03	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	204	0.04	0.88	0.02	0.00	0.94	4.12	0.23	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	206.7	0.06	0.54	0.02	0.00	0.61	3.24	0.19	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	207.9	0.06	0.30	0.02	0.00	0.37	3.70	0.10	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	210.7	0.06	0.73	0.01	0.00	0.80	3.71	0.22	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	218.5	0.05	0.11	0.02	0.00	0.18	3.45	0.05	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	227.1	0.06	0.21	0.02	0.00	0.29	2.97	0.10	0.01
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	233	0.09	0.10	0.03	0.00	0.22	4.49	0.05	0.01
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	235.7	0.09	0.13	0.03	0.00	0.24	4.54	0.05	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	237.8	0.05	0.46	0.02	0.00	0.53	4.57	0.12	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	242.9	0.05	0.62	0.02	0.00	0.70	4.95	0.14	0.00
538.4-524.6	8	538	Mongolia	Sperling et al., 2015, Nature	Outcrop	Bayan Gol	T1201	248.1	0.08	0.29	0.03	0.00	0.40	5.11	0.08	0.00
538.4-524.6	8	534	South China	Sahoo et al., 2016, Geobiology	Outcrop	Liuchapo Formation	Wuhe	143.2	0.06	0.48	0.15	0.07	0.76	1.02	0.74	0.09
538.4-524.6	8	530	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	-0.3						4.87	0.66	0.94
538.4-524.6	8	530	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	-0.8						5.24	0.64	0.93
538.4-524.6	8	530	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	-1.3						1.97	0.49	0.54
538.4-524.6	8	531	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	-2.8						2.57	0.66	0.04
538.4-524.6	8	532	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	-3.4						1.31	0.59	0.04
538.4-524.6	8	532	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	-3.6						2.38	0.51	0.03
538.4-524.6	8	532	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	-4						2.53	0.48	0.09
538.4-524.6	8	532	South China	Wen et al., 2014, CG	Outcrop		Huangjiawan							3.11	0.53	0.37
538.4-524.6	8	532	South China	Wen et al., 2014, CG	Outcrop		Huangjiawan							2.57	0.66	0.04
538.4-524.6	8	532	South China	Wen et al., 2014, CG	Outcrop		Huangjiawan							1.31	0.59	0.04
538.4-524.6	8	532	South China	Wen et al., 2014, CG	Outcrop		Huangjiawan							1.67	0.73	0.03
538.4-524.6	8	532	South China	Wen et al., 2014, CG	Outcrop		Huangjiawan							2.53	0.48	0.09
538.4-524.6	8	532	South China	Wen et al., 2014, CG	Outcrop		Huangjiawan							1.79	0.67	0.03
538.4-524.6	8	532	South China	Wen et al., 2014, CG	Outcrop		Huangjiawan							1.93	0.67	0.01
538.4-524.6	8	536	South China	Wen et al., 2014, CG	Outcrop		Chuanyanping							2.91	0.69	0.87
538.4-524.6	8	536	South China	Wen et al., 2014, CG	Outcrop		Chuanyanping							2.84	0.49	0.83
538.4-524.6	8	536	South China	Wen et al., 2014, CG	Outcrop		Chuanyanping							2.97	0.43	0.80
538.4-524.6	8	536	South China	Wen et al., 2014, CG	Outcrop		Chuanyanping							2.53	0.63	0.37
538.4-524.6	8	536	South China	Wen et al., 2014, CG	Outcrop		Chuanyanping							1.86	0.92	0.34
538.4-524.6	8	536	South China	Wen et al., 2014, CG	Outcrop		Chuanyanping							3.68	0.54	0.36
538.4-524.6	8	536	South China	Wen et al., 2014, CG	Outcrop		Chuanyanping							4.81	0.27	0.71
538.4-524.6	8	536	South China	Wen et al., 2014, CG	Outcrop		Chuanyanping							3.30	0.24	0.88
538.4-524.6	8	536	South China	Wen et al., 2014, CG	Outcrop		Chuanyanping							2.58	0.70	0.83

538.4-524.6	8	536	South China	Wen et al., 2014, CG	Outcrop		Chuanyanping							2.77	0.96	0.73
538.4-524.6	8	536	South China	Wen et al., 2014, CG	Outcrop		Chuanyanping							2.20	0.15	0.89
538.4-524.6	8	536	South China	Wen et al., 2014, CG	Outcrop		Chuanyanping							1.30	0.11	0.40
538.4-524.6	8	530	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	5.8	0.27	0.28	0.01	1.49	2.05	3.35	0.61	0.73
538.4-524.6	8	532	South China	Cai et al., 2015, JGS	Outcrop	Liuchapo	Zhalagou	4.9	0.35	0.79	0.02	0.48	1.64	1.68	0.98	0.29
538.4-524.6	8	534	South China	Cai et al., 2015, JGS	Outcrop	Liuchapo	Zhalagou	3.9	0.35	0.76	0.03	0.13	1.27	1.38	0.92	0.10
538.4-524.6	8	535	South China	Cai et al., 2015, JGS	Outcrop	Liuchapo	Zhalagou	3.2	0.27	0.40	0.00	0.74	1.41	1.50	0.94	0.52
538.4-524.6	8	536	South China	Cai et al., 2015, JGS	Outcrop	Liuchapo	Zhalagou	2.6	0.34	0.71	0.01	0.14	1.20	1.23	0.98	0.12
538.4-524.6	8	537	South China	Cai et al., 2015, JGS	Outcrop	Liuchapo	Zhalagou	2.1	0.24	0.39	0.01	0.89	1.53	1.91	0.80	0.58
538.4-524.6	8	538	South China	Cai et al., 2015, JGS	Outcrop	Liuchapo	Zhalagou	1.7	0.24	0.33	0.00	0.49	1.06	1.25	0.85	0.46
538.4-524.6	8	525	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	8.4	0.13	0.73	0.03	1.08	1.96	3.34	0.59	0.55
538.4-524.6	8	528	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	7	0.24	0.27	0.01	1.70	2.22	2.99	0.74	0.77
538.4-524.6	8	538	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	97	0.15	0.30	0.01	0.39	0.85	2.06	0.41	0.46
538.4-524.6	8	537	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	105	1.23	0.55	0.03	0.73	2.54	3.01	0.84	0.29
538.4-524.6	8	536	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	107	0.44	0.81	0.06	0.46	1.77	2.95	0.60	0.26
538.4-524.6	8	536	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	110	1.00	1.12	0.06	1.19	3.37	4.15	0.81	0.35
538.4-524.6	8	535	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	114	0.37	1.21	0.11	0.68	2.37	5.10	0.46	0.29
538.4-524.6	8	535	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	118	0.22	0.95	0.08	0.53	1.78	3.17	0.56	0.30
538.4-524.6	8	534	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	121	1.06	0.35	0.05	0.71	2.17	3.60	0.60	0.33
538.4-524.6	8	534	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	124	1.40	0.85	0.26	2.25	4.76	6.30	0.76	0.47
538.4-524.6	8	533	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	129	0.43	1.10	0.08	0.80	2.41	3.53	0.68	0.33
538.4-524.6	8	532	South China	Yuan et al., 2014, CSB	Outcrop	Piyuancun	Diben	133	0.40	0.79	0.05	0.38	1.62	2.56	0.63	0.23
538.4-524.6	8	527	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	148	0.26	0.62	0.03	0.52	1.43	2.11	0.68	0.36
538.4-524.6	8	526	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	150	0.27	0.38	0.04	1.10	1.79	3.14	0.57	0.61
538.4-524.6	8	525	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	153	0.29	0.81	0.05	3.72	4.87	8.38	0.58	0.76
538.4-524.6	8	534	South China	Wang et al., 2012, CG	Outcrop	Liuchapo	Longbizui	LBZ-37	0.11	0.79	0.07	0.07	1.04	1.70	0.61	0.06
538.4-524.6	8	527	South China	Chen et al., 2015, NC	Outcrop	Niutitang	Longbizui	56.7						2.17	0.66	0.81
524.6-510.8	9	511	Georgina Basin	Creveling et al., 2014, GSAB	Core	Thorntonia Formation	LACF	585	0.34	0.00	0.01	0.38	0.73	1.07	0.68	0.52
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	158.3	0.11	0.12	0.08	0.51	0.82	3.10	0.26	0.62
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	156.3	0.08	0.65	0.31	0.00	1.04	3.81	0.27	0.00
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	154.4	0.02	0.34	0.39	0.00	0.75	4.24	0.18	0.00
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	153	0.06	0.69	0.32	0.00	1.07	4.01	0.27	0.00
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	149	0.10	0.46	0.29	0.00	0.85	3.40	0.25	0.00
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	147.2	0.03	0.39	0.31	0.00	0.73	3.88	0.19	0.00
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	145	0.03	0.25	0.24	0.00	0.52	3.66	0.14	0.00
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	134	0.13	0.55	0.27	0.00	0.95	4.02	0.24	0.00
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	122	0.13	0.54	0.30	0.00	0.97	3.45	0.28	0.00
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	114.7	0.09	0.71	0.29	0.00	1.09	3.84	0.28	0.00
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	110.7	0.04	0.25	0.22	0.00	0.51	3.40	0.15	0.00
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	104.7	0.17	0.08	0.33	0.00	0.58	2.55	0.23	0.00
