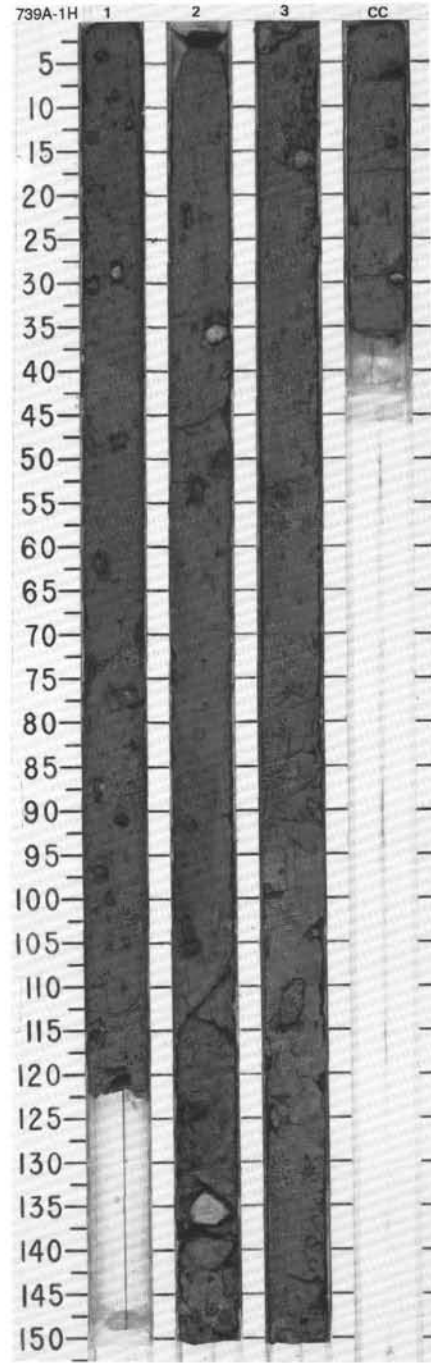
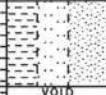
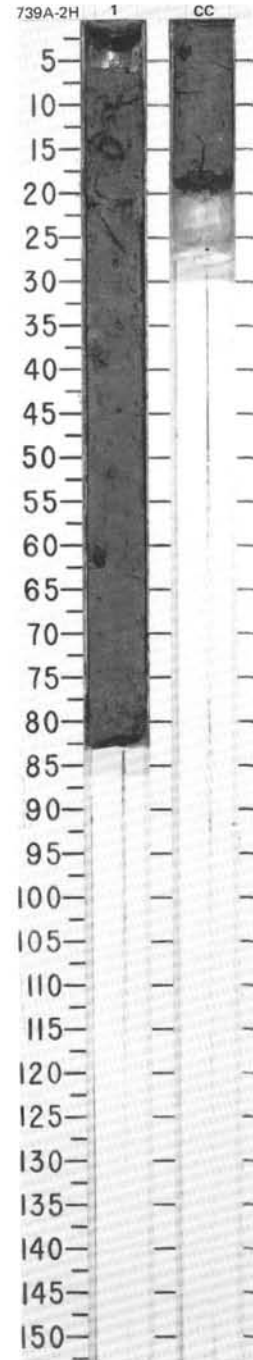


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
FORAMINIFERS	NAKPOFOSSILS																																																		
QUATERNARY																																																			
R/G	<i>Neogloboquadrina pachyderma</i>	interval				1	0.5 1.0	VOID		*		<p>DIAMICTON</p> <p>Major lithology: Diamicton (sand-silt-clay with 1-10% gravel, and 5-10% diatoms), dark gray (5Y 3/1 and 5Y 4/1) with some deformed darker bands of black (5Y 2.5/1 material); homogeneous, unstratified. The sediment is soft and sticky. Clasts of gravel are subrounded 38%, subangular 38%, angular 24% (sample of 26). Many have facets, are unweathered. They include gneisses with amphibole and garnet. Section 1 has a few carbonate fragments (< 1 cm diameter echinoderms) disseminated through the core.</p> <p>Average gravel content: Section 1, 10% Section 2, 10%</p> <p>Drilling disturbance: The sediment is strongly disturbed, especially in Section 2 as the core liner shattered and the sediment was person-handled excessively.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 80</td> <td>3, 80</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>20</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>50</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>30</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. Minerals</td> <td>2</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>15</td> </tr> <tr> <td>Diatoms</td> <td>10</td> <td>5</td> </tr> <tr> <td>Feldspar</td> <td>25</td> <td>20</td> </tr> <tr> <td>Garnet</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Opauques</td> <td>2</td> <td>5</td> </tr> <tr> <td>Palagonite</td> <td>1</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>50</td> <td>50</td> </tr> </table>		1, 80	3, 80	D		D	Sand	20	10	Silt	50	60	Clay	30	30	Access. Minerals	2	3	Clay	10	15	Diatoms	10	5	Feldspar	25	20	Garnet	—	Tr	Opauques	2	5	Palagonite	1	1	Quartz	50	50
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Quartz	50	50																																																	
B						2		VOID																																											
R/G	<i>Antarctissa denticulata</i>	interval																																																	
C/M	<i>Thalassiaosira lentiginosa</i>					3																																													



SITE 739 HOLE A CORE 2H CORED INTERVAL 4.6-5.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
QUATERNARY	R/G		R/G	C/M		V=2263 W=19.7% -2.24	%CaCO ₃ =0.3 %TOC=0.25	1	0.5				*	<p>SAND-SILT-CLAY</p> <p>Major lithology: Sand-silt-clay with 30% diatoms, <1% gravel as evenly distributed limestones, dark gray (5Y 4/1), poorly sorted, homogeneous, unstratified and soft. The gravel clasts include biotite gneiss and garnetiferous mica schist.</p> <p>Drilling disturbance: Moderate.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">1, 50 D</p> <p>TEXTURE:</p> <p>Sand 40 Silt 30 Clay 30</p> <p>COMPOSITION:</p> <p>Access. Minerals 5 Clay 15 Diatoms 30 Feldspar 27 Quartz 20 Radiolarians 3 Spicules Tr</p>

