16. DATA REPORT: TRACE ELEMENT GEOCHEMISTRY OF CENOZOIC COOL-WATER CARBONATES, SITES 1126–1132, GREAT AUSTRALIAN BIGHT¹

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ABSTRACT

An intensive geochemical investigation was conducted on carbonate sediments recovered during Ocean Drilling Program Leg 182. Four trace elements in 635 sediment samples from Sites 1126–1132 on the Great Australian Bight were examined by atomic absorption spectrometry on the acid-soluble fraction. Downhole profiles of these elements exhibit complicated fluctuations throughout the late Eocene to Pleistocene, principally because of the variations in the acid-soluble fraction. The purpose of this study is to present initial results on the geochemical composition of Cenozoic cool-water carbonates as a basis for a future detailed investigation to determine the paleoenvironment of a carbonatedominated continental margin during the evolution of the Southern Ocean.

INTRODUCTION

This report provides the results of geochemical analyses performed on late Eocene to Pleistocene sediments recovered during Ocean Drilling Program (ODP) Leg 182 at Site 1128, Miocene to Pleistocene sediments at Sites 1126, 1130, and 1132, and Pliocene and Pleistocene sediments at Sites 1127, 1129, and 1131. The main objective of this report is to present geochemical profiles compared to mineralogical and biostratigraphic data. ¹Emmanuel, L., Robin, C., and Renard, M., 2002. Data report: Trace element geochemistry of Cenozoic cool-water carbonates, Sites 1126–1132, Great Australian Bight. *In* Hine, A.C., Feary, D.A., and Malone, M.J. (Eds.), *Proc. ODP, Sci. Results*, 182, 1–24 [Online]. Available from World Wide Web: <http://www-odp.tamu.edu/ publications/182_SR/VOLUME/ CHAPTERS/008.PDF>. [Cited YYYY-MM-DD]

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Site 1128, in 3875 m of water at the toe of the slope, is the most distal of five sites along the western transect drilled into sediments from the upper continental rise of the Eucla margin. Other sites are located on the upper slope and outermost shelf, in 218–784 m of water for the western transect (Sites 1126, 1130, and 1132), and in 202–480 m of water for the eastern transect (Sites 1127, 1129, and 1131) (Fig. F1), (Feary, Hine, Malone, et al., 2000).

SUMMARY OF LITHOSTRATIGRAPHIC FRAMEWORK

Western Transect

Site 1128

The sedimentary succession at Site 1128 is composed of calcareous nannofossil ooze interbedded with numerous thin glauconite and planktonic foraminiferal sand calciturbidites, conglomeratic sediment gravity-flow deposits such as debrites and slumps, and a thick section of uniform, green, variably calcareous clay and claystone.

Two major biostratigraphic successions were recovered at Site 1128 and dated by calcareous nannofossils and planktonic foraminifers as late Miocene–Quaternary (0–55 meters below seafloor [mbsf]) and early Eocene–early Oligocene (72–427 mbsf).

Site 1126

Site 1126 is located on the eastern Eyre Terrace upper slope in 783.8 m of water. This site was designed to intersect Cenozoic seismic Sequences 2, 3, and 4, and Lobes 1 and 3 of Sequence 6A. The sedimentary sequence recovered at Site 1126 is dated by calcareous nannofossils and planktonic foraminifers as Quaternary–middle Eocene.

The sedimentary succession at Site 1126 consists of calcareous ooze with interbeds of silicified layers. Downhole, sediments are composed of alternating calcareous ooze to chalk intervals and silicified pelagic limestones with some planktonic foraminifers and bioclasts with events of sandstones, silty sandstones, clayey siltstones, and minor granule conglomerates.

Site 1130

Site 1130 intersects Neogene cool-water carbonate shelf-edge sequences and the nearshore portion of a Paleocene?-middle Eocene progradational siliciclastic wedge (seismic Sequences 2, 4, and 6A). The sediments recovered at Site 1130 are mainly composed of bioclastic packstone punctuated by unlithified bioclastic mud layers and occasional nannofossil foraminiferal ooze to chalk intervals. The base of the core consists of chert layers interbedded with intervals of white nannofossil planktonic foraminiferal ooze and calcareous sandstone.

Calcareous nannofossils and planktonic foraminifers indicate a Quaternary–Oligocene age. Preliminary results indicate that the upper part of the lower Pliocene is missing (>1 m.y.) and that the major disconformity between upper Miocene and Oligocene sediments represents a hiatus of at least 15 m.y. **F1**. Locations of the Leg 182 drill sites, p. 8.



Site 1132

Site 1132 was located to intersect and characterize Neogene coolwater carbonate shelf-edge sequences and the nearshore portion of a Paleocene?–middle Eocene progradational siliciclastic wedge (seismic Sequences 2, 3, 4, 6A, and 7).

The recovered succession consists of a bryozoan floatstone and rudstone mound complex alternating with bryozoan packstone and bioclastic wackestone, muddy bioclastic sand, and minor mud and sand layers, with an interbedded thin package of foraminiferal ooze. The lowest part of the core is recovered by a bed containing pebbles of siliciclastic sandstone rich in lithic fragments.

Calcareous nannofossils and planktonic foraminifers indicate that drilling at Site 1132 recovered a thick Quaternary–Eocene sequence (~550 m thick) overlying a relatively thin, barren section (~45 m) of unknown age. Calcareous nannofossils from the basal Quaternary–uppermost Pliocene unit contain the "Braarudosphaera Nannofossil Event" previously recorded at Sites 1127, 1130, and 1131.

Eastern Transect

Site 1127

Site 1127 was the first and most seaward of a three-site transect through a spectacular set of upper Neogene clinoforms immediately seaward of the present-day shelf edge. Site 1127, located on the upper slope in 479.3 m of water, intersected an expanded record of the young-est clinoforms as well as the lowest, more condensed portion of the clinoform sequence.

At Site 1127, this 510.7-m-thick monotonous succession is dominated by fine-grained wackestones to packstones made up of nannofossil and foraminiferal ooze.

Calcareous nannofossils and planktonic foraminifers indicate a greatly expanded Quaternary–uppermost Pliocene sequence of ~470 m, with a hiatus of ~3 m.y. between basal Quaternary–uppermost Pliocene (Zone NN19) and underlying Miocene sediments.

Site 1131

Site 1131 was the intermediate site of this transect. It is located on the upper slope in 332.4 m of water and intersecting a more expanded record of the middle part of the clinoform sequence.

The recovered succession consists dominantly of bioclastic packstone, floatstone, and rudstone with sometimes a significant bryozoan component. Below a major unconformity at 531.7 mbsf that spans ~10 m.y., the sedimentary succession consists of silicified nannofossil ooze beds within bioclastic grainstone containing blackened grains and glauconite.

The sedimentary successions at Site 1131 record (1) an expanded Quaternary interval more than 510 m thick underlain by a thin and conformable uppermost Pliocene interval and (2) a middle and lower Miocene section lacking hiatuses.

Site 1129

Site 1129 was the proximal site of the eastern transect through the upper Neogene clinoforms and is located just seaward of the shelf edge

in 202.5 m of water. It intersects a more expanded record of the oldest part of the clinoform sequence.

The top of the succession recovered at Site 1129 consists mainly of unlithified bryozoan floatstone to rudstone and bioclastic packstone to grainstone with abundant bryozoan fragments. The middle part of the core consists of bioclastic packstone and minor grainstone and wackestone with nannofossil chalk intervals. The base of the core consists of dolomitized fine sand–sized bioclastic grainstone and chert fragments.

As observed at Sites 1127 and 1131, Site 1129 shows (1) an expanded Quaternary section more than 554 m thick that is underlain by a thin and conformable uppermost Pliocene section; (2) a middle–lower Miocene section; and (3) at 556 mbsf, one unconformity representing ~12 m.y., marked by a bryozoan turbidite overlying indurated sediments and chert layers.

ANALYTICAL METHODS

Bulk sediment samples (~10–20 cm³) were collected aboard the *JOIDES Resolution* during Leg 182. Geochemical samples were taken at regular intervals on the basis of core descriptions and visual observations. Approximately one-half of each bulk sample was (1) disaggregated, (2) washed repeatedly in deionized water, and (3) oven dried at 80°C. Bulk powders were subsequently analyzed for carbonate content and trace element content.

In preparation for analysis, ~1 g of powdered sample was reacted in a buffered (pH = 5) ~6% acetic acid solution. The buffered acetic acid was chosen to minimize contamination from noncarbonate phases. The insoluble noncarbonate fraction was subsequently removed by filtration and dried overnight in a 80°C oven. The amount of carbonate in each sample was calculated as the difference between the dry weights of the original sample and the filtered, insoluble fraction. After filtration, the leachate was stored in high density polyethylene bottles until analyses. After appropriate dilutions, concentrations of Ca, Fe, Mg, Mn, and Sr in the carbonate fraction of selected samples throughout the cores at Sites 1126–1132 were determined by atomic absorption spectroscopy using Perkin Elmer 3300 and Hitachi Z-8100 spectrophotometers. Analytical run precision was within $\pm5\%$ for these elements.

Carbonate mineralogy was determined on carbonate samples using X-ray diffraction (XRD). Shipboard quantitative XRD analyses were performed on bulk samples to determine the relative percentage of aragonite, low-Mg calcite (LMC), high-Mg calcite (HMC), quartz, and dolomite. All results of carbonate mineralogy can be founded in Feary, Hine, Malone, et al. (2000) and are plotted vs. depth in Figures F2, F3, F4, and F5 to compare geochemical and mineralogical data.

RESULTS

The results of geochemical analyses for the acid-soluble fraction of samples for Sites 1126–1132 are listed in Tables T1, T2, T3, T4, T5, T6, and T7, respectively.

F2. Western transect Sr values and carbonate mineralogy, p. 9.



F3. Eastern transect Sr values and carbonate mineralogy, p. 10.



F4. Western transect Mg values and carbonate mineralogy, p. 11.



F5. Eastern transect Mg values and carbonate mineralogy, p. 12.





T2. Geochemical data, Site 1127, p. 18.

T3. Geochemical data, Site 1128, p. 20.

Trace Element Geochemistry

Strontium

Western Transect

Strontium values (Fig. F2) range from 1000 to 4000 ppm for Sites 1126, 1130, and 1132. Data display a generally increasing trend in the upper Oligocene to Pleistocene interval. At Site 1126, two main negative shifts are recorded in the middle and upper Miocene. A sharp increase in Sr occurs at the base of the Pleistocene and coincides with the appearance of HMC and aragonite at all three sites. Strontium concentration is lower at Site 1128 than at other sites and does not exceed 2500 ppm. The sediments at Site 1128 are almost entirely LMC.

Eastern Transect

This transect (Fig. F3) (Sites 1127, 1131, and 1129) provides higherresolution data in the Pliocene–Pleistocene interval. Strontium content also ranges from 1000 to 4000 ppm. This interval is characterized by rather constant downhole concentrations, and the occurrence of HMC in Zones NN21–NN20 does not influence Sr values for Sites 1131 and 1129.

Magnesium

Western Transect

Magnesium content (Fig. F4) ranges from 900 to 21,000 ppm for Sites 1130 and 1132. Data display generally increasing trends during the late Oligocene to Pleistocene interval. At Site 1126, all values are lower than 5,000 ppm, except within the upper sections of the Pleistocene where values reach 13,000 ppm and correspond to elevated HMC content (40–50 wt%). Magnesium values at Site 1128 do not exceed 10,000 ppm and display a complicated downhole profile.

Eastern Transect

Magnesium values (Fig. F5) are higher than in the western transect and range from 4,000 to 26,000 ppm at Site 1127, from 6,000 to 23,000 ppm at Site 1131, and from 11,000 to 27,000 ppm at Site 1129. The Pleistocene interval has rather constant concentrations in sediments that are characterized by LMC mineralogy, but generally show increasing values of Mg when HMC content is greater than 40–50 wt% at lower depths.

Manganese

Western Transect

The Pleistocene interval at Sites 1126, 1130, and 1132 displays relatively low Mn concentrations (Fig. F6), ranging from 5 to 40 ppm. Below the "Braarudosphaera Nannofossil Event," Mn concentrations exhibit a notable downhole enrichment as high as 100 ppm at Site 1130 and 400 ppm at Site 1126 in the lower to upper Miocene interval. The same trend also occurs at Site 1128 for the same period, but downcore concentrations show an extensive increase with high-amplitude fluctuations (ranging from 200 to 18,000 ppm) in the lower Oligocene section. Extreme Mn enrichment in the section spanning 135–235 mbsf can probably be attributed to manganese oxide phases that are present in the carbonate sediments. **T4.** Geochemical data, Site 1129, p. 21.

T5. Geochemical data, Site 1130, p. 22.

T6. Geochemical data, Site 1131, p. 23.

T7. Geochemical data, Site 1132, p. 24.

F6. Western transect Mn values, p. 13.



Eastern Transect

Mn concentrations at Sites 1127, 1129, and 1131 (Fig. **F7**) generally range between 4 and 15 ppm and are very similar to values of the same age from the western transect. At Site 1127 and below 420 mbsf, concentrations increase to 40 ppm with occasional spikes as high as 70 ppm below the "Braarudosphaera Nannofossil Event."

Also notable in the Mn profile is the frequent occurrence of peaks, sometimes close to 30 ppm, in the Pleistocene interval of all sites, which can be used as marker beds.

Iron

Western Transect

Iron concentrations are more variable than Mn, and range from 15 to 1500 ppm (Fig. **F8**). In detail, the Pleistocene section is characterized by low concentrations (<200 ppm) for all four sites. As for Mn profiles, sharp increases occur near the "Braarudosphaera Nannofossil Event" and might suggest a drastic change in geochemical and/or paleo-environmental conditions.

Eastern Transect

The concentration-depth profiles of Fe in Sites 1127, 1129, and 1131 show complex distributions (Fig. F9). The predominant features in the profiles are the downhole decreasing trends (from 200 to 40 ppm at Site 1127 and from 130 to 30 ppm at Site 1129), whereas the Pleistocene section at Site 1131 exhibits a slight increase, reaching a maximum of 230 ppm at 313 mbsf.

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F8. Western transect Fe values, p. 15.



F9. Eastern transect Fe values, p. 16.