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	101.7	0.10	0.04	0.09	0.01	0.24	2.81	0.09	0.04
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	100	0.11	0.05	0.11	0.01	0.28	3.52	0.08	0.04
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	98.4	0.11	0.06	0.13	0.02	0.32	3.23	0.10	0.06
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	96.6	0.15	0.07	0.14	0.10	0.46	2.85	0.16	0.22
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	93.9	0.17	0.10	0.18	0.06	0.51	3.49	0.15	0.12
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	92.4	0.20	0.13	0.22	0.04	0.59	3.41	0.17	0.07
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	86.6	0.17	0.11	0.19	0.05	0.52	3.52	0.15	0.10
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	85.6	0.16	0.09	0.18	0.05	0.48	3.73	0.13	0.10
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	83.6	0.19	0.11	0.20	0.00	0.50	3.72	0.13	0.00
524.6-510.8	9	513	South China	This study	Outcrop	Shipai	Wangjiaping	82.1	0.16	0.11	0.19	0.04	0.50	4.36	0.11	0.08
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	32.6	0.04	1.36	0.36	0.00	1.76	4.46	0.40	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	30.8	0.05	0.22	0.11	0.00	0.38	3.41	0.11	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	29.8	0.06	1.41	0.35	0.00	1.82	4.23	0.43	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	29.1	0.07	1.06	0.25	0.00	1.38	4.07	0.34	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	28.8	0.02	0.82	0.37	0.00	1.21	4.27	0.28	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	28.1	0.06	1.35	0.25	0.00	1.66	4.28	0.39	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	8.1	0.04	1.55	0.37	0.00	1.96	4.42	0.44	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	7.1	0.01	0.84	0.51	0.00	1.36	4.50	0.30	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	6.6	0.06	1.41	0.34	0.00	1.81	4.45	0.41	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	4.1	0.11	0.94	0.41	0.00	1.46	4.42	0.33	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	3	0.08	0.89	0.29	0.00	1.26	4.19	0.30	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	2.6	0.09	0.86	0.38	0.00	1.33	4.14	0.32	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	1.8	0.09	0.64	0.34	0.00	1.07	4.02	0.27	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	0.8	0.03	0.99	0.28	0.00	1.30	4.27	0.30	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	0.5	0.10	1.20	0.30	0.00	1.60	4.30	0.37	0.00
524.6-510.8	9	514	South China	This study	Outcrop	Shipai	Wangjiaping	0	0.05	0.96	0.27	0.00	1.28	4.03	0.32	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	365	0.07	0.90	0.32	0.00	1.29	4.62	0.28	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	355	0.04	1.13	0.16	0.00	1.33	4.63	0.29	0.00

524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	345	0.24	0.16	0.24	0.00	0.64	4.58	0.14	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	315	0.16	0.22	0.19	0.00	0.57	4.00	0.14	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	305	0.17	0.17	0.23	0.00	0.57	5.14	0.11	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	297	0.13	0.13	0.14	0.00	0.40	4.66	0.09	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	287	0.06	1.03	0.39	0.00	1.48	4.57	0.32	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	281	0.10	0.17	0.20	0.00	0.47	5.57	0.08	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	269	0.11	0.41	0.25	0.00	0.77	6.23	0.12	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	264	0.09	0.30	0.25	0.00	0.64	4.98	0.13	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	259	0.11	0.33	0.25	0.00	0.69	6.03	0.11	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	251	0.06	0.79	0.38	0.00	1.23	5.84	0.21	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	225	0.03	0.97	0.50	0.00	1.50	5.91	0.25	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	217	0.05	0.98	0.28	0.00	1.31	5.85	0.22	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	209	0.05	1.04	0.43	0.00	1.52	6.13	0.25	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	205	0.07	1.04	0.47	0.00	1.58	5.61	0.28	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	199	0.06	0.80	0.26	0.00	1.12	5.75	0.19	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	193	0.04	1.11	0.53	0.00	1.68	5.86	0.29	0.00
524.6-510.8	9	511	South China	This study	Outcrop	Balang	Geyi	184	0.39	0.18	0.13	0.00	0.70	2.88	0.24	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	175	0.07	1.05	0.48	0.00	1.60	6.09	0.26	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	167	0.06	0.45	0.32	0.00	0.83	5.55	0.15	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	159	0.13	0.19	0.16	0.00	0.48	4.29	0.11	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	151	0.11	0.47	0.31	0.00	0.89	5.74	0.16	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	144	0.11	0.37	0.22	0.00	0.70	5.45	0.13	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	134	0.08	0.49	0.34	0.00	0.91	5.54	0.16	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	121	0.10	0.76	0.27	0.00	1.13	4.89	0.23	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	111	0.06	1.01	0.35	0.00	1.42	5.53	0.26	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	95	0.03	1.18	0.74	0.00	1.95	6.06	0.32	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	81	0.19	0.29	0.20	0.00	0.68	3.70	0.18	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	67	0.17	0.29	0.31	0.00	0.77	5.25	0.15	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	60	0.07	1.01	0.44	0.00	1.52	6.16	0.25	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	46	0.06	1.03	0.50	0.00	1.59	4.89	0.33	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	33	0.03	1.11	0.56	0.00	1.70	5.37	0.32	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	24	0.05	1.27	0.61	0.00	1.93	5.46	0.35	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	11	0.13	0.31	0.31	0.00	0.75	6.47	0.12	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	3	0.05	1.43	0.67	0.00	2.15	6.31	0.34	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Balang	Geyi	1	0.05	1.38	0.52	0.00	1.95	6.01	0.32	0.00
524.6-510.8	9	512	South China	This study	Outcrop	Bianmachong	Wuhe	92	0.23	0.80	0.08	0.81	1.92	3.10	0.62	0.42
524.6-510.8	9	514	South China	This study	Outcrop	Bianmachong	Wuhe	58	0.23	0.22	0.05	1.35	1.85	2.63	0.70	0.73
524.6-510.8	9	514	South China	This study	Outcrop	Bianmachong	Wuhe	55	0.02	0.06	0.01	0.74	0.83	3.64	0.23	0.89
524.6-510.8	9	514	South China	This study	Outcrop	Bianmachong	Wuhe	53	0.25	0.07	0.03	0.74	1.09	1.71	0.64	0.68
524.6-510.8	9	516	South China	This study	Outcrop	Jiumenchong	Wuhe	36	0.26	0.04	0.01	0.51	0.82	1.00	0.82	0.62
524.6-510.8	9	522	South China	Sahoo et al., 2016, Geobiology	Outcrop	Niutitang Formation	Wuhe	151.6	0.09	0.41	0.10	0.63	1.22	1.30	0.94	0.51
524.6-510.8	9	520	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	9						3.43	0.59	0.36
524.6-510.8	9	520	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	7						3.11	0.53	0.37
524.6-510.8	9	521	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	5						2.71	0.68	0.32
524.6-510.8	9	521	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	4.5						3.34	0.55	0.21
524.6-510.8	9	521	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	4						1.16	0.29	0.12
524.6-510.8	9	521	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	3.5						1.64	0.48	0.03
524.6-510.8	9	521	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	3						1.47	0.73	0.02
524.6-510.8	9	521	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	2.5						4.86	0.59	0.87
524.6-510.8	9	522	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	2						5.79	0.62	0.87
524.6-510.8	9	522	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	1.7						6.13	0.59	0.89
524.6-510.8	9	522	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	1.5						4.42	0.84	0.89
524.6-510.8	9	522	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	1.2						3.69	0.90	0.69