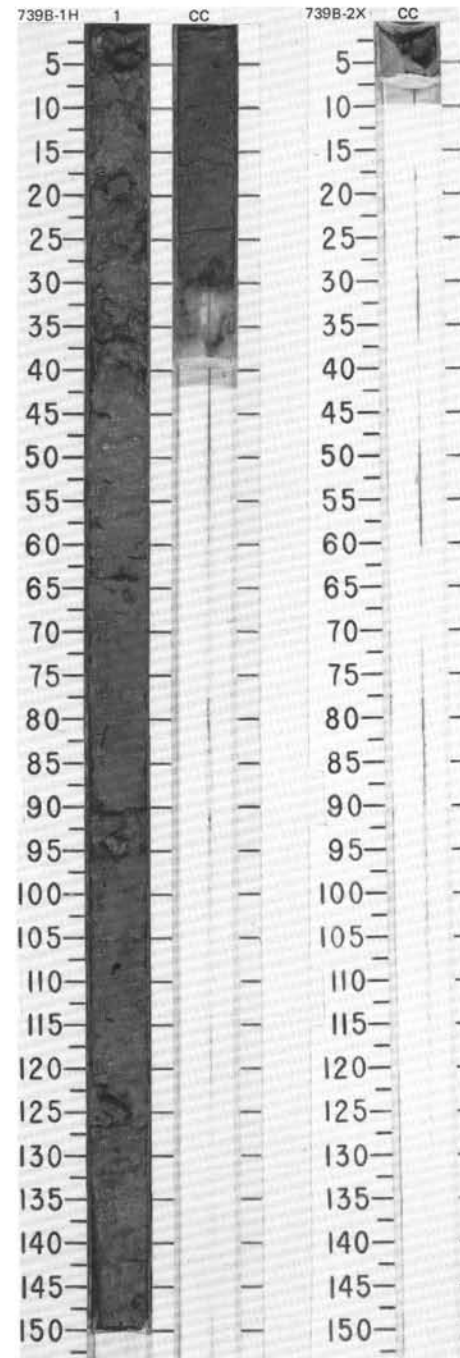


SITE 739 HOLE B CORE 1H CORED INTERVAL 0.0-1.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION			
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS													
QUATERNARY	R/G	B	R/G	A/G		$\gamma = 2.09$ $V = 2490$ $M = 21.8\%$	\bullet $\%CaCO_3 = 0.1$ $\%TiOC = 0.39$	1	0.5 1.0			*	DIAMICTON Major lithology: Diamicton (sand-silt-clay with 2% gravel and around 5% diatoms), dark gray (5Y 4/1), poorly sorted, homogeneous, unstratified and rather plastic. Slight variations of clay and sand content occur. In the core catcher there are diffuse, irregular patches of gravelly sandy silty clay of visually estimated compositions: (1) granule 10%, sand 25-40%, silt and clay 50-85%, and (2) gravel 10%, sand 10%, silt and clay 80%. The irregular patches may be due to soft sediment deformation. Clasts are mainly metamorphic, the largest being 3 cm diameter in Section 1, 120 cm. Drilling disturbance: In Section 1 there is very deformed soft, sticky sediment. In core catcher soft sediment deformation may have been due to drilling. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr><td>1, 70</td><td>CC, 10</td></tr> <tr><td>D</td><td>D</td></tr> </table> TEXTURE: Sand 10 25 Silt 50 45 Clay 40 30 COMPOSITION: Access. Minerals 1 2 Clay 15 20 Diatoms 5 5 Feldspar 25 15 Opaques 1 3 Palagonite Tr 2 Quartz 50 50 Radiolarians Tr Tr Silicoflagellates Tr -	1, 70	CC, 10	D	D
1, 70	CC, 10																
D	D																

SITE 739 HOLE B CORE 2X CORED INTERVAL 1.9-3.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS											
QUATERNARY	R/G		C/G					CC					No recovery except for three small subangular pebbles of schist and gneiss, and relict clayey silt with minor carbonate in core-catcher. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr><td>CC, 1</td></tr> <tr><td>D</td></tr> </table> TEXTURE: Sand 15 Silt 60 Clay 25 COMPOSITION: Access. Minerals 1 Carbonate Tr Clay 15 Diatoms 5 Feldspar 15 Foraminifers 1 Opaques 3 Quartz 60 Radiolarians Tr Silicoflagellates Tr Spicules Tr	CC, 1	D
CC, 1															
D															



739 B 3X NO RECOVERY

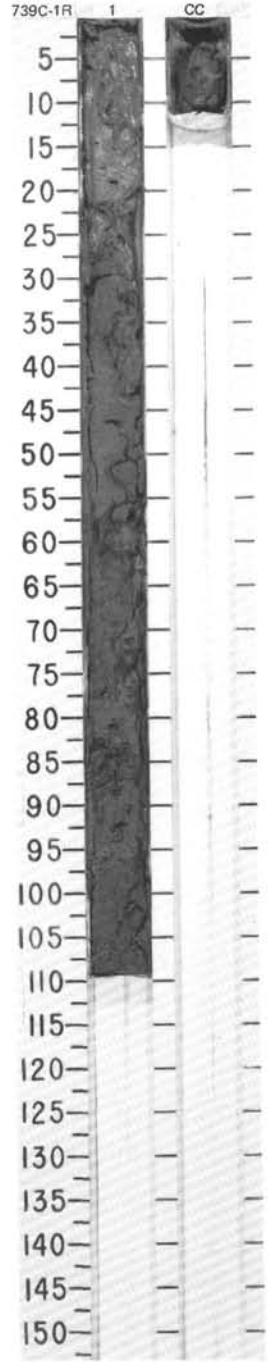
SITE 739 HOLE C CORE 1R CORED INTERVAL 0.0-9.5

