

DESCRIPTIONS OF SEDIMENT RECOVERED
BY THE R/V *NATHANIEL B. PALMER*,
UNITED STATES ANTARCTIC PROGRAM
CRUISE 03, 2000

Piston, Kasten, and Trigger Core
Descriptions, & Smear Slide Analyses
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Funding for the Antarctic Marine Geology Research Facility is provided by the National
Science Foundation (Office of Polar Programs)

Table 1. NBP00-03 coring statistics

Station ID	Core Type	Latitude (°S)	Longitude (°W)	Depth (m)	Length (cm)	TC length (cm)	Bag sample
NBP00-03-01	KC	64.457	58.755	768	303.0	NA	Yes
NBP00-03-02A	KC	64.741	58.870	504	46.5	NA	No
NBP00-03-02B	KC	64.741	58.870	504	230.0	NA	Yes
NBP00-03-02	JGC	64.741	58.870	504	174.0	NA	Yes
NBP00-03-02	MGC	64.741	58.870	504	42.5	NA	No
NBP00-03-03	JGC	64.031	59.690	385	167.0	NA	No
NBP00-03-04	KC	64.875	60.543	668	73.0	NA	Yes
NBP00-03-04	JGC	64.875	60.543	668	----	NA	Yes
NBP00-03-05	KC	64.911	60.673	978	144.0	NA	No
NBP00-03-05	JGC	64.911	60.673	978	101.0	NA	Yes
NBP00-03-05A	MTC	64.911	60.673	978	65.0	NA	Yes
NBP00-03-05B	MTC	64.911	60.673	978	61.0	NA	No
NBP00-03-05C	MTC	64.911	60.673	978	63.0	NA	Yes
NBP00-03-06	KC	64.894	60.367	733	69.0	NA	Yes
NBP00-03-06	JGC	64.894	60.367	733	---	NA	No
NBP00-03-06	MGC	64.894	60.367	733	36.0	NA	Yes
NBP00-03-06A	MTC	64.894	60.367	733	47.0	NA	Yes
NBP00-03-06B	MTC	64.894	60.367	733	34.0	NA	Yes
NBP00-03-06C	MTC	64.894	60.367	733	44.0	NA	Yes

NA= Not Applicable

Table 1. NBP00-03 coring statistics

Station ID	Core Type	Latitude (°S)	Longitude (°W)	Depth (m)	Length (cm)	TC length (cm)	Bag sample
NBP00-03-07A	KC	64.862	60.281	839	32.0	NA	Yes
NBP00-03-07B	KC	64.862	60.281	839	143.0	NA	Yes
NBP00-03-07	JGC	64.862	60.281	839	---	NA	No
NBP00-03-07	MGC	64.862	60.281	839	36.0	NA	Yes
NBP00-03-07	MTC	64.862	60.281	839	51.0	NA	Yes
NBP00-03-16	KC	64.966	60.124	713	35.0	NA	Yes
NBP00-03-19	KC	64.916	60.568	879	133.0	NA	Yes
NBP00-03-19	JGC	64.916	60.568	879	39.0	NA	No
NBP00-03-20	KC	65.007	60.463	899	134.0	NA	No
NBP00-03-20	JGC	65.007	60.463	899	251.0	NA	Yes
NBP00-03-21	KC	64.979	60.442	912	87.5	NA	Yes
NBP00-03-21	JGC	64.979	60.442	912	146.0	NA	No
NBP00-03-22	KC	64.942	60.505	868	95.0	NA	Yes
NBP00-03-22	JGC	64.942	60.505	868	165.0	NA	Yes
NBP00-03-23	KC	64.823	60.507	901	230.0	NA	Yes
NBP00-03-23	JGC	64.823	60.507	901	218.0	NA	Yes
NBP00-03-25	KC	64.804	59.761	628	30.0	NA	Yes
NBP00-03-25	JGC	64.804	59.761	628	28.0	NA	Yes
NBP00-03-26	KC	64.807	59.279	564	61.0	NA	Yes

NA= Not Applicable

Table 1. Continued NBP00-03 coring statistics

Station ID	Core Type	Latitude (°S)	Longitude (°W)	Depth (m)	Length (cm)	TC length (cm)	Bag sample
NBP00-03-26	JGC	64.807	59.279	564	46.0	NA	Yes
NBP00-03-27	KC	64.626	58.871	684	206.0	NA	Yes
NBP00-03-28	KC	64.371	58.762	794	301.0	NA	Yes
NBP00-03-28A	MTC	64.371	58.762	794	66.0	NA	Yes
NBP00-03-28B	MTC	64.371	58.762	794	66.0	NA	Yes
NBP00-03-28C	MTC	64.371	58.762	794	63.0	NA	Yes
NBP00-03-29	KC	64.450	58.610	690	302.0	NA	Yes
NBP00-03-29A	MTC	64.450	58.610	690	53.0	NA	Yes
NBP00-03-29B	MTC	64.450	58.610	690	63.0	NA	Yes
NBP00-03-29C	MTC	64.450	58.610	690	63.0	NA	Yes
NBP00-03-30	KC	64.510	58.707	843	302.0	NA	Yes
NBP00-03-30A	MTC	64.510	58.707	843	61.5	NA	Yes
NBP00-03-30B	MTC	64.510	58.707	843	65.0	NA	Yes
NBP00-03-30C	MTC	64.510	58.707	843	65.0	NA	Yes
NBP00-03-32	KC	64.510	58.674	887	225.0	NA	Yes
NBP00-03-33	KC	64.450	58.621	587	58.0	NA	Yes
NBP00-03-34	KC	64.443	58.606	865	306.0	NA	Yes
NBP00-03-34A	MTC	64.443	58.606	865	70.0	NA	Yes
NBP00-03-34B	MTC	64.443	58.606	865	82.0	NA	Yes
NBP00-03-34C	MTC	64.443	58.606	865	73.0	NA	Yes

NA= Not Applicable

Table 1. Continued NBP00-03 coring statistics

Station ID	Core Type	Latitude (°S)	Longitude (°W)	Depth (m)	Length (cm)	TC length (cm)	Bag sample
NBP00-03-35	KC	64.298	58.607	651	60.0	NA	Yes
NBP00-03-36	KC	64.824	57.577	695	302.0	NA	Yes
NBP00-03-37	KC	64.746	57.443	736	302.0	NA	No
NBP00-03-38	KC	64.717	57.411	791	304.0	NA	Yes
NBP00-03-38	JPC	64.717	57.411	791	1986.0	127.0	Yes
NBP00-03-38A	MTC	64.717	57.411	791	49.0	NA	Yes
NBP00-03-38B	MTC	64.717	57.411	791	43.0	NA	Yes
NBP00-03-38C	MTC	64.717	57.411	791	58.0	NA	Yes
NBP00-03-39A	MTC	63.700	57.300	791	10.0	NA	No
NBP00-03-39B	MTC	63.700	57.300	791	22.0	NA	No
NBP00-03-40A	MTC	64.829	57.591	695	61.0	NA	Yes
NBP00-03-40B	MTC	64.829	57.591	695	57.0	NA	Yes

NA = Not applicable

Table 1. Continued NBP00-03 coring statistics

Table XX. NBP00-03 sampling statistics

Station ID	Sample Type	Latitude (°S)	Longitude (°W)	Depth (m)	Bag sample
NBP00-03-01	SMG	64.457	58.755	768	Yes
NBP00-03-02	SMG	64.741	58.870	504	Yes
NBP00-03-03	SMG	64.031	59.690	385	Yes
NBP00-03-04	SMG	64.875	60.543	668	Yes
NBP00-03-05	SMG	64.911	60.673	978	Yes
NBP00-03-06	SMG	64.894	60.367	733	Yes
NBP00-03-07	SMG	64.862	60.281	839	Yes
NBP00-03-10	SMG	64.950	60.217	819	Yes
NBP00-03-11	SMG	64.934	60.317	305	Yes
NBP00-03-12	SMG	64.917	60.400	317	Yes
NBP00-03-13	SMG	64.883	60.467	323	Yes
NBP00-03-14	SMG	64.850	60.550	419	Yes
NBP00-03-16	SMG	64.966	60.124	713	Yes
NBP00-03-17	SMG	64.650	60.117	719	Yes
NBP00-03-19	SMG	64.916	60.568	879	Yes
NBP00-03-20	SMG	65.007	60.463	899	Yes
NBP00-03-21	SMG	64.979	60.442	912	Yes

SMG = Smith MacIntyre grab

Table 2. NBP00-03 sampling statistics

Station ID	Core Type	Latitude (°S)	Longitude (°W)	Depth (m)	Bag sample
NBP00-03-22	SMG	64.942	60.505	868	Yes
NBP00-03-23	SMG	64.823	60.507	901	Yes
NBP00-03-25	SMG	64.804	59.761	628	Yes
NBP00-03-26	SMG	64.807	59.279	564	Yes
NBP00-03-27	SMG	64.626	58.871	684	Yes
NBP00-03-28	SMG	64.371	58.762	794	Yes
NBP00-03-29	SMG	64.450	58.610	690	Yes
NBP00-03-30	SMG	64.510	58.707	843	Yes
NBP00-03-32	SMG	64.510	58.674	887	Yes
NBP00-03-33	SMG	64.450	58.621	587	Yes
NBP00-03-34	SMG	64.443	58.606	865	Yes
NBP00-03-35	SMG	64.298	58.607	651	Yes

SMG = Smith MacIntyre grab

The following bag samples from cruise NBP00-03 are available at the Antarctic Research Facility and are available for sampling.

Kasten Core Bag Samples

KC 1	Core catcher
KC 2B	Core catcher
KC 4	Core cutter
KC 6	Core cutter
KC 7A	Core cutter
KC 7B	Core catcher, Rocks from 0-4 cm.
KC 16	Core catcher
KC 19	Core cutter
KC 21	Core cutter
KC 22	Core cutter
KC 23	Core cutter
KC 25	Core cutter
KC 26	Core cutter
KC 27	Core catcher
KC 28	Core cutter
KC 29	Core cutter
KC 30	Core cutter
KC 32	Rocks- interval unknown
KC 33	Core catcher
KC 34	Core cutter
KC 35	Core cutter
KC 36	Core cutter

Jumbo Gravity Core Bag Samples

JGC 2	Core cutter
JGC 3	Core catcher
JGC 4	Core cutter
JGC 5	Core cutter
JGC 5	Core cutter, core catcher
JGC 20	Core cutter, core catcher
JGC 21	Core cutter
JGC 22	Core catcher
JGC 23	Core cutter
JGC 26	Core cutter

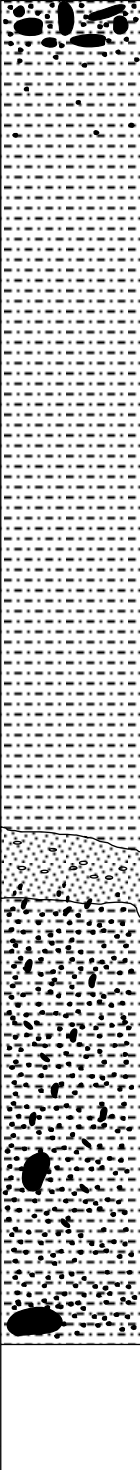
Multi core Bag Samples

MTC 5A	Core catcher
MTC 5C	Core catcher

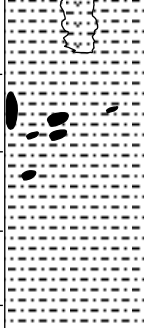
Jumbo Piston Core Bag Samples

JPC 38	Core cutter, core catcher, Top of section 1, Trigger core catcher
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NBP00-03-02 JGC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.741 S	Water Depth: 504 m
				Longitude: 58.870 W	Core Length: 174 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div style="margin-bottom: 20px;">150</div> </div>		<p>0-174 cm: Overall, moderate olive brown 5Y 4/4, watery, smooth, slick, clay and silty mud with an abrupt transition at 118 cm to firm, medium dark gray N4, silt-rich, poorly sorted, angular to subangular, very fine to coarse sand-rich mud with abundant angular to subangular, very fine to coarse pebbles.</p> <p>0-30 cm: Coarsening-upward sequence.</p> <p>0-6 cm: Moderately olive brown 5Y 4/4, poorly sorted, angular to subangular, very fine to coarse sand-bearing, silty mud and abundant (<70%) angular to subangular, very fine to coarse pebble layer. Gradational contacts.</p> <p>6-18 cm: Moderate olive brown 5Y 4/4, angular to subangular, very fine to coarse sand-bearing and silt-rich mud with scattered angular to subangular, very fine to fine pebbles. Gradational upper and lower contacts.</p> <p>18-30 cm: Moderate olive brown 5Y 4/4, rare angular to subangular, very fine to fine sand-bearing and silt-rich mud. Gradational upper and lower contacts.</p> <p>30-50 cm: Moderate olive brown 5Y 4/4, silty mud with abundant olive gray 5Y 4/1 mottling throughout. Gradational upper and lower contacts.</p> <p>50-108 cm: Olive gray 5Y 4/1, smooth, slick, clay-rich, silty mud with a higher water content than the surrounding sediment. Gradational upper and lower contacts.</p> <p>108-118 cm: Olive gray 5Y 4/1, silt and clay-rich, angular to subangular, very fine to coarse, sand-rich mud with scattered angular to subangular, very fine to fine pebbles and scattered, pale olive 10Y 6/2, fine (2-3 mm), soft, angular, very fine sand and silt-rich mud pebble layer. Gradational upper and abrupt contacts.</p> <p>118-174 cm: Medium dark gray N4, firm silt-rich, angular to subangular, very fine to coarse sandy mud with abundant (< 60%), angular to subangular, very fine to coarse pebbles throughout.</p> <p>151-153 cm: Angular, coarse basaltic pebble.</p> <p>171-174 cm: Angular, very coarse basaltic pebble.</p>	<p>NOTE: This core was split and described at the Antarctic Research Facility.</p>		

NBP00-03-02 MGC

Length (cm)	Lithology	Structure	Disturbance	Latitude:	64.741 S	Water Depth:	504 m																																																																						
				Longitude:	58.870 W	Core Length:	42.5 cm																																																																						
LITHOLOGIC DESCRIPTION																																																																													
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div style="margin-bottom: 20px;">150</div> </div>				<p>0-42.5 cm: Overall, firm, heavily bioturbated, structureless, olive gray 5Y 4/1, subangular to subrounded, very fine to coarse sand-rich, silty mud. Common angular to subrounded, very fine to rare coarse pebbles, of various compositions, occur in a zone from 13 to 23 cm with an increase in the sand component compared to the surrounding sediment. A gradational transition to olive gray 5Y 3/2, subangular to subrounded, very fine to coarse sand-rich, silty mud, with a decrease in the sand component and an increase in the silt component, occurs at 23 cm. Scattered olive gray 5Y 4/1, streaks occur from 23 to 42 cm.</p> <p>0-7 cm: Soft, dark greenish gray 5GY 4/1, diatomaceous, angular, very fine to rare coarse sand-bearing, silty mud bleb. Abrupt contacts.</p> <p>13-23 cm: Olive gray 5Y 4/1, subangular to subrounded, very fine to coarse sand-rich, silty mud with common angular to subrounded, very fine to rare coarse pebble zone. Gradational contacts.</p> <p>13-16 cm: Subangular, coarse mafic pebble.</p> <p>14-15 cm: Poorly sorted, subangular to subrounded, very fine to coarse sand bleb. Abrupt contacts.</p> <p>16-18 cm: Subangular, medium mafic pebble.</p> <p>18-19 cm: Subangular, medium basaltic pebble.</p> <p>22-23 cm: Subangular, medium basaltic pebble.</p> <p>23- 42.5 cm: Gradational transition to olive gray 5Y 3/2, subangular to subrounded, very fine to coarse sand-rich, silty mud with a decrease in the sand and pebble components and an increase in the silt component. Scattered olive gray 5Y 4/1, streaks occur from 23 to 42 cm.</p> <p>NOTE: The core is slightly disturbed from 0 to 11 cm by washing along the core liner and was split on the ship.</p> <p>Smear Slides:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Minerals:</th> <th style="text-align: center;"><u>4 cm</u></th> <th style="text-align: center;"><u>8 cm</u></th> <th style="text-align: center;"><u>14 cm</u></th> <th style="text-align: center;"><u>40 cm</u></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">bleb</td> <td style="text-align: center;">D</td> <td style="text-align: center;">bleb</td> <td style="text-align: center;">D</td> </tr> <tr> <td>Diatoms</td> <td style="text-align: center;">15</td> <td style="text-align: center;">2</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Silicaflagellates</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Spicules</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Quartz</td> <td style="text-align: center;">50</td> <td style="text-align: center;">50</td> <td style="text-align: center;">85</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Mica</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Heavy minerals</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">33</td> <td style="text-align: center;">47</td> <td style="text-align: center;">14</td> <td style="text-align: center;">47</td> </tr> <tr> <td>Hornblende</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Glauconite</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> </tbody> </table> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>Sand</td> <td style="text-align: center;">10</td> <td style="text-align: center;">10</td> <td style="text-align: center;">80</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Silt</td> <td style="text-align: center;">40</td> <td style="text-align: center;">40</td> <td style="text-align: center;">5</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">50</td> <td style="text-align: center;">50</td> <td style="text-align: center;">15</td> <td style="text-align: center;">50</td> </tr> </tbody> </table>				Minerals:	<u>4 cm</u>	<u>8 cm</u>	<u>14 cm</u>	<u>40 cm</u>		bleb	D	bleb	D	Diatoms	15	2	TR	--	Silicaflagellates	TR	--	--	--	Spicules	TR	TR	TR	--	Quartz	50	50	85	50	Mica	TR	TR	TR	TR	Heavy minerals	2	1	1	3	Clay	33	47	14	47	Hornblende	TR	TR	--	--	Glauconite	TR	--	--	--	Sand	10	10	80	TR	Silt	40	40	5	50	Clay	50	50	15	50
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Mica	TR	TR	TR	TR																																																																									
Heavy minerals	2	1	1	3																																																																									
Clay	33	47	14	47																																																																									
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Sand	10	10	80	TR																																																																									
Silt	40	40	5	50																																																																									
Clay	50	50	15	50																																																																									