524.6-510.8	9	522	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	0.9						2.47	0.94	0.80
524.6-510.8	9	522	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	0.7						5.93	0.64	0.89
524.6-510.8	9	522	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	0.5						5.82	0.68	0.91
524.6-510.8	9	522	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	0.4						4.46	0.54	0.84
524.6-510.8	9	522	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	0.3						3.26	0.65	0.55
524.6-510.8	9	522	South China	Wen et al., 2015, GCA	Outcrop	Niutitang Fm	Zunyi	0.1						4.40	0.87	0.63
524.6-510.8	9	521	South China	Chen et al., 2015, NC	Outcrop	Shuijingtuo	09Yanjiahe_new							3.36	0.47	0.29
524.6-510.8	9	521	South China	Chen et al., 2015, NC	Outcrop	Shuijingtuo	09Yanjiahe_new							3.52	0.67	0.50
524.6-510.8	9	521	South China	Chen et al., 2015, NC	Outcrop	Shuijingtuo	09Yanjiahe_new							1.03	0.73	0.57
524.6-510.8	9	519	South China	Chen et al., 2015, NC	Outcrop	Shuijingtuo	Jijiawan							3.01	0.34	0.33
524.6-510.8	9	520	South China	Chen et al., 2015, NC	Outcrop	Shuijingtuo	Jijiawan							3.05	0.42	0.30
524.6-510.8	9	521	South China	Chen et al., 2015, NC	Outcrop	Shuijingtuo	Jijiawan							3.03	0.32	0.34
524.6-510.8	9	521	South China	Chen et al., 2015, NC	Outcrop	Shuijingtuo	Jijiawan							1.18	0.47	0.45
524.6-510.8	9	521	South China	Chen et al., 2015, NC	Outcrop	Shuijingtuo	Jijiawan							3.34	0.45	0.19
524.6-510.8	9	521	South China	Chen et al., 2015, NC	Outcrop	Shuijingtuo	Jijiawan							3.82	0.61	0.50

524.6-510.8	9	524	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	156	0.20	0.43	0.05	1.48	2.16	2.91	0.74	0.69
524.6-510.8	9	523	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	159	0.20	0.62	0.15	1.55	2.52	4.01	0.63	0.62
524.6-510.8	9	521	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	164	0.25	0.66	0.09	0.78	1.78	3.52	0.51	0.44
524.6-510.8	9	521	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	167	0.30	0.80	0.08	0.42	1.60	2.68	0.60	0.26
524.6-510.8	9	521	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	172	0.07	0.75	0.02	0.12	0.96	2.01	0.48	0.13
524.6-510.8	9	520	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	174	0.22	0.56	0.24	0.31	1.33	3.25	0.41	0.23
524.6-510.8	9	520	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	178	0.05	0.22	0.01	0.12	0.40	1.02	0.39	0.30
524.6-510.8	9	520	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	184	0.17	0.62	0.02	0.04	0.85	1.37	0.62	0.05
524.6-510.8	9	519	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	192	0.27	1.11	0.04	0.61	2.03	2.52	0.81	0.30
524.6-510.8	9	519	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	197	1.68	0.38	0.01	0.14	2.21	3.14	0.70	0.06
524.6-510.8	9	519	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	205	0.25	1.01	0.03	0.31	1.60	2.27	0.70	0.19
524.6-510.8	9	518	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	218	0.23	0.24	0.02	0.15	0.64	1.02	0.63	0.23
524.6-510.8	9	517	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	238	0.26	0.85	0.10	0.15	1.36	1.96	0.69	0.11
524.6-510.8	9	517	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	244	0.35	0.57	0.05	0.19	1.16	1.63	0.71	0.16
524.6-510.8	9	516	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	253	0.47	0.66	0.03	2.89	4.05	4.68	0.87	0.71
524.6-510.8	9	516	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	260	0.11	0.45	0.01	0.28	0.85	1.23	0.69	0.33
524.6-510.8	9	515	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	265	1.23	0.20	0.02	0.64	2.09	3.34	0.63	0.31
524.6-510.8	9	515	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	274	0.24	0.41	0.02	0.66	1.33	2.47	0.54	0.50
524.6-510.8	9	515	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	282	0.83	0.21	0.04	0.74	1.82	3.92	0.46	0.41
524.6-510.8	9	515	South China	Yuan et al., 2014, CSB	Outcrop	Hetang	Diben	292	0.76	0.33	0.08	0.59	1.76	4.37	0.40	0.34
524.6-510.8	9	524	South China	Och et al., 2016, Sedimentology	Outcrop	Shuijingtuo	Jiuqunao	1.85	0.52	0.17	0.00	1.41	2.11	2.28	0.92	0.67
524.6-510.8	9	524	South China	Och et al., 2016, Sedimentology	Outcrop	Shuijingtuo	Jiuqunao	2.45	0.54	0.11	0.00	0.82	1.48	1.61	0.92	0.56
524.6-510.8	9	523	South China	Och et al., 2016, Sedimentology	Outcrop	Shuijingtuo	Jiuqunao	3	1.25	0.11	0.03	2.00	3.39	3.51	0.97	0.59
524.6-510.8	9	520	South China	Och et al., 2016, Sedimentology	Outcrop	Shuijingtuo	Jiuqunao	6.7	0.61	0.14	0.01	2.19	2.95	2.95	1.00	0.74
524.6-510.8	9	519	South China	Och et al., 2016, Sedimentology	Outcrop	Shuijingtuo	Jiuqunao	9.2	0.67	0.02	0.01	1.94	2.63	2.51	1.00	0.74
524.6-510.8	9	518	South China	Och et al., 2016, Sedimentology	Outcrop	Shuijingtuo	Jiuqunao	11.2	0.81	0.04	0.00	2.62	3.47	3.49	0.99	0.75
524.6-510.8	9	515	South China	Och et al., 2016, Sedimentology	Outcrop	Shuijingtuo	Jiuqunao	16.2	0.70	0.09	0.00	1.71	2.50	2.51	1.00	0.68
524.6-510.8	9	515	South China	Och et al., 2016, Sedimentology	Outcrop	Shuijingtuo	Jiuqunao	18.2	0.69	0.01	0.01	1.72	2.43	2.45	0.99	0.71
524.6-510.8	9	515	South China	Och et al., 2016, Sedimentology	Outcrop	Shuijingtuo	Jiuqunao	18.7	0.63	0.25	0.00	1.33	2.21	2.25	0.98	0.60
524.6-510.8	9	515	South China	Jin et al., EPSL	Outcrop	Mingxinsi	Jinsha	394	0.04	1.09	0.37	0.00	1.50	4.19	0.36	0.00
524.6-510.8	9	515	South China	Jin et al., EPSL	Outcrop	Mingxinsi	Jinsha	391	0.04	0.86	0.29	0.00	1.19	4.88	0.24	0.00
524.6-510.8	9	515	South China	Jin et al., EPSL	Outcrop	Mingxinsi	Jinsha	389	0.04	0.70	0.27	0.00	1.01	4.39	0.23	0.00
524.6-510.8	9	515	South China	Jin et al., EPSL	Outcrop	Mingxinsi	Jinsha	369	0.23	0.03	0.03	0.17	0.46	1.24	0.37	0.37
524.6-510.8	9	515	South China	Jin et al., EPSL	Outcrop	Mingxinsi	Jinsha	347	0.14	0.30	0.06	0.00	0.50	1.49	0.34	0.00
524.6-510.8	9	515	South China	Jin et al., EPSL	Outcrop	Mingxinsi	Jinsha	339	0.03	1.10	0.40	0.00	1.53	4.49	0.34	0.00
524.6-510.8	9	515	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	329	0.04	1.30	0.37	0.00	1.71	5.22	0.33	0.00
524.6-510.8	9	515	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	319	0.04	1.15	0.26	0.00	1.45	5.24	0.28	0.00
524.6-510.8	9	515	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	313	0.07	0.85	0.31	0.00	1.23	5.31	0.23	0.00
524.6-510.8	9	516	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	290	0.02	1.11	0.43	0.00	1.56	5.54	0.28	0.00
524.6-510.8	9	516	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	278	0.11	0.29	0.23	0.00	0.63	4.77	0.13	0.00
524.6-510.8	9	516	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	267	0.04	1.05	0.41	0.00	1.50	5.46	0.27	0.00
524.6-510.8	9	516	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	262	0.04	1.05	0.37	0.00	1.46	5.72	0.26	0.00
524.6-510.8	9	517	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	239	0.03	0.94	0.43	0.00	1.40	4.57	0.31	0.00
524.6-510.8	9	517	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	234	0.06	0.86	0.29	0.00	1.21	4.90	0.25	0.00
524.6-510.8	9	517	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	224	0.12	0.20	0.17	0.00	0.49	5.10	0.10	0.00
524.6-510.8	9	517	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	214	0.14	0.13	0.19	0.00	0.46	5.26	0.09	0.00
524.6-510.8	9	517	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	204	0.09	0.14	0.13	0.00	0.36	4.64	0.08	0.00
524.6-510.8	9	518	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	196	0.06	0.71	0.24	0.00	1.01	4.94	0.20	0.00
524.6-510.8	9	518	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	184	0.03	0.81	0.40	0.00	1.24	5.14	0.24	0.00
524.6-510.8	9	518	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	169	0.06	1.08	0.29	0.00	1.43	4.48	0.32	0.00
524.6-510.8	9	518	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	146	0.17	0.07	0.09	0.18	0.51	4.84	0.11	0.35
524.6-510.8	9	519	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	134	0.03	1.28	0.38	0.00	1.69	4.96	0.34	0.00
524.6-510.8	9	519	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	133	0.03	1.39	0.38	0.00	1.80	4.97	0.36	0.00