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS											DIATOMS																																																											
QUATERNARY	A/G	R/G	B					0.5 1.0				*	<p>DIATOMACEOUS SAND-SILT-CLAY AND SAND-SILT-CLAY WITH MINOR DIATOMS</p> <p>Major lithology: Diatomaceous sand-silt-clay and sand-silt-clay with minor diatoms; Section 1, 0-20 cm is olive (5Y 5/3) and 20-96 cm is dark gray (5Y 4/1). Angular to subangular grains, granules and small pebbles (<0.75 cm long), composed predominantly of quartz, are scattered throughout the core.</p> <p>Minor lithology: Sand-silt-clay, very dark grayish brown (2.5Y 3/2) with 1% diatoms occurs in Section 1, 96-110 cm; this part of the core is more compact and consolidated.</p> <p>Drilling disturbance: Section 1, 0-20 cm is very soft and soupy, 20-96 cm is soft and soupy, and 96-110 cm is only moderately disturbed.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 18</td> <td>1, 46</td> <td>1, 103</td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>30</td> <td>30</td> <td>40</td> </tr> <tr> <td>Silt</td> <td>50</td> <td>50</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>20</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Amphibole</td> <td>—</td> <td>2</td> <td>—</td> </tr> <tr> <td>Calcite</td> <td>—</td> <td>3</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>20</td> <td>20</td> </tr> <tr> <td>Diatoms</td> <td>15</td> <td>35</td> <td>1</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>5</td> <td>20</td> </tr> <tr> <td>Opaque</td> <td>—</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Pyroxene</td> <td>3</td> <td>—</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>50</td> <td>30</td> <td>55</td> </tr> <tr> <td>Radiolarians</td> <td>5</td> <td>—</td> <td>—</td> </tr> <tr> <td>Spinel</td> <td>—</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 18	1, 46	1, 103	D				Sand	30	30	40	Silt	50	50	40	Clay	20	20	20	Amphibole	—	2	—	Calcite	—	3	—	Clay	15	20	20	Diatoms	15	35	1	Feldspar	10	5	20	Opaque	—	Tr	—	Pyroxene	3	—	3	Quartz	50	30	55	Radiolarians	5	—	—	Spinel	—	Tr	Tr
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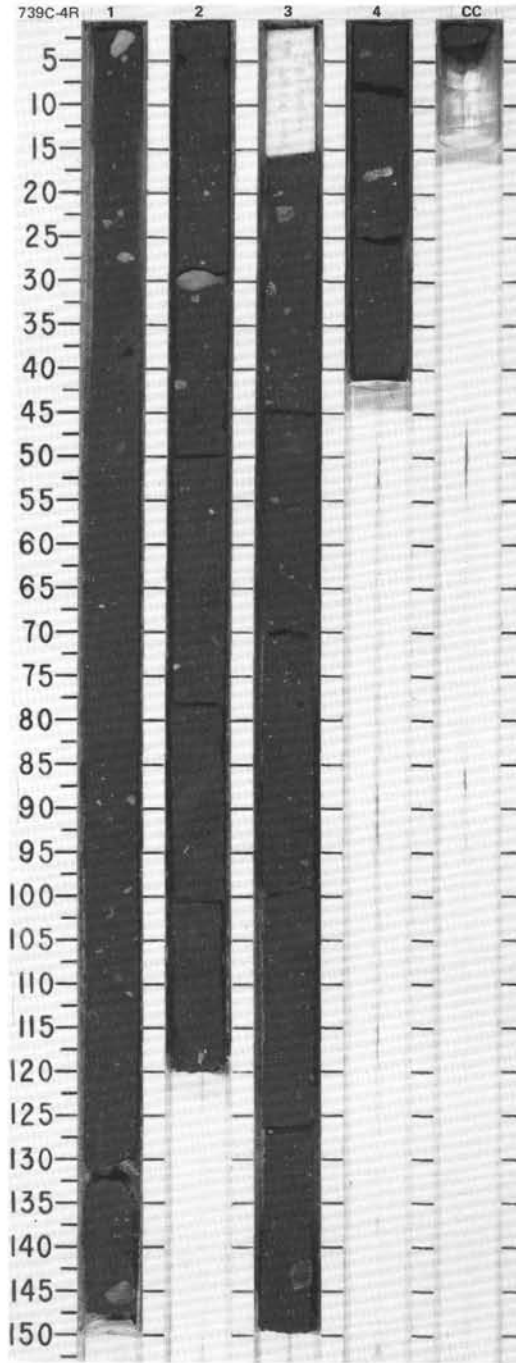
SITE 739 HOLE C CORE 2R CORED INTERVAL 9.50 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										