NBP00-03-05 JGC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.911 S	Water Depth: 978 m
				Longitude: 60.673 W	Core Length: 101 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div style="margin-bottom: 20px;">150</div> </div>				<p>0-101 cm: Overall, grayish olive 10Y 4/2, firm, angular to subangular, very fine to rare coarse sand and diatom-bearing, silt-rich mud with rare subangular, very fine to coarse pebbles. Scattered, olive gray 5Y 3/2, very fine to coarse-sized (2 to 32 mm) well-sorted angular very fine sand blebs with abrupt contacts and rare olive gray 5Y3/2, very fine to medium sized (2-16 mm) clay blebs with abrupt contacts occur throughout the core. Rare moderate yellow brown 10YR 5/4, diatom-bearing, silt-rich mud discontinuous laminae and laminae, with fairly abrupt contacts, occur in a zone from 24-34 cm.</p> <p>5-5.5 cm: Olive gray 5Y3/2 fine, well-sorted angular very fine sand bleb with abrupt contacts.</p> <p>14-14.8 cm: Olive gray 5Y3/2, well-sorted, angular, very fine sand bleb with abrupt contacts.</p> <p>17-18 cm: Olive gray 5Y3/2, well-sorted, angular, very fine sand bleb with abrupt contacts.</p> <p>24-34 cm: Moderate yellow brown 10YR 5/4, diatom-bearing, silt-rich mud discontinuous laminae zone. Fairly abrupt contacts,</p> <p>35-35.5 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silt-rich mud laminae. Fairly abrupt contacts,</p> <p>36.5-36.8 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silt-rich mud laminae. Fairly abrupt contacts,</p> <p>53-53.5 cm: Olive gray 5Y3/2, well-sorted, angular, very fine sand bleb with abrupt contacts.</p> <p>53.5-54 cm: Olive gray 5Y3/2, clay bleb with abrupt contacts.</p> <p>57-57.8 cm: Angular, medium pebble.</p> <p>59-59.5 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silt-rich mud laminae. Fairly abrupt contacts,</p> <p>61-63 cm: Olive gray 5Y3/2, silt-rich mud layer. Gradational contacts.</p> <p>63-102 cm: Grayish olive 10Y 4/2, firm, angular to subangular, very fine to rare coarse sand-bearing, silt-rich mud with rare subangular, very fine to coarse pebbles. Olive gray 5Y3/2, scattered, very fine (1-2 mm thick), laminae with gradational contacts.</p> <p>78-81 cm: Subangular, coarse pebble.</p> <p>84-89 cm: Subangular, coarse pebble.</p> <p>NOTE: The core is moderately disturbed by washing from 0-20 cm. This core was split and described on the ship.</p>	

NBP00-03-05A MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude:	64.911 S	Water Depth:	978 m																																																																														
				Longitude:	60.673 W	Core Length:	65 cm																																																																														
LITHOLOGIC DESCRIPTION																																																																																					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>		<p>0-65 cm: Overall, olive gray 5Y 4/1, subangular, very fine to medium sand-bearing, silt-rich, mud with common subangular, very fine to rare medium sand blebs (2-3 mm in diameter). An olive gray 5Y 4/1 to greenish black 5GY 2.5/1 at the erosional base and grading upward sequence consisting of subangular to subrounded, medium to fine pebbles and coarse sand grading to subangular very fine sand occurs from 26-32 cm. Dark gray 5YR 4/1 and gray 10YR 5/1, mottling occurs in the lower section of the core. Abrupt contact at 50 cm to massive olive gray 5YR 4/1, silt-rich mud. Rare light brownish gray 10YR 6/2, subvertical / subhorizontal, diatomaceous ooze layer with abrupt contacts, consisting of 90% Corethron species occurs from 51-54 to 57-60 cm.</p> <p>0-12 cm: Olive gray 5Y 4/1, scattered, rare, subangular very fine to medium sandy mud layer with common, subangular, very fine to rare medium sand blebs (2-3 mm in diameter). Abrupt lower contact.</p> <p>9-11 cm: Black (2.5Y 2.5/1, muddy, subangular, very fine sand bleb with abrupt contacts.</p> <p>12-26 cm: Dark greenish gray 5GY 4/1, mud layer with faint discontinuous laminas and lenses of silt-rich mud with abrupt contacts. Rare to no sand component. Abrupt lower contact.</p> <p>26-32 cm: Graded sequence (turbidite?) consisting of black 5GY 2.5/1, subrounded, fine to rare medium pebbles at the erosional base to subrounded, coarse sand grading to olive gray 5Y 4/1, very fine sand at the top. Abrupt lower and gradational upper contacts.</p> <p>32-65 cm: Gray 5Y 5/1, firm, subangular very fine sand-bearing, silt-rich mud with gray 10YR 5/1, mottling. Common, subrounded, fine to rare medium sand-rich blebs (1-3 mm in diameter).</p> <p>51-54 to 57-60 cm: Light yellowish gray 10YR 6/2, subvertical / subrounded, diatomaceous ooze bleb consisting of 90% Corethron species. Abrupt contacts.</p> <p>NOTE: This core was split and described on the ship.</p> <p>Smear Slides:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Minerals:</th> <th style="text-align: center;"><u>1 cm</u></th> <th style="text-align: center;"><u>10 cm</u></th> <th style="text-align: center;"><u>15 cm</u></th> <th style="text-align: center;"><u>18 cm</u></th> <th style="text-align: center;"><u>23 cm</u></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">D</td> <td style="text-align: center;">bleb</td> <td style="text-align: center;">layer</td> <td style="text-align: center;">lens</td> <td style="text-align: center;">layer</td> </tr> <tr> <td>Diatoms</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Spicules</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Quartz</td> <td style="text-align: center;">50</td> <td style="text-align: center;">90</td> <td style="text-align: center;">70</td> <td style="text-align: center;">75</td> <td style="text-align: center;">75</td> </tr> <tr> <td>Feldspar</td> <td style="text-align: center;">--</td> <td style="text-align: center;">1</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Mica</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Heavy minerals</td> <td style="text-align: center;">1</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">49</td> <td style="text-align: center;">9</td> <td style="text-align: center;">30</td> <td style="text-align: center;">25</td> <td style="text-align: center;">25</td> </tr> <tr> <td>Hornblende</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Sand</td> <td style="text-align: center;">30</td> <td style="text-align: center;">87</td> <td style="text-align: center;">3</td> <td style="text-align: center;">60</td> <td style="text-align: center;">3</td> </tr> <tr> <td>Silt</td> <td style="text-align: center;">20</td> <td style="text-align: center;">3</td> <td style="text-align: center;">67</td> <td style="text-align: center;">15</td> <td style="text-align: center;">72</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">50</td> <td style="text-align: center;">10</td> <td style="text-align: center;">30</td> <td style="text-align: center;">25</td> <td style="text-align: center;">25</td> </tr> </tbody> </table>						Minerals:	<u>1 cm</u>	<u>10 cm</u>	<u>15 cm</u>	<u>18 cm</u>	<u>23 cm</u>		D	bleb	layer	lens	layer	Diatoms	TR	--	--	--	--	Spicules	TR	--	--	--	--	Quartz	50	90	70	75	75	Feldspar	--	1	TR	--	--	Mica	TR	TR	TR	TR	TR	Heavy minerals	1	TR	TR	TR	TR	Clay	49	9	30	25	25	Hornblende	TR	TR	TR	TR	TR	Sand	30	87	3	60	3	Silt	20	3	67	15	72	Clay	50	10	30	25	25
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NBP00-03-05A MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude:	64.911 S	Water Depth:	978 m		
				Longitude:	60.673 W	Core Length:	66 cm		
LITHOLOGIC DESCRIPTION									
				Smear Slides:					
				Minerals:	<u>30 cm</u>	<u>32 cm</u>	<u>35 cm</u>	<u>50 cm</u>	<u>55 cm</u>
					D top of layer	base of layer	layer	layer	layer
				Diatoms	--	--	2	70	80
				Spicules	--	--	TR	TR	TR
				Quartz	89	80	70	2	10
				Feldspar	--	TR	TR	TR	--
				Mica	TR	TR	TR	TR	TR
				Heavy minerals	TR	TR	TR	TR	TR
				Clay	10	20	28	28	10
				Hornblende	1	TR	TR	--	TR
				Sand	85	75	10	15	TR
				Silt	5	5	60	55	10
				Clay	10	20	30	30	90


NBP00-03-05B MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude:	64.911 S	Water Depth:	978 m
				Longitude:		60.673 W	
LITHOLOGIC DESCRIPTION							
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-66 cm: Overall, olive gray 5Y 4/1, subangular, very fine to medium sand-bearing, silt-rich, mud with common subangular, very fine to rare medium sand blebs (2-3 mm in diameter). An olive gray 5Y 4/1 to greenish black 5GY 2.5/1, at the erosional base and grading upward sequence consisting of subangular to subrounded, medium to fine pebbles and coarse sand grading to subangular, very fine sand occurs from 26-33 cm. Dark gray 5YR 4/1 and gray 10YR 5/1, mottling occurs in the lower section of the core.</p> <p>0-9 cm: Olive gray 5Y 4/1, scattered, rare, subangular very fine to medium sand-bearing mud layer with common, subangular, very fine to rare medium sand blebs (2-3 mm in diameter). Abrupt lower contact.</p> <p>5-6 cm: Black (2.5Y 2.5/1, muddy, subangular, very fine sand bleb. Abrupt contacts.</p> <p>6-7 cm: Black (2.5Y 2.5/1, muddy, subangular, very fine sand bleb. Abrupt contacts.</p> <p>8.3-8.5 cm: Moderate olive brown 5Y 4/4, diatom-bearing mud laminae. Abrupt contacts.</p> <p>9-33 cm: Dark greenish gray 5GY 4/1, mud layer with faint discontinuous laminae and lenses of silt-rich mud with abrupt contacts. Rare to no sand component. Abrupt upper and lower contacts.</p> <p>24-33 cm: Graded sequence (turbidite?) consisting of black 5GY 2.5/1, scattered subrounded, fine to rare medium pebbles at the erosional base to subrounded, coarse sand grading to olive gray 5Y 4/1, very fine sand at the top. Gradational upper and abrupt lower contacts.</p> <p>28-29 cm: Subangular, medium pebbles (4x).</p> <p>33-66 cm: Gray 5Y 5/1, firm, subangular very fine sand-bearing, silt-rich mud with gray 10YR 5/1, mottling. Common, subrounded, fine to rare medium sand-rich blebs (1-3 mm in diameter). Abrupt upper contact.</p> <p>33-42 cm: Gray 5Y 5/1, firm, subangular very fine sand-bearing, silt-rich mud with scattered, subangular, fine pebbles. Gradational contacts.</p> <p>42-42.3 cm: Moderate olive brown 5Y 4/4, diatom-bearing mud stringer. Gradational contacts.</p> <p>44.8-45 cm: Moderate olive brown 5Y 4/4, diatom-bearing mud stringer. Gradational contacts.</p> <p>45-48 cm: Subangular, coarse pebble.</p> <p>NOTE: The core is moderately disturbed from 50-60 cm. This core was split and described at the Antarctic Research Facility.</p>			


NBP00-03-05C MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.911 S	Water Depth: 978 m
				Longitude: 60.673 W	Core Length: 63 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>		<p>0-66 cm: Overall, olive gray 5Y 4/1, subangular, very fine to medium sand-bearing, silt-rich, mud with common subangular, very fine to rare medium sand blebs (2-3 mm in diameter). An olive gray 5Y 4/1 to greenish black 5GY 2.5/1, at the erosional base and grading upward sequence consisting of subangular to subrounded, medium to fine pebbles and coarse sand grades to subangular, very fine sand occurs from 28-39 cm. Dark gray 5YR 4/1 and gray 10YR 5/1, mottling occurs in the lower section of the core.</p> <p>0-14 cm: Olive gray 5Y 4/1, scattered, rare, subangular very fine to medium sand-bearing mud layer with common, subangular, very fine to rare medium sand blebs (2-3 mm in diameter). Abrupt lower contact.</p> <p>0-2 cm: Black (2.5Y 2.5/1, muddy, subangular very fine sand bleb with abrupt contacts.</p> <p>10-11 cm: Black (2.5Y 2.5/1, muddy, subangular very fine sand bleb with abrupt contacts.</p> <p>11-12 cm: Subangular, medium pebble.</p> <p>14-39 cm: Dark greenish gray 5GY 4/1, mud layer with faint discontinuous laminae and lenses of silt-rich mud with abrupt contacts. Rare to no sand component. Abrupt upper and lower contacts.</p> <p>28 to 30-39 cm: Graded sequence (turbidite?) consisting of black 5GY 2.5/1, scattered subrounded, fine to rare medium pebbles at the erosional base to subrounded, coarse sand grading to olive gray 5Y 4/1, very fine sand at the top. Gradational upper and abrupt lower contacts.</p> <p>39-60 cm: Gray 5Y 5/1, firm, subangular very fine sand-bearing, silt-rich mud with gray 10YR 5/1 mottling. Common, subrounded, fine to rare medium sand-rich blebs (1-3 mm in diameter). Abrupt upper contact.</p> <p>39-49 cm: Gray 5Y 5/1, firm, subangular very fine sand-bearing, silt-rich mud with scattered, subangular, fine pebbles. Gradational contacts.</p> <p>49-50 cm: Abundant, medium to coarse-sized, subangular very fine sand bleb layer. Abrupt contacts.</p> <p>NOTE: This core was split and described on the ship.</p>			


NBP00-03-06A MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.894 S	Water Depth: 733 m																																																																											
				Longitude: 60.367 W	Core Length: 47 cm																																																																											
LITHOLOGIC DESCRIPTION																																																																																
<div style="text-align: center;">  </div>	<p>0-47 cm: Overall, olive gray 5Y 4/1, at the top with a gradational change to dark greenish gray 5GY 4/1, occurring at 18 cm and a gradational change back to olive gray 5Y 4/1, occurring at 36 cm, massive, diatom-bearing, silty mud with scattered, subangular, fine to coarse sand. Scattered, subrounded, very fine to rare very coarse pebbles, of various compositions, occur throughout the core. A slight increase in the subangular fine to coarse sand component occurs from 38 cm to the base of the core. Common, slightly darker than olive gray 5Y 4/1, silt-rich, subangular to subrounded, very fine sand blebs (mottling) occur throughout the core.</p> <p>8-11 cm: Subrounded, coarse granitic pebble.</p> <p>15-23 cm: Subrounded, very coarse metamorphic pebble.</p> <p>38-47 cm: Slight increase in the subangular fine to coarse sand component. Gradational contacts.</p> <p>NOTE: This core was split and described on the ship.</p> <p>Smear Slides:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Minerals:</th> <th style="text-align: center;"><u>1 cm</u></th> <th style="text-align: center;"><u>9 cm</u></th> <th style="text-align: center;"><u>28 cm</u></th> <th style="text-align: center;"><u>46 cm</u></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">D</td> <td style="text-align: center;">bleb</td> <td style="text-align: center;">D</td> <td style="text-align: center;">zone</td> </tr> <tr> <td>Diatoms</td> <td style="text-align: center;">3</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">3</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Foraminifera</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Spicules</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Quartz</td> <td style="text-align: center;">50</td> <td style="text-align: center;">50</td> <td style="text-align: center;">50</td> <td style="text-align: center;">55</td> </tr> <tr> <td>Feldspar</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Mica</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Heavy minerals</td> <td style="text-align: center;">1</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">46</td> <td style="text-align: center;">50</td> <td style="text-align: center;">46</td> <td style="text-align: center;">44</td> </tr> <tr> <td>Hornblende</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Volcanic glass</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Sand</td> <td style="text-align: center;">10</td> <td style="text-align: center;">30</td> <td style="text-align: center;">10</td> <td style="text-align: center;">15</td> </tr> <tr> <td>Silt</td> <td style="text-align: center;">40</td> <td style="text-align: center;">20</td> <td style="text-align: center;">40</td> <td style="text-align: center;">40</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">50</td> <td style="text-align: center;">50</td> <td style="text-align: center;">50</td> <td style="text-align: center;">45</td> </tr> </tbody> </table>					Minerals:	<u>1 cm</u>	<u>9 cm</u>	<u>28 cm</u>	<u>46 cm</u>		D	bleb	D	zone	Diatoms	3	TR	3	TR	Foraminifera	TR	--	TR	--	Spicules	TR	TR	TR	--	Quartz	50	50	50	55	Feldspar	TR	--	--	TR	Mica	TR	TR	TR	TR	Heavy minerals	1	TR	1	1	Clay	46	50	46	44	Hornblende	TR	TR	TR	TR	Volcanic glass	--	--	TR	--	Sand	10	30	10	15	Silt	40	20	40	40	Clay	50	50	50	45
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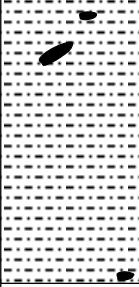
NBP00-03-06B MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.894 S	Water Depth: 733 m
				Longitude: 60.367 W	Core Length: 34 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-34 cm: Overall, olive gray 5Y 4/1, at the top with a gradational change to dark greenish gray 5GY 4/1, occurring at 18 cm, massive, diatom-bearing, silty mud with scattered, subangular fine to coarse sand. Scattered, subrounded, very fine to rare very coarse pebbles, of various compositions, occur throughout the core. Common, slightly darker than olive gray 5Y 4/1, silt-rich, subangular to subrounded, very fine sand blebs (mottling) occur throughout the core.</p> <p>6-8 cm: Subrounded, coarse granitic pebble.</p> <p>27-29 cm: Subrounded, coarse granitic pebble.</p> <p>29-31 cm: Subrounded, coarse metamorphic pebble.</p> <p>NOTE: This core was split and described on the ship.</p>	

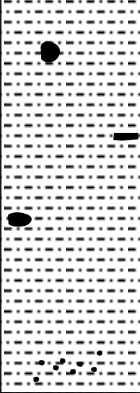
NBP00-03-06C MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.894 S Longitude: 60.367 W	Water Depth: 733 m Core Length: 43.5 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-47 cm: Overall, olive gray 5Y 4/1, at the top with a gradational change to dark greenish gray 5GY 4/1, occurring at 18 cm and a gradational change back to olive gray 5Y 4/1, occurring at 36 cm, massive, diatom-bearing, silty mud with scattered, subangular fine to coarse sand. Scattered, subrounded, very fine pebbles, of various compositions, occur throughout the core. A slight increase in the subangular, fine to coarse sand component occurs from 38 cm to the base of the core. Common, slightly darker than olive gray 5Y 4/1, silt-rich, subangular to subrounded, very fine sand blebs (mottling) occur throughout the core.</p> <p>38-47 cm: Slight increase in the subangular fine to coarse sand component. Gradational contacts.</p> <p>NOTE: The core is moderately disturbed from 50-60 cm. This core was split and described at the Antarctic Research Facility.</p>	