524.6-510.8	9	519	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	121	0.04	1.54	0.48	0.00	2.06	4.85	0.42	0.00
524.6-510.8	9	519	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	115	0.02	1.24	0.48	0.00	1.74	4.83	0.36	0.00
524.6-510.8	9	519	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	103	0.03	1.44	0.24	0.00	1.71	5.03	0.34	0.00
524.6-510.8	9	520	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	86	0.04	1.49	0.38	0.00	1.91	4.83	0.40	0.00
524.6-510.8	9	520	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	75	0.03	1.32	0.48	0.00	1.83	5.05	0.36	0.00
524.6-510.8	9	520	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	65	0.12	0.76	0.23	0.00	1.11	4.65	0.24	0.00
524.6-510.8	9	520	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	60	0.05	1.03	0.23	0.00	1.31	4.81	0.27	0.00
524.6-510.8	9	520	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	53	0.04	1.71	0.60	0.00	2.35	4.88	0.48	0.00
524.6-510.8	9	520	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	42	0.05	1.31	0.30	0.00	1.66	4.90	0.34	0.00
524.6-510.8	9	520	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	40	0.42	1.02	0.28	0.00	1.72	3.94	0.44	0.00
524.6-510.8	9	520	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	35	0.05	0.47	0.35	0.00	0.87	2.76	0.32	0.00
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	32	0.02	0.66	0.09	0.00	0.77	1.59	0.48	0.00
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	28	0.02	1.08	0.08	0.00	1.18	1.37	0.86	0.00
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	26	0.09	0.61	0.22	0.00	0.92	2.57	0.36	0.00
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	24	0.02	0.47	0.04	0.04	0.57	1.15	0.50	0.07

524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	19	0.10	0.72	0.10	0.00	0.92	2.27	0.41	0.00
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	18	0.08	0.58	0.11	0.00	0.77	2.41	0.32	0.00
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	17	0.04	0.31	0.02	0.00	0.37	1.02	0.36	0.00
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	16	0.08	0.74	0.05	0.02	0.89	1.62	0.55	0.02
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	11	0.04	0.62	0.05	0.00	0.71	1.59	0.45	0.00
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	10	0.06	0.57	0.04	0.00	0.67	1.66	0.40	0.00
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	9	0.60	0.54	0.01	0.32	1.47	1.99	0.74	0.22
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	8	0.03	0.35	0.02	0.00	0.40	1.10	0.36	0.00
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	5	0.41	0.53	0.01	2.03	2.98	3.08	0.97	0.68
524.6-510.8	9	523	South China	Jin et al., EPSL	Outcrop	Niutitang	Jinsha	1	0.23	0.53	0.02	0.83	1.61	1.93	0.83	0.52
524.6-510.8	9	515	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	174	0.11	0.05	0.03	1.12	1.31	3.44	0.38	0.85
524.6-510.8	9	516	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	133	0.28	0.04	0.01	0.26	0.59	1.18	0.50	0.44
524.6-510.8	9	516	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	130	0.40	0.05	0.03	0.76	1.24	2.59	0.48	0.61
524.6-510.8	9	516	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	128	0.30	0.03	0.02	0.28	0.63	1.09	0.58	0.44
524.6-510.8	9	516	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	126	0.23	0.03	0.01	0.45	0.72	1.24	0.58	0.63
524.6-510.8	9	517	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	116	0.13	0.05	0.05	1.08	1.31	4.21	0.31	0.82
524.6-510.8	9	517	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	114	0.49	0.08	0.06	1.02	1.65	4.60	0.36	0.62
524.6-510.8	9	517	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	109	0.17	0.11	0.04	1.09	1.41	4.54	0.31	0.77
524.6-510.8	9	517	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	96	0.18	0.06	0.06	0.94	1.24	4.28	0.29	0.76
524.6-510.8	9	518	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	89	0.02	0.97	0.13	0.00	1.12	2.88	0.39	0.00
524.6-510.8	9	518	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	82	0.16	0.71	0.07	0.50	1.44	2.75	0.52	0.35
524.6-510.8	9	518	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	74	0.26	0.86	0.12	1.21	2.45	2.81	0.87	0.49
524.6-510.8	9	519	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	62	0.43	0.31	0.01	3.24	3.99	3.73	1.00	0.81
524.6-510.8	9	519	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	56	0.14	0.31	0.02	0.26	0.73	1.28	0.57	0.36
524.6-510.8	9	519	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	48	0.23	0.65	0.13	0.83	1.84	3.22	0.57	0.45
524.6-510.8	9	519	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	44	0.66	0.81	0.08	1.76	3.31	4.23	0.78	0.53
524.6-510.8	9	520	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	37	0.14	0.49	0.05	0.28	0.96	1.32	0.73	0.29
524.6-510.8	9	520	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	27	0.27	0.32	0.01	0.19	0.79	1.23	0.64	0.24
524.6-510.8	9	520	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	21	0.15	0.23	0.05	1.39	1.82	2.28	0.80	0.76
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	16	0.20	0.79	0.08	1.50	2.57	3.10	0.83	0.58
524.6-510.8	9	521	South China	Jin et al., EPSL	Outcrop	Niutitang	Weng'an	10	0.04	1.14	0.27	0.01	1.46	1.97	0.74	0.01
524.6-510.8	9	515	South China	Canfield et al., 2008, Science		above Niutitang			0.52	0.80	0.09	1.42	2.83	3.32	0.85	0.50
524.6-510.8	9	515	South China	Canfield et al., 2008, Science		above Niutitang			0.66	0.14	0.02	1.20	2.02	2.55	0.79	0.59
524.6-510.8	9	515	South China	Canfield et al., 2008, Science		Niutitang(Xiaosi member)			0.32	0.08	0.01	1.16	1.58	1.92	0.82	0.74
524.6-510.8	9	515	South China	Canfield et al., 2008, Science		Niutitang(Xiaosi member)			0.22	1.75	0.06	0.01	2.04	2.52	0.81	0.01
524.6-510.8	9	515	South China	Canfield et al., 2008, Science		Niutitang(Xiaosi member)			0.26	0.01	0.02	0.63	0.91	2.50	0.37	0.69
524.6-510.8	9	515	South China	Canfield et al., 2008, Science		Niutitang(Xiaosi member)			0.44	0.35	0.02	0.43	1.23	1.50	0.82	0.35
524.6-510.8	9	515	South China	Canfield et al., 2008, Science		Niutitang(Xiaosi member)			0.41	0.03	0.04	1.36	1.84	3.09	0.60	0.74
524.6-510.8	9	516	South China	Canfield et al., 2008, Science		Niutitang(Xiaosi member)			0.82	0.01	0.01	0.53	1.37	1.81	0.75	0.39
524.6-510.8	9	516	South China	Canfield et al., 2008, Science		Niutitang(Xiaosi member)			0.48	0.50	0.05	0.52	1.54	2.38	0.65	0.34
524.6-510.8	9	516	South China	Canfield et al., 2008, Science		Niutitang(Xiaosi member)			0.58	0.90	0.06	0.34	1.88	2.76	0.68	0.18
524.6-510.8	9	516	South China	Canfield et al., 2008, Science		Niutitang(Xiaosi member)			0.50	0.20	0.09	0.62	1.41	2.77	0.51	0.44
524.6-510.8	9	518	South China	Canfield et al., 2008, Science		Niutitang			0.10	0.14	0.00	1.18	1.42	2.42	0.59	0.83
524.6-510.8	9	518	South China	Canfield et al., 2008, Science		Niutitang			0.85	0.05	0.01	2.73	3.64	3.72	0.98	0.75
524.6-510.8	9	519	South China	Canfield et al., 2008, Science		Niutitang			1.33	0.05	0.01	1.65	3.04	3.30	0.92	0.54
524.6-510.8	9	519	South China	Canfield et al., 2008, Science		Niutitang			0.46	0.04	0.00	0.82	1.32	1.44	0.91	0.62
524.6-510.8	9	520	South China	Canfield et al., 2008, Science		Niutitang			0.92	0.06	0.00	1.21	2.21	2.26	0.98	0.55
524.6-510.8	9	521	South China	Canfield et al., 2008, Science		Niutitang			1.10	0.06	0.00	1.76	2.92	3.01	0.97	0.60
524.6-510.8	9	521	South China	Canfield et al., 2008, Science		Niutitang			0.11	0.04	0.02	1.68	1.85	3.44	0.54	0.91
524.6-510.8	9	521	South China	Canfield et al., 2008, Science		Niutitang			0.89	0.03	0.01	1.95	2.88	4.27	0.67	0.68
524.6-510.8	9	522	South China	Canfield et al., 2008, Science		Niutitang			0.08	0.05	0.13	2.34	2.60	3.64	0.71	0.90
524.6-510.8	9	522	South China	Canfield et al., 2008, Science		Niutitang			0.89	0.03	0.01	2.04	2.96	3.07	0.96	0.69
524.6-510.8	9	522	South China	Canfield et al., 2008, Science		Niutitang			0.65	0.01	0.00	2.07	2.73	3.16	0.86	0.76
524.6-510.8	9	523	South China	Canfield et al., 2008, Science		Niutitang			0.30	0.01	0.01	1.38	1.69	2.40	0.71	0.81