REFERENCES

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Figure F1. Locations of the Leg 182 drill sites in the western Great Australian Bight.

Figure F2. Downcore variation of Sr concentration in the acetic acid–soluble fraction for Sites 1126, 1128, 1130, and 1132 (western transect), bulk cumulative carbonate mineralogy vs. depth for Sites 1126, 1130, and 1132, and low-Mg calcite/quartz ratio vs. depth for Site 1128. HMC = high-magnesium calcite, LMC = low-magnesium calcite. (This figure is also available in an oversized format.)



Figure F3. Downcore variation of Sr concentration in the acetic acid–soluble fraction for Sites 1127, 1129, and 1131 (eastern transect) and bulk cumulative carbonate minerology vs. depth. HMC = high-magnesium calcite, LMC = low-magnesium calcite. (This figure is also available in an oversized format.)



L. Emmanuel et al. Data Report: Trace Element Geochemistry **Figure F4.** Downcore variation of Mg concentration in the acetic acid–soluble fraction for Sites 1126, 1128, 1130, and 1132 (western transect), bulk cumulative carbonate mineralogy vs. depth for Sites 1126, 1130, and 1132, and low-Mg calcite/quartz ratio vs. depth for Site 1128. HMC = high-magnesium calcite, LMC = low-magnesium calcite. (This figure is also available in an oversized format.)



Figure F5. Downcore variation of Mg concentration in the acetic acid–soluble fraction for Sites 1127, 1129, and 1131 (eastern transect) and bulk cumulative carbonate minerology vs. depth. HMC = high-magnesium calcite, LMC = low-magnesium calcite. (This figure is also available in an oversized format.)



Nannofossil zone Nannofossil zone Nannofossil zone Site 1128 Mn (ppm) Site 1126 Mn (ppm) Site 1130 Mn (ppm) Site 1132 Mn (ppm) Nann zone 40 10,000 20,000 Age 100 200 300 20 60 80 100 20 40 60 80 Age 400 100 NN21-NN20 0 Pleist. Tate Plio: early Plio. NN15 NN14-15 NN12 Pleis NN19 late NN11 NN9 mixed NN2 Miocene m.-e. 50 50 NN21-NN20 50 NN16 NN12 NN21-NN20 Miocene NP23 late NN10 100 iocer 100 100 (Jsd (mbs middle Miocene Depth (mbsf) Depth NN4-NN5 NP22 150 150 early Oligo. 150 no samp. NN2-NN1 Ż early Miocene Depth (mbsf) NN19 IN19 200 200 200 200 ≥ NP21 Braa. event late Oligo. NP25 Braa. event ? CN 12b CN 10bc CN 10a NN10-NN9 250 250 250 ? NP20-NP19 late NP18 Eocene no sample NP16 300 CN9b 300 NN10 NP25 NP25-NP23 350

400

Figure F6. Downcore variation in Mn concentration in acetic acid-soluble fraction for Sites 1126, 1128, 1130, and 1132 (western transect). (This figure is also available in an oversized format.)



Figure F7. Downcore variation in Mn concentration in acetic acid–soluble fraction for Sites 1127, 1129, and 1131 (eastern transect). (This figure is also available in an **oversized format.**)



EASTERN TRANSECT





Figure F9. Downcore variation in Fe concentration in acetic acid–soluble fraction for Sites 1127, 1129, and 1131 (eastern transect). (This figure is also available in an **oversized format**.)



EASTERN TRANSECT

Core, section,	Depth	CaCO ₃	Fe	Mg	Mn	Sr
interval (cm)	(mbsf)	(wt%)	(ppm)	(ppm)	(ppm)	(ppm)
182-1126B-						
1H-3, 73–75	3.74	92.81	102	13,166	21	2,918
2H-3, 73–75	10.24	91.99	87	9,530	19	2,836
3H-3, 73–75	19.74	91.51	51	6,698	18	2,855
4H-3, 73–75	29.24	91.00	49	4,248	30	2,808
5H-3, 73–75	38.74	92.92	75	4,596	23	2,679
6H-3, 73–75	48.24	91.06	50	4,709	25	2,453
7H-3, 73–75	57.74	89.61	258	3,205	30	1,734
8H-3, 74–76	67.25	91.92	217	1,337	72	1,392
9H-3, 73–75	76.74	95.16	230	2,327	64	1,311
10H-3, 73–75	86.24	94.00	304	4,735	93	1,040
11H-3, 73–75	95.74	88.95	228	1,824	73	1,520
14H-3, 73–75	113.24	88.66	181	2,918	106	1,313
17H-3, 72–74	132.53	89.42	489	3,551	125	1,136
18H-3, 73–75	142.04	91.10	808	4,713	168	665
19H-3, 70–72	151.51	63.82	582	2,974	161	1,041
27X-3, 73–75	219.04	76.69	256	2,602	285	1,018
28X-3, 73–75	228.64	91.21	332	2,639	339	1,056
	Minimum:	63.82	49	1,337	18	665
	Maximum:	95.16	808	13,166	339	2,918
	Average:	88.93	253	4,457	97	1,751

Table T1. Geochemical data, Site 1126.

 Table T2. Geochemical data, Site 1127. (See table note. Continued on next page.)

Core, section, interval (cm)	Depth (mbsf)	CaCO ₃ (wt%)	Fe (ppm)	Mg (ppm)	Mn (ppm)	Sr (ppm)		Core, section, interval (cm)	Depth (mbsf)	CaCO ₃ (wt%)	Fe (ppm)	Mg (ppm)	Mn (ppm)	Sr (ppm)
182-1127B-							-	27X-3, 75–77	245.26	89.18	83	8,141	11	2,947
1H-1, 75–77	0.76	91.06	33	14,086	11	2,809		27X-5, 75–77	248.26	74.43	64	26,541	12	2,092
1H-3, 75–77	3.76	91.70	88	17,076	12	2,460		28X-1, 75–77	251.86	89.18	71	8,892	NA	3,153
2H-1, 75–77	6.66	89.67	177	19,453	23	2,264		28X-3, 75–77	254.86	88.07	68	10,561	8	2,827
2H-3, 75–77	9.66	97.78	73	17,044	8	2,696		28X-5, 75–77	257.86	94.32	86	15,596	8	3,369
2H-5, 75–77	12.66	96.87	92	17,600	NA	2,739		29X-1, 75–77	261.56	92.48	92	17,719	NA	3,189
3H-1, 75–77	16.16	96.25	87	17,091	8	2,882		29X-3, 75–77	264.56	92.53	85	14,237	NA	3,187
3H-3, 75–77	19.16	94.70	78	14,617	9	2,946		29X-5, 75–77	267.56	92.37	88	13,611	NA	3,058
3H-5, /5-//	22.16	93.94	93	16,262	10	3,131		29X-7,75-77	269.91	91.82	97	14,384	NA	3,141
4H-1, / 3-//	25.66	94.51	85 01	16,494	9	3,047		30X-1, / 5-//	271.10	90.11	91	15,194	NA NA	3,111 2 110
411-3,73-77	27.59	94.30	01 94	10,/10	0 0	2,02Z		307-3, 73-77	274.10	93.3Z	00 105	15,057	INA Q	2 1 6 9
4H-7 75_77	30.59	96.91	103	18 393	8	2,937		30X-5, 75-77	277.10	93.41	105	16 517	8	2 997
5H-3, 75-77	38.16	94.39	96	15,481	8	3,158		31X-1, 75-77	280.76	91.59	119	17,991	8	2,941
5H-5, 75–78	41.16	94.47	89	15,671	8	3,189		31X-3, 72–73	283.73	93.34	95	16.339	10	2.957
6H-3, 75–77	47.66	94.64	81	16,386	12	3.043		31X-5, 47–76	286.75	92.17	117	17.658		3.224
6H-5, 75–77	50.66	93.58	107	16,698	11	3,014		32X-1, 75-77	290.46	91.49	81	13,196	10	2,862
7H-1, 75–77	54.16	92.13	117	14,841	12	3,085		32X-3, 73–75	293.44	87.32	52	12,153	10	2,528
7H-3, 75–77	57.16	89.65	104	13,061	15	2,882		33X-1, 75–77	300.06	94.28	91	15,702	9	2,944
7H-5, 75–77	60.16	87.75	161	15,140	21	2,462		33X-3, 75–77	303.06	90.94	97	11,659	12	3,073
8H-1, 75–77	63.66	88.31	270	20,233	34	2,394		33X-5, 74–76	306.05	83.69	74	23,357	19	2,199
8H-3, 75–77	66.66	94.67	126	14,911	14	2,535		34X-1, 71–73	309.62	91.31	180	18,971	25	2,806
8H-5, 75–77	69.66	95.40	107	18,130	8	2,987		34X-3, 75–76	312.66	91.17	90	12,636	27	2,567
9H-1, 75–77	73.16	95.26	130	16,636	11	2,891		34X-5, 75–77	315.66	91.99	113	17,092	12	3,349
9H-3, 75–77	76.16	94.33	125	16,805	11	3,071		35X-1, 75–77	319.26	91.84	105	16,989	10	3,131
9H-5, 75–77	79.09	93.84	88	14,656	14	3,024		35X-3, 75–77	322.26	90.79	94	15,194	8	3,103
10H-3, 75–77	84.55	93.41	88	13,712	12	2,887		35X-5, 75–77	325.26	88.67	68	10,524	11	2,890
10H-5, 75–77	87.55	92.31	95	12,252	12	3,055		36X-1, 74–76	328.85	87.80	83	17,981	8	2,979
11H-1, 75–77	92.16	90.45	103	11,565	17	2,729		36X-3, 75–77	331.86	89.88	82	14,541	10	2,916
11H-3, 75–77	95.16	93.75	147	16,848	15	2,451		36X-5, 75–77	334.86	91.98	75	14,956	12	2,858
11H-5, 75–77	98.14	95.54	153	19,504	12	2,590		36X-6, 76–78	336.37	89.79	100	15,818	13	3,567
12H-3, 74–77	103.90	93.85	155	15,966	11	2,922		37X-1, 75–77	338.46	87.30	100	13,735	11	3,224
13H-1, 75-77	111.16	86.37	134	13,6/3	21	2,501		3/X-3, /5-//	341.46	82.35	/3	14,514	19	2,484
13H-3, 73-75	114.14	8/.//	338	17,571	32	2,261		3/X-5, /5-//	344.46	90.79	/2	11,18/	21	2,309
14H-3, 75-77	122.81	94.64	158	17,598	10	3,016		38X-1, 70-72	348.01	90.92	90	12,793	11	2,846
1411-3, 73-77	120.01	94.0Z	150	12,433	0	3,141 2 1 7 2		201-2, 70-72	254.07	00.00 07.67	63 52	13,163	11	2,000
1511-1, 72-74	122 42	93.ZI	115	10,095	0	3,1/3		20X-2, /0-/0	257.76	0/.0/ 00 27	25 174	12,/9/	14	2,415
1511-5, 75-77	125.42	95.15	122	12 854	9	2 040		39A-1, 73-77	360.76	00.37 80.36	79	12 5 27	5Z 12	2,099
15H-7 72_74	133.42	91.55	108	11 899	10	2,240		398-5 75-77	363 76	90.81	101	14 585	18	2,540
16H-1 75_77	139.66	93 32	106	13 443	9	2,075		40X-1 75-77	367.36	87.65	73	10 803	15	2,004
16H-3 75-77	142.66	95.22	111	15,445	9	2,704		40X-3 75-77	370 36	89 17	69	6 534	23	1 821
17X-1, 75–77	149.16	94.18	118	17.274	9	3.015		40X-5, 75-77	373.36	86.07	101	11.396	13	3.337
17X-3, 75–77	152.16	94.41	119	15,873	10	2,865		41X-1, 77–79	376.98	88.55	84	9,850	11	2.397
17X-5, 72–74	154.96	95.13	128	16,805	10	2,905		41X-3, 77–79	379.98	91.08	59	9,776	13	2,045
18X-1, 75–77	155.66	94.64	134	15,295	10	3,011		41X-5, 75–77	382.96	89.20	75	10,428	10	2,567
18X-3, 75–77	158.66	93.72	130	15,598	8	3,005		42X-1, 75–77	386.36	90.55	76	9,055	13	2,223
19X-1, 75–77	165.26	93.27	137	12,904	10	2,984		42X-3, 75–77	389.36	88.36	86	11,323	11	2,766
19X-3, 75–77	168.26	91.96	104	10,422	10	2,990		42X-5, 75–77	392.36	88.53	76	11,102	17	2,490
20X-1, 75–77	174.86	90.61	66	7,462	15	2,388		43X-1, 75–77	395.96	90.48	67	10,672	13	2,184
20X-3, 75–77	177.86	82.49	134	12,216	18	2,060		43X-3, 75–77	398.96	91.00	66	9,848	15	2,339
21X-1, 75–77	184.46	94.46	67	9,170	12	2,409		43X-5, 75–77	401.96	94.40	90	12,478	18	2,121
21X-3, 75–77	187.17	94.33	138	15,056	11	2,932		44X-1, 75–77	405.56	88.42	71	8,715	19	2,551
21X-5, 76–78	190.18	94.24	122	16,498	8	3,093		44X-3, 75–77	408.56	88.24	61	7,248	23	1,748
22X-1, 75–77	194.16	93.66	126	17,095	9	3,178		44X-5, 75–77	411.56	89.88	74	8,816	14	2,701
22X-3, 75–77	197.16	92.69	120	14,943	8	3,303		45X-1, 75–77	415.16	89.61	87	8,729	22	2,563
22X-5, /5-//	200.16	93.19	11/	12,597	8	3,299		45X-3, /5-//	418.16	86.87	81	8,233	23	2,124
23X-1, 75-77	203.76	94.14	131	16,338	9	3,2/5		45X-5, /5-/7	421.16	83.30	93	6,534	34	2,132
238-3, 15-77	206.76	92.71	140	14,322	10	3,374		46X-1, /5-77	424.76	89.15	68	6,586	21	1,663
237-5, 15-17	209./6	92.19		11,418	10	5,556		407-3, 15-17	42/./6	90.58	80	8,310	20	2,152
247-1, 13-11	213.30	91.97	6/ 77	δ,209	15	2,865		4/ 1, /5-//	454.46	8/./Z	88	/,368	21	2,833 1 702
247-3, 13-11	210.30	88.95	17	6,002	15	2,315		4/ 7-3, / 3-//	45/.46	85.54	68	4,952	25	1,/83
231-1, 13-19	223.08	90.35 00 22	125	11,4/3	14	2,009		4/ A-D, / D-//	440.46	91.75	00	/,20/	10	1,930
237-3, /3-// 258 5 75 77	220.00	90.32 80.52	1/9	12,540	20	2,003		401-1,/3-//	444.UO	90./9 02.02	40	4,8/8 7.02/	∠ I 1 7	1,405
237-3,/3-// 268 1 75 77	229.00 222 22	07.32 02.02	137	1/ 227	10	2,940 3 012		401-3, /3-//	44/.00	72.03 02.20	76	7,024 5 725	1/	1,000 1 514
201-1,73-77	232.00	94 60	110	17 200	0	2 965		49X-1 75 77	452 66	91 65	40 ⊿2	رد /, دی ∆ 179	22	1 446
26X-5,75-77	233.00	92.20	113	15 757	2 R	3 309		49X-3 75_77	456 66	94 95	50	8 1 3 5	16	1,375
27X-1.75-77	242.26	91.94	121	13.344	8	3.375		50X-1.75-77	463.26	98.78	62	6.006	18	1,269
		· · · · ·	· - ·	,		2,2,3				20.70	52	2,000		.,_0/