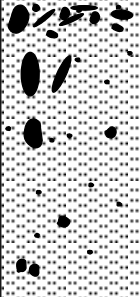

NBP00-03-07 MGC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.862 S	Water Depth: 839 m																																																								
				Longitude: 60.281 W	Core Length: 36 cm																																																								
LITHOLOGIC DESCRIPTION																																																													
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">  </div> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div style="margin-bottom: 20px;">150</div> </div>	<p>0-36 cm: Overall, olive gray 5Y 3/2, firm, sticky, heavily bioturbated, subangular to subrounded, very fine to coarse sand and silt-rich mud with scattered, angular to subangular, very fine to rare fine pebbles through out the core. A gradational transition occurs at 23 cm to olive gray 5Y 4/1, mud with a lower sand and a higher silt and diatom components than the upper part of the core.</p> <p>2-3 cm: Subangular, medium basaltic pebble.</p> <p>5-10 cm: Slightly more subangular to subrounded, very fine to coarse sand component than the surrounding sediment. Gradational contacts.</p> <p>5-8 cm: Subangular, medium basaltic pebble.</p> <p>35-36 cm: Subrounded, medium basaltic pebble.</p> <p>Smear Slides:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Minerals:</th> <th style="text-align: center;"><u>2 cm</u></th> <th style="text-align: center;"><u>6 cm</u></th> <th style="text-align: center;"><u>35 cm</u></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">D</td> <td style="text-align: center;">D</td> <td style="text-align: center;">D</td> </tr> <tr> <td>Diatoms</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Foraminifera</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Spicules</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Quartz</td> <td style="text-align: center;">60</td> <td style="text-align: center;">70</td> <td style="text-align: center;">65</td> </tr> <tr> <td>Fsldspar</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Mica</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Heavy minerals</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">38</td> <td style="text-align: center;">29</td> <td style="text-align: center;">31</td> </tr> <tr> <td>Hornblende</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Sand</td> <td style="text-align: center;">20</td> <td style="text-align: center;">30</td> <td style="text-align: center;">15</td> </tr> <tr> <td>Silt</td> <td style="text-align: center;">40</td> <td style="text-align: center;">40</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">40</td> <td style="text-align: center;">30</td> <td style="text-align: center;">35</td> </tr> </tbody> </table>					Minerals:	<u>2 cm</u>	<u>6 cm</u>	<u>35 cm</u>		D	D	D	Diatoms	TR	TR	2	Foraminifera	TR	TR	TR	Spicules	TR	TR	TR	Quartz	60	70	65	Fsldspar	TR	TR	TR	Mica	TR	TR	TR	Heavy minerals	2	1	2	Clay	38	29	31	Hornblende	TR	TR	TR	Sand	20	30	15	Silt	40	40	50	Clay	40	30	35
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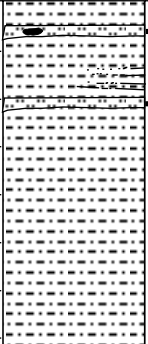


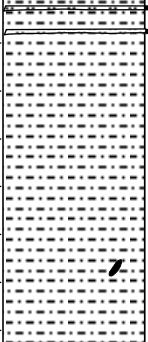


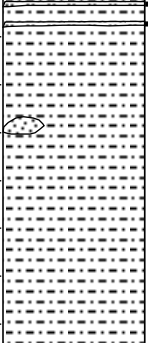


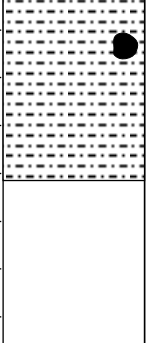


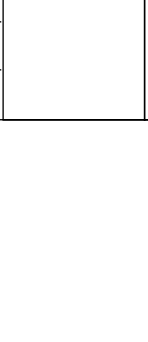


NBP00-03-07 MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.862 S Longitude: 60.281 W	Water Depth: 839 m Core Length: 51 cm																																																								
LITHOLOGIC DESCRIPTION																																																													
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-51 cm: Overall, olive gray 5Y 4/1, with a slight lightening of color occurring at 19 cm, massive, diatom-bearing, silty mud with common, subangular to subrounded, very fine to coarse sand and common, subangular to subrounded, very fine to rare coarse pebbles (> 45%).</p> <p>6-8 cm: Subangular, coarse pebble.</p> <p>18-19 cm: Subangular, medium pebble.</p> <p>27-28 cm: Subangular, tabular, medium pebble.</p> <p>46-48 cm: Olive gray 5Y 4/1, subangular, coarse sand to very fine pebble silty mud bleb, (> 30% sand and pebble content). Gradational contacts.</p> <p>NOTE: The core is moderately disturbed from 50-60 cm. This core was split and described at the Antarctic Research Facility.</p> <p>Smear Slides:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Minerals:</th> <th style="text-align: center;"><u>1 cm</u></th> <th style="text-align: center;"><u>47 cm</u></th> <th style="text-align: center;"><u>54 cm</u></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">D</td> <td style="text-align: center;">bleb</td> <td style="text-align: center;">D</td> </tr> <tr> <td>Diatoms</td> <td style="text-align: center;">5</td> <td style="text-align: center;">--</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Foraminifera</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Spicules</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Quartz</td> <td style="text-align: center;">55</td> <td style="text-align: center;">70</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Feldspar</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Mica</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Heavy minerals</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">39</td> <td style="text-align: center;">30</td> <td style="text-align: center;">49</td> </tr> <tr> <td>Hornblende</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Sand</td> <td style="text-align: center;">15</td> <td style="text-align: center;">30</td> <td style="text-align: center;">10</td> </tr> <tr> <td>Silt</td> <td style="text-align: center;">40</td> <td style="text-align: center;">40</td> <td style="text-align: center;">40</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">45</td> <td style="text-align: center;">30</td> <td style="text-align: center;">50</td> </tr> </tbody> </table>		Minerals:	<u>1 cm</u>	<u>47 cm</u>	<u>54 cm</u>		D	bleb	D	Diatoms	5	--	TR	Foraminifera	TR	--	--	Spicules	TR	--	TR	Quartz	55	70	50	Feldspar	TR	--	--	Mica	TR	TR	TR	Heavy minerals	1	1	1	Clay	39	30	49	Hornblende	TR	TR	--	Sand	15	30	10	Silt	40	40	40	Clay	45	30	50
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Silt	40	40	40																																																										
Clay	45	30	50																																																										

NBP00-03-19 JGC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.916 S Longitude: 60.568 W	Water Depth: 879 m Core Length: 39 cm																																																				
				LITHOLOGIC DESCRIPTION																																																					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div style="margin-bottom: 20px;">150</div> </div>				<p>0-39 cm: Overall, structureless, with moderate water content, olive gray (5Y 3/2), silt-rich, angular to subrounded, very fine to coarse sandy mud with abundant (>50%), angular to subrounded, very fine to very coarse pebbles of various compositions. Some pebbles encrusted with rust.</p> <p>0-5 cm: Olive gray (5Y 3/2), silt-rich, angular to subrounded, very fine to coarse sandy mud with abundant (>50%), angular to subrounded, fine to very coarse pebble layer with gradational contacts.</p> <p>5-15 cm: Olive gray (5Y 3/2), silt-rich, angular to subrounded, very fine to coarse sandy mud with a slight decrease in sand component. Gradational contacts.</p> <p>7-12 cm: Angular, coarse, metamorphic pebble.</p> <p>12-15 cm: Angular, coarse, metamorphic pebble.</p> <p>15-39 cm: Olive gray (5Y 3/2), silt-rich, angular to subrounded, very fine to coarse sandy mud with an increase in the sand component. Common, (<50%), Angular to subrounded, very fine to rare coarse pebbles of various compositions, some are rust encrusted.</p> <p>25-29 cm: Subangular, medium pebble.</p> <p>34-35 cm: Subangular, medium pebble. Rust encrusted.</p> <p>34-35 cm: Angular, medium, tabular pebble.</p> <p>NOTE: This core was split and described at the Antarctic Research Facility.</p> <p>Smear Slides:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Minerals:</th> <th style="text-align: center;"><u>1 cm</u></th> <th style="text-align: center;"><u>7 cm</u></th> <th style="text-align: center;"><u>28 cm</u></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">D</td> <td style="text-align: center;">D</td> <td style="text-align: center;">M</td> </tr> <tr> <td>Diatoms</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Spicules</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Quartz</td> <td style="text-align: center;">50</td> <td style="text-align: center;">45</td> <td style="text-align: center;">65</td> </tr> <tr> <td>Feldspar</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Mica</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Heavy minerals</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">49</td> <td style="text-align: center;">54</td> <td style="text-align: center;">33</td> </tr> <tr> <td>Hornblende</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Sand</td> <td style="text-align: center;">30</td> <td style="text-align: center;">25</td> <td style="text-align: center;">35</td> </tr> <tr> <td>Silt</td> <td style="text-align: center;">20</td> <td style="text-align: center;">20</td> <td style="text-align: center;">30</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">50</td> <td style="text-align: center;">55</td> <td style="text-align: center;">35</td> </tr> </tbody> </table>		Minerals:	<u>1 cm</u>	<u>7 cm</u>	<u>28 cm</u>		D	D	M	Diatoms	TR	TR	--	Spicules	TR	TR	--	Quartz	50	45	65	Feldspar	TR	TR	TR	Mica	TR	TR	TR	Heavy minerals	1	1	2	Clay	49	54	33	Hornblende	TR	TR	TR	Sand	30	25	35	Silt	20	20	30	Clay	50	55	35
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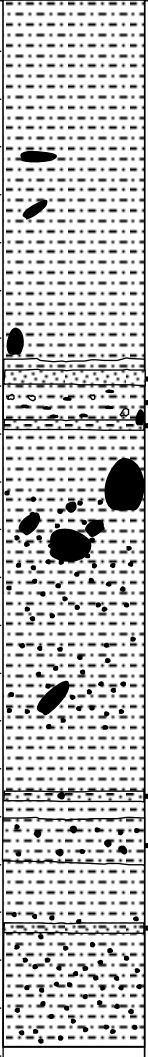


NBP00-03-20 JGC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 65.007 S	Water Depth: 899 m
				Longitude: 60.463 W	Core Length: 251 cm
LITHOLOGIC DESCRIPTION					
50				<p>0-251 cm: Overall, grayish olive 10Y 4/2, soft, angular to subangular, very fine to rare medium sand-bearing, silty mud with rare, subangular, tabular basaltic pebbles and moderate olive brown 5Y 4/4, fine to medium sized (4 to 16 mm), silt-rich, angular to subangular, very fine to rare medium sandy, mud blebs with abrupt contacts. Dark gray N3, discontinuous silt-rich, clay laminae (abrupt contacts) occur in a layer from 15 to 20 cm.</p> <p>6-8 cm: Olive gray 5Y 3/2, stiff, angular to subangular, very fine to rare medium sand layer. Gradational contacts.</p> <p>7.5-8 cm: Subangular, medium pebble.</p>	
100				<p>15-15.3 cm: Dark gray N3, discontinuous silt-rich, clay laminae Abrupt contacts.</p> <p>15.8-16.1 cm: Dark gray N3, discontinuous silt-rich, clay laminae Abrupt contacts.</p> <p>16.5-17 cm: Dark gray N3, discontinuous silt-rich, clay laminae Abrupt contacts.</p> <p>17.5-18 cm: Dark gray N3, discontinuous silt-rich, clay laminae Abrupt contacts.</p> <p>18.2-18.5 cm: Dark gray N3, discontinuous silt-rich, clay laminae Abrupt contacts.</p>	
150				<p>19.0-19.5 cm: Dark gray N3, discontinuous silt-rich, clay laminae Abrupt contacts.</p> <p>19.7-20 cm: Dark gray N3, discontinuous silt-rich, clay laminae Abrupt contacts.</p> <p>20-21 to 23 cm: Moderate olive brown 5Y 4/4, silt-rich, angular to subangular, very fine to fine, sandy mud layer with scattered, (< 25%), rust encrusted, very fine to fine pebbles. Abrupt contacts.</p>	
200				<p>21 to 23-251 cm: Dark gray N3, sticky, firm, angular to subangular, very fine to fine sand-bearing, silt-rich clay with rare, (< 10%), angular to subangular, medium to coarse pebbles.</p> <p>28-31 cm: Grayish olive 10Y 4/2, soft, angular to subangular, very fine to fine sandy mud with brownish black 5YR 2/1, fine sized, silt-rich, angular, very fine sand blebs.</p>	
250				<p>74-75 cm: Medium dark gray N4, silt-rich clay layer. Abrupt contacts.</p> <p>76-77 cm: Medium dark gray N4, silt-rich clay layer. Abrupt contacts.</p> <p>112-123 cm: Increase (>15%), in angular to subangular, very fine to fine pebble component. Gradational contacts.</p> <p>138-139 cm: Subangular, medium pebble.</p> <p>144-146 to 148 cm: Medium gray N5, silt-bearing clay layer. Abrupt contacts.</p>	
300					

NBP00-03-20 JGC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 65.007 S	Water Depth: 899 m				
				Longitude: 60.463 W	Core Length: 251 cm				
LITHOLOGIC DESCRIPTION									
50	[Dotted pattern]	[Horizontal lines]	[None]	168-170 cm: Muddy, poorly sorted angular to subangular, very fine to very coarse sand bleb. Abrupt contacts.					
				180-251 cm: Scattered, grayish black N2, mottling.					
				220-224 cm: Subangular, coarse basaltic pebble.					
NOTE: This core was split and described on the ship.									
100	[Dotted pattern]	[Horizontal lines]	[None]	Smear Slides:					
				Minerals:	<u>2 cm</u> D	<u>7 cm</u> layer	<u>17 cm</u> laminae	<u>21 cm</u> layer	<u>28 cm</u> bleb
				Diatoms	3	--	--	--	--
150	[Dotted pattern]	[Horizontal lines]	[None]	Spicules	--	--	--	--	--
				Quartz	50	85	31	50	70
				Mica	TR	--	TR	TR	TR
200	[Dotted pattern]	[Horizontal lines]	[None]	Heavy minerals	1	1	1	5	5
				Clay	46	14	68	45	25
				Hornblende	TR	TR	--	TR	TR
250	[Dotted pattern]	[Horizontal lines]	[None]	Sand	10	80	1	30	40
				Silt	40	5	30	20	30
				Clay	50	15	69	50	30
300	[Dotted pattern]	[Horizontal lines]	[None]	Minerals:	<u>50 cm</u> D	<u>74 cm</u> layer	<u>145 cm</u> layer	<u>169 cm</u> bleb	<u>200 cm</u> 2nd D
				Diatoms	--	--	--	--	--
				Spicules	--	--	--	--	--
300	[Dotted pattern]	[Horizontal lines]	[None]	Quartz	30	20	2	70	40
				Mica	--	--	--	--	TR
				Heavy minerals	3	2	1	1	1
300	[Dotted pattern]	[Horizontal lines]	[None]	Clay	67	88	97	29	59
				Hornblende	--	--	--	--	TR
				Sand	TR	TR	--	40	TR
300	[Dotted pattern]	[Horizontal lines]	[None]	Silt	30	20	2	30	40
				Clay	70	80	98	30	60

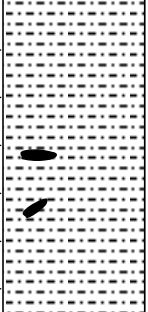
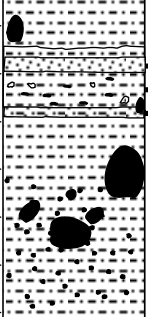
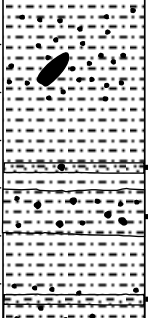
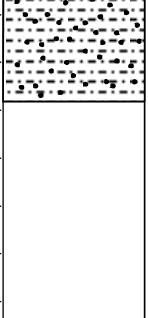
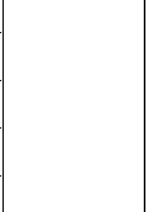

NBP00-03-23 JGC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.823 S	Water Depth: 901 m
				Longitude: 60.507 W	Core Length: 218 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div style="margin-bottom: 20px;">150</div> <div style="margin-bottom: 20px;">200</div> <div style="margin-bottom: 20px;">250</div> <div style="margin-bottom: 20px;">300</div> </div>				<p>0-218 cm: Olive gray 5Y 4/2, angular to subangular, very fine to rare coarse sand-bearing, silty mud with an abrupt transition at 148 cm to dark gray N3, silty mud. Scattered brownish black 5YR 2/1, olive black 5Y 2/1, and light olive gray 5Y 5/2, layers and laminae of various lithologies occur in the middle and lower sections of the core. Scattered to common, tabular to subrounded, fine to very coarse pebbles, primarily occurring in zones and layers in the lower section of the core.</p> <p>0-5 cm: Olive gray 5Y 4/2, angular to subangular, very fine to rare coarse sand-bearing, silty mud with faint, light olive gray 5Y 5/2, diatom-bearing, discontinuous laminae (gradational contacts). Gradational lower contacts.</p> <p>5-39 cm: Light olive gray 5Y 5/2, diatom-bearing, angular to subangular, very fine to rare coarse sand-bearing, silty mud. Gradational contacts.</p> <p>31-32 cm: Subangular, tabular, medium pebble.</p> <p>41-46 cm: Subangular, coarse pebble.</p> <p>39-74 cm: Light olive gray 5Y 5/2, diatom-bearing, angular to subangular, very fine to rare coarse sand-bearing, silty mud zone. Rare tabular to subrounded, very fine to coarse pebbles throughout the zone. Gradational contacts.</p> <p>42-45 cm: Subangular, coarse pebble.</p> <p>70-72 cm: Subangular, medium pebble.</p> <p>74-88 cm: Olive black 5Y 2/1, angular to subangular, very fine to rare coarse sand-rich, silty mud zone. Scattered, moderate brown 5YR 3/4 fine (2-5 mm), angular, very fine sand blebs through out the zone. Gradational contacts.</p> <p>77-79 cm: Brownish black 5YR 2/1, angular to subangular, very fine to rare coarse sand layer. Abrupt contacts.</p> <p>88-90 cm: Olive black 5Y 2/1, angular to subangular, very fine to rare coarse sandy, silty mud layer. Abrupt contacts.</p> <p>88-90 cm: Subangular, medium pebble.</p> <p>90-150 cm: Grayish black N2, angular to subangular, very fine to rare coarse sand-bearing, silty mud. Common, subrounded, fine to very coarse pebbles, Abrupt upper and lower contacts.</p> <p>110-115 cm: Subrounded, very coarse pebble.</p> <p>140-150 cm: Increase in the subrounded, fine to very coarse pebbles component. Gradational upper and abrupt lower contacts.</p> <p>143-148 cm: Subrounded, very coarse pebble.</p>	