524.6-510.8	9	523	South China	Canfield et al., 2008, Science		Niutitang			0.13	0.20	0.16	1.95	2.43	3.22	0.75	0.80
524.6-510.8	9	523	South China	Canfield et al., 2008, Science		Niutitang			0.22	0.06	0.00	1.58	1.87	2.71	0.69	0.85
524.6-510.8	9	515	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB46	0.00	1.10	0.40	0.00	1.50	3.20	0.47	0.01
524.6-510.8	9	515	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB45	0.00	0.20	0.10	0.40	0.80	2.70	0.29	0.53
524.6-510.8	9	515	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB44	0.00	0.40	0.30	0.00	0.70	2.20	0.32	0.01
524.6-510.8	9	515	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB43	0.00	0.20	0.20	0.00	0.50	1.80	0.26	0.04
524.6-510.8	9	515	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB42	0.00	0.10	0.10	1.00	1.30	3.90	0.32	0.80
524.6-510.8	9	516	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB41	0.00	0.20	0.10	1.00	1.30	4.00	0.32	0.77
524.6-510.8	9	516	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB40	0.00	0.10	0.20	0.60	0.80	2.60	0.32	0.73
524.6-510.8	9	517	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB38	0.00	0.00	0.10	1.00	1.10	2.80	0.39	0.88
524.6-510.8	9	517	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB37	0.00	0.10	0.10	0.10	0.30	2.40	0.14	0.24
524.6-510.8	9	517	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB36	0.00	0.40	0.20	0.00	0.70	1.20	0.54	0.03
524.6-510.8	9	518	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB35	0.00	0.40	0.20	0.20	0.70	1.50	0.48	0.26
524.6-510.8	9	518	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB34	0.00	0.70	0.40	0.00	1.20	3.10	0.38	0.02

524.6-510.8	9	518	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB33	0.00	0.10	0.10	1.10	1.30	4.10	0.32	0.85
524.6-510.8	9	518	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB32	0.00	0.20	0.10	0.90	1.20	3.80	0.33	0.75
524.6-510.8	9	519	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB31	0.00	0.40	0.10	1.00	1.50	3.20	0.48	0.67
524.6-510.8	9	519	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB30	0.00	0.20	0.10	0.80	1.20	2.60	0.44	0.73
524.6-510.8	9	519	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB29	0.00	0.30	0.10	0.40	0.80	2.50	0.33	0.48
524.6-510.8	9	520	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB28	0.00	0.00	0.10	0.50	0.60	2.50	0.26	0.80
524.6-510.8	9	520	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB27	0.00	0.20	0.10	0.60	0.90	2.50	0.36	0.67
524.6-510.8	9	520	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB26	0.00	0.40	0.10	0.80	1.40	3.20	0.43	0.59
524.6-510.8	9	520	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB25	0.00	0.10	0.10	0.00	0.20	2.00	0.10	0.00
524.6-510.8	9	521	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB24	0.00	0.00	0.10	0.00	0.10	1.30	0.09	0.00
524.6-510.8	9	521	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB23	0.00	0.10	0.10	0.00	0.20	1.40	0.18	0.00
524.6-510.8	9	521	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB22	0.00	0.30	0.10	0.90	1.20	2.40	0.51	0.71
524.6-510.8	9	522	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB21	0.00	0.20	0.00	0.90	1.10	2.00	0.56	0.77
524.6-510.8	9	523	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB18	0.00	1.30	0.20	0.00	1.50	1.80	0.88	0.01
524.6-510.8	9	523	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB17	0.00	0.00	0.00	1.10	1.10	1.50	0.74	0.97
524.6-510.8	9	523	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB16	0.00	0.20	0.00	0.90	1.10	1.40	0.80	0.83
524.6-510.8	9	523	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB15	0.00	0.40	0.00	1.40	1.80	2.00	0.91	0.78
524.6-510.8	9	524	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB14	0.00	0.90	0.10	1.70	2.70	3.30	0.84	0.63
524.6-510.8	9	524	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB13	0.00	0.70	0.00	1.70	2.40	2.70	0.87	0.71
524.6-510.8	9	524	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB12	0.00	1.10	0.10	1.30	2.50	2.70	0.90	0.53
524.6-510.8	9	524	South China	Feng et al., 2014, PR	Outcrop	Niutitang	Yangjiaping	YB11	0.00	1.50	0.10	2.50	4.10	4.40	0.93	0.60
524.6-510.8	9	515	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-103	0.09	0.56	0.07	0.85	1.57	4.66	0.34	0.54
524.6-510.8	9	516	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-99	0.01	0.53	0.01	0.01	0.54	1.02	0.53	0.01
524.6-510.8	9	518	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-98	0.01	1.02	0.02	0.37	1.40	1.41	0.99	0.26
524.6-510.8	9	518	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-94	0.65	1.41	0.11	0.58	2.74	2.73	1.00	0.21
524.6-510.8	9	518	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-93	0.66	1.08	0.11	1.25	3.10	2.84	1.00	0.40
524.6-510.8	9	519	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-91	0.08	0.70	0.03	0.25	1.06	1.21	0.88	0.23
524.6-510.8	9	519	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-89	0.89	1.86	0.12	0.70	3.57	2.53	1.00	0.20
524.6-510.8	9	519	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-82	0.13	0.55	0.05	1.57	2.29	3.00	0.76	0.69
524.6-510.8	9	520	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-78	0.08	0.76	0.06	1.29	2.19	2.25	0.98	0.59
524.6-510.8	9	520	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-75	0.04	0.84	0.06	0.96	1.89	1.62	1.00	0.51
524.6-510.8	9	520	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-73	0.01	0.65	0.03	0.77	1.47	1.51	0.97	0.52
524.6-510.8	9	521	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-71	0.42	1.36	0.11	1.19	3.08	2.72	1.00	0.39
524.6-510.8	9	521	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-69	0.16	1.07	0.11	0.55	1.89	2.95	0.64	0.29
524.6-510.8	9	521	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-67	0.39	1.84	0.12	1.39	3.74	3.40	1.00	0.37
524.6-510.8	9	522	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-63	0.09	0.32	0.04	2.74	3.18	2.81	1.00	0.86
524.6-510.8	9	522	South China	Wang et al., 2012, CG	Outcrop	Niutitang	Longbizui	LBZ-57	0.02	0.44	0.01	1.85	2.40	2.93	0.79	0.80
524.6-510.8	9	518	South China	Chen et al., 2015, NC	Outcrop	Niutitang	Longbizui	91.7						2.62	0.99	0.69
524.6-510.8	9	519	South China	Chen et al., 2015, NC	Outcrop	Niutitang	Longbizui	85.7						3.72	0.98	0.79
524.6-510.8	9	520	South China	Chen et al., 2015, NC	Outcrop	Niutitang	Longbizui	77.7						2.43	0.81	0.66
524.6-510.8	9	520	South China	Chen et al., 2015, NC	Outcrop	Niutitang	Longbizui	71.7						2.60	0.57	0.73
524.6-510.8	9	521	South China	Chen et al., 2015, NC	Outcrop	Niutitang	Longbizui	64.7						3.18	1.00	0.80
524.6-510.8	9	520	South China	Och et al., 2016, Sedimentology	Outcrop	Niutitang	Longbizui	57	0.27	0.01	0.00	1.16	1.44	1.74	0.83	0.81
524.6-510.8	9	519	South China	Och et al., 2016, Sedimentology	Outcrop	Niutitang	Longbizui	65	0.53	0.12	0.01	2.61	3.27	3.16	1.00	0.80
524.6-510.8	9	517	South China	Och et al., 2016, Sedimentology	Outcrop	Niutitang	Longbizui	72	0.33	0.07	0.00	1.09	1.49	2.36	0.63	0.73
524.6-510.8	9	516	South China	Och et al., 2016, Sedimentology	Outcrop	Niutitang	Longbizui	78	0.39	0.27	0.00	1.30	1.96	1.85	1.00	0.66
524.6-510.8	9	515	South China	Och et al., 2016, Sedimentology	Outcrop	Niutitang	Longbizui	86	0.67	0.10	0.01	2.89	3.66	3.59	1.00	0.79
524.6-510.8	9	515	South China	Och et al., 2016, Sedimentology	Outcrop	Niutitang	Longbizui	92	0.49	0.33	0.00	1.78	2.60	2.62	0.99	0.69
524.6-510.8	9	522	South China	Och et al., 2016, Sedimentology	Outcrop	Shuijingtuo	Jijiaapo	54	1.11	0.03	0.02	1.18	2.35	3.52	0.67	0.50
524.6-510.8	9	522	South China	Och et al., 2016, Sedimentology	Outcrop	Shuijingtuo	Jijiaapo	55	1.08	0.05	0.02	0.57	1.72	2.59	0.66	0.33
524.6-510.8	9	511	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	86.5	0.20	0.24	0.01	1.68	2.13	2.32	0.92	0.79
524.6-510.8	9	511	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	82.2	0.22	0.13	0.00	1.53	1.88	3.10	0.61	0.81
524.6-510.8	9	512	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	78	0.22	0.16	0.00	2.45	2.83	3.08	0.92	0.87