Core, section, interval (cm)	Depth (mbsf)	CaCO ₃ (wt%)	Fe (ppm)	Mg (ppm)	Mn (ppm)	Sr (ppm)
50X-5, 75–77	469.26	82.66	98	4,094	47	1,228
51X-1, 75–77	472.86	86.34	96	8,398	18	1,033
51X-3, 73–75	475.84	84.94	84	5,627	16	1,013
51X-5, 75–77	478.86	82.19	114	5,713	15	1,134
52X-1, 75–77	482.46	85.97	290	9,025	21	927
52X-3, 73-75	485.44	90.34	268	5,800	63	737
53X-1, 75–77	492.16	92.14	165	6,815	14	835
,	Minimum: Maximum:	74.43 98.78	33 338	4,094 26.541	8 63	737 3.567
	Average:	91.18	104	13,220	14	2,647

Table T2 (continued).

Note: NA = data not available.

Core, section, interval (cm)	Depth (mbsf)	CaCO ₃ (wt%)	Fe (ppm)	Mg (ppm)	Mn (ppm)	Sr (ppm)	Core, section, interval (cm)	Depth (mbsf)	CaCO ₃ (wt%)	Fe (ppm)	Mg (ppm)	Mn (ppm)	Sr (ppm)
182-1128B-							15H-5, 73–75	135.50	92.38	184	4,381	394	1,012
1H-1, 73–75	0.74	86.53	33	952	40	1,682	16X-1, 73–75	138.54	20.19	275	6,022	5,712	2,013
1H-3, 73–75	3.74	95.07	17	456	155	1,845	16X-3, 73–75	141.54	16.17	642	7,813	18,229	1,875
2H-1, 75–77	6.46	79.56	35	1,070	196	1,636	16X-5, 69–71	144.50	32.16	264	3,668	6,113	2,164
2H-3, 73–75	9.44	91.41	32	693	265	1,763	17X-1, 73-75	146.54	35.87	243	2,711	3,893	1,933
2H-5, 73–75	12.44	59.58	61	2,412	105	1,725	17X-3, 73-75	149.54	82.42	237	3,881	359	1,088
3H-1, 73–76	15.95	89.42	80	834	112	1,630	18X-1, 73-75	156.14	20.16	972	6,516	10,284	2,113
3H-3, 73–76	18.95	87.26	395	4,220	142	1,108	18X-3, 73–75	159.14	31.67	210	3,499	570	2,187
3H-5, 73–76	21.95	90.94	176	1,909	282	1,336	19X-1, 73–75	165.84	30.01	541	3,228	3,576	2,148
4H-1, 73–75	25.44	89.01	155	776	90	1,769	19X-3, 73–75	168.84	44.49	312	1,893	2,559	1,984
4H-3, 73–75	28.44	78.65	85	1,231	315	1,585	19X-5, 73–75	171.84	44.27	573	2,297	3,798	2,060
4H-5, 73–75	31.44	94.27	136	674	315	1,708	20X-1, 73-75	175.44	34.10	790	2,927	8,343	1,895
5H-1, 63–65	34.84	88.44	111	3,225	407	998	20X-3, 73-75	178.44	21.36	370	5,290	287	2,229
5H-3, 68–70	37.89	77.13	54	1,866	463	1,522	20X-5, 73-75	181.44	21.91	800	4,863	6,160	2,035
5H-5, 73–75	40.94	90.03	69	3,954	328	1,044	22X-1, 73-75	194.64	36.18	474	3,030	2,758	1,932
6H-1, 73–75	44.44	76.79	32	1,107	280	1,572	22X-3, 73-75	197.64	24.38	364	4,104	472	2,193
6H-3, 73–75	47.44	83.64	18	897	329	1,578	22X-5, 73–75	200.64	43.61	534	1,968	3,557	1,900
6H-5, 73–75	50.44	92.15	70	4,441	320	786	23X-1, 73–75	204.24	35.78	332	2,095	331	1,990
8H-3, 73–75	66.44	61.91	53	1,570	580	2,017	23X-3, 73–75	207.24	39.50	407	1,993	3,085	1,897
8H-5, 73–75	69.44	34.12	99	4,043	606	1,999	23X-5, 73–75	210.24	41.24	421	2,083	2,961	1,912
9H-1, 73–75	72.94	48.00	75	2,421	660	2,076	24X-1, 73–75	213.84	35.99	245	2,767	357	1,884
9H-3, 73–75	75.94	55.00	53	1,833	726	2,133	24X-3, 73–75	216.84	42.65	536	2,115	2,493	1,911
9H-5, 73–75	78.94	68.85	36	1,155	859	2,202	24X-5, 76–78	219.87	51.87	641	1,386	4,003	1,940
10H-1, 73–75	82.44	53.41	45	1,758	725	2,146	25X-1, 73–75	223.44	49.57	396	1,542	333	2,020
10H-3, 73–75	85.44	39.49	76	2,528	1,278	2,121	25X-3, 73–75	226.44	48.27	395	1,725	344	1,883
10H-5, 73–75	88.44	9.44	NA	NA	NA	NA	25X-5, 73–75	229.44	64.49	542	1,006	410	1,888
11H-1, 73–75	91.94	28.22	87	5,027	6,827	2,151	26X-1, 73–75	233.14	50.34	644	1,465	2,652	1,781
12H-1, 73–75	101.44	12.37	NA	NA	NA	NA	26X-3, 73–75	236.14	52.00	330	1,507	342	1,839
12H-3, 73–75	104.44	24.08	215	5,141	8,973	1,904	26X-5, 73–75	239.14	53.23	295	1,823	365	1,800
12H-5, 73–75	107.44	15.83	417	9,470	12,311	1,926	27X-1, 73–75	242.84	43.45	128	2,828	391	1,890
13H-1, 73–75	110.94	29.49	265	4,500	7,005	2,165	27X-3, 73–75	245.84	35.74	74	4,045	244	1,980
13H-3, 73–75	113.94	40.39	72	2,522	2,048	2,101	30X-1, 73–75	271.84	16.54	173	3,909	710	1,751
13H-5, 73–75	116.94	10.26	NA	NA	NA	NA		Minimum	8 5 2	17	156	40	786
14H-1, 73–75	120.44	21.79	325	6,525	13,965	2,015		Maximum:	95.07	972	9 4 70	18 220	2 2 2 0
14H-3, 73–75	123.44	28.06	193	3,860	8,153	2,123		widAllHulll.	23.07	712	י,ד,ע	10,227	2,22)
14H-5, 73–75	126.44	8.52	NA	NA	NA	NA		Average:	49.13	268	2,986	2,774	1,833
15H-1, 73–75	129.94	19.33	347	7,446	10,391	1,936							
15H-3, 73–75	132.94	39.66	166	3,209	4,989	1,743	Note: NA = da	ata not ava	ilable.				

 Table T3. Geochemical data, Site 1128.

 Table T4. Geochemical data, Site 1129.