NBP00-03-23 JGC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.823 S	Water Depth: 901 m																																																																																				
				Longitude: 60.507 W	Core Length: 218 cm																																																																																				
LITHOLOGIC DESCRIPTION																																																																																									
50				<p>150-164 cm: Dark gray N3, sticky, silt-rich mud with a lower water content than the surrounding sediment. Abrupt contacts.</p> <p>164-166 cm: Dark gray N3, angular to subangular, very fine to rare coarse sand-bearing, silty mud. Rare, subrounded, fine to medium pebbles. Abrupt contacts.</p> <p>166-172 cm: Grayish black N2, angular to subangular, very fine to rare coarse sand-bearing, silty mud. Abrupt upper and gradational contacts.</p> <p>172-180 cm: Grayish black N2, angular to subangular, very fine to rare coarse sand-bearing, silty mud. Common, subrounded, fine to very coarse pebbles, Gradational upper and abrupt contacts.</p>																																																																																					
100				<p>179-180 cm: Subrounded, medium pebble.</p> <p>180-190 cm: Grayish black N2, angular to subangular, very fine to rare coarse sand-bearing, silty mud. Abrupt upper and gradational contacts.</p> <p>190-218 cm: Grayish black N2, angular to subangular, very fine to rare coarse sand-bearing, silty mud. Common, subrounded, fine to very coarse pebbles, Gradational upper contact.</p>																																																																																					
150				<p>201-202 cm: Subangular, medium pebble.</p> <p>209-211 cm: Subangular, coarse pebble.</p> <p>NOTE: This core was split and described on the ship.</p>																																																																																					
200				<p>Smear Slides:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Minerals:</th> <th style="text-align: center;"><u>2 cm</u></th> <th style="text-align: center;"><u>76 cm</u></th> <th style="text-align: center;"><u>78 cm</u></th> <th style="text-align: center;"><u>83 cm</u></th> <th style="text-align: center;"><u>88 cm</u></th> </tr> <tr> <th></th> <th style="text-align: center;">D</th> <th style="text-align: center;">zone</th> <th style="text-align: center;">layer</th> <th style="text-align: center;">layer</th> <th style="text-align: center;">layer</th> </tr> </thead> <tbody> <tr> <td>Diatoms</td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Foraminifera</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Spicules</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Quartz</td> <td style="text-align: center;">65</td> <td style="text-align: center;">60</td> <td style="text-align: center;">55</td> <td style="text-align: center;">30</td> <td style="text-align: center;">60</td> </tr> <tr> <td>Feldspar TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Mica</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Heavy minerals</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">33</td> <td style="text-align: center;">35</td> <td style="text-align: center;">44</td> <td style="text-align: center;">69</td> <td style="text-align: center;">39</td> </tr> <tr> <td>Hornblende</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Sand</td> <td style="text-align: center;">15</td> <td style="text-align: center;">10</td> <td style="text-align: center;">5</td> <td style="text-align: center;">5</td> <td style="text-align: center;">30</td> </tr> <tr> <td>Silt</td> <td style="text-align: center;">50</td> <td style="text-align: center;">50</td> <td style="text-align: center;">50</td> <td style="text-align: center;">25</td> <td style="text-align: center;">30</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">35</td> <td style="text-align: center;">40</td> <td style="text-align: center;">45</td> <td style="text-align: center;">70</td> <td style="text-align: center;">40</td> </tr> </tbody> </table>		Minerals:	<u>2 cm</u>	<u>76 cm</u>	<u>78 cm</u>	<u>83 cm</u>	<u>88 cm</u>		D	zone	layer	layer	layer	Diatoms	1	3	--	--	--	Foraminifera	TR	--	--	--	--	Spicules	TR	--	TR	--	--	Quartz	65	60	55	30	60	Feldspar TR	--	TR	TR	--	--	Mica	TR	TR	TR	--	TR	Heavy minerals	1	2	1	1	1	Clay	33	35	44	69	39	Hornblende	TR	TR	TR	TR	TR	Sand	15	10	5	5	30	Silt	50	50	50	25	30	Clay	35	40	45	70	40
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NBP00-03-23 JGC

Length (cm)	Lithology	Structure	Disturbance	Latitude:	64.823 S	Water Depth:	901 m		
				Longitude:	60.507 W	Core Length:	218 cm		
LITHOLOGIC DESCRIPTION									
50				Minerals:	<u>100 cm</u>	<u>150 cm</u>	<u>174 cm</u>	<u>193 cm</u>	<u>200 cm</u>
					2nd D	2nd D	zone	layer	2nd D
				Diatoms	--	--	--	--	--
				Foraminifera	--	--	--	--	--
				Spicules	--	--	--	--	--
				Quartz	60	40	75	70	43
				Feldspar	--	--	--	--	--
				Mica	--	TR	--	--	TR --
				Heavy minerals	1	1	1	2	1
				Clay	39	59	24	28	56
				Hornblende	TR	TR	--	--	--
100				Sand	TR	10	--	30	3
				Silt	60	30	75	40	40
				Clay	40	60	25	30	57
150									
200									
250									
300									

NBP00-03-26 JGC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.807 S Longitude: 59.279 W	Water Depth: 564 m Core Length: 46 cm																										
LITHOLOGIC DESCRIPTION																															
<div style="text-align: center;">  </div> <div style="text-align: center;"> <p>50</p> <p>100</p> <p>150</p> </div>				<p>0-46 cm: Overall, structureless, soft, watery, olive gray 5Y 3/2, soft, common angular to subrounded, very fine to rare coarse sand-bearing, silty mud with scattered angular to subrounded very fine to very coarse pebbles of various compositions throughout the core. A gradual transition occurs at 14 cm to a slightly lighter olive gray 5Y 3/2 to the base of the core.</p> <p>2-6 cm: Subrounded, very coarse basaltic pebble.</p> <p>18-19 cm: Subrounded, medium basaltic pebble.</p> <p>27-30 cm: Angular, tabular coarse metamorphic pebble.</p> <p>NOTE: The core was moderately disturbed from 0-7 cm due to the very coarse pebble and the core splitting process. This core was split and described at the Antarctic Research Facility.</p> <p>Smear Slides:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Minerals:</td> <td style="padding-left: 20px;"><u>40 cm</u></td> </tr> <tr> <td></td> <td style="padding-left: 20px;">D</td> </tr> <tr> <td style="padding-left: 20px;">Diatoms</td> <td style="padding-left: 20px;">TR</td> </tr> <tr> <td style="padding-left: 20px;">Foraminifera</td> <td style="padding-left: 20px;">TR</td> </tr> <tr> <td style="padding-left: 20px;">Spicules</td> <td style="padding-left: 20px;">TR</td> </tr> <tr> <td style="padding-left: 20px;">Quartz</td> <td style="padding-left: 20px;">55</td> </tr> <tr> <td style="padding-left: 20px;">Mica</td> <td style="padding-left: 20px;">TR</td> </tr> <tr> <td style="padding-left: 20px;">Heavy minerals</td> <td style="padding-left: 20px;">2</td> </tr> <tr> <td style="padding-left: 20px;">Clay</td> <td style="padding-left: 20px;">43</td> </tr> <tr> <td style="padding-left: 20px;">Hornblende</td> <td style="padding-left: 20px;">TR</td> </tr> <tr> <td style="padding-left: 20px;">Sand</td> <td style="padding-left: 20px;">15</td> </tr> <tr> <td style="padding-left: 20px;">Silt</td> <td style="padding-left: 20px;">40</td> </tr> <tr> <td style="padding-left: 20px;">Clay</td> <td style="padding-left: 20px;">45</td> </tr> </table>		Minerals:	<u>40 cm</u>		D	Diatoms	TR	Foraminifera	TR	Spicules	TR	Quartz	55	Mica	TR	Heavy minerals	2	Clay	43	Hornblende	TR	Sand	15	Silt	40	Clay	45
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NBP00-03-28A MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.371 S	Water Depth: 794 m
				Longitude: 58.762 W	Core Length: 66 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div style="margin-bottom: 20px;">150</div> </div>				<p>0-66 cm: Overall, grayish olive 10Y 4/2 with an abrupt transition at 10 cm to dark greenish gray, 5GY 4/1, soft, heavily bioturbated, massive, subangular, very fine to fine sand-bearing, silty mud with scattered, subangular fine sand and subrounded, very fine to fine pebbles throughout the core. Varying diatom concentrations. Underconsolidated, with a high water content from 0 to 4 cm and increasing consolidation and decreasing water content down core. Common moderate olive brown 5Y 4/4, fine to medium (3-10 mm, abrupt contacts), diatom-bearing mud blebs (often appearing in clusters), and rare, moderate olive brown 5Y 4/4, discontinuous to continuous, fine to medium (2-4 mm, fairly abrupt contacts), diatomaceous mud laminae occur throughout the core.</p> <p>10-17 cm: Moderate olive brown 5Y 4/4, fine (2-4 mm, fairly abrupt contacts) diatom-bearing blebs in layer. Gradational contacts.</p> <p>22-23 cm: Moderate olive brown 5Y 4/4, medium diatom-bearing bleb. Abrupt contacts.</p> <p>30-31 cm: Moderate olive brown 5Y 4/4, medium diatom-bearing bleb. Abrupt contacts.</p> <p>34-34.3 cm: Moderate olive brown 5Y 4/4, medium diatom-bearing bleb. Abrupt contacts.</p> <p>36.5-36.8 cm: Moderate olive brown 5Y 4/4, medium diatom-bearing bleb. Abrupt contacts.</p> <p>37-37.2 cm: Moderate olive brown 5Y 4/4, medium diatom-bearing bleb. Abrupt contacts.</p> <p>43-44 cm: Moderate olive brown 5Y 4/4, medium diatom-bearing bleb. Abrupt contacts.</p> <p>47-49 cm: Moderate olive brown 5Y 4/4, fine (2-4 mm, fairly abrupt contacts) diatom-bearing blebs in a layer. Gradational contacts.</p> <p>50-57 cm: Moderate olive brown 5Y 4/4, fine (2-4 mm, fairly abrupt contacts) diatom-bearing blebs in layer. Gradational contacts.</p> <p>61-62 cm: Moderate olive brown 5Y 4/4, fine (2-4 mm, fairly abrupt contacts) diatom-bearing blebs in layer. Gradational contacts.</p> <p>NOTE: A void occurs from 0-4 cm due to sampling. This core was split, described, and sampled on the ship.</p>	

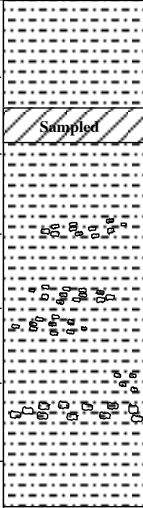
NBP00-03-28B MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude:	64.371 S	Water Depth:	794 m																																																																																																	
				Longitude:	58.762 W	Core Length:	66 cm																																																																																																	
LITHOLOGIC DESCRIPTION																																																																																																								
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>		<p>0-66 cm: Overall, grayish olive 10Y 4/2, soft, heavily bioturbated, massive, subangular, very fine to fine sand-bearing, silty mud with scattered, subangular fine sand and subrounded, very fine to fine pebbles throughout the core. Varying diatom concentrations. Underconsolidated, with a high water content from 0 to 4 cm and increasing consolidation and decreasing water content down core. Scattered, moderate olive brown 5Y 4/4, diatom-bearing blebs, 3 to 10 mm in diameter and firmer than the surrounding sediment and often occurring in clusters, occur throughout the core. Rare, moderate olive brown 5Y 4/4, diatom-bearing laminae. Scattered, grayish olive 10Y 4/2, firm, fine to rare medium (2-8 mm, abrupt contacts), mud pebbles occur throughout the core but especially from 2-28 and 53.5-56 cm.</p> <p>10-10.2 cm: Moderate olive brown 5Y 4/4, diatom-bearing laminae. Abrupt contacts.</p> <p>12-12.2 cm: Moderate olive brown 5Y 4/4, diatom-bearing laminae. Abrupt contacts.</p> <p>13-13.2 cm: Moderate olive brown 5Y 4/4, diatom-bearing laminae. Abrupt contacts.</p> <p>17-21 cm: Angular, coarse granitic pebble.</p> <p>36-37 cm: Angular, medium granitic pebble</p> <p>53.5-56 cm: Grayish olive 10Y 4/2, firm, fine to rare, medium (2-8 mm, abrupt contacts), mud pebble layer. Fairly well defined contacts.</p> <p>NOTE: The core is slightly disturbed by washing along the core liner from 45-65 cm. The core was split and described at the Antarctic Research Facility.</p> <p>Smear Slides:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Minerals:</th> <th style="text-align: center;"><u>3 cm</u></th> <th style="text-align: center;"><u>6 cm</u></th> <th style="text-align: center;"><u>12 cm</u></th> <th style="text-align: center;"><u>50 cm</u></th> <th style="text-align: center;"><u>55cm</u></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">D</td> <td style="text-align: center;">mud pebble</td> <td style="text-align: center;">lamiane</td> <td style="text-align: center;">D</td> <td style="text-align: center;">layer</td> </tr> <tr> <td>Diatoms</td> <td style="text-align: center;">10</td> <td style="text-align: center;">10</td> <td style="text-align: center;">1</td> <td style="text-align: center;">15</td> <td style="text-align: center;">15</td> </tr> <tr> <td>Spicules</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Silicoflagellates</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Foraminifera</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Quartz</td> <td style="text-align: center;">55</td> <td style="text-align: center;">45</td> <td style="text-align: center;">43</td> <td style="text-align: center;">45</td> <td style="text-align: center;">53</td> </tr> <tr> <td>Feldspar</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Mica</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Heavy minerals</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">34</td> <td style="text-align: center;">44</td> <td style="text-align: center;">55</td> <td style="text-align: center;">39</td> <td style="text-align: center;">30</td> </tr> <tr> <td>Hornblende</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Glauconite</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Volcanic glass</td> <td style="text-align: center;">1</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Sand</td> <td style="text-align: center;">16</td> <td style="text-align: center;">5</td> <td style="text-align: center;">3</td> <td style="text-align: center;">6</td> <td style="text-align: center;">4</td> </tr> <tr> <td>Silt</td> <td style="text-align: center;">40</td> <td style="text-align: center;">40</td> <td style="text-align: center;">50</td> <td style="text-align: center;">40</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">44</td> <td style="text-align: center;">55</td> <td style="text-align: center;">47</td> <td style="text-align: center;">54</td> <td style="text-align: center;">46</td> </tr> </tbody> </table>	Minerals:	<u>3 cm</u>	<u>6 cm</u>	<u>12 cm</u>	<u>50 cm</u>	<u>55cm</u>		D	mud pebble	lamiane	D	layer	Diatoms	10	10	1	15	15	Spicules	TR	TR	TR	TR	TR	Silicoflagellates	TR	--	--	--	--	Foraminifera	TR	TR	--	--	--	Quartz	55	45	43	45	53	Feldspar	TR	TR	TR	TR	TR	Mica	TR	TR	TR	TR	TR	Heavy minerals	1	1	1	1	1	Clay	34	44	55	39	30	Hornblende	TR	TR	TR	TR	TR	Glauconite	TR	TR	TR	TR	TR	Volcanic glass	1	TR	TR	1	1	Sand	16	5	3	6	4	Silt	40	40	50	40	50	Clay	44	55	47	54	46
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Heavy minerals	1	1	1	1	1																																																																																																			
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Silt	40	40	50	40	50																																																																																																			
Clay	44	55	47	54	46																																																																																																			


NBP00-03-28C MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.371 S	Water Depth: 794 m
				Longitude: 58.762 W	Core Length: 63 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-63 cm: Overall, grayish olive 10Y 4/2, with an abrupt transition to dark greenish gray, 5GY 4/1, soft, heavily bioturbated, massive, subangular, very fine to fine sand-bearing, silty mud with scattered, subangular fine sand and subrounded, very fine to fine pebbles throughout the core. Varying diatom concentrations. Underconsolidated, high water content from 0 to 4 cm increasing consolidation and decreasing water content down core. Scattered, moderate olive brown 5Y 4/4, diatom-bearing blebs, 3 to 10 mm in diameter and firmer than the surrounding sediment and often occurring in clusters, occur throughout the core. Rare, moderate olive brown 5Y 4/4, diatom-bearing layer.</p> <p>0-15 cm: Grayish olive 10Y 4/2, massive, silty mud with scattered, subangular, fine sand and subrounded, very fine to fine pebbles. Scattered, moderate olive brown 5Y 4/4, diatom-bearing blebs, 1 to 2 mm in diameter and firmer than the surrounding sediment. Gradational lower contact.</p> <p>0-4 cm: Underconsolidated with a higher water content than surrounding sediment. Gradational lower contact. No moderate olive brown 5Y 4/4, diatom-bearing blebs.</p> <p>15-17 cm: Moderate olive brown 5Y 4/4, diatom-bearing mud layer with abrupt contacts. Removed for sampling.</p> <p>17-66 cm: Dark greenish gray, 5GY 4/1, massive, silty mud with scattered, subangular fine sand and subrounded, very fine to fine pebbles. Scattered, moderate olive brown 5Y 4/4, diatom-bearing blebs, 2 to 5 mm in diameter and firmer than the surrounding sediment.</p> <p>28-29 cm: Moderate olive brown 5Y 4/4, cluster of diatom-bearing blebs, 2 to 5 mm in diameter and firmer than the surrounding sediment.</p> <p>36-37 cm: Moderate olive brown 5Y 4/4, cluster of diatom-bearing blebs, 2 to 5 mm in diameter and firmer than the surrounding sediment.</p> <p>41-42 cm: Moderate olive brown 5Y 4/4, cluster of diatom-bearing blebs, 2 to 5 mm in diameter and firmer than the surrounding sediment.</p> <p>51-54.5 cm: Moderate olive brown 5Y 4/4, clusters of diatom-bearing blebs, 2 to 5 mm in diameter and firmer than the surrounding sediment occur in a layer. Abrupt contacts.</p> <p>NOTE: This core was split, described, and sampled on the ship. The entire interval from 15 to 17 cm was removed for sampling.</p>	