739 C 3R NO RECOVERY



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONES																																																																																		
R/G	B	B	B					1	0.5					<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with 5-20% gravel), black (5Y 2.5/1), homogeneous, totally structureless, slightly indurated. Slightly fluctuating sand/silt/clay ratios occur, with a few diffuse silty clay areas a few cm across. Clast shape analysis in Section 1 indicates 11% angular, 50% subangular, 32% subrounded and 7% rounded (sample size: 28). Clasts throughout the core include quartzite, granulite and amphibolite facies gneisses; grains of quartz, garnet and feldspar; biotite clusters and biotite-rich layers.</p> <p>Average gravel content: Section 1, 0-30 cm, 20% 30-65 cm, 5% 65-120 cm, 20% 120-150 cm, 5%</p> <p>Section 2, 5-10% variable Section 3, 10-20% Section 4, 5-10% CC, 5-10%.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 80</td> <td>2, 80</td> <td>3, 80</td> <td>3, 99</td> <td>4, 20</td> </tr> <tr> <td>IW</td> <td>D</td> <td>D</td> <td>D</td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>25</td> <td>25</td> <td>20</td> <td>15</td> <td>25</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>35</td> <td>40</td> <td>40</td> <td>50</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>40</td> <td>40</td> <td>45</td> <td>25</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>3</td> <td>2</td> <td>1</td> <td>3</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>15</td> <td>15</td> <td>15</td> <td>10</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>10</td> <td>15</td> <td>20</td> <td>20</td> </tr> <tr> <td>Opacues</td> <td>5</td> <td>2</td> <td>1</td> <td>2</td> <td>1</td> </tr> <tr> <td>Palagonite</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>65</td> <td>70</td> <td>65</td> <td>60</td> <td>65</td> </tr> </table>		1, 80	2, 80	3, 80	3, 99	4, 20	IW	D	D	D	M	D	Sand	25	25	20	15	25	Silt	40	35	40	40	50	Clay	35	40	40	45	25	Access. Minerals	Tr	Tr	Tr	Tr	Tr	Amphibole	3	2	1	3	3	Clay	15	15	15	15	10	Feldspar	10	10	15	20	20	Opacues	5	2	1	2	1	Palagonite	Tr	Tr	Tr	Tr	Tr	Quartz	65	70	65	60	65
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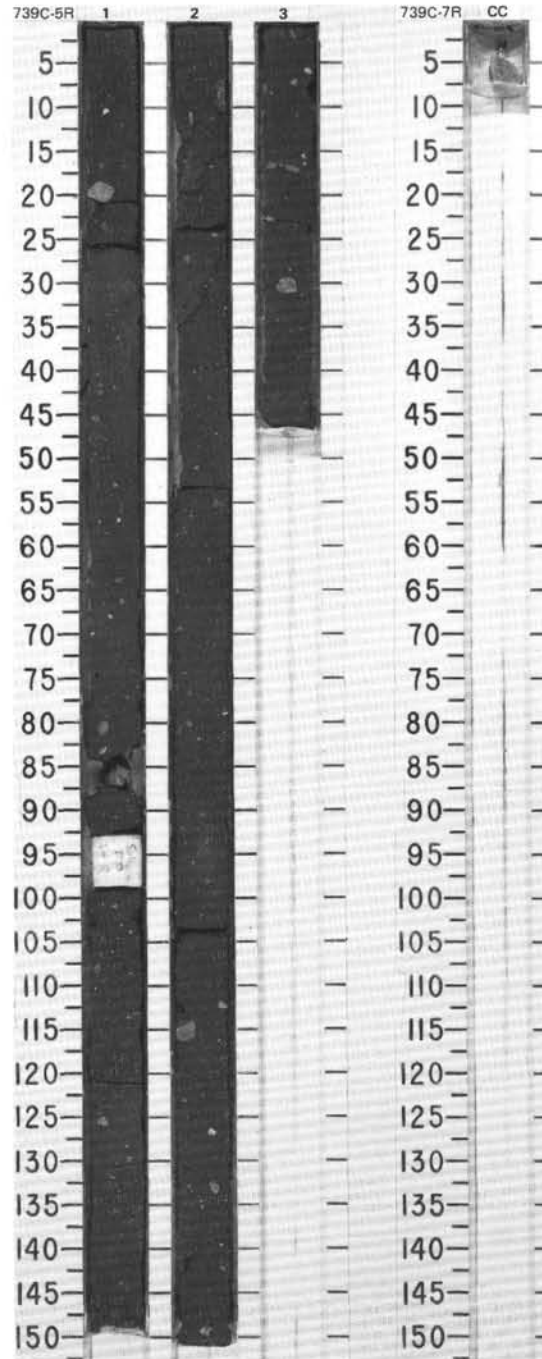
SITE 739 HOLE C CORE 5R CORED INTERVAL 28.7-38.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																					
	R/G	B	B	B	W=13.7% I=2.4%	7-2.27% V-2328 W=17.9% I=11.6% I=2.8%	● %CaCO ₃ = 0.5 X T06-0.36	1	0.5 1.0			* PP * * *	<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with 5-20% gravel), black (5Y 2.5/1), homogeneous, totally structureless, slightly indurated. Slightly fluctuating sand/silt/clay ratios occur, with a few diffuse clayey silt areas a few cm across, e.g., Section 1, 70 cm and 130 cm. Clast shape data indicate 14% angular, 41% subangular, 38% subrounded, 8% rounded (sample size 51). Clasts include vein quartz, biotite clusters, granite, microgranite, gneiss and feldspar grains. The largest clast is 4 cm in length. Most clasts are fresh with no weathering rinds; however some granite feldspar grains are weathered.</p> <p>Average gravel content: Section 1, 0-20 cm, 10% 20-50 cm, 20% 50-150 cm, 10%; Section 2, 0-50 cm, 15% 50-100 cm, 5% 100-150 cm, 20% Section 3, 5-15%</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 70</td> <td>1, 130</td> <td>2, 80</td> <td>3, 20</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>15</td> <td>15</td> <td>20</td> <td>25</td> </tr> <tr> <td>Silt</td> <td>50</td> <td>45</td> <td>45</td> <td>45</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>40</td> <td>35</td> <td>30</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>Tr</td> <td>2</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>3</td> <td>2</td> <td>-</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>20</td> <td>8</td> <td>20</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>10</td> <td>50</td> <td>10</td> </tr> <tr> <td>Opques</td> <td>5</td> <td>3</td> <td>5</td> <td>7</td> </tr> <tr> <td>Palagonite</td> <td>Tr</td> <td>Tr</td> <td>5</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>70</td> <td>65</td> <td>30</td> <td>60</td> </tr> </table>		1, 70	1, 130	2, 80	3, 20	D		D	D	D	Sand	15	15	20	25	Silt	50	45	45	45	Clay	35	40	35	30	Access. Minerals	Tr	Tr	2	Tr	Amphibole	3	2	-	2	Clay	10	20	8	20	Feldspar	10	10	50	10	Opques	5	3	5	7	Palagonite	Tr	Tr	5	Tr	Quartz	70	65	30	60
	1, 70	1, 130	2, 80	3, 20																																																																					
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739 C 6R NO RECOVERY