Core, section, Depth Openth (pm) (pm														
IBA:1129C. IBA:72-73 O.74 96.27 66 23,364 9 2,698 22H1,73-75 191.56 89.37 38 18,276 10 3,032 1H4,72-73 3.74 94.51 130 23,179 13 21H3,73-57 201.04 90.66 41 7,477 191.56 89.37 38 18,276 10 3,033 21H3,72-57 11.04 97.86 80 22,678 22H3,77-57 210.44 89.37 42 16,471 17 2,678 21H-7,375 129.04 98.03 33 22,872 NA 3,047 225X-37.57 212,42 91.57 23,484 11 2,469 11 2,469 11 2,469 11 2,469 11 2,469 11 2,451 11 2,469 12,775 212,444 9 2,667 12,775 214,443 9 2,667 12,766 11,71,66 12,726 11,943 14,343 14,343 14,344 3,463 12,766	Core, section, interval (cm)	Depth (mbsf)	CaCO ₃ (wt%)	Fe (ppm)	Mg (ppm)	Mn (ppm)	Sr (ppm)	Core, section, interval (cm)	Depth (mbsf)	CaCO₃ (wt%)	Fe (ppm)	Mg (ppm)	Mn (ppm)	Sr (ppm)
$\begin{array}{c} 1+1, 7_2-7_5 & 0.7_4 & 96.27 & 66 & 23.364 & 9 & 26.68 & 221+1, 7_2-7_5 & 198.04 & 00.64 & 43 & 17.6380 & 14 & 2.714 \\ 1+3, 7_2-7_5 & 6.7_4 & 98.46 & 80 & 23.978 & 9 & 30.08 & 221+5, 7_2-7_5 & 204.04 & 86.34 & 02.71 & 36 & 17.877 & 25 & 31.25 \\ 2+1, 7_2-7_5 & 10.40 & 97.36 & 70 & 24.689 & NA & 30.67 & 221+1, 7_2-7_5 & 20.74 & 89.94 & 92.71 & 36 & 17.877 & 25 & 31.25 \\ 2+1, 7_2-7_5 & 11.04 & 97.36 & 70 & 24.689 & NA & 30.67 & 221+3, 7_2-7_5 & 21.24 & 89.94 & 81.64 & 11 & 2.757 \\ 3+1, 7_3-7_5 & 17.54 & 98.19 & 55 & 23.062 & NA & 31.47 & 25X.1, 7_3-7_5 & 222.44 & 88.18 & 44 & 17.169 & 14 & 2.692 \\ 3+5, 7_3-7_5 & 12.54 & 98.19 & 55 & 23.062 & NA & 31.47 & 25X.1, 7_3-7_5 & 225.44 & 88.18 & 44 & 17.169 & 14 & 2.692 \\ 3+5, 7_3-7_5 & 12.54 & 97.77 & 57 & 24.847 & 8 & 2.951 & 26X.1, 7_3-7_5 & 23.54 & 87.68 & 18.906 & 13 & 2.760 \\ 4+1, 7_3-7_5 & 30.04 & 96.67 & 80 & 27.586 & 9 & 2.950 & 27X.1, 7_4-7_6 & 245.45 & 86.85 & 18.906 & 13 & 2.760 \\ 4+1, 7_3-7_5 & 30.49 & 96.67 & 80 & 27.586 & 9 & 2.950 & 27X.1, 7_4-7_6 & 245.45 & 86.48 & 50 & 17.066 & 12 & 3.002 \\ 5+1, 7_3-7_5 & 30.49 & 95.60 & 72 & 23.019 & 11 & 2.819 & 27X.5, 7_2-72 & 428.48 & 88.34 & 50 & 17.066 & 12 & 3.002 \\ 5+1, 7_3-7_5 & 36.44 & 95.60 & 72 & 23.019 & 11 & 2.819 & 27X.5, 7_2-72 & 428.48 & 88.34 & 50 & 17.066 & 12 & 3.002 \\ 5+1, 7_3-7_5 & 52.04 & 98.87 & 74 & 24.490 & NA & 2.724 & 28X.3, 7_3-75 & 28.14 & 90.76 & 62 & 4102 & 33 & 2.814 \\ 6+1, 7_3-7_5 & 52.04 & 98.87 & 74 & 24.490 & NA & 2.724 & 28X.3, 7_3-75 & 28.14 & 90.76 & 62 & 4102 & 33 & 2.814 \\ 7+5, 7_3-7_5 & 52.04 & 98.87 & 74 & 24.490 & NA & 2.724 & 28X.3, 7_3-75 & 28.14 & 90.76 & 62 & 4102 & 32 & 2.814 \\ 7+5, 7-37 & 10.44 & 98.87 & 74 & 2.440 & 13.342 & 2.960 & 371 & 16.924 & 10 & 2.062 \\ 7+1, 7-25 & 80.44 & 90.27 & 31 & 19.66 & 11 & 2.602 & 30.71, 7_3-75 & 20.64 & 80.49 & 31 & 14.208 \\ 7+5, 7-37 & 16.34 & 96.58 & 78 & 2.3507 & 10 & 3.008 & 29X.1, 7_3-75 & 28.14 & 90.79 & 48 & 19.607 & 10 & 3.008 \\ 7+1, 7-2-7 & 74.48 & 81.9 & 8.10 & 13.246 & 91.1766 & 92 & 3.061 & 11 & 2.602 \\ 7+1, 7-2-7 & 7$	182-11290-							21H-3 75-77	191 56	89 37	38	18 276	10	3 035
1H-3 23-75 3.74 94.51 130 251.97 13 2.033 2214.3 7.5-75 201.44 96.53 62 18 18 2.755 2H-1, 73-75 8.04 97.66 74 98.49 97.66 70 24.69 NA 3.057 2214.1 7.57-75 204.40 89.94 36 17.837 25 3.125 2H-1, 73-75 11.04 97.86 92.066 NA 3.067 223H-1, 73-75 20.24 89.94 36 17.837 25 3.126 3H-1, 73-75 20.34 98.03 33 22.867 25.83, 73-75 20.44 89.94 36 19.683 8 2.900 2H+1, 73-75 20.44 98.00 07 24.443 9 2.807 25.83, 73-75 29.44 88.16 05 15 17.766 12 3.000 4H+1, 73-75 30.44 95.98 105 2.626 12 2.907 27.84, 73-75 28.44 14.98.8	1H-1 73-75	0 74	96 27	66	25 364	9	2 698	27H-3, 73=77 22H-1 73=75	198.04	90.08	41	16 380	14	2 714
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1H-3 73_75	3 74	94 51	130	25,504	13	2,000	22H-1, 73-73 22H-3 73-75	201.04	90.46	43	17 407	17	2,651
2h+7, 73-75 86.4 97.26 74 21347 NN 33.27 23h+1, 73-75 207.54 92.71 86.7 78.87 25 31.57 2h+7, 73-75 11.04 97.65 70 26.667 8 29.93 23h+5, 73-75 212.22 91.75 30 16.471 1 2.54 3h+7, 73-75 20.54 98.03 33 22.82 NA 31.47 255.7.75 22.94 88.16 41 17.169 1 2.540 3h+7, 73-75 20.54 98.07 72.44.447 8 2.907 226x3, 73-75 23.84 97.76 33 19.683 8 2.906 4h+7, 73-75 30.04 95.68 105 26.266 11 2.795 277.37, 73-72 25.14 86.35 15 17.466 16 2.428 5h+7, 73-75 30.49 95.87 70 2.135 11 2.614 97.27 24.44 90.7 38 19.003 10 3.004 10	1H-5, 73-75	6 74	98.46	80	23,172	9	3 008	22H-5,73-75 22H-5,73-75	201.04	86.53	62	25 618	18	2,031
21H 3, 77-25 10.00 97.46 70 14,869 NA 3.040 21H 1, 77-25 210.7 80.9 19.15 30 10 10,83 10 10,83 10 10,83 10 10,83 10 10,83 10 10 10,83 11 2,767 2H 1,77-75 11.04 98.05 82 30,807 23K 1, 77-57 21.22 91.04 80 16,471 11 2,767 3H 3,77-75 20.54 98.07 53 32,870 20,871 75.75 22.04 88.01 14 2,767 3H 3,77-75 30.04 95.67 67 74,441 9 2,800 20,71,75,77 22.44 88.15 55 18,906 12 2,900 4H 3,77-75 30.04 95.67 70 21,151 11 2,817 77.75 25.14 87.75 10 10,061 2,3002 31 9,083 10 3,002 20,71,17.75 25.14 87.93 64 10,12,03 31,21 11 2,815 44.14 10 2,816 11,12,13 11<	111-3,73-73 2⊔1 72 75	0.74 8.04	07.26	74	21 247		3,000	2211-3, 73-73	207.04	00.55	36	17 927	25	2,755
21+5, 23-3 11,04 90,36 70 21,65 78 210,5 75-75 210,24 69,74 30 72,735 30 72,737 30 72,737 30 72,737 31 72,737 31 72,737 31 72,737 31 72,737 32 44 81,38 41 6,431 11 2,464 81,3 41 6,431 11 2,464 81,3 72,737 32 44 81,73,737 22,917 31 10,643 81 44 62,827 82,950 22,950 27X,1,74-72 23,544 80,34 50 19,663 82 2,960 31+1,72-73 36,44 95,60 72 22,019 11 2,879 27X,7,74-72 24,443 88,34 50 17,666 12,200 31+1,72-75 36,44 95,60 72 22,019 11 2,839 27X,7,7-74 24,443 88,34 50 17,666 12,3002 30 30,300 30,300 30,300 30,300 30,300 30,300 30,300 30,300 30,300 30,300,300 <t< td=""><td>$2\Pi - 1, 7 = 73$</td><td>0.04</td><td>97.20</td><td>74</td><td>21,347</td><td>INA NA</td><td>3,327</td><td>2311-1, 73-73</td><td>207.34</td><td>92.71</td><td>20</td><td>10,007</td><td>23</td><td>2,123</td></t<>	$2\Pi - 1, 7 = 73$	0.04	97.20	74	21,347	INA NA	3,327	2311-1, 73-73	207.34	92.71	20	10,007	23	2,123
21+3, 73-35 111, 73-47 111, 73-47 21, 73-47 21, 73-47 21, 73-47 21, 73-47 21, 73-47 21, 73-47 21, 73-47 21, 73-47 21, 73-47 21, 73-47 21, 73-47 21, 73-47 21, 73-47 21, 74-47 81, 73-37 21, 44 81, 73-47 21, 44 81, 24 24, 44 81, 24, 44 81, 24, 44 81, 24, 44 81, 24,	211-5, 75-75	11.04	97.50	70	24,009		3,007	2311-5, 73-73	210.24	09.94	20	10,000	9	2,700
3H+, 7, 2-73 17, 3-9 96, 19 35 22, 0, 62 NA 3, 147 23, 7, 7-75 22, 64 96, 33 19, 953 11 2, 430 3H+5, 72-75 23, 54 97, 77 57 24, 647 8 2, 547 265, 7, 7-75 22, 84 88, 2, 74-75 23, 54 87, 64 88, 18 44 10, 766 12 2, 660 12 2, 660 22, 560 92, 2950 27X, 1, 74-76 24, 54 88, 84 55 18, 906 13 2, 726 98, 61 32 2, 700 27X, 1, 74-76 24, 54 88, 84 55 18, 906 13 2, 700 27X, 1, 74-76 24, 54 88, 84 55 18, 906 13 2, 700 2, 700 27X, 1, 74-76 24, 44 88, 44 10 17, 666 12 3002 3002 3002 27X, 1, 74-75 254, 64 90, 79 38 19, 003 10 3, 000 3004 92, 74 24, 400 NA 2, 724 284, 53 14, 40 10 2, 246 17, 75 30, 74 38, 19, 203 10 3, 004 33, 310 10, 04 10,	21-5, 75-75	14.04	96.05	6Z	20,037	0	2,995	230-3, 73-73	212.22	91.75	50	16,471	11	2,/3/
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3H-1, 73-75	17.54	98.19	22	23,062	INA	3,147	25X-1, 73-75	226.44	89.50	34	16,933	11	2,540
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3H-3, /3-/5	20.54	98.03	53	22,872	NA	3,047	25X-3, /3-/5	229.44	88.18	44	17,169	14	2,692
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3H-5, /3–/5	23.54	97.77	57	24,847	8	2,951	26X-1, /3-/5	235.94	87.62	33	19,895	10	2,801
	4H-1, 73–75	27.04	98.07	67	24,443	9	2,807	26X-3, 73–75	238.94	90.79	33	19,683	8	2,960
	4H-3, 73–75	30.04	96.67	80	25,586	9	2,950	27X-1, 74–76	245.45	86.85	55	18,906	13	2,726
5H-1, 73-75 36.54 95.60 72 23,019 11 2,839 27x.5, 72-74 251.43 85.51 51 17,456 16 2,428 6H-1, 73-75 46.04 98.87 74 24,490 NA 2,224 28x.1, 73-75 255.14 87.93 64 11,94.3 2,430 6H-3, 73-75 52.04 97.85 48 21,159 8 3,227 28x.5, 73-75 267.64 90.07 38 19,003 10 3,008 7H-5, 73-75 61.54 96.58 78 25,064 10 3,384 29x.5, 73-75 270.64 89.84 35 14,430 10 2,988 8H-3, 73-75 71.04 93.40 81 2,2460 11 2,997 30x.5, 73-75 270.64 89.24 9 13,62 16 2,932 9H-1, 72-74 74.53 95.64 32.444 11 2,946 33x3, 1,73-75 301.74 88.94 11 7,027 84.41 17,65 9 2,663 10H-1, 72-74 77.33 95.64 92.641 3,003	4H-5, 73–75	33.04	95.98	105	26,296	11	2,795	27X-3, 72–74	248.43	88.34	50	17,066	12	3,002
5H-3, 73-75 39, 54 96, 37 70 21, 315 11 2, 611 28x1, 7, 73-75 25, 14 97, 65 24, 102 33 2, 814 6H-1, 73-75 49, 04 97, 85 88 21, 159 8 3, 227 28x3, 37, 75 261, 44 90, 73 86 90, 73 56 24, 100 3, 008 7H-3, 73-75 58, 54 96, 48 89 25, 223 NA 3, 108 29x4, 1, 73-75 261, 64 90, 73 16, 924 10 2, 845 7H-3, 73-75 61, 64 91, 73 64, 04 94, 31 86 23, 824 11 2, 860 90, 73, 75 274, 04 80, 94 35 14, 430 10 2, 690 9H-1, 72-74 74, 33 95, 80 42, 2460 11 2, 897 30x3, 73-75 304, 74 88, 19 11 15, 67 9 9 3, 22 16 2, 900 9H-1, 72-74 74, 33 95, 80 40 93, 323 33x3, 73-75 304, 74 88, 19 11 15, 12 9 3, 17 9H-3, 72-74 80, 33	5H-1, 73–75	36.54	95.60	72	23,019	11	2,839	27X-5, 72–74	251.43	86.51	51	17,456	16	2,428
6H-1, 73-75 46.04 98.87 74 24,490 NA 2,724 288.3, 73-75 258.14 90.76 56 24,102 33 2,814 6H-3, 73-75 52.04 97.37 56 23,337 10 3,008 298.1, 73-75 261.14 92.66 49.07 38 19,003 10 3,002 7H-3, 73-75 58.54 96.48 82 52.223 NN 3,108 298.5, 73-75 276.04 80.92 35 14,430 10 2,863 8H-1, 73-75 66.04 94.58 104 22,624 9 3,562 30X-1, 73-75 277.04 84.23 49 13,662 16 2,903 8H-3, 73-75 71.04 93.40 81 2,460 11 2,867 33X-1,73-75 207.04 84.23 49 13,662 16 2,900 9H-1, 72-74 77.53 97.04 94.24 34.33 33X-1,73-75 301.14 81.8 16.02,102 9 3101 2,828 3101 2,828 3101 2,828 3101 1,822,927 33,114 <td< td=""><td>5H-3, 73–75</td><td>39.54</td><td>96.37</td><td>70</td><td>21,315</td><td>11</td><td>2,611</td><td>28X-1, 73–75</td><td>255.14</td><td>87.93</td><td>64</td><td>11,943</td><td>24</td><td>3,463</td></td<>	5H-3, 73–75	39.54	96.37	70	21,315	11	2,611	28X-1, 73–75	255.14	87.93	64	11,943	24	3,463
6H-3, 73-75 49.04 97.85 48 21, 159 8 3,227 288.5, 73-75 261.4 92.56 47 13,392 16 4,277 6H-5, 73-75 58.54 96.48 89 25,223 NA 3,108 298.1, 73-75 267.64 90.27 38 16.924 10 2,845 7H-5, 73-75 68.04 94.38 104 2,246 9 3,562 200.44 89.84 35 14,430 10 2,798 8H-1, 73-75 68.04 94.31 86 23,824 11 2,967 300.5, 73-75 270.04 89.28 49 15,877 13 2,286 9H-1, 72-74 74.53 95.80 43 2,4401 8 2,487 333.1,73-75 201.04 89.24 41 15,012 9 3,101 9H-3,72-74 78.03 96.51 52 24,821 8 2,946 344.1,73-75 31.14 8.96 41 15,012 9 3,001 354.1,73-75 320.54 90.06 47 13,957 9 2,722 10H-	6H-1, 73–75	46.04	98.87	74	24,490	NA	2,724	28X-3, 73–75	258.14	90.76	56	24,102	33	2,814