524.6-510.8	9	512	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	74.2	0.28	0.40	0.01	1.68	2.37	2.83	0.84	0.71
524.6-510.8	9	513	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	69.5	0.27	0.36	0.00	1.44	2.07	2.96	0.70	0.70
524.6-510.8	9	514	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	65	0.22	0.09	0.00	2.13	2.44	2.76	0.88	0.87
524.6-510.8	9	514	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	61.3	0.23	0.24	0.00	2.01	2.48	2.56	0.97	0.81
524.6-510.8	9	514	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	58.6	0.25	0.24	0.00	1.68	2.17	3.02	0.72	0.77
524.6-510.8	9	515	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	55	0.27	0.37	0.00	1.23	1.87	2.74	0.68	0.66
524.6-510.8	9	515	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	52.5	0.21	0.47	0.00	0.89	1.57	1.98	0.79	0.57
524.6-510.8	9	516	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	50.6	0.25	0.50	0.02	1.60	2.37	2.62	0.90	0.68
524.6-510.8	9	516	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	47	0.37	0.47	0.03	0.30	1.18	1.28	0.92	0.26
524.6-510.8	9	517	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	43.2	0.09	0.21	0.03	0.06	0.40	1.01	0.39	0.15
524.6-510.8	9	517	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	42	0.22	0.89	0.06	0.82	1.99	4.43	0.45	0.41
524.6-510.8	9	517	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	40.5	0.14	0.86	0.04	2.10	3.14	6.72	0.47	0.67
524.6-510.8	9	517	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	39	0.18	1.54	0.15	0.27	2.14	4.63	0.46	0.13
524.6-510.8	9	517	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	37	0.17	0.33	0.04	1.41	1.96	4.03	0.49	0.72
524.6-510.8	9	518	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	35.5	0.18	1.78	0.04	1.31	3.31	3.70	0.90	0.40

524.6-510.8	9	518	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	34	0.15	1.40	0.02	1.08	2.66	6.10	0.44	0.41
524.6-510.8	9	518	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	32.5	0.19	0.52	0.06	1.59	2.36	3.79	0.62	0.68
524.6-510.8	9	518	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	31	0.12	0.62	0.04	1.70	2.47	5.67	0.44	0.69
524.6-510.8	9	518	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	29	0.13	1.19	0.07	1.73	3.11	5.58	0.56	0.56
524.6-510.8	9	519	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	27	0.15	1.61	0.06	0.34	2.15	2.47	0.87	0.16
524.6-510.8	9	519	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	25	0.11	0.62	0.03	1.57	2.34	4.08	0.57	0.67
524.6-510.8	9	519	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	21.5	0.28	1.00	0.05	1.17	2.50	4.77	0.52	0.47
524.6-510.8	9	520	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	19	0.21	0.76	0.04	2.57	3.58	5.23	0.68	0.72
524.6-510.8	9	520	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	17	0.15	0.78	0.06	1.50	2.49	4.61	0.54	0.60
524.6-510.8	9	520	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	14.8	0.23	1.00	0.05	0.46	1.74	1.81	0.96	0.27
524.6-510.8	9	521	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	12.2	0.12	0.37	0.04	1.66	2.20	4.97	0.44	0.76
524.6-510.8	9	521	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	10	0.24	1.21	0.04	0.82	2.31	2.52	0.92	0.35
524.6-510.8	9	516	South China	This study	Outcrop	Zhalagou	Zhalagou	69	0.12	1.28	0.18	0.96	2.54	3.59	0.71	0.38
524.6-510.8	9	516	South China	This study	Outcrop	Zhalagou	Zhalagou	42	0.46	0.41	0.01	1.07	1.95	2.37	0.82	0.55
524.6-510.8	9	516	South China	This study	Outcrop	Zhalagou	Zhalagou	40	0.67	0.77	0.01	1.57	3.02	3.43	0.88	0.52
524.6-510.8	9	517	South China	This study	Outcrop	Zhalagou	Zhalagou	38	0.73	0.78	0.02	1.41	2.94	3.23	0.91	0.48
524.6-510.8	9	517	South China	This study	Outcrop	Zhalagou	Zhalagou	37	0.32	0.23	0.02	0.39	0.96	1.13	0.85	0.41
524.6-510.8	9	517	South China	This study	Outcrop	Zhalagou	Zhalagou	35	0.32	0.06	0.00	0.91	1.29	1.35	0.96	0.71
524.6-510.8	9	518	South China	This study	Outcrop	Zhalagou	Zhalagou	26	0.88	0.11	0.01	1.72	2.72	3.44	0.79	0.63
524.6-510.8	9	518	South China	This study	Outcrop	Zhalagou	Zhalagou	24	0.52	0.61	0.02	1.74	2.89	2.97	0.97	0.60
524.6-510.8	9	519	South China	This study	Outcrop	Zhalagou	Zhalagou	22	0.40	0.52	0.02	0.83	1.77	1.83	0.97	0.47
524.6-510.8	9	521	South China	This study	Outcrop	Zhalagou	Zhalagou	8	0.15	0.50	0.05	0.82	1.52	1.68	0.91	0.54
524.6-510.8	9	521	South China	This study	Outcrop	Zhalagou	Zhalagou	5.7	0.21	0.15	0.02	0.86	1.24	1.33	0.93	0.69
524.6-510.8	9	521	South China	This study	Outcrop	Zhalagou	Zhalagou	3	0.46	0.39	0.01	0.85	1.71	1.82	0.94	0.50
510.8-497.0	10	510	South China	Cai et al., 2015, JGS	Outcrop	Duliujiang	Zhalagou	91.2	0.22	0.29	0.04	0.72	1.26	5.59	0.23	0.57
510.8-497.0	10	510	South China	Cai et al., 2015, JGS	Outcrop	Zhalagou	Zhalagou	89.8	0.41	0.51	0.03	1.11	2.06	2.21	0.93	0.54
510.8-497.0	10	510	South China	This study	Outcrop	Duliujiang	Zhalagou	109	0.03	1.50	0.60	0.00	2.13	4.61	0.46	0.00
510.8-497.0	10	510	South China	This study	Outcrop	Duliujiang	Zhalagou	107	0.63	0.08	0.10	0.63	1.44	4.27	0.34	0.44
510.8-497.0	10	510	South China	This study	Outcrop	Duliujiang	Zhalagou	101	0.10	0.95	0.38	0.00	1.43	4.74	0.30	0.00
510.8-497.0	10	510	South China	This study	Outcrop	Duliujiang	Zhalagou	93	0.03	1.15	0.12	0.00	1.30	3.22	0.40	0.00
510.8-497.0	10	510	South China	This study	Outcrop	Duliujiang	Zhalagou	89	0.03	1.02	0.48	0.00	1.53	4.03	0.38	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM30	0.63	0.48	0.11	0.00	1.22	2.77	0.44	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM310.5	0.35	0.02	0.05	0.18	0.59	4.14	0.14	0.30
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM313.5	0.61	0.02	0.07	0.05	0.75	3.42	0.22	0.07
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM315	0.63	0.02	0.05	0.04	0.75	4.01	0.19	0.05
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM319.5	0.84	0.03	0.11	0.07	1.04	3.61	0.29	0.07
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM321	0.88	0.03	0.08	0.07	1.06	4.18	0.25	0.06
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM322.5	0.75	0.04	0.15	0.11	1.05	4.48	0.24	0.10
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM324	0.43	0.12	0.09	0.01	0.65	3.68	0.18	0.02
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM325.5	0.95	0.03	0.10	0.13	1.21	3.27	0.37	0.11
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM327	0.52	0.03	0.05	0.06	0.66	3.89	0.17	0.09
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM328.5	0.57	0.03	0.05	0.06	0.70	3.92	0.18	0.08
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM330	0.50	0.05	0.04	0.07	0.66	3.23	0.20	0.11
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM331.5	0.76	0.07	0.09	0.02	0.94	2.82	0.33	0.02
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM334.5	0.54	0.05	0.05	0.01	0.65	2.83	0.23	0.02
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM336	0.58	0.12	0.06	0.01	0.77	2.71	0.28	0.02
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM337.5	0.44	0.06	0.04	0.04	0.58	2.68	0.22	0.06
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM339	0.73	0.06	0.06	0.04	0.90	2.53	0.35	0.05
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM34.5	1.40	0.07	0.13	0.06	1.65	4.95	0.33	0.03
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		DM39	0.13	0.20	0.05	0.01	0.40	5.04	0.08	0.03
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP10.5	0.44	0.28	0.11	0.00	0.83	2.87	0.29	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP100.5	0.34	0.11	0.02	0.02	0.49	3.50	0.14	0.04
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP102	0.74	0.05	0.02	0.04	0.84	2.42	0.35	0.04
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP103.5	1.13	0.25	0.01	0.00	1.38	2.36	0.59	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP105	0.47	0.07	0.01	0.01	0.57	3.20	0.18	0.03