SITE 739 HOLE C CORE 7R CORED INTERVAL 48.0-57.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
							CC						No recovery except for 2 cm recorded in core catcher. Single drill-abraded pebble of gneiss, 3 cm.

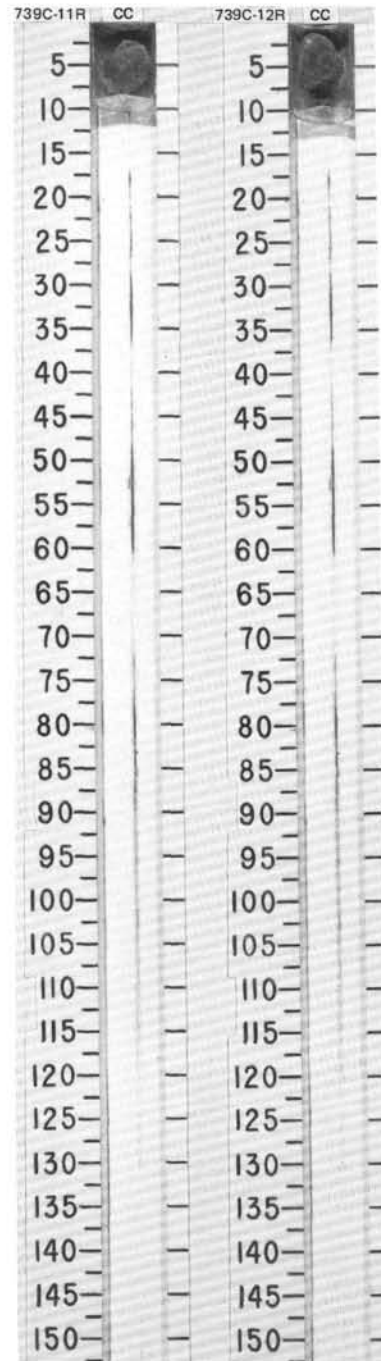


SITE 739 HOLE C CORE 11R CORED INTERVAL 86.6-96.3 mbsf

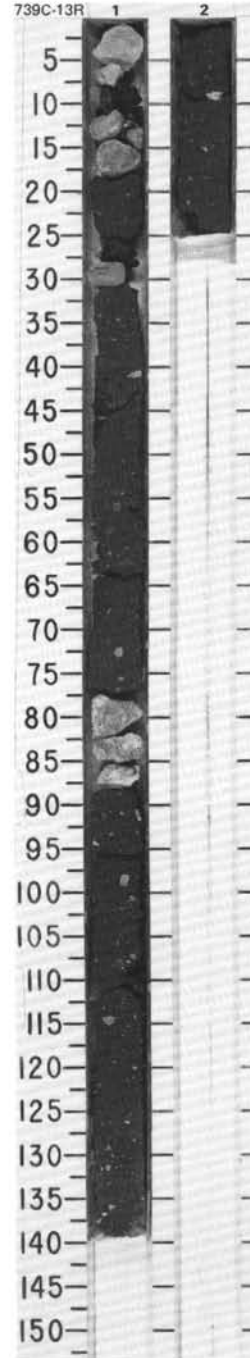
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
								CC						No recovery except for 7 cm in core catcher comprising a single drill-abraded gneiss pebble.

SITE 119 HOLE C CORE 12R CORED INTERVAL 96.3-105.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
	R/M							CC			X			No recovery except for 6 cm in core catcher comprising three angular pebbles of foliated hornblende-biotite gneiss.