6H+5, 72-75 52.04 97.37 56 25,37 10 3,008 29X-1, 73-75 266.44 90.77 38 19.003 10 3,009 7H+3, 73-75 61.54 96.58 78 25,064 10 3,84 29X-5, 73-75 267.64 90.29 37 16,924 10 2,845 8H+1, 73-75 66.04 94.31 80 23,824 11 2,663 30X-1, 73-75 271.04 88.19 41 15,877 31 2,822 83 3,042 33X-3,73-75 271.04 88.19 41 15,012 9,312 31,76 9H+1, 72-74 77.53 97.25 62 23,287 8 3,042 33X-3,73-75 201.04 88.19 41 15,012 9 3,176 9H+3, 72-74 77.53 97.25 69 26,831 16 2,533 34X-3,73-75 311.14 87.67 45 16,788 10 2,022 10H+1, 73-75 95.49 95.87 95.89 93.010 35X-1, 73-75 325.44 90.06 47 13,957 9 2,22	6H-3, 73–75	49.04	97.85	48	21,159	8	3,227	28X-5, 73–75	261.14	92.56	47	13,392	16	4,277
TH-3, 73-75 S8.54 96.48 89 25.22 NA 3, 108 29X-3, 73-75 267.64 90.29 37 16, 924 10 2, 845 TH-5, 73-75 61.54 96.58 78 25, 664 93, 562 30X-1, 73-75 270.64 86.99 48 15, 600 11 2, 603 BH-1, 73-75 66.04 94.31 86 23, 824 11 2, 867 30X-1, 73-75 271.04 84.23 49 15, 601 10 2, 783 BH-5, 73-75 71.04 94.3 72.37 84.04 93.06 13, 362 33X-1, 73-75 30K-7, 73-75 30K-7 48.94 41 15, 102 9 3, 10 DH-1, 73-75 94.04 96.55 92, 6483 16 2, 333 47, 37-75 30L-74 88.94 41 17, 256 92, 2693 DH-1, 73-75 95.44 95.87 103 21, 655 10 3, 003 36X-1, 73-75 323.54 90.35 42 16, 783 10 2, 2623 DH+3, 73-75 95.44 97.90 21, 613 9<, 3, 003	6H-5, 73–75	52.04	97.37	56	23,537	10	3,008	29X-1, 73-75	264.64	90.77	38	19,003	10	3,009
TH-5, 73-75 61.54 96.58 78 25.064 10 3.84 29X-5, 73-75 27.064 89.84 35 14.430 10 2.798 BH-1, 73-75 65.04 94.58 104 22,546 9 3,522 30X-1, 73-75 274.04 86.99 48 15,080 11 2,603 BH-3, 73-75 71.04 93.40 81 22,460 11 2,997 30X-5, 73-75 270.04 88.19 41 15,012 9 3,179 9H-1, 72-74 77.53 97.25 62 23,227 8 3,042 33X-1, 73-75 301.74 88.19 41 17,522 8 3,176 9H-5, 72-74 70.53 95.64 90.65 69 26.831 16 2,533 34X-3,73-75 320.44 88.79 41 17,325 91.04 357.375 320.54 90.06 47 13,957 9 2,272 11H-1, 73-75 99.54 95.87 90.31 21,635 30.01 35X-1,73-75 320.54 90.36 47 13,957 9 2,2722 111-1	7H-3, 73–75	58.54	96.48	89	25,223	NA	3,108	29X-3, 73-75	267.64	90.29	37	16,924	10	2,845
BH-1, 73-75 66.04 94.58 104 22,346 9 3,622 30X-1, 73-75 274.04 86.99 48 15,080 11 2,603 8H-3, 73-75 68.04 94.31 86 22,864 11 2,867 30X-5,73-75 270.04 84.23 49 15,877 13 2,382 9H-1, 72-74 74.53 95.80 43 24,443 8 2,878 33X-1,73-75 301.74 88.19 41 17,522 8 3,176 9H-3, 72-74 76.53 96.03 96.25 69 26,831 16 2,533 34X-3,73-75 311.14 88.96 46 17,376 9 2,623 10H-5,73-75 90.04 96.80 117 24,645 9 3,010 35X-3,73-75 323.54 90.05 42 18,064 9 2,623 11H-3,73-75 99.54 95.97 42 1,77 9 2,843 35X-5,73-75 323.54 90.05 42 14,036 9 3,262 11H-3,73-75 109.04 94.74 107 26,012	, 7H-5, 73–75	61.54	96.58	78	25.064	10	3,384	29X-5, 73-75	270.64	89.84	35	14,430	10	2.798
8H-3, 73-75 68.04 94.31 86 23,824 11 2,867 30X-3, 73-75 277.04 84.23 49 15,877 13 2,382 8H-5, 73-75 71.04 93.40 81 22,460 11 2,997 30X-3, 73-75 200.4 89.28 49 13,362 16 2,980 9H-1, 72-74 77.53 97.25 62 23,287 8 3,042 33X-3, 73-75 301.74 88.19 41 17,252 8 3,171 9H-5, 72-74 77.53 97.25 62 23,827 8 3,042 33X-3, 73-75 301.74 88.94 41 17,252 8 3,176 9 2,693 10H-1, 73-75 84.04 96.25 69 26,831 16 2,533 34X-3, 73-75 31.14 87.66 18 10.2 2,202 11H-1, 73-75 95.44 95.87 103 21,653 10 3,003 35K-1, 73-75 326.54 88.76 38 20,315 9 2,282 11H-1, 73-75 95.44 95.59 92 2,672	8H-1, 73-75	65.04	94.58	104	22.546	9	3.562	30X-1, 73-75	274.04	86.99	48	15.080	11	2.603
8H-5, 73-75 71.04 93.40 81 22,460 11 2,997 30X-5, 73-75 280.04 89.28 49 13,362 16 2,900 9H-1, 72-74 74.53 95.80 43 24,443 8 2,478 30X-5, 73-75 280.04 89.28 49 13,362 16 2,900 9H-3, 72-74 75.33 95.80 43 24,443 8 2,478 33X-1, 73-75 301.74 88.19 41 17,522 8 3,176 9H-3, 72-74 80.33 96.51 52 24,421 8 2,946 33X-1, 73-75 301.74 88.94 46 17,376 9 2,702 10H-1, 73-75 90.44 96.87 103 21,655 10 3,008 35X-3,73-75 323.54 90.66 47 13,957 9 2,722 11H-3, 73-75 99.54 97.79 69 21,613 9 3,003 36X-1, 73-75 323.54 98.06 42 14,036 9 3,262 12H-1, 74-76 03.05 25 92.2673 314.14 81.16<	8H-3, 73-75	68.04	94.31	86	23,824	11	2,867	30X-3, 73-75	277.04	84.23	49	15 877	13	2,382
$ \begin{array}{c} 113, 12, 12, 12, 12, 12, 12, 12, 12, 13, 14, 12, 13, 12, 13, 12, 12, 13, 12, 12, 12, 14, 14, 12, 14, 14, 14, 14, 14, 14, 14, 14, 14, 14$	8H-5 73_75	71 04	93.40	81	22 460	11	2,007	30X-5 73-75	280.04	89.28	49	13,362	16	2,002
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0H-3,73-73 0H-1 72 74	7/ 53	95.40	/3	24,400	8	2,227	338-1 73 75	301 74	88 10	/1	15,012	0	3 1 2 1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	04 2 72 74	77.53	07.25	62 67	27,773	0 0	2,070	228 2 72 75	304.74	88.04	41	17 252	0	2 1 7 6
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 5 72 74	00.52	97.23	52	23,207	0	3,042	24V 1 72 75	211 14	00.24	41	17,232	0	2,170
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	90-3, 72-74	00.35	90.31	52	24,421	0	2,940	24A-1, / 3-/ 3	214.14	00.90	40	17,370	9	2,095
101-7, 75-75 90.04 96.80 117 24,645 9 5,010 35A-7,75-75 320.54 90.06 47 15,957 9 2,722 111+1, 7,757 96.54 95.09 44 21,771 9 2,838 35X-5, 73-75 320.54 90.05 42 18,064 9 2,623 111+5, 73-75 99.54 97.79 69 21,613 9 3,003 36X1, 73-75 320.54 88.59 49 19,084 11 3,212 121+1, 74-75 109.04 94.74 107 26,012 11 3,121 37X-1, 73-75 332.84 88.59 49 19,084 11 3,212 16 3,151 131+1, 73-75 112.54 95.55 92 22,679 9 3,159 37X-5,73-75 341.74 83.16 51 13,212 16 3,152 131+5, 73-75 122.04 93.27 39 17,156 11 2,116 38X-1,73-75 341.74 83.16 11 6,614 9 3,969 141+5, 73-75 131.54 97.03 67 </td <td>1011-1, 73-75</td> <td>04.04</td> <td>90.25</td> <td>09</td> <td>20,001</td> <td>10</td> <td>2,333</td> <td>34A-3, / 3-/3</td> <td>314.14</td> <td>07.07</td> <td>45</td> <td>10,/00</td> <td>10</td> <td>2,702</td>	1011-1, 73-75	04.04	90.25	09	20,001	10	2,333	34A-3, / 3-/3	314.14	07.07	45	10,/00	10	2,702
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	10H-5, 73-75	90.04	96.80	117	24,645	9	3,010	358-1, 73-75	320.54	90.06	47	13,957	9	2,/22
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	11H-1, /3-/5	93.54	95.87	103	21,655	10	3,008	35X-3, /3-/5	323.54	90.35	42	18,064	9	2,859
111-5, 73-7599.5497.796921,61393,003 $36X+7,73-75$ 329.84 90.804221,03693,236121-1, 74-76103.0595.915219,798142,732 $36X+3,73-75$ 332.84 88.59 4919,08411 $3,212$ 121-5, 73-75109.0494.7410726,01211 $3,121$ $37X+1,73-75$ 332.84 88.59 4919,08411 $3,212$ 131+1, 73-75112.5495.559222,6799 $3,159$ $37X+3,73-75$ 341.74 83.16 51 $13,212$ 16 $3,155$ 131+5, 73-75118.5492.235525,22811 $2,116$ $38X+1,73-75$ 347.44 86.12 52 $17,647$ 14 $2,049$ 141+1, 73-75125.0493.143425,917NA $3,209$ $38X+3,73-75$ 350.64 87.67 50 $20,905$ NA $2,862$ 141+5, 73-75134.5496.927522,4969 $3,329$ $40X+1,73-75$ 356.44 87.28 6411 $7,352$ $8,261$ 151+5, 73-75144.0494.485919,5148 $3,107$ $40X+3,73-75$ 366.74 89.33 33 $13,407$ 9 $3,099$ 161+1, 73-75147.0495.318525,0528 $3,439$ $46X+3,75-77$ 422.66 86.20 54 $17,314$ 14 $2,038$ 171+1, 73-75150.5499.5631<	11H-3, 73–75	96.54	95.09	44	21,//1	9	2,838	35X-5, /3-/5	326.54	88.76	38	20,351	9	2,623
121+1, 74-76 103.05 95.91 52 19,798 14 2,732 33K-3, 73-75 332.84 88.59 49 19,084 11 3,212 121+5, 73-75 112.54 95.55 92 22,679 9 3,159 37X-1, 73-75 338.74 82,58 60 15,855 16 2,331 131+1, 73-75 112.54 95.55 92 22,679 9 3,159 37X-1, 73-75 341.74 83.16 51 13,212 16 3,155 131+5, 73-75 125.04 93.27 39 17,156 11 2,116 38X-1, 73-75 347.64 90.03 41 16,735 8 2,741 141+3, 73-75 128.04 98.69 72 26,627 NA 3,347 39X-1, 73-75 350.64 87.67 50 20,905 NA 2,862 151+3, 73-75 131.54 96.92 75 22,496 9 3329 40X-1, 73-75 355.44 87.84 41 17,352 8 2,319 151+3, 73-75 141.04 94.48 59 19,514	11H-5, 73–75	99.54	97.79	69	21,613	9	3,003	36X-1, 73–75	329.84	90.80	42	14,036	9	3,236
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	12H-1, 74–76	103.05	95.91	52	19,798	14	2,732	36X-3, 73–75	332.84	88.59	49	19,084	11	3,212
13H-1, 73-75 112.54 95.55 92 22,679 9 3,159 37X-3, 73-75 341.74 83.16 51 13,212 16 3,155 13H-5, 73-75 118.54 92.23 55 25,228 11 2,893 37X-5, 73-75 344.74 86.12 52 17,647 14 2,049 14H-1, 73-75 125.04 93.14 34 25,917 NA 3,209 38X-3, 73-75 350.64 87.67 50 20,905 NA 2,862 14H-5, 73-75 128.04 98.69 72 26,627 NA 3,347 39X-1, 73-75 350.64 87.67 50 20,905 NA 2,862 15H-3, 73-75 131.54 96.09 75 22,496 9 3,329 40X-1, 73-75 366.74 89.31 42 15,884 9 2,715 15H-5, 73-75 141.04 95.04 38 18,969 8 3,005 43X-1, 73-75 366.74 93.38 33 13,407 9 3,006 16H-1, 73-75 141.04 95.04 38 18,969	12H-5, 73–75	109.04	94.74	107	26,012	11	3,121	37X-1, 73–75	338.74	82.58	60	15,855	16	2,331
13H-5, 73-75 118.54 92.23 55 25,228 11 2,893 37X-5, 73-75 344.74 86.12 52 17,647 14 2,049 14H-1, 73-75 122.04 93.27 39 17,156 11 2,116 38X-1, 73-75 347.64 90.03 41 16,735 8 2,741 14H-3, 73-75 128.04 98.69 72 26,627 NA 3,347 39X-1, 73-75 350.64 87.67 50 20,905 NA 2,862 15H-1, 73-75 131.54 97.03 67 23,591 8 2,808 39X-3, 73-75 366.74 89.31 42 15,884 9 2,715 15H-5, 73-75 134.54 96.92 75 22,496 9 3,329 40X-3, 73-75 366.74 89.31 42 15,884 9 2,715 15H-5, 73-75 141.04 95.04 38 18,969 8 3,005 43X-1, 73-75 366.74 89.31 42 18,854 13 2,066 16H-5, 73-75 144.04 94.48 59 19,514	13H-1, 73–75	112.54	95.55	92	22,679	9	3,159	37X-3, 73–75	341.74	83.16	51	13,212	16	3,155
14H-1, 73-75 122.04 93.27 39 17,156 11 2,116 38X-1, 73-75 347.64 90.03 41 16,735 8 2,741 14H-3, 73-75 125.04 93.14 34 25,917 NA 3,209 38X-3, 73-75 350.64 87.67 50 20,905 NA 2,862 14H-5, 73-75 131.54 97.03 67 23,591 8 2,808 39X-3, 73-75 350.64 87.67 50 20,905 NA 2,862 15H-1, 73-75 131.54 96.92 75 22,496 9 3,329 40X-1, 73-75 365.74 89.31 42 15,884 9 2,715 15H-5, 73-75 137.54 94.36 71 24,260 10 2,879 40X-3, 73-75 368.74 93.38 33 13,407 9 3,099 16H-1, 73-75 141.04 95.04 89 19,514 8 3,197 46X-1, 75-77 426.66 86.20 54 17,314 14 2,038 17H-1, 73-75 150.54 91.09 45 22,271	13H-5, 73–75	118.54	92.23	55	25,228	11	2,893	37X-5, 73–75	344.74	86.12	52	17,647	14	2,049
14H-3, 73-75 125.04 93.14 34 25,917 NA 3,209 38X-3, 73-75 350.64 87.67 50 20,905 NA 2,862 14H-5, 73-75 128.04 98.69 72 26,627 NA 3,347 39X-1, 73-75 350.64 87.67 50 20,905 NA 2,862 15H-1, 73-75 131.54 97.03 67 23,591 8 2,808 39X-3, 73-75 350.44 87.86 41 17,352 8 2,319 15H-5, 73-75 131.54 96.92 75 22,496 9 3,229 40X-1, 73-75 365.74 93.38 33 13,407 9 3,099 16H-1, 73-75 141.04 94.48 59 19,514 8 3,197 46X-1, 75-77 423.66 88.06 51 16,870 13 2,603 16H-5, 73-75 147.04 94.52 22,717 10 2,657 46X-5, 75-77 420.66 83.38 45 21,599 13 1,720 17H-1, 73-75 160.04 93.26 35 17,647 8	14H-1, 73–75	122.04	93.27	39	17,156	11	2,116	38X-1, 73–75	347.64	90.03	41	16,735	8	2,741
14H-5, 73-75 128.04 98.69 72 26,627 NA 3,347 39X-1, 73-75 356.44 87.28 65 11,048 9 3,969 15H-1, 73-75 131.54 97.03 67 23,591 8 2,808 39X-3, 73-75 359.44 87.86 41 17,352 8 2,319 15H-3, 73-75 137.54 94.36 71 24,260 10 2,879 40X-1, 73-75 366.74 89.31 42 15,884 9 3,006 16H-1, 73-75 141.04 95.04 38 18,969 8 3,005 43X-1, 73-75 366.74 93.38 33 13,407 9 3,006 16H-3, 73-75 141.04 95.04 38 18,969 8 3,197 46X-1, 75-77 423.66 88.06 51 16,870 13 2,603 16H-5, 73-75 150.54 91.09 45 22,271 10 2,657 46X-3, 75-77 426.66 86.20 54 17,314 14 2,038 17H-1, 73-75 156.54 89.56 31 20,627 <	14H-3, 73–75	125.04	93.14	34	25,917	NA	3,209	38X-3, 73–75	350.64	87.67	50	20,905	NA	2,862