NBP00-03-28C MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.371 S	Water Depth: 794 m																																																											
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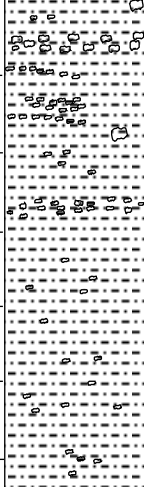
NBP00-03-29A MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude:	64.450 S	Water Depth:	690 m																																																																	
				Longitude:	58.610 W	Core Length:	53 cm																																																																	
LITHOLOGIC DESCRIPTION																																																																								
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-53 cm: Overall, soft, watery, heavily bioturbated, moderate olive brown 5Y4/1, with a gradational change occurring at 9.5 cm to dark greenish gray 5GY 4/1, diatom-bearing, silt-rich mud with scattered, subangular to subrounded, very fine to fine sand and rare subangular, fine pebbles occur throughout the core. Scattered, fine to medium (4 mm to 15 mm), moderate olive brown 5Y 4/4, diatom-bearing blebs with gradational contacts also occur throughout the core.</p> <p>0-9.5 cm: Scattered, fine to medium (4 mm to 15 mm), moderate olive brown 5Y 4/4, diatom-bearing blebs with gradational contacts.</p> <p>23-24 cm: Scattered, fine to medium (4 mm to 15 mm), moderate olive brown 5Y 4/4, diatom-bearing blebs with gradational contacts.</p> <p>39-41 cm: Dark greenish gray 5GY 4/1, diatom-bearing, silty mud with a slight increase in water content. Gradational contact.</p> <p>41-42 cm: Scattered, fine to medium (4 mm to 15 mm), moderate olive brown 5Y 4/4, diatom-bearing blebs with gradational contacts.</p> <p>50-51 cm: Scattered, fine to medium (4 mm to 15 mm), moderate olive brown 5Y 4/4, diatom-bearing blebs with gradational contacts.</p> <p>NOTE: This core was split, described, and sampled on the ship.</p> <p>Smear Slides:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Minerals:</th> <th style="text-align: center;"><u>4 cm</u> bleb</th> <th style="text-align: center;"><u>20 cm</u> D</th> <th style="text-align: center;"><u>40 cm</u> layer</th> <th style="text-align: center;"><u>50 cm</u> D</th> </tr> </thead> <tbody> <tr><td>Diatoms</td><td style="text-align: center;">10</td><td style="text-align: center;">5</td><td style="text-align: center;">10</td><td style="text-align: center;">10</td></tr> <tr><td>Spicules</td><td style="text-align: center;">TR</td><td style="text-align: center;">TR</td><td style="text-align: center;">TR</td><td style="text-align: center;">TR</td></tr> <tr><td>Quartz</td><td style="text-align: center;">50</td><td style="text-align: center;">45</td><td style="text-align: center;">45</td><td style="text-align: center;">50</td></tr> <tr><td>Mica</td><td style="text-align: center;">TR</td><td style="text-align: center;">TR</td><td style="text-align: center;">TR</td><td style="text-align: center;">TR</td></tr> <tr><td>Heavy minerals</td><td style="text-align: center;">2</td><td style="text-align: center;">1</td><td style="text-align: center;">TR</td><td style="text-align: center;">1</td></tr> <tr><td>Clay</td><td style="text-align: center;">37</td><td style="text-align: center;">48</td><td style="text-align: center;">45</td><td style="text-align: center;">39</td></tr> <tr><td>Hornblende</td><td style="text-align: center;">TR</td><td style="text-align: center;">TR</td><td style="text-align: center;">TR</td><td style="text-align: center;">TR</td></tr> <tr><td>Glauconite</td><td style="text-align: center;">TR</td><td style="text-align: center;">--</td><td style="text-align: center;">TR</td><td style="text-align: center;">TR</td></tr> <tr><td>Volcanic glass</td><td style="text-align: center;">1</td><td style="text-align: center;">1</td><td style="text-align: center;">--</td><td style="text-align: center;">--</td></tr> <tr><td>Sand</td><td style="text-align: center;">11</td><td style="text-align: center;">15</td><td style="text-align: center;">5</td><td style="text-align: center;">10</td></tr> <tr><td>Silt</td><td style="text-align: center;">40</td><td style="text-align: center;">40</td><td style="text-align: center;">40</td><td style="text-align: center;">40</td></tr> <tr><td>Clay</td><td style="text-align: center;">49</td><td style="text-align: center;">45</td><td style="text-align: center;">55</td><td style="text-align: center;">50</td></tr> </tbody> </table>				Minerals:	<u>4 cm</u> bleb	<u>20 cm</u> D	<u>40 cm</u> layer	<u>50 cm</u> D	Diatoms	10	5	10	10	Spicules	TR	TR	TR	TR	Quartz	50	45	45	50	Mica	TR	TR	TR	TR	Heavy minerals	2	1	TR	1	Clay	37	48	45	39	Hornblende	TR	TR	TR	TR	Glauconite	TR	--	TR	TR	Volcanic glass	1	1	--	--	Sand	11	15	5	10	Silt	40	40	40	40	Clay	49	45	55	50
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NBP00-03-29B MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.450 S	Water Depth: 690 m
				Longitude: 58.610 W	Core Length: 63 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-63 cm: Overall, soft, watery, dark greenish gray 5GY 4/1, diatom-bearing, silt-rich mud with scattered, subangular to subrounded, very fine to fine sand and rare subangular, fine pebbles occur throughout the core. Scattered, fine to medium (4 mm to 15 mm), moderate olive brown 5Y 4/4, diatom-bearing mud blebs with gradational contacts also occur throughout the core. Common, dark greenish gray 5GY 4/1, firm, fine to medium (2-8 mm, gradational contacts), diatom-bearing, silt-rich mud pebbles in an ill-defined layer. Heavily bioturbated with common 2-3 mm open burrows throughout the core.</p> <p>3-6 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silty mud layer. Gradational contacts.</p> <p>36-39 cm: Dark greenish gray 5GY 4/1, fine to medium (2-8 mm, gradational contacts), diatom-bearing, silt-rich mud pebbles in an ill-defined layer.</p> <p>NOTE: The core is slightly disturbed from 12 to 30 cm by washing along the core liner. This core was split and described at the Antarctic Research Facility.</p>	


NBP00-03-29C MTC

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<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-59 cm: Overall, dark greenish gray 5GY 4/1, diatom-bearing, silt-rich mud with scattered, subangular to subrounded, very fine to fine sand and rare subangular, fine pebbles occur throughout the core. Scattered, fine to medium (4 mm to 15 mm), moderate olive brown 5Y 4/4, diatom-bearing mud blebs with gradational contacts also occur throughout the core. Common dark greenish gray 5GY 4/1, firm, fine to medium (2-8 mm, gradational contacts), diatom-bearing, silt-rich mud pebbles are scattered throughout the core and in an ill-defined layer. Heavily bioturbated with common 2-3 mm open burrows throughout the core.</p> <p>0-1 cm: Dark greenish gray 5GY 4/1, firm, medium, diatom-bearing, silt-rich mud pebble. Gradational contacts,</p> <p>6.5-8.5 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silt-rich mud layer with a higher water content then the surrounding sediment. Gradational contacts.</p> <p>9.0-9.3 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silt-rich mud stringer with a higher water content then the surrounding sediment. Gradational contacts.</p> <p>13-15 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silt-rich mud bleb with a higher water content then the surrounding sediment. Gradational contacts.</p> <p>15.1-15.5 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silt-rich mud stringer with a higher water content then the surrounding sediment. Gradational contacts.</p> <p>16.5-17 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silt-rich mud bleb with a higher water content then the surrounding sediment. Gradational contacts.</p> <p>37-40 cm: Dark greenish gray 5GY 4/1, firm, fine to medium (2-8 mm, gradational contacts), diatom-bearing, silt-rich mud pebbles in an ill-defined layer.</p> <p>NOTE: This core was split and described at the Antarctic Research Facility.</p> <p>Smear Slides:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Minerals:</th> <th style="text-align: center;"><u>1 cm</u></th> <th style="text-align: center;"><u>8 cm</u></th> <th style="text-align: center;"><u>38 cm</u></th> <th style="text-align: center;"><u>57 cm</u></th> </tr> </thead> <tbody> <tr> <td></td> <td style="text-align: center;">mud pebble</td> <td style="text-align: center;">layer</td> <td style="text-align: center;">mud pebble</td> <td style="text-align: center;">D</td> </tr> <tr> <td>Diatoms</td> <td style="text-align: center;">10</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> <td style="text-align: center;">10</td> </tr> <tr> <td>Spicules</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Siliciflagellates</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Foraminifera</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> <td style="text-align: center;">--</td> </tr> <tr> <td>Quartz</td> <td style="text-align: center;">50</td> <td style="text-align: center;">40</td> <td style="text-align: center;">50</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Mica</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Heavy minerals</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">37</td> <td style="text-align: center;">48</td> <td style="text-align: center;">46</td> <td style="text-align: center;">39</td> </tr> <tr> <td>Hornblende</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Glaucanite</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">--</td> <td style="text-align: center;">TR</td> <td style="text-align: center;">TR</td> </tr> <tr> <td>Sand</td> <td style="text-align: center;">11</td> <td style="text-align: center;">15</td> <td style="text-align: center;">10</td> <td style="text-align: center;">10</td> </tr> <tr> <td>Silt</td> <td style="text-align: center;">40</td> <td style="text-align: center;">40</td> <td style="text-align: center;">40</td> <td style="text-align: center;">40</td> </tr> <tr> <td>Clay</td> <td style="text-align: center;">49</td> <td style="text-align: center;">45</td> <td style="text-align: center;">50</td> <td style="text-align: center;">50</td> </tr> </tbody> </table>		Minerals:	<u>1 cm</u>	<u>8 cm</u>	<u>38 cm</u>	<u>57 cm</u>		mud pebble	layer	mud pebble	D	Diatoms	10	3	3	10	Spicules	TR	TR	TR	TR	Siliciflagellates	TR	--	--	--	Foraminifera	TR	--	--	--	Quartz	50	40	50	50	Mica	TR	TR	TR	TR	Heavy minerals	2	1	1	1	Clay	37	48	46	39	Hornblende	TR	TR	TR	TR	Glaucanite	TR	--	TR	TR	Sand	11	15	10	10	Silt	40	40	40	40	Clay	49	45	50	50
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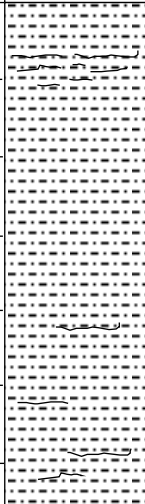
NBP00-03-30A MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.510 S	Water Depth: 843 m
				Longitude: 58.707 W	Core Length: 61.5 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-61.5 cm: Overall, grayish olive 10Y 4/2, soft, heavily bioturbated, underconsolidated silty mud from 0-3 cm then a gradational change to dark greenish gray 5GY 4/1, clay-rich, silty mud with scattered, subangular to subrounded, very fine to fine sand and rare subangular, fine pebbles. Scattered dark gray N3, mottling and dark greenish gray 5GY 4/1 firm, fine (1-1.5 mm in diameter) clay-rich, silty mud pebbles occur throughout the core often in layers. Rare moderate olive brown 5Y 4/4, diatom-bearing silty mud layers with gradational contacts also occur.</p> <p>2-4 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silty mud. Gradational contacts.</p> <p>30-35 cm: Dark greenish gray 5GY 4/1 firm, fine (1-1.5 mm in diameter) clay-rich, silty mud pebble layer. Gradational contacts.</p> <p>43-44 cm: Dark greenish gray 5GY 4/1 firm, fine (1-1.5 mm in diameter) clay-rich, silty mud pebble layer. Gradational contacts.</p> <p>50.5-51 cm: Dark greenish gray 5GY 4/1 firm, fine (1-1.5 mm in diameter) clay-rich, silty mud pebble layer. Gradational contacts.</p> <p>59-60 cm: Dark greenish gray 5GY 4/1 firm, fine (1-1.5 mm in diameter) clay-rich, silty mud pebble layer. Gradational contacts.</p> <p>60-61.5 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silty mud. Gradational contacts.</p> <p>NOTE: This core was split, described and sampled on the ship.</p>	

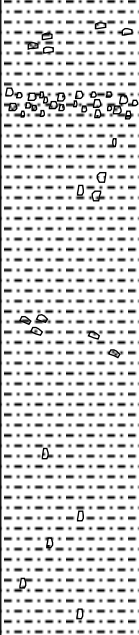
NBP00-03-30B MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.510 S Longitude: 58.707 W	Water Depth: 843 m Core Length: 65 cm
LITHOLOGIC DESCRIPTION					
50				<p>0-65 cm: Overall, grayish olive 10Y 4/2, soft, heavily bioturbated, underconsolidated silty mud from 0-3 cm then a gradational change to dark greenish gray 5GY 4/1, clay-rich, silty mud with scattered, subangular to subrounded, very fine to fine sand and rare subangular, fine pebbles. Scattered dark gray N3, mottling and dark greenish gray 5GY 4/1 firm, fine (1-1.5 mm in diameter) clay-rich, silty mud pebbles occur throughout the core often in layers. Rare moderate olive brown 5Y 4/4, diatom-bearing silty mud layers with gradational contacts also occur.</p> <p>8.5-12 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silty mud bleb. Gradational contacts.</p> <p>19-27.5 cm: Black N1, diatom-rich, silty mud bleb. Abrupt contacts.</p> <p>NOTE: This core was split and described at the Antarctic Research Facility.</p>	
100					
150					

NBP00-03-30C MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.510 S	Water Depth: 843 m
				Longitude: 58.707 W	Core Length: 65 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-65 cm: Overall, grayish olive 10Y 4/2, soft, heavily bioturbated, underconsolidated silty mud from 0-3 cm then a gradational change to dark greenish gray 5GY 4/1, clay-rich, silty mud with scattered, subangular to subrounded, very fine to fine sand and rare subangular, fine pebbles. Scattered dark gray N3, mottling and dark greenish gray 5GY 4/1 firm, fine (1-1.5 mm in diameter) clay-rich, silty mud pebbles occur throughout the core often in layers. Rare moderate olive brown 5Y 4/4, diatom-bearing silty mud layers with gradational contacts also occur.</p> <p>5-6 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silty mud bleb. Gradational contacts.</p> <p>7-10.5 cm: Moderate olive brown 5Y 4/4, diatom-bearing, silty mud bleb. Gradational contacts.</p> <p>16-18 cm: Black N1, diatom-rich, silty mud bleb. Abrupt contacts.</p> <p>26-27 cm: Grayish olive 10Y 4/2, diatom-rich clay-rich, silty mud layer. Same color as dominate sediment, but slightly different texture. Gradational contacts.</p> <p>NOTE: This core was split and described at the Antarctic Research Facility.</p>	

NBP00-03-34A MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.443 S	Water Depth: 865 m
				Longitude: 58.606 W	Core Length: 70 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-70 cm: Overall, grayish olive 10Y 4/2, with an abrupt transition to dark greenish gray 5GY 4/1, occurring at 14 cm, soft, scattered, angular to subrounded, very fine to fine sand and diatom-bearing, silt-rich mud with scattered, angular to subrounded, very fine to rare medium pebbles occur throughout the core, but predominately occurring from 40-50 cm. Common medium light gray N6, scattered, firm, fine, (1-2), silt blebs occur from 16-70 cm. Rare moderate olive brown 5Y 4/4, diatomaceous ooze layers and stringers. The diatom component decreases down core.</p> <p>0-11 cm: Grayish olive 10Y 4/2, soft, diatomaceous, silt-rich mud with scattered, subrounded, very fine to fine sand and scattered, subrounded, very fine to fine pebbles. Abrupt contact.</p> <p>6-6.5 cm: Subrounded, fine pebble.</p> <p>6-6.5 cm: Open 2 mm diameter worm burrow .</p> <p>9-9.5 cm: Subrounded, fine pebble.</p> <p>11-14 cm: Moderate olive brown 5Y 4/4, diatomaceous mud layer with abrupt contacts. (Removed for sampling).</p> <p>14-70 cm: Dark greenish gray 5GY 4/1, soft, diatom-bearing, silt-rich mud with scattered, subrounded, very fine to fine sand throughout the core. Scattered, subrounded, very fine to rare medium pebbles occur throughout the core, but predominately occurring from 40-50 cm. Rare moderate olive brown 5Y 4/4, diatomaceous ooze stringers. Common medium light gray N6, scattered, firm, fine, (1-2 mm), silt blebs.</p> <p>27-28 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze stringer. Gradational contacts.</p> <p>NOTE: This core was split, described and sampled on the ship.</p>	

NBP00-03-34C MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.443 S	Water Depth: 865 m
				Longitude: 58.606 W	Core Length: 73 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-73 cm: Overall, soft, olive gray 5Y 3/2, soft, scattered, angular to subrounded, very fine to fine sand and diatom-bearing, silt-rich mud with scattered, angular to subrounded, very fine to rare coarse pebbles occur throughout the core. Abundant greenish gray 5G 6/1, firm, very fine to fine (1-2 mm), silt-rich mud blebs occur throughout the core, but primarily in one layer with gradational contacts.</p> <p>4-9 cm: Greenish gray 5G 6/1, abundant firm, very fine to fine (1-2 mm), silt-rich mud bleb layer. Gradational upper and abrupt lower contacts.</p> <p>9-11 cm: Moderate olive brown 5Y4/4, firm, abundant, very fine to rare medium (1-5 mm) diatomaceous ooze mud blebs occur in a layer, Abrupt contacts.</p> <p>18-26 cm: Greenish gray 5G 6/1, abundant firm, very fine to fine (1-2 mm), silt-rich mud bleb layer. Gradational contacts.</p> <p>19-20 cm: Angular, medium basaltic pebble.</p> <p>33-47 cm: Greenish gray 5G 6/1, abundant firm, very fine to fine (1-2 mm), silt-rich mud bleb zone with a higher water content then the surrounding sediment. Gradational contacts.</p> <p>43-47 cm: Angular, coarse basaltic pebble.</p> <p>NOTE: The core is moderately disturbed due to the high water content and splitting of the core. This core was split and described at the Antarctic Research Facility.</p>	