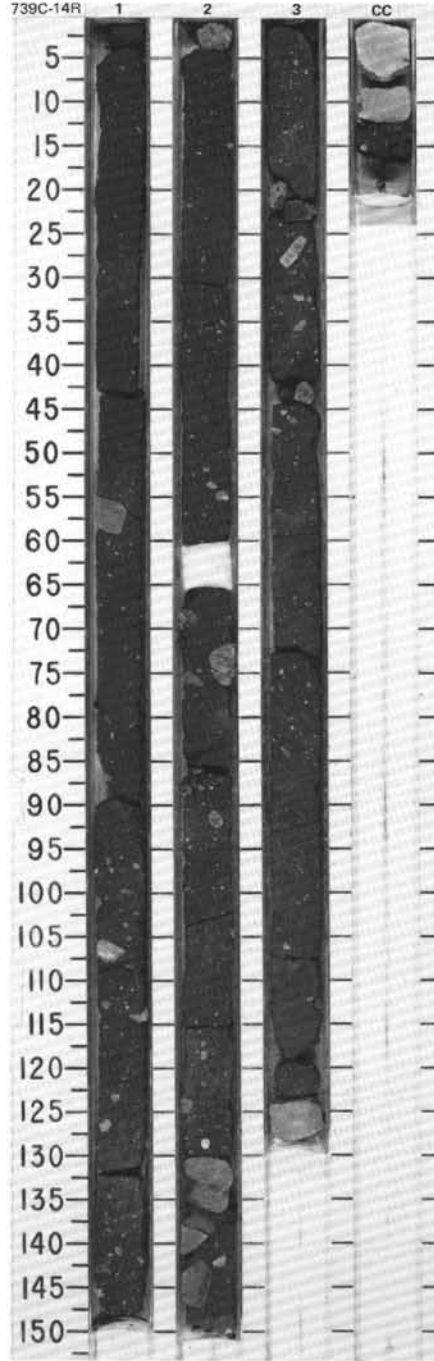


TIME- ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	MAMMOSSBILLS	RADIOLARIANS	DIATOMS									
	Nitzschia angulata to upper Nitzschia reinholdii												
LOWER PLOCENE	B	R/M			0.24% v-2234 w-2234		0.5 1.0		X X X /		* pp *	DIAMICTITE and DIAMICTITE with MINOR DIATOMS Major lithology: Diamicite and diamicite with minor diatoms (sand-silt-clay with minor gravel), very dark gray (5Y 3/1) with 5-10% diatoms; massive, non-stratified, poorly sorted. A paler more sandy layer 1 cm thick occurs in Section 1, 39-40 cm. Gravel content is 15-20%; most clasts are angular to subangular granules and small pebbles up to a maximum of 2 cm in diameter. Clasts are composed predominantly of quartz, feldspar, granite, gneiss and hard black coaly carbonaceous shale; all clasts are fresh and unaltered. One clast shows bullet-shaped terminations. Drilling disturbance: Section 1, 0-20 cm, coarse gravel, 30 cm, single clast, 80-87 cm, coarse gravel; all due to hole contamination. SMEAR SLIDE SUMMARY (%): 1, 70 2, 10 D D TEXTURE: Sand 15 10 Silt 60 60 Clay 25 30 COMPOSITION: Access. Minerals 2 1 Amphibole 3 3 Clay 15 20 Diatoms 10 5 Feldspar 2 3 Opauques 2 1 Palagonite 1 2 Quartz 60 60	

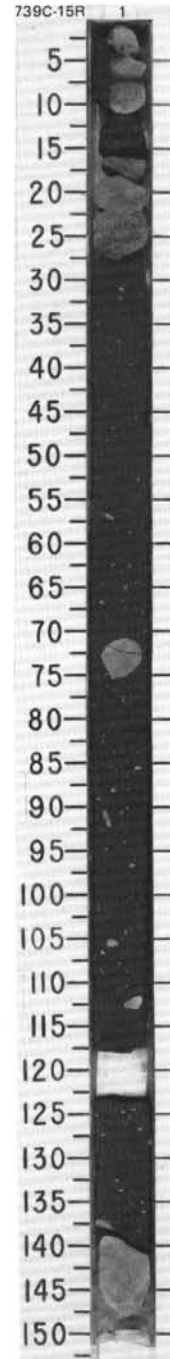


SITE 739 HOLE C CORE 14R CORED INTERVAL 115.5-125.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SEC. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																	
LOWER PLIOCENE	B				●	●		1	0.5					<p>DIAMICTITE</p> <p>Major lithology: Diamictite (clayey silt to silty clay with minor sand and gravel), black (5Y 2.5/1) and very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted to slightly indurated. Slight variations in sand and gravel content are visible in the core. Clasts are mostly a few cm in diameter, the largest being 6 cm. Clast shape analysis in Sections 1-3 indicates 16% angular, 38% subangular, 42% subrounded, 4% rounded (sample size 50). Clasts include in decreased order of importance quartz-feldspar-biotite gneisses, biotite-feldspar-amphibole gneisses, gneisses of granulite facies or of anorthosite affinity (magnetite-bearing), biotite-rich gneisses and pyrite-rich mylonite. Most clasts are fresh.</p> <p>Average gravel content: Section 1, 0-50 cm, 10% 50-90 cm, 15% 90-150 cm, 30% Section 2, 0-65 cm, 15% 65-95 cm, 25% 95-115 cm, 15% 115-150 cm, 40% Section 3, 0-55 cm, 30% 55-75 cm, 15% 75-85 cm, 20% 85-95 cm, 5% 95-130 cm, 15% CC, 0-15 cm, 80%</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 79</td> <td>3, 57</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>20</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>50</td> <td>50</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>30</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. Minerals</td> <td>1</td> <td>1</td> </tr> <tr> <td>Amphibole</td> <td>3</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>25</td> <td>20</td> </tr> <tr> <td>Diatoms</td> <td>3</td> <td>2</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>3</td> </tr> <tr> <td>Opaques</td> <td>2</td> <td>1</td> </tr> <tr> <td>Palagonite</td> <td>2</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>58</td> <td>65</td> </tr> </table>		1, 79	3, 57	D	D	D	Sand	20	20	Silt	50	50	Clay	30	30	Access. Minerals	1	1	Amphibole	3	2	Clay	25	20	Diatoms	3	2	Feldspar	2	3	Opaques	2	1	Palagonite	2	1	Quartz	58	65
		1, 79	3, 57																																																		
	D	D	D																																																		
Sand	20	20																																																			
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	B				●	●	2	1.0																																													
	R/P				●	●	3	2.0																																													
	upper <i>Nitzschia reinholdii</i> to <i>Nitzschia angulata</i>				●	●		CC																																													