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP106.5	1.06	0.11	0.02	0.01	1.20	2.18	0.55	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP108	0.88	0.15	0.01	0.00	1.05	2.59	0.41	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP109.5	1.19	0.26	0.01	0.01	1.46	2.24	0.65	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP111	0.80	0.16	0.04	0.01	1.00	3.05	0.33	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP112.5	0.68	0.21	0.02	0.01	0.93	2.84	0.33	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP114	0.68	0.17	0.02	0.01	0.88	2.15	0.41	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP115.5	0.80	0.15	0.03	0.01	0.98	1.83	0.54	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP117	0.43	0.27	0.02	0.00	0.72	1.91	0.38	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP118.5	0.37	0.23	0.05	0.00	0.65	2.00	0.32	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP12	0.38	0.72	0.02	0.01	1.13	3.09	0.37	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP120	0.55	0.25	0.03	0.01	0.84	2.42	0.35	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP121.5	0.63	0.15	0.01	0.06	0.87	2.45	0.35	0.07
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		MP123	0.56	0.13	0.01	0.04	0.74	1.97	0.38	0.05

510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP124.5	0.66	0.14	0.02	0.02	0.83	2.14	0.39	0.02
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP126	0.66	0.14	0.02	0.00	0.82	2.06	0.40	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP128	0.60	0.14	0.02	0.02	0.78	1.63	0.48	0.02
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP136.25	0.25	0.29	0.20	0.00	0.75	1.50	0.50	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP137	0.34	0.25	0.12	0.00	0.72	2.85	0.25	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP15	0.41	0.29	0.03	0.00	0.74	3.81	0.19	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP16.5	0.28	0.30	0.07	0.01	0.65	4.31	0.15	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP18	0.34	0.28	0.04	0.02	0.67	4.14	0.16	0.02
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP25.5	0.33	0.40	0.00	0.00	0.74	1.21	0.61	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP30	0.31	0.28	0.03	0.00	0.62	2.51	0.25	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP31.5	0.25	0.24	0.06	0.01	0.57	2.74	0.21	0.02
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP33	0.19	0.26	0.03	0.01	0.49	3.78	0.13	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP34.5	0.28	0.16	0.03	0.02	0.49	3.40	0.14	0.05
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP36	0.25	0.09	0.04	0.03	0.42	3.05	0.14	0.07
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP37.5	0.19	0.16	0.02	0.01	0.38	2.54	0.15	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP39	0.36	0.57	0.03	0.01	0.97	3.33	0.29	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP42	0.09	0.35	0.09	0.00	0.53	4.79	0.11	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP45	0.21	0.22	0.04	0.02	0.49	4.76	0.10	0.04
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP46.5	0.32	0.12	0.07	0.06	0.57	4.17	0.14	0.10
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP50.25	0.18	0.23	0.03	0.00	0.44	3.21	0.14	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP51	0.55	0.13	0.02	0.01	0.70	2.26	0.31	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP52.5	0.60	0.20	0.01	0.00	0.81	2.07	0.39	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP55.5	0.57	0.22	0.04	0.00	0.83	2.68	0.31	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP57	0.59	0.14	0.03	0.00	0.75	2.83	0.27	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP58	0.40	0.13	0.02	0.00	0.55	1.79	0.31	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP6	0.04	0.60	0.05	0.00	0.69	4.28	0.16	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP62.5	0.27	0.21	0.02	0.00	0.51	2.89	0.18	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP64.5	0.56	0.12	0.02	0.00	0.70	2.28	0.31	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP65.5	0.55	0.04	0.01	0.03	0.63	1.79	0.35	0.05
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP67.5	0.45	0.12	0.01	0.00	0.59	1.82	0.32	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP69.5	0.72	0.12	0.02	0.00	0.87	2.23	0.39	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP71.75	0.46	0.15	0.03	0.00	0.64	2.72	0.24	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP76.5	1.77	0.10	0.01	0.01	1.89	3.06	0.62	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP78	1.01	0.16	0.01	0.00	1.19	3.06	0.39	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP79.5	0.60	0.15	0.03	0.01	0.78	2.24	0.35	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP81	0.82	0.16	0.01	0.01	0.99	2.51	0.40	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP82.5	0.51	0.12	0.03	0.01	0.66	2.80	0.24	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP84	1.29	0.13	0.02	0.01	1.45	2.10	0.69	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP87	0.37	0.18	0.03	0.00	0.58	3.02	0.19	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP88.5	0.90	0.13	0.03	0.01	1.06	2.94	0.36	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP90	1.11	0.10	0.02	0.01	1.23	3.22	0.38	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP91.5	1.12	0.07	0.02	0.01	1.21	2.33	0.52	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP95.25	1.07	0.14	0.02	0.00	1.24	2.53	0.49	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	MP99	0.18	0.25	0.04	0.00	0.47	2.46	0.19	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ0	0.35	0.11	0.00	0.00	0.46	1.30	0.36	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ0.25	0.21	0.22	0.13	0.01	0.57	1.90	0.30	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ1	0.31	0.11	0.02	0.00	0.43	1.81	0.24	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ1.75	0.21	0.13	0.03	0.00	0.37	1.96	0.19	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ11.5	0.33	0.12	0.01	0.00	0.47	1.62	0.29	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ15	0.22	0.22	0.09	0.00	0.53	2.16	0.25	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ16	0.22	0.16	0.01	0.00	0.39	1.62	0.24	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ25.5	0.18	0.20	0.03	0.01	0.41	1.98	0.21	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ25.75	0.92	0.11	0.06	0.00	1.10	1.91	0.57	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ26	0.51	0.21	0.04	0.00	0.77	1.86	0.41	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ28.5	0.69	0.16	0.15	0.00	1.01	1.73	0.58	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ30	1.28	0.28	0.03	0.01	1.60	1.60	1.00	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ30.5	0.37	0.20	0.04	0.00	0.62	1.87	0.33	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ31.75	0.27	0.16	0.05	0.00	0.49	1.67	0.29	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ33.25	0.73	0.25	0.04	0.00	1.03	1.53	0.67	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ35	0.64	0.14	0.03	0.00	0.81	1.66	0.49	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ37.25	0.59	0.15	0.06	0.01	0.81	1.45	0.56	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ39.25	0.36	0.29	0.02	0.00	0.67	1.37	0.49	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ42.5	0.69	0.18	0.09	0.01	0.97	1.81	0.53	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ44	0.57	0.23	0.08	0.00	0.89	1.36	0.65	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ45.5	0.32	0.31	0.02	0.01	0.65	1.53	0.43	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ50	0.22	0.35	0.02	0.00	0.60	1.51	0.40	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ52	0.19	0.27	0.06	0.00	0.52	1.85	0.28	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler	SQ6	0.33	0.15	0.04	0.00	0.52	2.16	0.24	0.00

510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		SQ6.25	0.20	0.16	0.04	0.00	0.41	2.08	0.20	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		SQ7.5	0.37	0.04	0.02	0.03	0.46	1.86	0.25	0.06