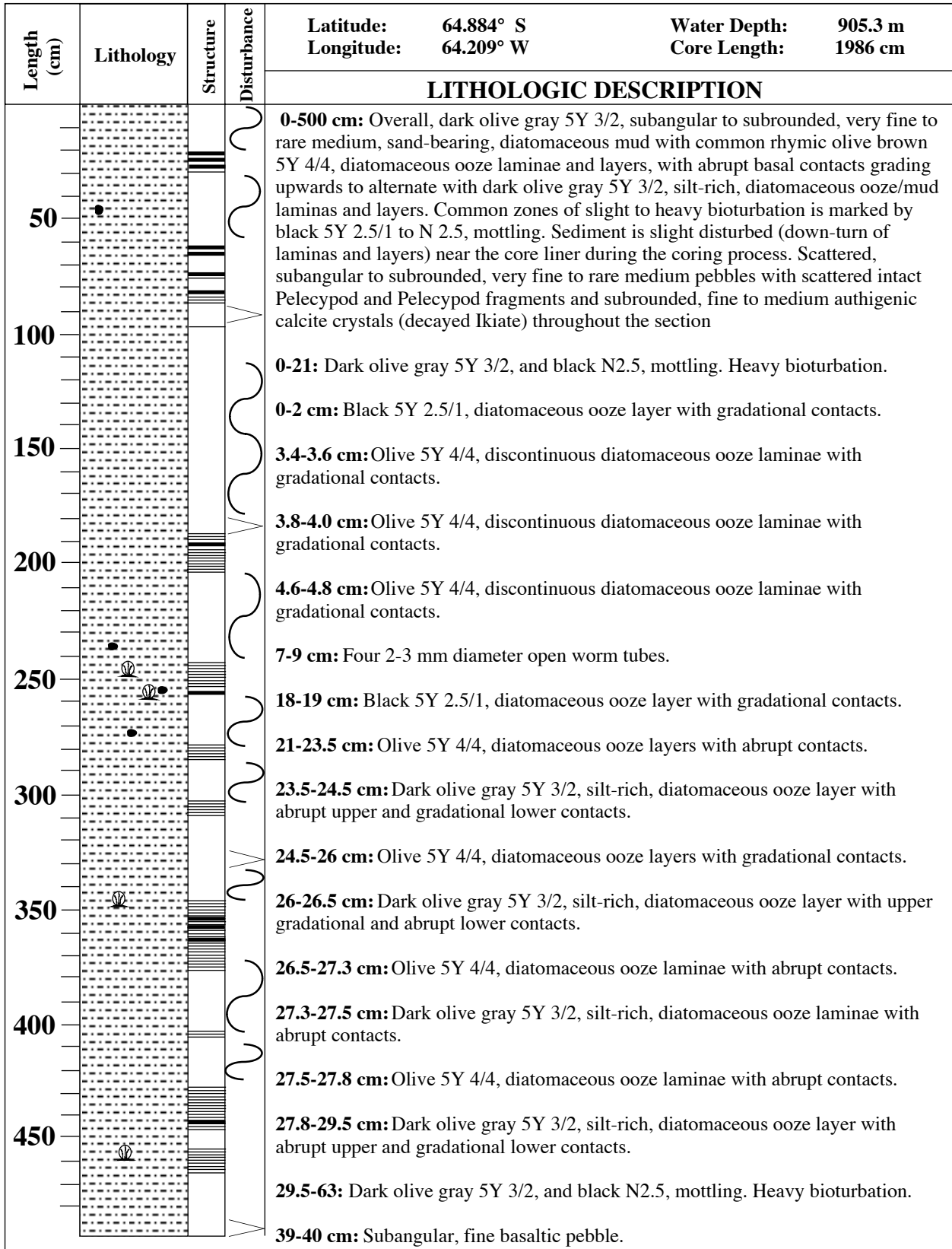
NBP00-03-38 JTC

Length (cm)	Lithology	Structure	Disturbance	Latitude:	64.717 S	Water Depth:	791 m
				Longitude:	57.411 W	Core Length:	127 cm
LITHOLOGIC DESCRIPTION							
50				<p>0-127 cm: Overall, olive gray 5Y 4/1, subangular, very fine sand and silt-bearing diatomaceous mud with common, moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, laminae and layers with both gradational and abrupt contacts. Common zones of heavy bioturbation.</p>			
				<p>2-2.5 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, laminae. Abrupt contact.</p>			
				<p>3-3.5 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, laminae. Abrupt contacts.</p>			
				<p>4-4.5 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, laminae. Abrupt contacts.</p>			
				<p>5-6 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, layer. Abrupt contacts.</p>			
				<p>10-11 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, layer. Abrupt contacts.</p>			
				<p>15-15.5 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, laminae. Abrupt contacts.</p>			
				<p>16-16.5 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, laminae. Abrupt contacts.</p>			
100				<p>20.5-21 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, laminae. Gradational contacts.</p>			
				<p>22.8-23 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, laminae. Gradational contacts.</p>			
				<p>23-50 cm: Zone of heavy bioturbation.</p>			
				<p>50-51 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, layer. Gradational contacts.</p>			
				<p>53-56 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, layer. Gradational contacts.</p>			
150				<p>68-69 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, layer. Gradational contacts.</p>			
	<p>106-106.5 cm: Medium bivalve fragment (sampled).</p>						
	<p>117-118 cm: Moderate olive brown 5Y 4/4, diatomaceous ooze, primarily diatom spores, layer. Gradational contacts.</p>						
				<p>NOTE: This core was split and described at the Antarctic Research Facility.</p>			

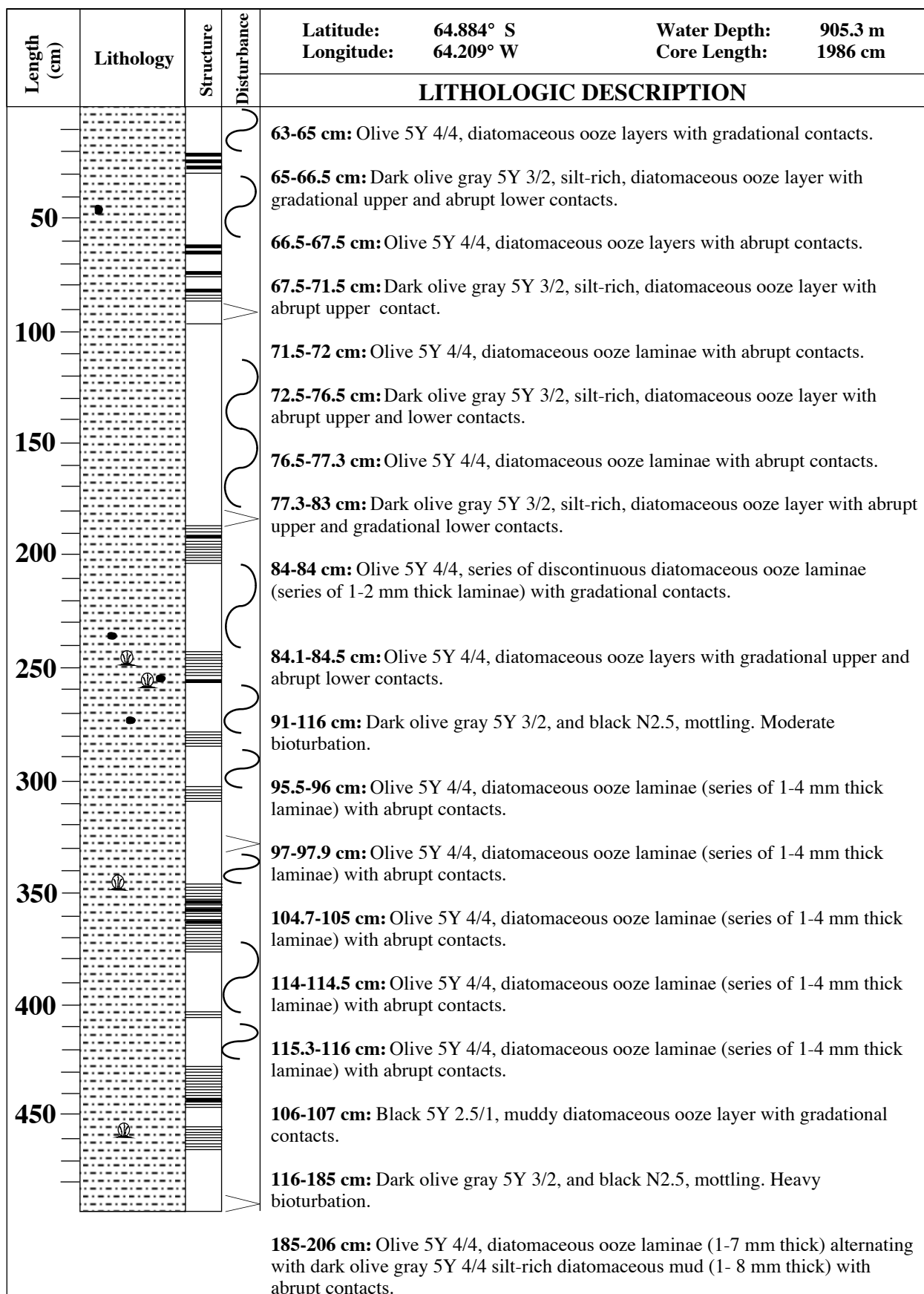
NBP00-03-38 JTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.717 S	Water Depth: 791 m																																																												
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LITHOLOGIC DESCRIPTION																																																																	
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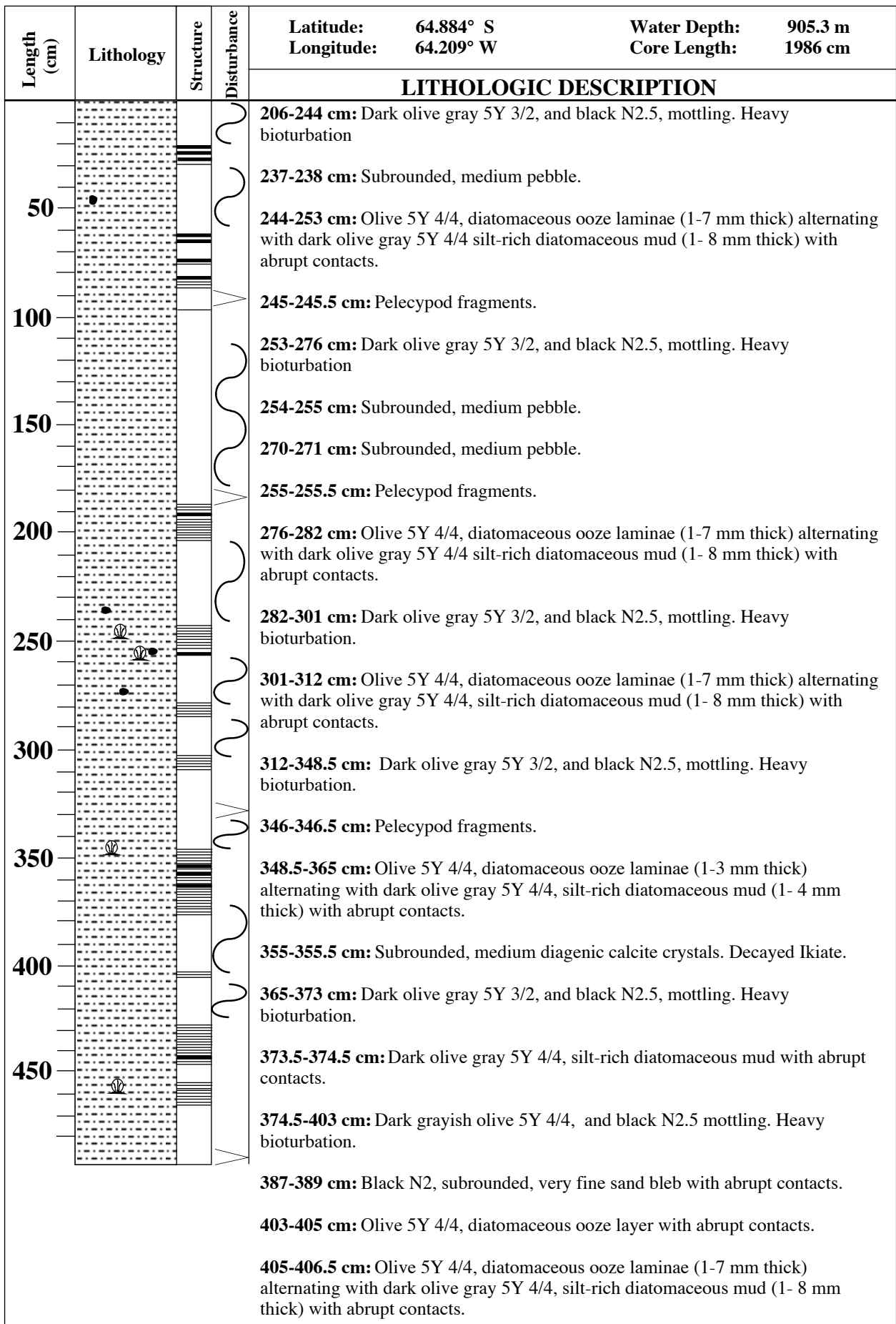
NBP00-03-38 JPC



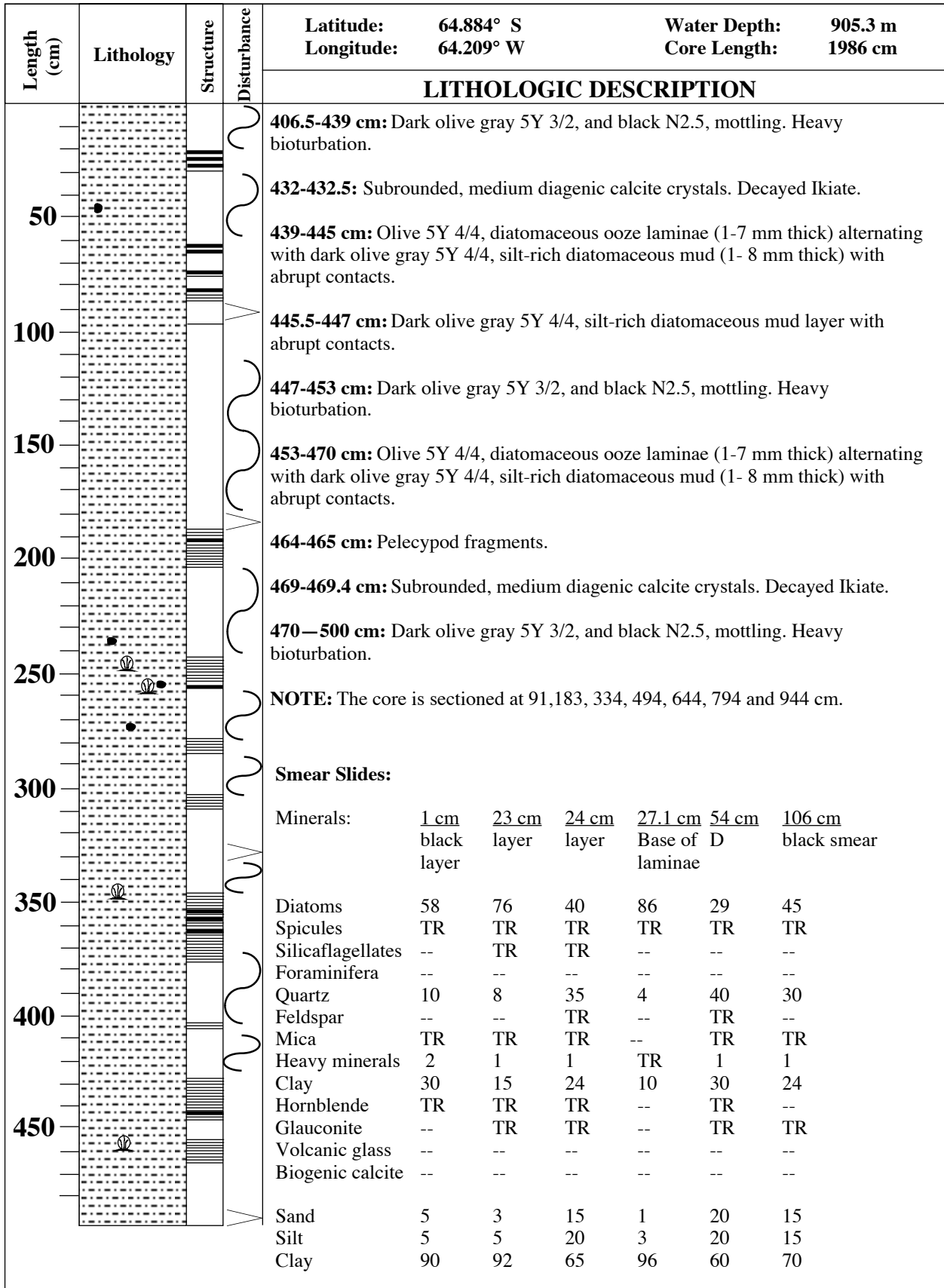
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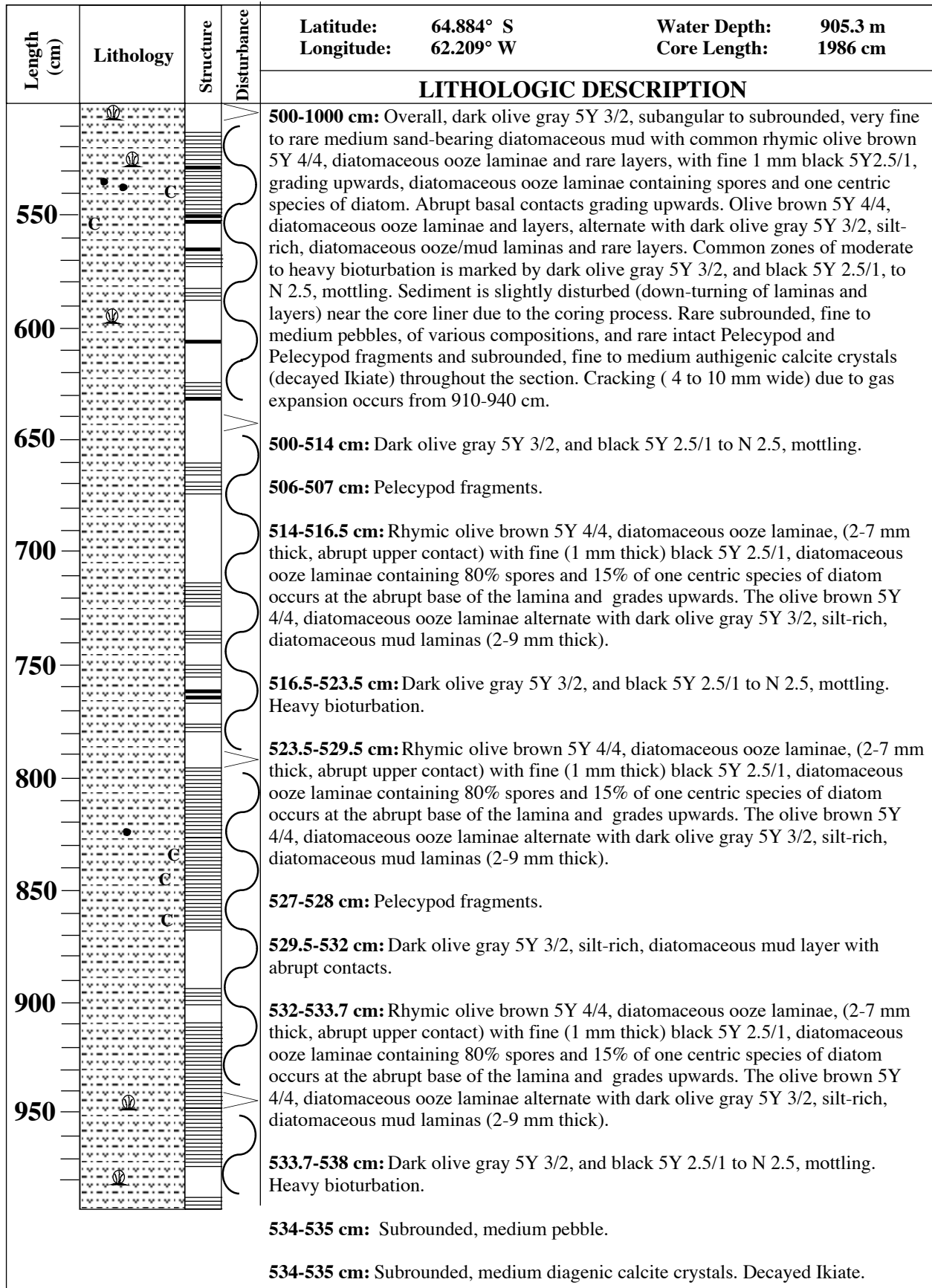
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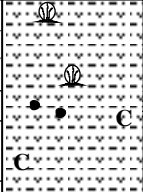