15H-1, 73-75 131.54 97.03 67 23,591 8 2,808 39X-3, 73-75 359.44 87.86 41 17,352 8 2,319 15H-3, 73-75 134.54 96.92 75 22,496 9 3,329 40X-1, 73-75 365.74 89.31 42 15,884 9 2,715 15H-5, 73-75 134.04 95.04 38 18,969 8 3,005 43X-1, 73-75 368.74 93.38 33 13,407 9 3,099 16H-1, 73-75 144.04 94.48 59 19,514 8 3,197 46X-1, 75-77 423.66 88.06 51 16,870 13 2,066 16H-5, 73-75 144.04 94.48 59 19,514 8 3,439 46X-1, 75-77 426.66 86.20 54 17,314 14 2,038 17H-1, 73-75 150.54 91.09 45 22,271 10 2,657 46X-5, 75-77 429.66 83.38 45 21,599 13 1,720 17H-3, 73-75 160.04 93.20 35 17,647 <t< td=""><td>14H-5, 73–75</td><td>128.04</td><td>98.69</td><td>72</td><td>26,627</td><td>NA</td><td>3,347</td><td>39X-1, 73–75</td><td>356.44</td><td>87.28</td><td>65</td><td>11,048</td><td>9</td><td>3,969</td></t<>	14H-5, 73–75	128.04	98.69	72	26,627	NA	3,347	39X-1, 73–75	356.44	87.28	65	11,048	9	3,969
15H-3, 73-75 134.54 96.92 75 22,496 9 3,329 40X-1, 73-75 365.74 89.31 42 15,884 9 2,715 15H-5, 73-75 137.54 94.36 71 24,260 10 2,879 40X-1, 73-75 365.74 89.31 42 15,884 9 2,715 15H-5, 73-75 141.04 95.04 38 18,969 8 3,005 43X-1, 73-75 365.74 89.31 42 15,884 9 2,715 16H-5, 73-75 144.04 94.48 59 19,514 8 3,197 46X-1, 75-77 423.66 86.06 51 16,870 13 2,603 16H-5, 73-75 150.54 91.09 45 22,271 10 2,657 46X-5, 75-77 426.66 86.20 54 17,314 14 2,038 17H-1, 73-75 156.54 89.56 31 20,627 10 2,483 138-1,73-75 470.24 92.35 49 14,171 13 1,984 18H-1, 73-75 160.04 93.04 52 21,744 <	15H-1, 73–75	131.54	97.03	67	23,591	8	2,808	39X-3, 73–75	359.44	87.86	41	17,352	8	2,319
15H-5, 73-75 137.54 94.36 71 24,260 10 2,879 40X-3, 73-75 368.74 93.38 33 13,407 9 3,099 16H-1, 73-75 141.04 95.04 38 18,969 8 3,005 43X-1, 73-75 394.64 89.74 42 18,854 13 2,066 16H-3, 73-75 144.04 94.48 59 19,514 8 3,197 46X-3, 75-77 423.66 88.06 51 16,870 13 2,603 16H-5, 73-75 147.04 95.31 85 25,052 8 3,439 46X-3, 75-77 426.66 86.20 54 17,314 14 2,038 17H-1, 73-75 150.54 91.09 45 22,271 10 2,657 46X-5, 75-77 426.66 86.20 54 17,314 14 2,038 17H-5, 73-75 160.04 93.26 55 17,647 8 2,791 13R-1,73-75 470.24 92.35 49 14,171 13 1,984 18H-5, 73-77 169.55 92.06 42 18,008	15H-3, 73–75	134.54	96.92	75	22,496	9	3,329	40X-1, 73-75	365.74	89.31	42	15,884	9	2,715
16H-1, 73-75 141.04 95.04 38 18,969 8 3,005 43X-1, 73-75 394.64 89.74 42 18,854 13 2,066 16H-3, 73-75 144.04 94.48 59 19,514 8 3,197 46X-1, 75-77 423.66 88.06 51 16,870 13 2,603 16H-5, 73-75 147.04 95.31 85 25,052 8 3,439 46X-3, 75-77 423.66 88.06 51 16,870 13 2,603 17H-1, 73-75 150.54 91.09 45 22,271 10 2,657 46X-5, 75-77 429.66 83.38 45 21,599 13 1,720 17H-5, 73-75 166.04 93.26 35 17,647 8 2,791 13R-1, 73-75 470.24 92.35 49 14,171 13 1,984 18H-5, 73-77 166.04 93.04 52 21,744 NA 3,310 13R-3, 73-75 470.24 92.35 49 14,171 13 1,984 18H-5, 73-77 169.55 92.06 42 18,008	15H-5, 73-75	137.54	94.36	71	24,260	10	2,879	40X-3. 73-75	368.74	93.38	33	13,407	9	3,099
16H-3, 73-75 144.04 94.48 59 19,514 8 3,197 46X.1, 75-77 423.66 88.06 51 16,870 13 2,603 16H-5, 73-75 147.04 95.31 85 25,052 8 3,439 46X.1, 75-77 423.66 88.06 51 16,870 13 2,603 17H-1, 73-75 150.54 91.09 45 22,271 10 2,657 46X-5, 75-77 423.66 86.20 54 17,314 14 2,033 17H-1, 73-75 153.54 92.42 39 20,171 10 2,598 46X-5, 75-77 429.66 83.38 45 21,599 13 1,720 17H-5, 73-75 156.54 89.56 31 20,627 10 2,483 182-1129D- 13R-1, 73-75 470.24 92.35 49 14,171 13 1,984 18H-5, 73-75 166.04 93.04 52 21,744 NA 3,310 13R-5, 73-75 470.24 92.35 49 14,171 13 1,984 18H-5, 73-77 172.55 93.52 45 <td>16H-1, 73–75</td> <td>141.04</td> <td>95.04</td> <td>38</td> <td>18,969</td> <td>8</td> <td>3.005</td> <td>43X-1. 73-75</td> <td>394.64</td> <td>89.74</td> <td>42</td> <td>18,854</td> <td>13</td> <td>2,066</td>	16H-1, 73–75	141.04	95.04	38	18,969	8	3.005	43X-1. 73-75	394.64	89.74	42	18,854	13	2,066
16H-5, 73-75 147.04 95.31 85 25,052 8 3,439 46X-3, 75-77 426.66 86.20 54 17,314 14 2,035 17H-1, 73-75 150.54 91.09 45 22,271 10 2,657 46X-3, 75-77 426.66 86.20 54 17,314 14 2,035 17H-3, 73-75 150.54 91.09 45 22,271 10 2,657 46X-3, 75-77 426.66 86.20 54 17,314 14 2,038 17H-3, 73-75 155.54 92.42 39 20,171 10 2,598 48X-1, 73-75 442.74 88.71 54 17,829 11 2,256 17H-5, 73-75 166.04 93.20 48 19,275 NA 3,413 138-1, 73-75 470.24 92.35 49 14,171 13 1,984 18H-5, 73-75 166.04 93.04 52 21,744 NA 3,310 138-3,73-75 476.24 88.91 62 14,831 12 2,154 19H-5, 73-77 172.55 93.52 45 17,791	16H-3, 73-75	144.04	94.48	59	19,514	8	3,197	46X-1, 75-77	423.66	88.06	51	16.870	13	2 603
17H-1, 73-75 150.54 91.09 45 22,271 10 2,657 46X-5, 75-77 429.66 83.38 45 21,599 13 1,720 17H-3, 73-75 153.54 92.42 39 20,171 10 2,598 46X-5, 75-77 429.66 83.38 45 21,599 13 1,720 17H-3, 73-75 156.54 89.56 31 20,627 10 2,483 48X-1, 73-75 442.74 88.71 54 17,829 11 2,256 18H-1, 73-75 160.04 93.26 35 17,647 8 2,791 13R-1,73-75 470.24 92.35 49 14,171 13 1,984 18H-5, 73-75 166.04 93.04 52 21,744 NA 3,310 13R-3, 73-75 473.24 88.91 62 14,831 12 2,154 19H-3, 73-77 172.55 93.52 45 17,791 10 3,356 Minimum: 81.99 30 11,048 8 1,720 19H-5, 73-77 175.55 92.50 52 17,368 11 3	16H_5_73_75	147.04	95 31	85	25 052	8	3,12,	468-3 75 77	426.66	86.20	54	17 314	14	2 038
17H-3, 73-75 153.54 92.42 39 20,171 10 2,598 48X-1, 73-75 422.00 63.36 43 21,399 13 1,720 17H-3, 73-75 155.54 89.56 31 20,627 10 2,483 48X-1, 73-75 442.74 88.71 54 17,829 11 2,256 18H-1, 73-75 166.04 93.26 35 17,647 8 2,791 13R-1,73-75 470.24 92.35 49 14,171 13 1,984 18H-5, 73-75 166.04 93.04 52 21,744 NA 3,310 13R-3,73-75 473.24 88.91 62 14,831 12 2,154 19H-1, 73-77 169.55 92.06 42 18,008 8 2,975 13R-5, 73-75 476.24 81.99 50 15,327 18 1,767 19H-3, 73-77 175.55 92.50 52 17,368 11 3,458 Maximum: 98.87 130 26,831 33 4,277 20H-3, 73-77 175.05 91.55 32 17,691 10 2	17H_1 73 75	150 54	91 00	<u>⊿</u> 5	23,032	10	2 657	468.5 75 77	420.00	83.20	J - ∕/5	21 500	12	1 720
17H-5, 73-75 155.54 92.42 39 20,171 10 2,356 46x-1, 75-73 442.74 88.71 34 17,629 11 2,256 17H-5, 73-75 156.54 89.56 31 20,627 10 2,483 18L-1,73-75 160.04 93.26 35 17,647 8 2,791 13R-1,73-75 470.24 92.35 49 14,171 13 1,984 18H-5,73-75 166.04 93.04 52 21,744 NA 3,310 13R-3,73-75 470.24 92.35 49 14,171 13 1,984 18H-5,73-77 169.55 92.06 42 18,008 8 2,975 13R-5,73-75 476.24 81.99 50 15,327 18 1,767 19H-3,73-77 172.55 92.50 52 17,368 11 3,458 Maximum: 88.87 130 26,831 33 4,277 19H-5,73-77 179.05 91.38 36 21,881 8 2,780 Maximum: 98.87 130 26,831 33 4,277 20H-3,73-77<	1711-1, 73-73	152.54	02.42	20	22,271	10	2,037	407-3, 73-77	429.00	00.00	43	17 0 20	13	2 256
171-3, 73-75 130.34 69.36 51 20,027 10 2,463 182-1129D- 18H-1, 73-75 160.04 93.20 48 19,275 NA 3,413 13R-1, 73-75 470.24 92.35 49 14,171 13 1,984 18H-3, 73-75 166.04 93.04 52 21,744 NA 3,310 13R-3, 73-75 470.24 92.35 49 14,171 13 1,984 18H-5, 73-75 166.04 93.04 52 21,744 NA 3,310 13R-5, 73-75 470.24 92.35 49 14,171 13 1,984 19H-1, 73-77 169.55 92.06 42 18,008 8 2,975 13R-5, 73-75 476.24 81.99 50 15,327 18 1,767 19H-3, 73-77 175.55 92.50 52 17,368 11 3,458 Maximum: 98.87 130 26,831 33 4,277 20H-1, 73-77 179.05 91.38 36 21,881 8 2,780 Average: 92.12 56 19,993 11 <td< td=""><td>170-5,/3-/3</td><td>155.54</td><td>72.42 00 57</td><td>57 21</td><td>20,171</td><td>10</td><td>2,370 2 402</td><td>40/1,/3-/3</td><td>442./4</td><td>00./1</td><td>34</td><td>17,829</td><td>11</td><td>2,200</td></td<>	170-5,/3-/3	155.54	72.42 00 57	57 21	20,171	10	2,370 2 402	40/1,/3-/3	442./4	00./1	34	17,829	11	2,200
101-1, 73-73 100.04 93.20 35 17,647 8 2,791 18H-3, 73-75 163.04 93.20 48 19,275 NA 3,413 18H-5, 73-75 166.04 93.04 52 21,744 NA 3,310 19H-1, 73-77 169.55 92.06 42 18,008 8 2,975 19H-3, 73-77 172.55 93.52 45 17,791 10 3,356 19H-5, 73-77 175.55 92.50 52 17,368 11 3,458 20H-1, 73-77 179.05 91.38 36 21,881 8 2,780 20H-3, 73-77 188.05 90.53 30 17,378 9 2,796 21H-1, 73-75 188.54 91.62 40 20,943 11 3,061	1/1-3, /3-/3	100.04	07.30	51	20,62/	10	2,403 2,701	182-1129D-						
18H-5, 73-75 163.04 93.20 48 19,275 NA 3,413 18H-5, 73-75 166.04 93.04 52 21,744 NA 3,310 19H-1, 73-77 169.55 92.06 42 18,008 8 2,975 19H-3, 73-77 172.55 93.52 45 17,791 10 3,356 19H-5, 73-77 175.55 92.50 52 17,368 11 3,458 20H-1, 73-77 179.05 91.38 36 21,881 8 2,780 20H-3, 73-77 185.05 90.53 30 17,378 9 2,796 21H-1, 73-75 188.54 91.62 40 20,943 11 3,061	1011-1, /3-/5	160.04	93.26	35	17,64/	8	2,191	13R-1, 73–75	470.24	92.35	49	14,171	13	1,984
18H-5, /3-/5 166.04 93.04 52 21,744 NA 3,310 19H-1, /3-77 169.55 92.06 42 18,008 8 2,975 19H-3, /3-77 172.55 93.52 45 17,791 10 3,356 19H-5, /3-77 175.55 92.50 52 17,368 11 3,458 20H-1, /3-77 179.05 91.38 36 21,881 8 2,780 20H-3, /3-77 188.05 90.53 30 17,378 9 2,796 21H-1, /3-75 188.54 91.62 40 20,943 11 3,061 Note: NA = data not available.	18H-3, 73-75	163.04	93.20	48	19,275	NA	3,413	13R-3, 73–75	473.24	88.91	62	14,831	12	2,154
19H-1, 73-77 169.55 92.06 42 18,008 8 2,975 10110,1011 10121	18H-5, 73–75	166.04	93.04	52	21,744	NA	3,310	13R-5. 73-75	476.24	81.99	50	15,327	18	1,767
19H-3, 73–77 172.55 93.52 45 17,791 10 3,356 Minimum: 81.99 30 11,048 8 1,720 19H-5, 73–77 175.55 92.50 52 17,368 11 3,458 Maximum: 98.87 130 26,831 33 4,277 20H-1, 73–77 179.05 91.38 36 21,881 8 2,780 Average: 92.12 56 19,993 11 2,862 20H-3, 73–77 185.05 90.53 30 17,378 9 2,796 Note: NA = data not available. Note: NA = data not available.	19H-1, 73–77	169.55	92.06	42	18,008	8	2,975							.,
19H-5, 73-77 175.55 92.50 52 17,368 11 3,458 Maximum: 98.87 130 26,831 33 4,277 20H-1, 73-77 179.05 91.38 36 21,881 8 2,780 Average: 92.12 56 19,993 11 2,862 20H-3, 73-77 185.05 90.53 30 17,378 9 2,796 21H-1, 73-75 188.54 91.62 40 20,943 11 3,061 Note: NA = data not available.	19H-3, 73–77	172.55	93.52	45	17,791	10	3,356		Minimum:	81.99	30	11,048	8	1,720
20H-1, 73–77 179.05 91.38 36 21,881 8 2,780 20H-3, 73–77 182.05 91.55 32 17,691 10 2,694 20H-5, 73–77 185.05 90.53 30 17,378 9 2,796 21H-1, 73–75 188.54 91.62 40 20,943 11 3,061 Note: NA = data not available.	19H-5, 73–77	175.55	92.50	52	17,368	11	3,458		Maximum:	98.87	130	26,831	33	4,277
20H-3, 73–77 182.05 91.55 32 17,691 10 2,694 20H-5, 73–77 185.05 90.53 30 17,378 9 2,796 21H-1, 73–75 188.54 91.62 40 20,943 11 3,061 Note: NA = data not available.	20H-1, 73–77	179.05	91.38	36	21,881	8	2,780		Average.	9212	56	19,993	11	2 862
20H-5, 73–77 185.05 90.53 30 17,378 9 2,796 21H-1, 73–75 188.54 91.62 40 20,943 11 3,061 Note: NA = data not available.	20H-3, 73–77	182.05	91.55	32	17,691	10	2,694		, cruge.	2 1	50	,		_,302
21H-1, 73–75 188.54 91.62 40 20,943 11 3,061 Note: NA = data not available.	20H-5, 73–77	185.05	90.53	30	17,378	9	2,796							
	21H-1, 73–75	188.54	91.62	40	20,943	11	3,061	Note: NA = da	ata not ava	ilable.				