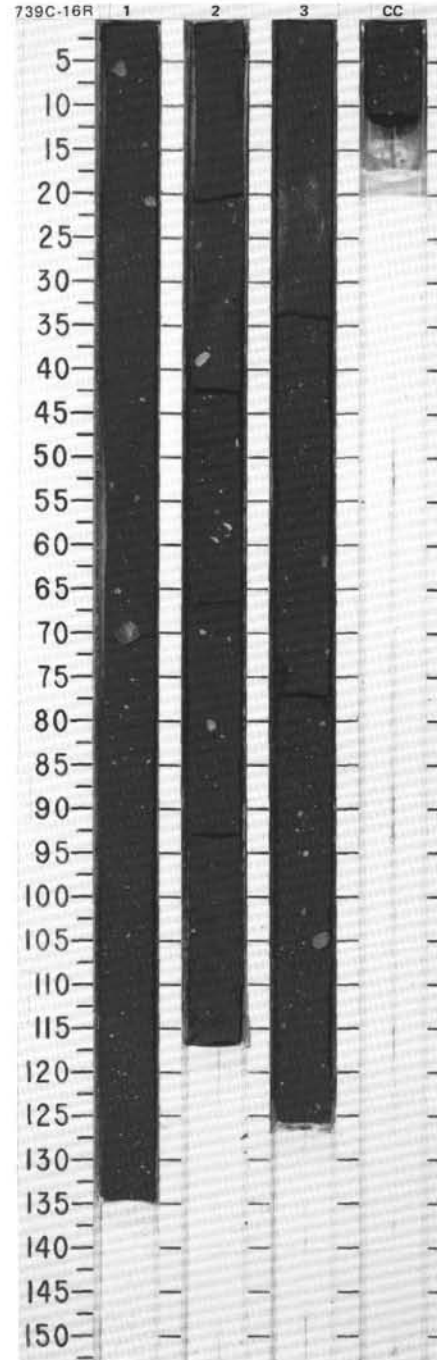


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS																																																	
	B		B	●	●		1	0.5 1.0				* *	<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), black (2.5G 2.5/0), massive, non-stratified, poorly sorted, compacted to slightly indurated. Slight variations in sand and gravel content are visible in the core, especially in Section 1, 11-16 cm, where a granule-coarse sand-silt-clay fines upwards to the main diamictite with a higher clay content (boundaries are diffuse). Clasts are mostly a few cm in diameter, the largest being 11 cm down core. Clast shape analysis in Section 1 indicates 4% angular, 60% subangular, 20% subrounded, 16% rounded (sample size 25). Larger clasts tend to be subrounded or rounded, smaller clasts angular to subangular. Clasts include gneisses (biotite +/- garnet and quartz-feldspar varieties), altered granite. Most clasts are fresh, but some granites are weathered.</p> <p>Average gravel content: Section 1, 0-30 cm, 70% 30-60 cm, 10% 60-150 cm, 15%</p> <p>Drilling disturbance: Broken core around clasts.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 40</td> <td>1, 100</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>20</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>45</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>40</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>20</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>5</td> </tr> <tr> <td>Nannofossils</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Opalines</td> <td>5</td> <td>7</td> </tr> <tr> <td>Palagonite</td> <td>2</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>70</td> <td>65</td> </tr> </table>		1, 40	1, 100		D	D	Sand	20	20	Silt	45	40	Clay	35	40	Access. Minerals	Tr	Tr	Amphibole	Tr	Tr	Clay	15	20	Feldspar	5	5	Nannofossils	Tr	Tr	Opalines	5	7	Palagonite	2	2	Quartz	70	65
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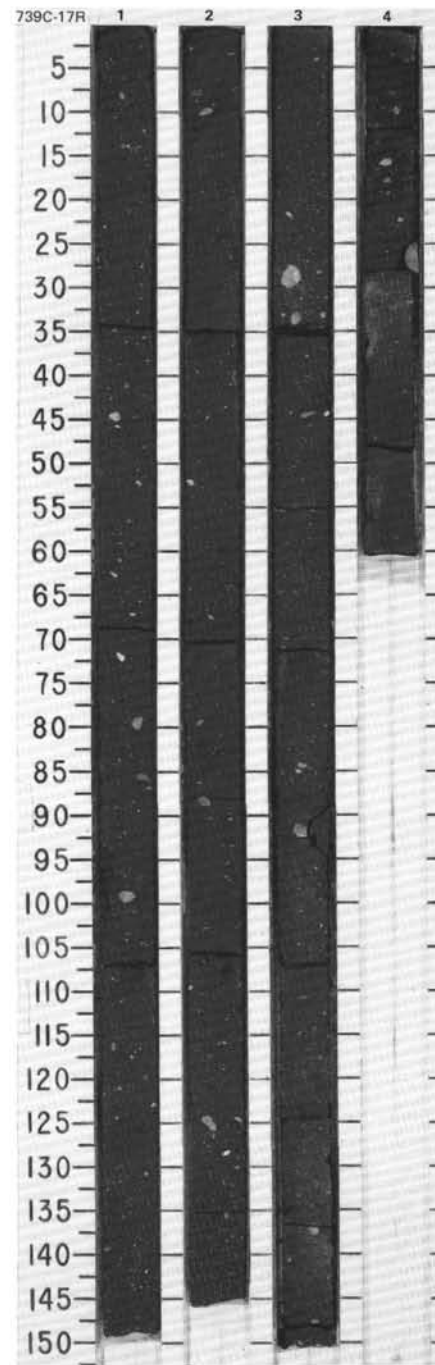