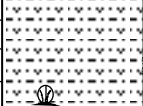


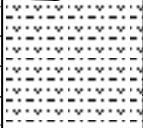

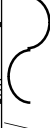
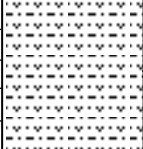


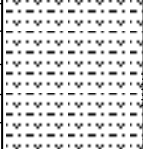


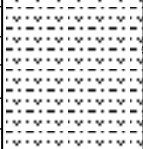


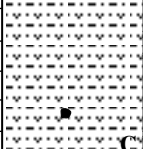


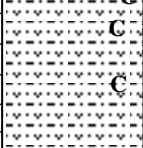


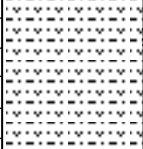


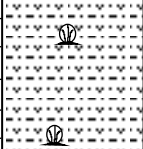

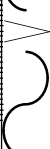
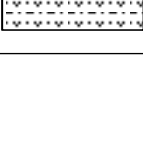
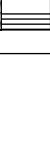
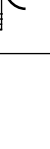



NBP00-03-38 JPC



NBP99-03-38 JPC



NBP99-03-38 JPC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.884° S Longitude: 62.209° W	Water Depth: 905.3 m Core Length: 1986 cm
LITHOLOGIC DESCRIPTION					
550				<p>538-539.5 cm: Rhythmic olive brown 5Y 4/4, diatomaceous ooze laminae, (2-7 mm thick, abrupt upper contact) with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards. The olive brown 5Y 4/4, diatomaceous ooze laminae alternate with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-9 mm thick).</p>	
600				<p>539.5-547 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p>	
650				<p>539-540 cm: Subrounded, medium pebble.</p>	
700				<p>547-554.5 cm: Rhythmic olive brown 5Y 4/4, diatomaceous ooze laminae, (2-7 mm thick, abrupt upper contact) with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards. The olive brown 5Y 4/4, diatomaceous ooze laminae alternate with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-9 mm thick).</p>	
750				<p>551-552 cm: Dark olive gray 5Y 3/2, silt-rich, diatomaceous mud layer with abrupt contacts.</p>	
800				<p>551-557 cm: Subrounded, medium diagenic calcite crystals. Decayed Ikiate.</p>	
850				<p>554.5-565.5 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p>	
900				<p>565.5-574 cm: Rhythmic olive brown 5Y 4/4, diatomaceous ooze laminae, (2-7 mm thick, abrupt upper contact) with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards. The olive brown 5Y 4/4, diatomaceous ooze laminae alternate with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-9 mm thick).</p>	
950				<p>566.5-567.3 cm: Dark olive gray 5Y 3/2, silt-rich, diatomaceous mud layer with abrupt contacts.</p>	
950				<p>571-572 cm: Olive brown 5Y 4/4, diatomaceous ooze layer with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards.</p>	
950				<p>574-585.5 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p>	
950				<p>585.5-587.4 cm: Rhythmic olive brown 5Y 4/4, diatomaceous ooze laminae, (2-7 mm thick, abrupt upper contact) with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards. The olive brown 5Y 4/4, diatomaceous ooze laminae alternate with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-9 mm thick).</p>	

NBP99-03-38 JPC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.884° S Longitude: 62.209° W	Water Depth: 905.3 m Core Length: 1986 cm
LITHOLOGIC DESCRIPTION					
550	c			587.4-592.3 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation. 592-593 cm: Pelecypod fragments. 592.3-593.1 cm: Rhymic (varve-like) olive brown 5Y 4/4, diatomaceous ooze laminae, (1-2 mm thick) alternating with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (1-2 mm thick) with abrupt contacts.	
600				593.1-596 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation. 596-597.3 cm: Rhyme (valve-like) olive brown 5Y 4/4, diatomaceous ooze laminae, (1-2 mm thick) alternating with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (1-2 mm thick) with abrupt contacts.	
650				597.3-605.5 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation. 605.5-608 cm: Rhyme olive brown 5Y 4/4, diatomaceous ooze laminae, (2-7 mm thick, abrupt upper contact) with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards. The olive brown 5Y 4/4, diatomaceous ooze laminae alternate with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-9 mm thick).	
700				608-609 cm: Dark olive gray 5Y 3/2, silt-rich, diatomaceous mud layer with abrupt contacts. 609-613.5 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.	
750				613.5-614 cm: Olive brown 5Y 4/4, diatomaceous ooze laminae with abrupt contacts. 614-625 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.	
800				625-628.5 cm: Rhymic (varve-like) olive brown 5Y 4/4, diatomaceous ooze laminae, (1-2 mm thick) alternating with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (1-2 mm thick) with abrupt contacts. 628.5-633 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.	
850				633-634.5 cm: Dark olive gray 5Y 3/2, silt-rich, diatomaceous mud layer with abrupt contacts. 633-634.5 cm: Rhymic olive brown 5Y 4/4, diatomaceous ooze laminae, (2-7 mm thick, abrupt upper contact) with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards. The olive brown 5Y 4/4, diatomaceous ooze laminae alternate with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-9 mm thick).	
900					
950					

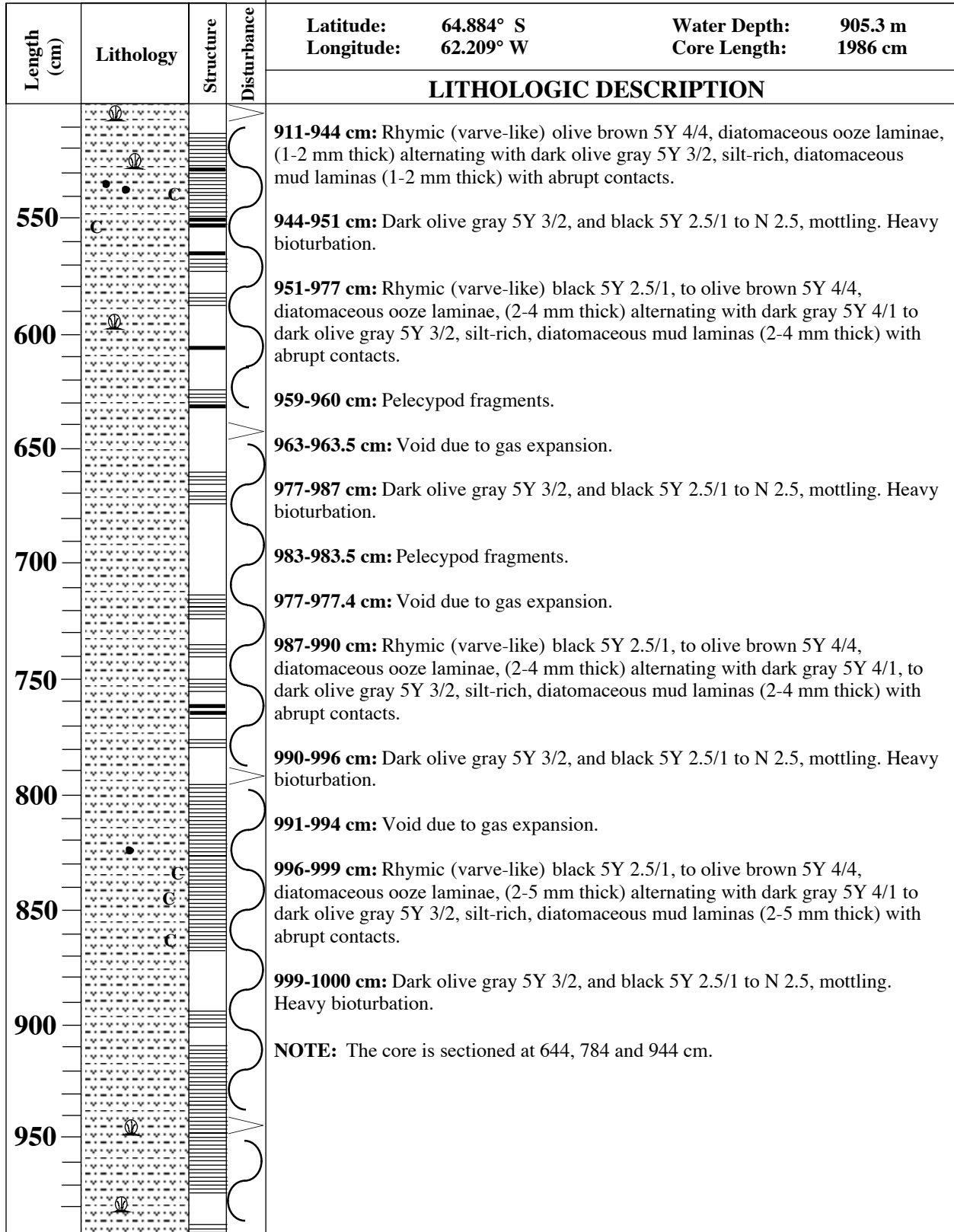
NBP99-03-38 JPC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.884° S Longitude: 62.209° W	Water Depth: 905.3 m Core Length: 1986 cm
LITHOLOGIC DESCRIPTION					
550				<p>634.5-635.5 cm: Olive brown 5Y 4/4, diatomaceous ooze layer with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards.</p>	
600				<p>635.5-661 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p> <p>661-666 cm: Rhymic olive brown 5Y 4/4, diatomaceous ooze laminae, (2-5 mm thick, abrupt upper contact) with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards. The olive brown 5Y 4/4, diatomaceous ooze laminae alternate with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-5 mm thick).</p>	
650				<p>666-673 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p>	
700				<p>673-678 cm: Rhymic olive brown 5Y 4/4, diatomaceous ooze laminae, (2-5 mm thick, abrupt upper contact) with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards. The olive brown 5Y 4/4, diatomaceous ooze laminae alternate with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-5 mm thick).</p>	
750				<p>678-714 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p>	
800				<p>714-723 cm: Rhymic olive brown 5Y 4/4, diatomaceous ooze laminae, (2-5 mm thick, abrupt upper contact) with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards. The olive brown 5Y 4/4, diatomaceous ooze laminae alternate with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-5 mm thick).</p>	
850				<p>723-735 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p>	
900				<p>735-739 cm: Rhymic olive brown 5Y 4/4, diatomaceous ooze laminae, (2-5 mm thick, abrupt upper contact) with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards. The olive brown 5Y 4/4, diatomaceous ooze laminae alternate with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-5 mm thick).</p>	
950				<p>739-752 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p>	
				<p>752-754 cm: Rhymic (varve-like) olive brown 5Y 4/4, diatomaceous ooze laminae, (1-2 mm thick) alternating with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (1-2 mm thick) with abrupt contacts.</p>	

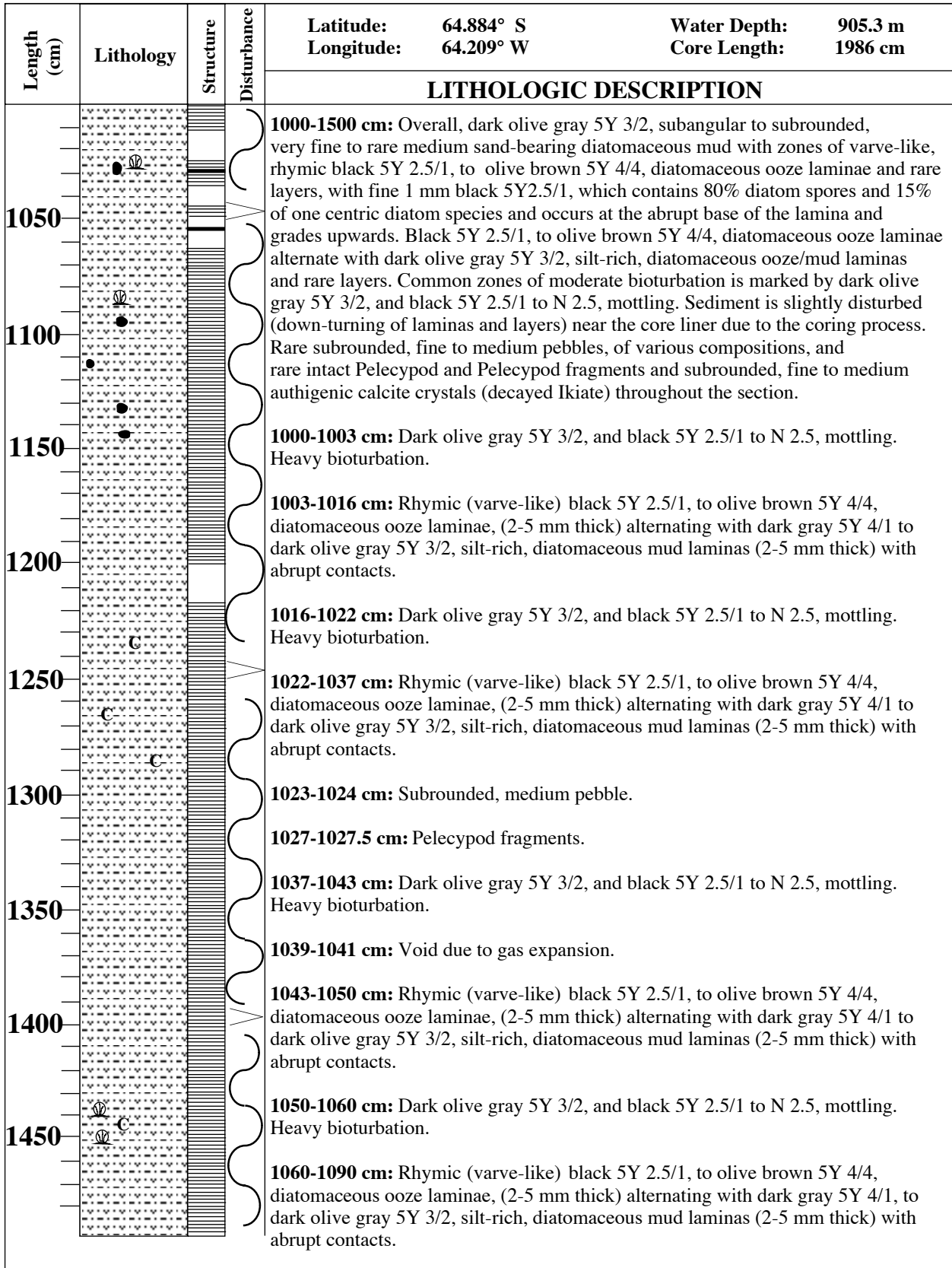
NBP99-03-38 JPC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.884° S Longitude: 62.209° W	Water Depth: 905.3 m Core Length: 1986 cm
LITHOLOGIC DESCRIPTION					
				754-762 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.	
550				762-763 cm: Olive brown 5Y 4/4, diatomaceous ooze layer with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae containing 80% spores and 15% of one centric species of diatom occurs at the abrupt base of the lamina and grades upwards.	
600				763-764 cm: Dark olive gray 5Y 3/2, silt-rich, diatomaceous mud layer with abrupt contacts.	
650				764-764.5 cm: Olive brown 5Y 4/4, diatomaceous ooze laminae with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae which contains 80% diatom spores and 15% of one centric diatom species and occurs at the abrupt base of the lamina and grades upwards.	
700				764.5-777.5 cm: Dark olive gray 5Y 3/2, silt-rich, diatomaceous mud layer with abrupt contacts.	
750				777.5-778 cm: Olive brown 5Y 4/4, diatomaceous ooze laminae with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae which contains 80% diatom spores and 15% of one centric diatom species and occurs at the abrupt base of the lamina and grades upwards.	
800				778-778.5 cm: Dark olive gray 5Y 3/2, silt-rich, diatomaceous mud layer with abrupt contacts.	
850				778.5-779 cm: Olive brown 5Y 4/4, diatomaceous ooze laminae with fine (1 mm thick) black 5Y 2.5/1, diatomaceous ooze laminae which contains 80% diatom spores and 15% of one centric diatom species and occurs at the abrupt base of the lamina and grades upwards.	
				779-786 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.	
850				786-871 cm: Rhymic (varve-like) olive brown 5Y 4/4, diatomaceous ooze laminae, (1-2 mm thick) alternating with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (1-2 mm thick) with abrupt contacts.	
900				826-828 cm: Subrounded, medium siltstone pebble.	
				831-832 cm: Subrounded, medium diagenic calcite crystals. Decayed Ikiate.	
				846-847 cm: Subrounded, medium diagenic calcite crystals. Decayed Ikiate.	
950				861-864 cm: Subrounded, medium diagenic calcite crystals. Decayed Ikiate.	
				871-895 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.	
				895-902 cm: Rhymic (varve-like) olive brown 5Y 4/4, diatomaceous ooze laminae, (1-2 mm thick) alternating with dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (1-2 mm thick) with abrupt contacts.	
				902-911 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.	