Table T5. Geochemical data, Site 1130.

Core, section, interval (cm)	Depth (mbsf)	CaCO ₃ (wt%)	Fe (ppm)	Mg (ppm)	Mn (ppm)	Sr (ppm)	_	Core, section, interval (cm)	Depth (mbsf)	CaCO₃ (wt%)	Fe (ppm)	Mg (ppm)	Mn (ppm)	(bt S
182-1130A-								18H-5, 73-75	167.24	93.31	80	13.297	11	2.8
1H-1, 73–75	0.74	93.15	75	14,702	11	2.489		19X-1, 73-75	170.74	91.44	70	8.814	9	2.8
1H-3, 73-75	3.74	94.52	112	17,213	12	2,476		19X-3, 73-75	173.74	92.32	41	5 093	16	2
1H-5, 73–75	6.74	98.81	83	15,406		2,658		19X-5, 73-75	176.74	94.59	55	9,747	9	2
2H-1 72-75	9 24	97.83	78	15 380	9	2 645		20X-1 73-75	178 14	89.48	144	14 121	23	2
2H-1,72-75	12.24	96.20	61	17 345	6	2,015		2012-1, 73-75	181 14	00.40 00.21	111	12 963	1/	2,
2H-5, 72-75	15.24	95.08	75	16 162	6	2,000		20X-5, 73-75	18/ 1/	94.42	63	9 070	0	2,
211-5,72-75	19.24	04.86	110	18 262	0 0	2,070		207-3, 73-73	197.74	20.56	44	1 026	19	2,
311-1,73-73 211-2,72,75	21 74	04.00	102	10,203	0	2,747		21/-1, 73-73	107.74	02.30	44 60	7 750	10	2,
3 3, 7 3 - 7 3	21.74	90.21	102	16,303	0	2,739		217-3, 73-73	190.74	95.70	02	/,/30	10	2,
411-1, 73-73	20.24	93.72	90	14 202	9	3,033		227-1, 73-73	200.24	92.37	41	0,017	10	2,
4	24.24	94.62	90	14,203	12	3,290		228-3, 73-73	200.34	94.00	10	/,0/0	10	Z,
4H-5, /3–/5	34.24	95.60	84	16,480	9	3,044		22X-5, /3-/5	203.34	93.04	43	4,969	10	1,
5H-1, /3–/5	3/./4	94.94	88	14,407	9	3,523		23X-1, /3-/5	206.94	90.45	106	12,025	20	2,
5H-3, 73–75	40.74	94.33	74	13,039	12	3,222		23X-3, 73–75	209.94	91.29	58	5,591	13	2,
5H-5, 73–75	43.74	96.14	101	15,740	12	3,170		23X-5, 73–75	212.94	92.40	31	3,306	21	1,
6H-1, 74–76	47.25	95.22	130	17,601	14	2,716		24X-1, 73–75	216.54	91.48	86	5,013	11	1,
6H-3, 74–76	50.25	96.65	107	16,694	9	2,914		24X-3, 73–75	219.54	92.74	70	5,055	11	1,
6H-6, 74–76	54.75	96.34	110	15,075	9	3,030		24X-5, 73–75	222.54	92.41	58	5,362	13	1,
7H-1, 72–74	56.73	96.24	89	16,561	8	3,086		25X-1, 73–75	226.14	90.04	408	4,908	17	1,
7H-3, 72–74	59.73	95.72	116	14,816	9	2,956		25X-3, 73–75	229.14	91.84	986	4,452	33	1,
7H-5, 72–74	62.73	93.54	118	14,284	10	3,244		25X-5, 73–75	232.14	90.81	731	3,954	22	1,
8H-1, 73–75	66.24	94.03	86	13,714	13	2,832		26X-1, 73-75	235.74	90.36	1,053	5,302	33	1,
8H-3, 73–75	69.24	95.22	104	17,674	9	2,804		26X-3, 73-75	238.74	87.30	647	5,111	30	1,
8H-5, 73–75	72.24	94.21	108	16,432	11	2,967		27X-1, 73-75	245.34	84.32	1,361	5,877	36	1,
9H-1, 71–73	75.72	93.50	129	15,040	11	3.062		27X-3, 73-75	248.34	92.51	683	5.922	33	1.
9H-3, 73-75	78.74	91.13	80	9,712	22	2.834		27X-5. 73-75	251.34	93.34	1.341	5.995	38	1.
9H-5, 72-75	81.74	93.82	131	15,918	13	2,722		28X-3, 72-74	258.03	93.15	1,416	5,726	80	1
10H-1 76-78	85 27	96.14	85	15 852	9	2 759		28X-5 72-74	261.03	94 33	241	1 445	58	1
10H-3 73_75	88 24	93.98	126	15 294	10	2 900		29X-1 73-75	264 64	90.97	244	1 329	53	1
10H-5 73 75	00.24 01 24	03.17	113	14 605	8	3 207		2012 73 73 75	267.64	02.32	244	1,522	67	1,
10H-5,75-75	9/ 7/	02.80	8/	12 518	9	3 3 2 5		20X-5,73-75	270 64	02.52	207	1 1 7 1	60	1
1111-1, 73-75	07 7/	02.07	75	12,510	0	3,323		201 1 72 75	270.04	01 70	227	1 1 / 9	67	1,
1111-5, 7 5-75	100 74	02 76	75	12,477	9	3,010		201 2 72 75	274.24	02 22	206	1,140	50	1,
118-5, 75-75	100.74	93.70	60	13,409	9	3,090		30X-3, 73-73	277.24	93.23	200	1,1/3	50	1,
1211-1, 73-73	104.24	95.05	96	14,203	9	3,008		3UA-3, 73-73	200.24	92.69	215	1,477	39	1,
12H-3, /3-/5	107.24	94.08	94	12,427	8	3,076		31X-1, /3-/5	283.84	87.48	233	1,679	4/	1,
12H-5, 73-75	110.24	92.94	62	7,001	12	2,///		31X-3, /3-/5	286.84	92.22	232	1,334	62	1,
13H-1, /3–/5	113./4	95.40	91	14,285	12	2,644		31X-5, /3-/5	289.84	92.06	2/6	1,945	55	1,
13H-3, 73–75	116.74	95.65	85	13,089	11	2,641		32X-1, 73–75	293.54	93.35	206	2,129	49	1,
13H-5, 73–75	119.74	92.97	113	13,706	9	3,145		32X-3, 73–75	296.54	92.00	229	1,813	49	1,
14H-1, 73–75	123.24	93.26	99	12,481	9	3,227		32X-5, 73–75	299.54	93.99	219	1,317	56	1,
14H-3, 73–75	125.94	92.43	75	9,744	9	3,182		33X-1, 73–75	303.14	94.76	203	1,277	48	1,
14H-5, 73–75	128.94	92.61	110	10,840	11	3,061		33X-3, 73–75	306.14	93.05	229	1,143	51	1,
15H-1, 73–75	132.74	92.05	51	4,653	19	2,094		33X-5, 73–75	309.14	95.54	249	1,329	56	1,
15H-3, 73–75	135.74	88.81	161	13,431	19	2,624		34X-1, 73–75	312.74	91.20	210	1,139	59	1,
15H-5, 73–75	138.74	95.21	67	11,436	11	2,621		34X-3, 73–75	315.74	90.68	194	996	56	1,
16H-1, 73–75	142.24	92.29	92	14,880	8	3,063		34X-5, 73–75	318.74	89.32	231	1,183	88	1,
16H-3, 73–75	144.22	92.83	108	13,983	9	2,964		35X-2, 73-75	323.94	87.50	213	1,830	60	1.
16H-5, 73-75	147.22	93.48	75	9.418	9	3.186		35X-3, 73-75	325.44	88.83	212	1.653	69	1
17H-1, 73-75	151 74	94 64	67	12,816	6	3.228		35X-5, 73-75	328 44	94.41	202	1,466	77	1
17H-3 73_75	154 74	94 77	64	11 652	R	3 074		55K 5, 75-75	520.77	2 1171	202	1,400	.,	',
17H_5 72 75	157 74	93 /8	-0 60	8 0 2 2	6	2 8 2 1		1	√linimum:	84.32	31	996	6	1,
184-1 72 75	161 24	01 71	40	0,255	Q Q	2,021		N	/laximum:	98.81	1,416	18,563	88	3,
1011-1, / 3-/ 3	16/ 2/	21./1 0/ 02	0Z 2E	7,0JZ	0	2,021 2,010			Average	93 09	195	9 303	24	2
18H-3, 73-75	164.24	94.23	65	10,751	9	2,818			Average:	95.09	173	9,303	24	۷,