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		SQ8.5	0.44	0.14	0.03	0.00	0.62	2.29	0.27	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		SQ9	0.26	0.18	0.01	0.00	0.46	1.94	0.24	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		SQ9.5	0.40	0.17	0.03	0.00	0.61	1.78	0.34	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ0	0.20	0.04	0.04	0.03	0.31	3.52	0.09	0.09
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ0	0.25	0.06	0.04	0.04	0.39	3.58	0.11	0.11
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ1	0.27	0.08	0.06	0.02	0.44	3.79	0.12	0.05
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ1.5	0.31	0.06	0.07	0.03	0.47	3.91	0.12	0.07
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ10	0.17	0.15	0.05	0.00	0.38	3.58	0.10	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ11	0.16	0.18	0.08	0.00	0.41	3.19	0.13	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ11	0.42	0.09	0.02	0.08	0.61	2.28	0.27	0.13
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ11-pyrite	0.41	0.09	0.04	0.20	0.75	1.94	0.38	0.27
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ12	0.13	0.11	0.07	0.00	0.31	3.82	0.08	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ13	0.16	0.12	0.07	0.00	0.35	3.49	0.10	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ15	0.15	0.18	0.06	0.01	0.41	4.33	0.09	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ18	0.13	0.17	0.09	0.00	0.40	3.72	0.11	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ19.5	0.17	0.20	0.07	0.00	0.44	3.15	0.14	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ2	1.21	0.10	0.02	0.00	1.33	3.34	0.40	0.00
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ22.5	0.19	0.21	0.07	0.01	0.48	2.96	0.16	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ24	0.32	0.15	0.04	0.02	0.54	2.72	0.20	0.04
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ25.5	0.28	0.03	0.02	0.04	0.36	2.28	0.16	0.10
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ28	0.24	0.07	0.18	0.01	0.49	1.76	0.28	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ3	0.24	0.10	0.05	0.01	0.40	3.36	0.12	0.02
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ4	0.94	0.11	0.11	0.02	1.17	3.45	0.34	0.02
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ5	0.16	0.13	0.08	0.01	0.38	3.04	0.13	0.02
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ6	0.11	0.14	0.06	0.01	0.32	3.72	0.08	0.02
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ6	0.25	0.14	0.00	0.00	0.39	1.18	0.33	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ7	0.14	0.16	0.07	0.00	0.37	3.69	0.10	0.01
510.8-497.0	10	502	House Embayment	Sperling et al., 2015, Nature	Outcrop	Wheeler		UDQ8	0.14	0.17	0.10	0.00	0.42	3.18	0.13	0.01
510.8-497.0	10	508	Georgina Basin	Creveling et al., 2014, GSAB	Core	Thorntonia Formation	LACF	571.26	0.28	0.06	0.00	0.80	1.14	1.41	0.81	0.70
510.8-497.0	10	507	Georgina Basin	Creveling et al., 2014, GSAB	Core	Thorntonia Formation	LACF	565.72	0.48	0.03	0.02	0.89	1.42	1.47	0.97	0.63
510.8-497.0	10	506	Georgina Basin	Creveling et al., 2014, GSAB	Core	Thorntonia Formation	LACF	563.63	0.43	0.10	0.01	0.74	1.29	1.49	0.86	0.58
510.8-497.0	10	504	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	554	0.64	0.02	0.03	1.19	1.88	2.01	0.94	0.63
510.8-497.0	10	504	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	553	0.60	0.02	0.04	0.81	1.46	1.91	0.76	0.55
510.8-497.0	10	504	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	550.1	0.45	0.02	0.03	1.00	1.50	2.68	0.56	0.67
510.8-497.0	10	504	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	545.75	0.57	0.02	0.04	1.08	1.71	2.59	0.66	0.63
510.8-497.0	10	504	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	532.2	0.38	0.02	0.02	0.51	0.92	1.82	0.51	0.55
510.8-497.0	10	503	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	523.3	0.34	0.02	0.03	0.60	1.00	2.05	0.49	0.60
510.8-497.0	10	503	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	517.91	0.39	0.02	0.02	0.56	0.99	1.57	0.63	0.56
510.8-497.0	10	503	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	514.12	0.29	0.01	0.02	0.36	0.68	1.11	0.61	0.53
510.8-497.0	10	503	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	511.1	0.43	0.02	0.02	0.78	1.26	1.84	0.68	0.62
510.8-497.0	10	503	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	505.32	0.32	0.02	0.03	0.61	0.97	2.04	0.48	0.63
510.8-497.0	10	502	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	500.5	0.30	0.02	0.03	0.26	0.62	1.29	0.48	0.43
510.8-497.0	10	502	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	496	0.33	0.02	0.03	0.37	0.75	1.42	0.53	0.50
510.8-497.0	10	502	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	492	0.29	0.02	0.03	0.33	0.66	1.54	0.43	0.50
510.8-497.0	10	502	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	487.5	0.35	0.02	0.03	0.32	0.72	1.49	0.49	0.44
510.8-497.0	10	502	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	484	0.39	0.03	0.04	0.61	1.07	2.16	0.49	0.58
510.8-497.0	10	502	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	480.5	0.28	0.02	0.03	0.39	0.71	1.52	0.47	0.54
510.8-497.0	10	502	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	476	0.28	0.02	0.04	0.91	1.25	1.81	0.69	0.73
510.8-497.0	10	501	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	471.55	0.29	0.02	0.04	0.52	0.87	2.01	0.44	0.60
510.8-497.0	10	501	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	469.01	0.31	0.02	0.03	0.26	0.62	1.52	0.41	0.43
510.8-497.0	10	501	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	464.5	0.28	0.02	0.04	0.28	0.62	1.85	0.33	0.45
510.8-497.0	10	501	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	460	0.28	0.02	0.04	0.31	0.65	1.83	0.35	0.47
510.8-497.0	10	501	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	455.48	0.25	0.03	0.04	0.47	0.79	2.22	0.35	0.60
510.8-497.0	10	501	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	451.6	0.40	0.01	0.03	0.67	1.12	1.82	0.61	0.60
510.8-497.0	10	501	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	449	0.28	0.02	0.03	0.43	0.76	1.86	0.41	0.57
510.8-497.0	10	500	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	443	0.28	0.02	0.03	0.31	0.64	1.46	0.44	0.49
510.8-497.0	10	500	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	440	0.22	0.02	0.03	0.29	0.56	1.68	0.34	0.51
510.8-497.0	10	500	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	435	0.36	0.02	0.04	0.32	0.73	1.55	0.47	0.44
510.8-497.0	10	500	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	431	0.29	0.02	0.03	0.33	0.66	1.57	0.42	0.50
510.8-497.0	10	500	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	430	0.33	0.01	0.02	0.31	0.68	1.50	0.45	0.46
510.8-497.0	10	500	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	423.03	0.34	0.03	0.05	0.06	0.48	1.70	0.28	0.12
510.8-497.0	10	499	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	409.05	0.45	0.03	0.04	0.21	0.72	1.91	0.38	0.29
510.8-497.0	10	499	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	405.02	0.24	0.02	0.04	0.25	0.56	1.79	0.31	0.45
510.8-497.0	10	499	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	401	0.38	0.02	0.03	0.27	0.70	1.61	0.44	0.38
510.8-497.0	10	499	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	393.02	0.36	0.02	0.04	0.06	0.48	1.38	0.34	0.13
510.8-497.0	10	498	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	388.95	0.22	0.03	0.04	0.32	0.61	1.95	0.31	0.52

510.8-497.0	10	498	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	385	0.27	0.02	0.04	0.28	0.61	1.82	0.34	0.46
510.8-497.0	10	498	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	379.01	0.25	0.02	0.05	0.26	0.58	2.11	0.27	0.45
510.8-497.0	10	498	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	368.99	0.23	0.02	0.03	0.51	0.79	1.65	0.50	0.60
510.8-497.0	10	498	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	365.05	0.36	0.02	0.05	0.17	0.61	1.66	0.40	0.30
510.8-497.0	10	497	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	360	0.22	0.02	0.05	0.19	0.48	1.67	0.30	0.40
510.8-497.0	10	497	Georgina Basin	Creveling et al., 2014, GSAB	Core	Arthur Creek Formation	LACF	356	0.17	0.02	0.03	0.13	0.34	1.07	0.30	0.40