NBP99-03-38 JPC



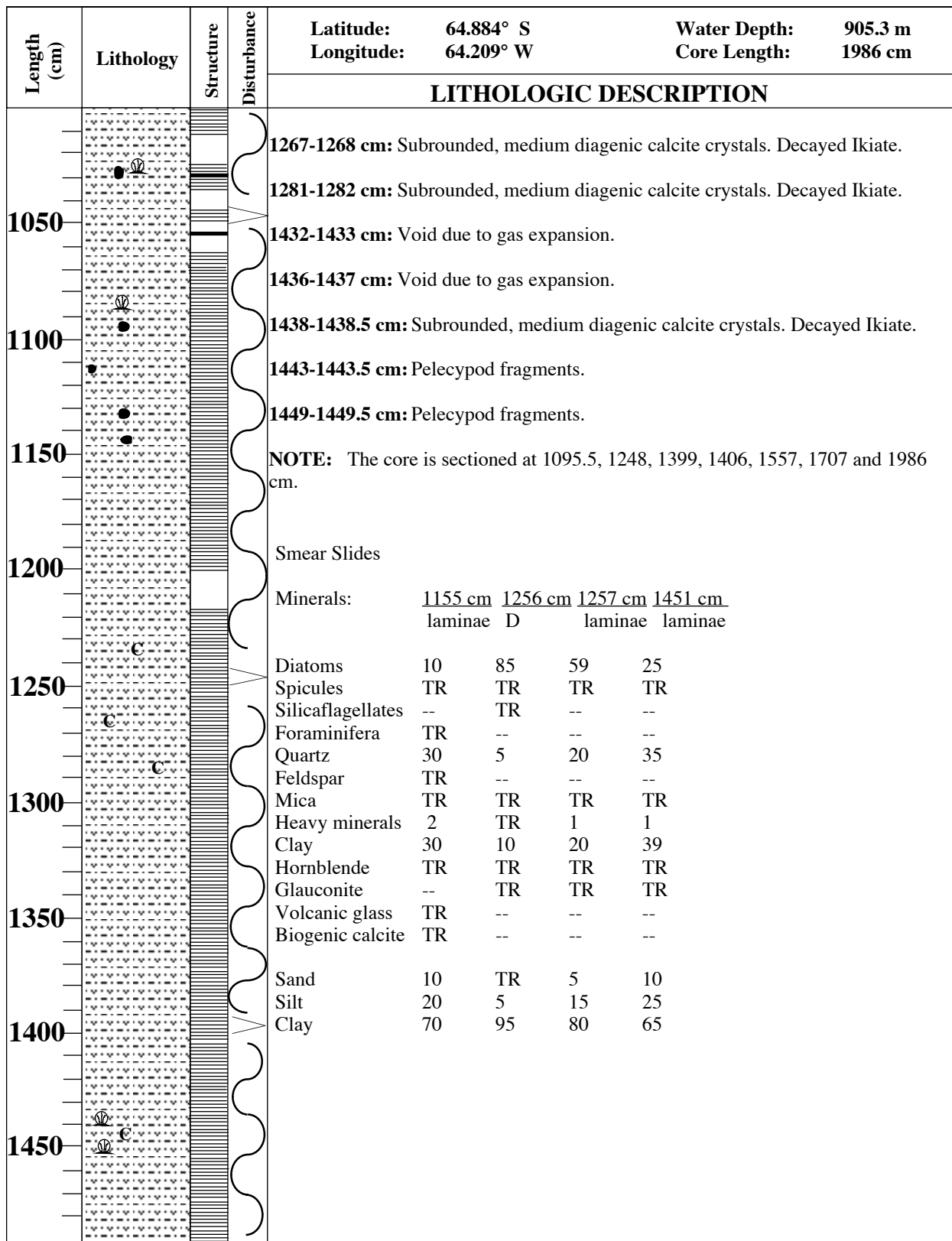
NBP99-03-38 JPC



NBP99-03-38 JPC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.884° S	Water Depth: 905.3 m
				Longitude: 64.209° W	Core Length: 1986 cm
LITHOLOGIC DESCRIPTION					
				<p>1079-1079.5 cm: Pelecypod fragments.</p>	
				<p>1090-1105 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p>	
1050				<p>1095-1096 cm: Subrounded, medium pebble.</p>	
				<p>1105-1125 cm: Rhymic (varve-like) black 5Y 2.5/1, to olive brown 5Y 4/4, diatomaceous ooze laminae, (2-3 mm thick) alternating with dark gray 5Y 4/1, to dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-3 mm thick) with abrupt contacts.</p>	
1100				<p>1112-1113 cm: Subrounded, medium basaltic pebble.</p>	
				<p>1125-1130 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p>	
1150				<p>1130-1133 cm: Rhymic (varve-like) black 5Y 2.5/1, to olive brown 5Y 4/4, diatomaceous ooze laminae, (2-3 mm thick) alternating with dark gray 5Y 4/1, to dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-3 mm thick) with abrupt contacts.</p>	
1200				<p>1133-1136 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p>	
				<p>1136-1142 cm: Rhymic (varve-like) black 5Y 2.5/1, to olive brown 5Y 4/4, diatomaceous ooze laminae, (2-3 mm thick) alternating with dark gray 5Y 4/1, to dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-3 mm thick) with abrupt contacts.</p>	
1250				<p>1142-1153 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p>	
				<p>1153-1155 cm: Olive gray 5Y 4/2, muddy, subrounded, very fine sand with abrupt contacts. Firmer with less water content than the surrounding sediment.</p>	
1300				<p>1155-1213 cm: Rhymic (varve-like) black 5Y 2.5/1, to olive brown 5Y 4/4, diatomaceous ooze laminae, (2-3 mm thick) alternating with dark gray 5Y 4/1 to dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-3 mm thick) with abrupt contacts.</p>	
1350				<p>1213-1218 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation.</p>	
				<p>1218-1500 cm: Rhymic (varve-like) black 5Y 2.5/1, to olive brown 5Y 4/4, diatomaceous ooze laminae, (2-3 mm thick) alternating with dark gray 5Y 4/1 to dark olive gray 5Y 3/2, silt-rich, diatomaceous mud laminae (2-3 mm thick) with abrupt contacts.</p>	
1400					
1450					

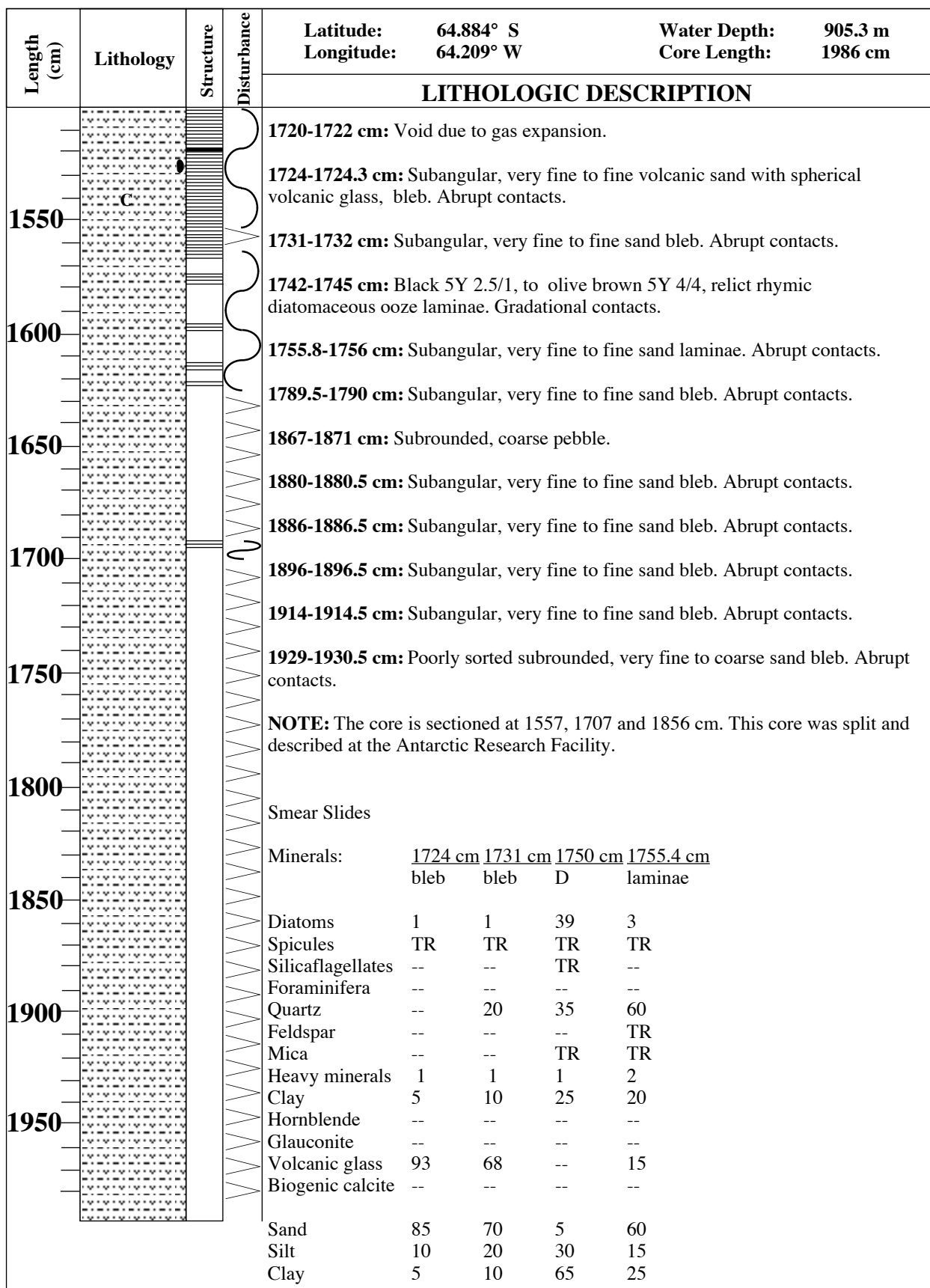
NBP99-03-38 JPC



NBP00-03-38 JPC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.884° S Longitude: 64.209° W	Water Depth: 905.3 m Core Length: 1986 cm
LITHOLOGIC DESCRIPTION					
1550				1500-1986 cm: Overall, dark olive gray 5Y 3/2, subangular to subrounded, very fine to rare medium sand-bearing diatomaceous mud with rare relict black 5Y 2.5/1, to olive brown 5Y 4/4, diatomaceous ooze laminae which alternates with dark olive gray 5Y 3/2, silt-rich, diatomaceous ooze/mud laminae and rare layers occur in the upper part of the section. Common zones of moderate bioturbation are marked by dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Rare subrounded, fine to medium pebbles, of various compositions. Rare subrounded fine authigenic calcite crystals (decayed Ikiate) in the upper part of the section. One black 5Y 2.5/1, muddy, subangular very, fine sand layer occurs at 1521-1522 cm. No fossil fragments are visible in the core.	
1600				1514-1516 cm: Elongated, subrounded, medium pebble.	
1650				1521-1522 cm: Black 5Y 2.5/1, muddy diatom-rich, subangular, fine volcanic sand and glass. Abrupt contacts.	
1700				1535-1535.5 cm: Void due to gas expansion.	
1750				1543-1544 cm: Void due to gas expansion.	
1800				1543-1544 cm: Subrounded, fine diagenic calcite crystals. Decayed Ikiate.	
1850				1548-1548.5 cm: Void due to gas expansion.	
1900				1570-1707 cm: Dark olive gray 5Y 3/2, and black 5Y 2.5/1 to N 2.5, mottling. Heavy bioturbation with rare relict rhymic black 5Y 2.5/1, to olive brown 5Y 4/4, diatomaceous ooze laminae.	
1950				1577-1580 cm: Black 5Y 2.5/1, to olive brown 5Y 4/4, relict rhymic diatomaceous ooze laminae. Gradational contacts.	
				1577-1580 cm: Void due to gas expansion.	
				1595-1596 cm: Void due to gas expansion.	
				1611-1612 cm: Black 5Y 2.5/1, to olive brown 5Y 4/4, relict rhymic diatomaceous ooze laminae. Gradational contacts.	
				1619-1620 cm: Black 5Y 2.5/1, to olive brown 5Y 4/4, relict rhymic diatomaceous ooze laminae. Gradational contacts.	
				1635-1641 cm: Black 5Y 2.5/1, to olive brown 5Y 4/4, relict rhymic diatomaceous ooze laminae. Gradational contacts.	
				1692-1693 cm: Black 5Y 2.5/1, to olive brown 5Y 4/4, relict rhymic diatomaceous ooze laminae. Gradational contacts.	
				1710-1710.5 cm: Subangular, very fine to fine sand bleb. Abrupt contacts.	
				1713-1713.5 cm: Subangular, very fine to fine sand bleb. Abrupt contacts.	

NBP00-03-38 JPC



NBP00-03-38A MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.717 S	Water Depth: 791 m
				Longitude: 57.411 W	Core Length: 49 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-49 cm: Overall, olive gray 5GY 2/1, soft, diatomaceous mud, with black Gley 2.5 1N, diatomaceous ooze zone with a higher water component, in the upper part of the core. A soft, olive gray 5GY 2/1, muddy diatomaceous ooze layer occurs from 40-44 cm. Moderate bioturbation.</p> <p>0-13.5 cm: Black Gley 2.5 1N, diatomaceous ooze zone, consisting of 85% diatom spores and a higher water component. Abrupt lower contact.</p> <p>13.5-40 cm: Black Gley 2.5 1N, diatomaceous mud zone, firmer, with a smaller diatom and water component than the above sediment. Abrupt upper and gradational lower contact.</p> <p>41-47 cm: Olive gray 5GY 2/1, muddy diatomaceous ooze layer with rare subangular very fine sand. Fairly abrupt upper and lower contacts.</p>	


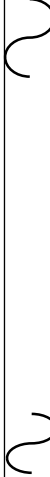
NBP00-03-38B MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.717 S Longitude: 57.411 W	Water Depth: 791 m Core Length: 43 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-43 cm: Overall, olive gray 5GY 2/1, soft, diatomaceous mud, with black Gley 2.5 1N, diatomaceous ooze zone with a higher water component, in the upper part of the core. A soft, olive gray 5GY 2/1, muddy diatomaceous ooze layer occurs from 40-44 cm. Moderate bioturbation.</p> <p>0-12.5 cm: Black Gley 2.5 1N, diatomaceous ooze zone, consisting of 85% diatom spores and a higher water concentration than the surrounding sediment. Abrupt lower contact.</p> <p>13.5-40 cm: Black Gley 2.5 1N, diatomaceous mud zone, firmer, with a smaller diatom and water component than the above sediment. Abrupt upper and gradational lower contact.</p> <p>41-43 cm: Olive gray 5 GY 2/1, muddy diatomaceous ooze layer with rare subangular, very fine sand. Fairly abrupt upper contact.</p>	


NBP00-03-38C MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.717 S	Water Depth: 791 m
				Longitude: 57.411 W	Core Length: 49 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-58 cm: Overall, olive gray 5GY 2/1, soft, diatomaceous mud with black Gley 2.5 1N, diatomaceous ooze zone, with a higher water component, in the upper part of the core. A soft, olive gray 5GY 2/1, muddy diatomaceous ooze layer occurs from 40-44 cm. Brownish black 5YR 2/1, diatomaceous ooze laminae (2-5 mm thick) alternating with greenish black 5GY 2/1, silt-rich diatomaceous mud occurs from 51-58 cm.</p> <p>0-13.5 cm: Black, Gley 2.5 1N, diatomaceous ooze zone, consisting of 85% diatom spores and a higher water component than the surrounding sediment. Abrupt lower contact.</p> <p>10-10.5 cm: Open worm burrow.</p> <p>13.5-40 cm: Black, Gley 2.5 1N, diatomaceous mud zone, firmer, with a smaller diatom and water component than the above sediment. Abrupt upper and gradational lower contact.</p> <p>40-44 cm: Olive gray 5GY 2/1, muddy diatomaceous ooze layer with rare subangular very fine sand. Fairly abrupt upper and lower contacts.</p> <p>51-58 cm: Brownish black 5GY 2/1, diatomaceous ooze laminae (2-5 mm thick) with fairly abrupt contacts alternates with greenish black 5GY 2/1, silt-rich diatomaceous mud.</p> <p>51.5-52 cm: Brownish black 5GY 2/1, diatomaceous ooze laminae with fairly abrupt contacts.</p> <p>52.5-53 cm: Brownish black 5GY 2/1, diatomaceous ooze laminae with fairly abrupt contacts.</p> <p>54-54.3 cm: Brownish black 5GY 2/1, diatomaceous ooze laminae with fairly abrupt contacts.</p> <p>55-55.3 cm: Brownish black 5GY 2/1, diatomaceous ooze laminae with fairly abrupt contacts.</p> <p>56.5-56.8 cm: Brownish black 5GY 2/1, diatomaceous ooze laminae with fairly abrupt contacts.</p>	

NBP00-03-40A MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.829 S Longitude: 57.591 W	Water Depth: 695 m Core Length: 61 cm																																													
LITHOLOGIC DESCRIPTION																																																		
50				<p>0-61 cm: Overall, soft, watery, heavily bioturbated, (abundant 2-3 mm diameter open burrows), olive gray 5Y 3/2, angular to subangular, very fine sand and silt-bearing diatomaceous ooze. Abundant black N1, staining consisting of angular to subangular, very fine sand and silt-bearing diatomaceous ooze (> 30% diatom spores) and rare angular, tabular, fine to medium pebbles occur throughout the core.</p> <p>42-42.5 cm: Angular, tabular, medium pebble.</p> <p>43-43.5 cm: Angular, tabular, fine pebble.</p> <p>NOTE: The core is moderately disturbed by washing along the core liner from 0-10 and 54-61 cm. This core was split and described at the Antarctic Research Facility.</p>																																														
100				<p>Smear Slides:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Minerals:</td> <td style="width: 35%;"><u>2 cm</u></td> <td style="width: 35%;"><u>32 cm</u></td> </tr> <tr> <td></td> <td>D</td> <td>stain</td> </tr> <tr><td>Diatoms</td><td>30</td><td>65</td></tr> <tr><td>Spicules</td><td>TR</td><td>TR</td></tr> <tr><td>Silicaflagellates</td><td>TR</td><td>--</td></tr> <tr><td>Foraminifera</td><td>TR</td><td>--</td></tr> <tr><td>Quartz</td><td>40</td><td>20</td></tr> <tr><td>Mica</td><td>TR</td><td>TR</td></tr> <tr><td>Heavy minerals</td><td>2</td><td>2</td></tr> <tr><td>Clay</td><td>28</td><td>13</td></tr> <tr><td>Hornblende</td><td>TR</td><td>TR</td></tr> <tr><td>Glauconite</td><td>TR</td><td>TR</td></tr> <tr><td>Sand</td><td>10</td><td>10</td></tr> <tr><td>Silt</td><td>30</td><td>10</td></tr> <tr><td>Clay</td><td>60</td><td>80</td></tr> </table>		Minerals:	<u>2 cm</u>	<u>32 cm</u>		D	stain	Diatoms	30	65	Spicules	TR	TR	Silicaflagellates	TR	--	Foraminifera	TR	--	Quartz	40	20	Mica	TR	TR	Heavy minerals	2	2	Clay	28	13	Hornblende	TR	TR	Glauconite	TR	TR	Sand	10	10	Silt	30	10	Clay	60	80
Minerals:	<u>2 cm</u>	<u>32 cm</u>																																																
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Clay	28	13																																																
Hornblende	TR	TR																																																
Glauconite	TR	TR																																																
Sand	10	10																																																
Silt	30	10																																																
Clay	60	80																																																
150																																																		

NBP00-03-40B MTC

Length (cm)	Lithology	Structure	Disturbance	Latitude: 64.829 S Longitude: 57.591 W	Water Depth: 695 m Core Length: 57 cm
LITHOLOGIC DESCRIPTION					
<div style="display: flex; flex-direction: column; align-items: center;"> <div style="margin-bottom: 20px;">50</div> <div style="margin-bottom: 20px;">100</div> <div>150</div> </div>				<p>0-57 cm: Overall, soft, watery, heavily bioturbated, (abundant 2-3 mm diameter open burrows), olive gray 5Y 3/2, angular to subangular, very fine sand and silt-bearing diatomaceous ooze. Abundant black N1, staining consisting of angular to subangular, very fine sand and silt-bearing diatomaceous ooze (> 30% diatom spores) and rare angular, tabular, fine to medium pebbles occur throughout the core.</p> <p>37-37.5 cm: Angular, tabular, fine pebbles.</p> <p>NOTE: This core was split and described at the Antarctic Research Facility.</p>	