 Table T6. Geochemical data, Site 1131.

Core, section, interval (cm)	Depth (mbsf)	CaCO ₃ (wt%)	Fe (ppm)	Mg (ppm)	Mn (ppm)	Sr (ppm)	-	Core, section, interval (cm)	Depth (mbsf)	CaCO ₃ (wt%)	Fe (ppm)	Mg (ppm)	Mn (ppm)	Sr (ppm)
102 1121 4							-	252 2 72 75	210.24	00 11	75	12.002	14	2 4 4 1
182-1131A-	0.74	04.07	60	15 262	10	2 2 2 7		25X-3, /3-/5	219.34	88.11	/5	12,002	14	2,441
1 III-1, / 3-/ 3 2 III-1, 73 75	0.74	94.07	63	13,203	12	2,277		201-1, 70-70	223.77	04.24 80.77	0Z 125	11,720	15	2,093
211-1, 73-73	4.14	93.31	75	17 779	10	2,217		207-3, 73-73	220.74	07.77	67	10 680	25 14	2,491
2H-5, 73-75	10.19	97.02	75	17,770	10	2,700		207-3, 73-73	231.74	92.75	55	9 692	14	3 009
3H-1, 73–75	13.64	96.23	70	15,219	11	2,596		27X-3, 73-75	238.24	89.47	64	12,977	10	2.849
3H-3, 73–75	16.64	96.09	89	17.542	14	2,234		28X-1, 73-75	244.24	86.26	84	11 498	13	3,219
3H-5, 71–73	19.62	96.37	73	15,289	9	2,433		28X-3, 73-75	247.24	85.45	86	9.817	16	2,636
4H-1, 73–75	23.14	96.49	82	14,644	11	2,331		28X-5, 73-75	250.24	88.67	73	13,916	8	2,955
4H-3, 73–75	26.14	98.31	84	14.906	9	2.446		30X-1, 73-75	262.74	90.59	68	10.344	13	3.212
4H-5, 73–75	29.14	96.03	95	15.855	11	2.522		31X-1, 73–75	272.14	86.48	75	13,639	12	2,883
5H-1, 73-75	32.64	94.74	79	11.064	12	2.220		31X-3, 73-75	275.14	85.10	84	15,201	13	2.829
5H-3, 73–75	35.64	93.21	104	14,252	10	2,387		31X-5, 73-75	278.14	85.25	73	13,858	13	2,846
5H-5, 73–75	38.64	94.10	91	13,174	10	2,255		32X-1, 73–75	281.64	90.07	138	10,223	23	3,524
6H-1, 73–75	42.14	94.26	83	12,351	10	2,130		32X-3, 73–75	284.64	89.11	118	8,721	15	4,331
6H-3, 73–75	45.14	92.55	82	12,026	11	2,025		33X-1, 73-75	291.14	90.69	61	11,701	10	3,220
6H-5, 73–75	48.14	93.51	110	14,197	11	1,978		33X-3, 73-75	294.14	89.61	92	13,633	10	2,945
7H-1, 73–75	51.64	95.35	154	16,238	11	2,313		33X-5, 73-75	297.14	90.94	104	8,551	12	3,061
7H-3, 73–75	54.64	94.98	144	15,928	12	2,283		34X-1, 73–75	300.64	88.50	115	12,089	14	3,018
7H-5, 73–75	57.64	92.12	138	14,893	13	2,343		34X-3, 73–75	303.64	91.09	93	9,776	13	3,004
8X-1, 73-75	61.14	90.22	110	14,246	13	2,410		34X-5, 73–75	306.64	83.03	113	22,663	15	2,423
8X-3, 73-75	64.14	90.90	93	12,124	13	2,260		35X-1, 72–74	310.23	89.02	114	9,638	24	2,858
8X-5, 73-75	66.64	89.04	104	10,212	16	2,314		35X-3, 72–74	313.23	88.60	229	16,107	32	3,849
9X-1, 73–75	68.34	89.13	59	10,180	11	2,289		36X-1, 73–75	319.84	92.75	112	11,233	13	2,818
9X-3, 73–75	71.34	90.94	54	9,088	10	2,798		36X-3, 73–75	322.84	92.33	130	9,134	16	3,378
10X-1, 73–75	77.34	91.84	60	9,348	11	2,172		37X-1, 73–75	329.44	94.67	104	8,898	14	3,109
10X-3, 73–75	80.34	91.44	64	7,422	11	2,239		37X-3, 73–75	332.44	92.27	98	18,083	12	2,974
10X-5, 73–75	83.34	87.94	61	6,910	10	2,064		38X-1, 73–75	339.04	89.93	113	9,981	14	2,349
11X-1, 73–75	86.14	86.03	79	7,169	12	2,107		38X-3, 73–75	342.04	87.75	112	16,219	15	2,549
11X-3, 73–75	89.14	87.50	76	9,584	16	2,013		38X-5, 73–75	345.04	90.97	110	10,384	14	1,930
11X-5, 73–75	92.14	91.26	95	13,862	10	2,556		39X-1, 72–74	348.73	87.04	165	10,345	27	3,032
12X-1, 73–75	95.74	89.32	80	13,329	11	2,467		40X-1, 73–75	358.34	90.16	99	12,766	13	2,825
12X-3, 73–75	98.74	89.32	86	10,801	10	2,528		40X-3, 73–75	361.34	89.57	77	14,270	11	2,283
12X-5, 73–75	101.74	90.35	68	9,506	11	2,729		41X-1, 73–75	367.94	89.22	104	13,802	11	2,395
13X-1, 73–75	105.34	89.17	71	10,344	10	2,475		41X-3, 73–75	370.94	86.67	123	10,334	14	2,239
13X-3, 73–75	108.34	88.78	57	10,323	12	2,687		42X-1, 73–75	377.54	92.48	76	8,842	11	2,349
13X-5, 73–75	111.34	87.31	71	8,706	12	2,563		42X-3, 73–75	380.54	88.55	73	15,619	11	2,370
14X-1, 72–74	114.33	87.27	76	7,784	12	2,381		43X-1, 73–75	387.14	89.19	104	11,236	12	5,138
14X-3, 73–75	117.34	84.35	80	10,663	15	2,051		43X-3, 73–75	390.14	87.82	108	13,432	12	2,252
14X-5, 73–75	120.34	85.65	69	8,353	13	1,934		45X-1, 73–75	406.24	89.10	100	12,581	13	2,972
15X-1, 75–77	123.36	85.21	69	8,762	14	1,937		45X-3, 73–75	409.24	89.06	81	12,917	13	2,599
15X-3, 73–77	126.35	87.17	80	8,224	16	1,973		45X-5, 73–75	412.24	87.91	107	13,837	16	2,561
15X-5, 73–77	129.35	89.32	84	10,819	12	2,353		47X-1, 73–75	425.44	85.85	122	16,744	11	3,124
16X-1, /3-/5	132.64	89.12	121	13,225	13	2,230		4/X-3, /3-/5	428.44	90.34	100	16,143	12	2,849
16X-3, 72-74	135.63	91.26	169	14,265	18	2,228		48X-1, /3-/5	435.04	87.54	/5	12,323	14	4,020
107-2, 13-12	1 38.64	90.30	/1	14,3/6	10	2,35/		407-3, /3-/5	438.04	90.26	63	12,/25	14	1,929
1/A-1,/3-/3	142.04	91.40 כד סס	60	0,501	10	2,271		491, 1, 13-15	444./4	91.40	/8	12,049	10	1,/14
1/A-3,/3-//	143.03	00.75	0Z	0 720	10	2,105		491-3, 13-13	44/./4	07.20 20.07	0U	12,5/4	10	1,058
1/1-3,/3-//	140.00	70.30 00 21	00 60	9,129 0751	10	2,290 2 101		477-3, 13-13 508 1 73 75	430./4	07.0/ 00.70	50 20	11 22	1∠ 14	2,434 1 21 5
107-1,/0-00	151.39	90.21 00 01	0Z	7,/34	0 0	∠,401 2,200		JUA-1, / J-/J	434.34	90./9 01 47	00 71	12 020	14	1,013 1 21 7
101-3, / 3-/3	124.34	00.31 86 61	04 97	11 040	0 0	2,390		JUA-3, / 3-/3 508 5 73 75	437.34	71.4/ 80.42	/ I 0.2	12,029	12 10	1,01/
108-3 72 77	162 75	00.04 88.44	60 60	10 702	0	2,300 2,525		51X-3, 13-13	400.34	07.00 88 10	0) 84	12,090 8 621	1∠ 17	1,798
108-5 72 75	166 74	00.00 00 20	02 99	10,793	9 10	2,333		518-3 74 74	403.73 166 QC	86 56	75	0,004 11 104	17	1 600
208.1 72 75	170 04	92 11	00 87	11 000	10	2,570		517-3, 74-70 538-1 72 75	482 24	92 1 2	7 J	10 245	16	1 / 77
201-1, 73-73	172.04	22.11 80 75	76	12 057	2	2,000 2 361		538-1, / 5-/ 5	485 76	23.12 88.00	87	14 670	15	2 760
201-5, 70-72	176.04	89.75	70	12,757	U Q	2,304		538-5, 25-27	480 24	88 63	7/	15 220	16	1 674
2012-1 72 75	179.24	90 02	77	10 844	0	2,323		54X-1 72 75	497 81	88 78	90	10 41 2	15	3 784
21X-3, 73-75	182 34	92.67	69	10 315	9	2,570		548-3 73-75	495 84	85 97	102	11 440	18	3 2 2 2 5
21X-5, 73-75	185 34	90.15	79	11 286	9	2,510		54X-5,75-75	498 84	90 44	69	20 478	14	1 468
278-1 73-75	188 94	88 43	74	11 110	10	2,557		55X-1 73-75	502 44	90.14	80	12 677	16	2 2 2 0 2 2 2 0
22X-1, 7 3-7 3 22X-3 73-75	191 94	88 47	77	11 172	11	2,020		55X-3 73_75	505 44	91.05	70	9 901	20	4 904
23X-1 73-75	198 34	87.62	68	11 363	11	2,707		56X-1 72_74	512 03	90.04	59	7 587	19	1 631
23X-3 73_75	201 34	83 38	87	11,216	13	2,162		58X-1 73_75	531 34	82 78	117	6 407	21	2 761
24X-1 73-75	207.34	94 23	84	9 970	11	3 162		507-1,75-75	551.54	02.70	117	0,707	21	2,701
24X-3, 73-75	210.34	89.35	71	14,254	11	2.672		Ν	Ainimum:	82.78	50	6,407	8	1,468
24X-5, 71-73	213.32	89.23	75	11.828	10	2.635		N	laximum:	98.31	229	22,663	32	5,138
25X-1.73-77	216.35	89.25	75	9.790	12	2.642			Average:	89.95	87	12,124	13	2,559
	2.0.55	07.20	, ,	-,		2,072						,	-	,/

Core, section,	Depth (mbsf)	$CaCO_3$	Fe (ppm)	Mg (ppm)	Mn (ppm)	Sr (ppm)	Core, section,	Depth (mbsf)	$CaCO_3$	Fe (ppm)	Mg (ppm)	Mn (nnm)	Sr (ppm)
	(11031)	(11170)	(ppiii)	(ppiii)	(ppiii)	(ppiii)		(11051)	(111)0)	(ppiii)	(ppiii)	(ppiii)	(ppiii)
182-1132B-							14H-3, 73–75	124.54	90.43	68	13,541	6	2,893
1H-1, 73–75	0.74	97.78	73	19,055	6	2,776	14H-5, 73–75	127.54	92.42	104	15,116	9	3,096
1H-3, 73–75	3.74	97.60	69	16,733	4	3,071	15H-1, 73–75	131.04	93.55	170	14,512	12	2,678
2H-1, 73–75	7.54	98.43	68	19,428	6	2,703	15H-3, 73–75	134.04	86.87	89	15,289	17	3,274
2H-3, 73–75	10.54	96.99	54	17,014	6	3,268	15H-5, 73–75	137.04	93.18	83	14,236	30	2,217
2H-5, 73–75	13.54	96.47	63	17,578	6	3,209	16H-1, 73–75	140.54	91.00	96	15,159	15	2,543
3H-1, 73–75	17.04	96.95	70	17,317	6	2,911	16H-3, 73–75	143.54	92.15	50	2,309	12	11,859
3H-3, 73–75	20.04	95.99	72	17,341	6	2,930	16H-5, 73–75	146.54	91.57	113	13,541	12	2,825
3H-5, 73–75	23.04	97.13	87	17,289	5	2,933	17H-1, 73–75	150.04	94.28	54	13,180	10	2,495
4H-1, 73–75	26.54	96.00	67	13,199	7	4,126	17H-3, 73–75	152.54	92.33	59	10,680	40	2,083
4H-3, 73–75	29.54	95.31	110	15,218	6	3,522	17H-5, 73–75	155.54	89.82	66	11,960	17	2,386
4H-5, 73–75	32.54	94.78	100	16,755	6	2,946	18H-1, 73–75	159.54	90.21	59	13,656	10	1,958
5H-3, 73–75	39.04	96.63	70	15,069	6	3,093	18H-3, 73–75	162.54	89.52	60	12,122	11	1,689
5H-5, 73–75	42.04	97.40	52	14,751	7	3,824	18H-5, 73–75	165.54	91.22	47	10,470	7	1,665
6H-1, 73–76	45.55	96.70	68	15,047	7	3,541	19X-1, 75–77	169.06	89.16	52	12,723	8	1,875
6H-3, 73–76	48.55	96.30	69	17,430	11	2,580	21X-1, 73–75	182.54	92.26	56	7,091	10	1,335
6H-5, 77–79	51.58	98.38	87	17,563	10	2,741	21X-3, 73–75	185.54	89.94	60	11,134	8	1,848
7H-1, 73–75	55.04	96.65	95	19,700	8	2,741	22X-1, 73–75	192.04	90.92	44	6,695	13	1,276
7H-3, 73–75	58.04	95.81	77	16,171	8	3,375	22X-3, 73–75	195.04	90.51	56	9,392	7	1,504
7H-5, 73–75	61.04	95.06	93	15,981	7	3,317	22X-5, 73–75	198.04	90.13	48	9,172	8	1,616
8H-1, 73–75	64.54	92.83	121	16,802	9	3,084	23X-1, 73–75	201.44	91.87	45	7,923	10	1,312
8H-3, 73–75	67.54	92.79	106	14,311	9	3,138	23X-3, 73–75	204.44	88.72	77	11,213	9	1,810
8H-5, 73–75	70.54	95.43	71	16,174	11	2,916	23X-5, 73–75	207.44	88.90	47	7,837	9	1,491
9H-1, 71–73	74.02	98.07	59	21,095	6	2,621	24X-1, 73–75	210.84	89.29	55	9,864	6	2,212
9H-3, 73–75	77.04	93.89	93	14,613	18	2,882	24X-3, 73–75	213.84	89.55	57	3,242	8	9,386
9H-5, 73–75	80.04	92.45	106	16,145	7	3,317	24X-5, 73–75	216.84	88.89	48	1,668	9	9,673
10H-3, 75–77	86.56	95.65	64	12,763	8	2,736	25X-1, 74–76	220.25	90.40	50	11,126	6	1,675
10H-5, 75–77	89.56	93.90	125	16,371	8	3,265	26X-1, 73-75	229.64	86.27	50	11,636	7	5,369
11H-3, 75–77	96.06	92.94	90	12,900	8	2,917	26X-3, 73-75	232.64	90.58	48	10,687	6	1,571
11H-5, 75–77	99.06	92.84	74	11,192	9	2,633	26X-5, 73-75	235.64	87.79	71	11,076	6	1,827
12H-1, 73–75	102.54	90.42	43	8,434	11	2,100	27X-1, 73-75	239.24	88.84	64	7,276	7	1,480
12H-3, 73–75	105.54	90.30	58	10,295	11	2,151	28X-1, 73-75	248.64	91.90	139	2,932	20	1,095
12H-5, 73–75	108.54	94.78	55	11,730	8	3,095	,		04.07	41	1		1 005
13H-1, 73–75	112.04	93.83	62	10,671	13	2,556		iviinimum:	86.27	41	1,668	4	1,095
13H-3, 73–75	115.04	94.78	58	11,961	10	3,079	r	viaximum:	98.43	170	21,095	40	11,859
13H-5, 73–75	118.04	93.49	96	14,647	7	3,558		Average:	92.25	73	12,951	10	2,940
14H-1, 73–75	121.54	91.15	41	13,498	7	2.267		-					

Table T7. Geochemical data, Site 1132.