SITE 739 HOLE C CORE 16R CORED INTERVAL 130.3-135.0 mbsf

TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DICTYONS																																																										
	B	B	B	B		0-01% N=15% 0-01% W=2.47		1	0.5	[Lithology: Sand-silt-clay with minor gravel]				<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), black (5Y 2.5/1), massive, non-stratified, poorly sorted, compacted to slightly indurated. Slight variations in sand and gravel content are visible in the core. Clasts are mostly a few cm in diameter, the largest being 3 cm. Clast shape analysis in Sections 1, 2 and 3, respectively, indicates 21, 40, 42% angular, 47, 20, 42% subangular, 14, 30, 16% subrounded, 18, 10, 0% rounded (sample size 28, 20 and 19). Clasts include in decreasing order of importance: quartz-feldspar-biotite gneiss, fine-medium grained biotite-rich gneiss, garnet-biotite gneiss, aplite with muscovite, quartz-biotite-feldspar gneiss. Most clasts are fresh, but some granites are weathered.</p> <p>Average gravel content: Section 1, 0-150 cm, 15% Section 2, 0-20 cm, 10% 20-45 cm, 15% 45-90 cm, 20% 90-117 cm, 10% Section 3, 0-30 cm, 10% 30-115 cm, 20% 115-126 cm, 10% CC, 0-10 cm, 20%</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 80</td> <td>2, 50</td> <td>3, 60</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>25</td> <td>15</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>35</td> <td>45</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>40</td> <td>40</td> <td>45</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. Minerals</td> <td>fr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>3</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>20</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>5</td> <td>10</td> </tr> <tr> <td>Opagues</td> <td>5</td> <td>3</td> <td>5</td> </tr> <tr> <td>Palagonite</td> <td>2</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>60</td> <td>70</td> <td>68</td> </tr> </table>		1, 80	2, 50	3, 60	D	D	D	D	Sand	25	15	20	Silt	35	45	35	Clay	40	40	45	Access. Minerals	fr	Tr	Tr	Amphibole	3	Tr	—	Clay	20	20	15	Feldspar	10	5	10	Opagues	5	3	5	Palagonite	2	Tr	2	Quartz	60	70	68
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Quartz	60	70	68																																																											
						0-13% N=1.3% 0-2.28 W=2.28		2		[Lithology: Sand-silt-clay with minor gravel]																																																				
						0-1.7% N=1.2% 0-2.21 W=2.36		3		[Lithology: Sand-silt-clay with minor gravel]																																																				
						0-25% V=23% 0-2.38 W=1.2%		CC		[Lithology: Sand-silt-clay with minor gravel]																																																				

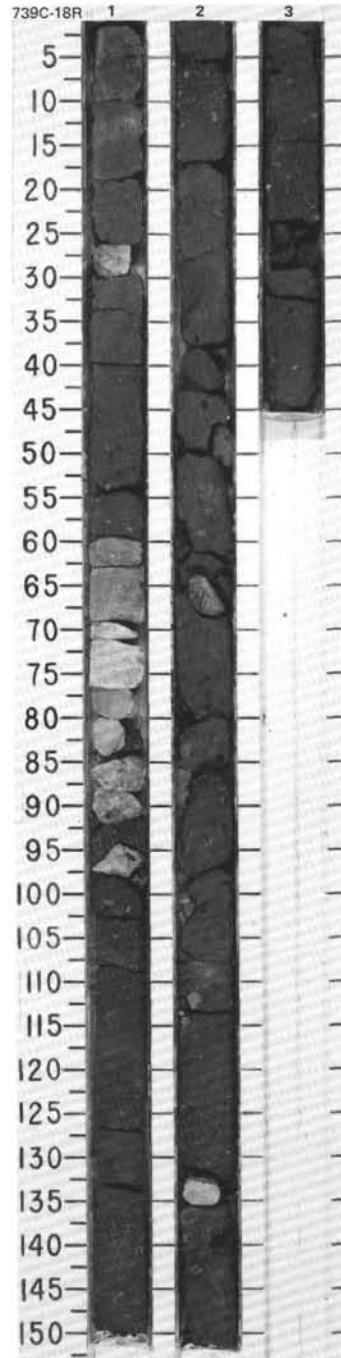


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES SAMPLES	LITHOLOGIC DESCRIPTION																																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																			
B											DIAMICTITE Major lithology: Diamictite (silty clay with gravel and minor sand), black (5Y 2.5/1), massive, non-stratified, poorly sorted, compacted to slightly indurated. Slight variations in sand and gravel content are visible in the core. Clasts average about 1 cm in diameter, the largest being 3.7 cm. Clast shape analysis in Sections 1-4 indicates 23% angular, 24% subangular, 32% subrounded, 21% rounded (sample size 53). Clasts include sandstones and gneisses. Most clasts are fresh, but gneisses are more weathered than in previous cores, with biotite having oxidized. Average gravel content: Section 1, 0-20 cm, 20% 20-40 cm, 10% 40-150 cm, 15% Section 2, 0-70 cm, 10% 70-120 cm, 5% 120-150 cm, 10% Section 3, 0-25 cm, 5% 25-85 cm, 15% 85-100 cm, 10% 100-146 cm, 5% Section 4, 0-30 cm, 10% 30-62 cm, 2% SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 60</td> <td>2, 60</td> <td>3, 60</td> </tr> <tr> <td></td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> TEXTURE: <table border="1"> <tr> <td>Sand</td> <td>15</td> <td>5</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>35</td> <td>45</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>50</td> <td>50</td> <td>55</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>13</td> <td>15</td> <td>20</td> </tr> <tr> <td>Feldspar</td> <td>25</td> <td>20</td> <td>15</td> </tr> <tr> <td>Opauques</td> <td>5</td> <td>5</td> <td>5</td> </tr> <tr> <td>Palagonite</td> <td>2</td> <td>5</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>55</td> <td>55</td> <td>55</td> </tr> </table>		1, 60	2, 60	3, 60		D	D	D	Sand	15	5	5	Silt	35	45	40	Clay	50	50	55	Access. Minerals	Tr	Tr	Tr	Clay	13	15	20	Feldspar	25	20	15	Opauques	5	5	5	Palagonite	2	5	5	Quartz	55	55	55
	1, 60	2, 60	3, 60																																																				
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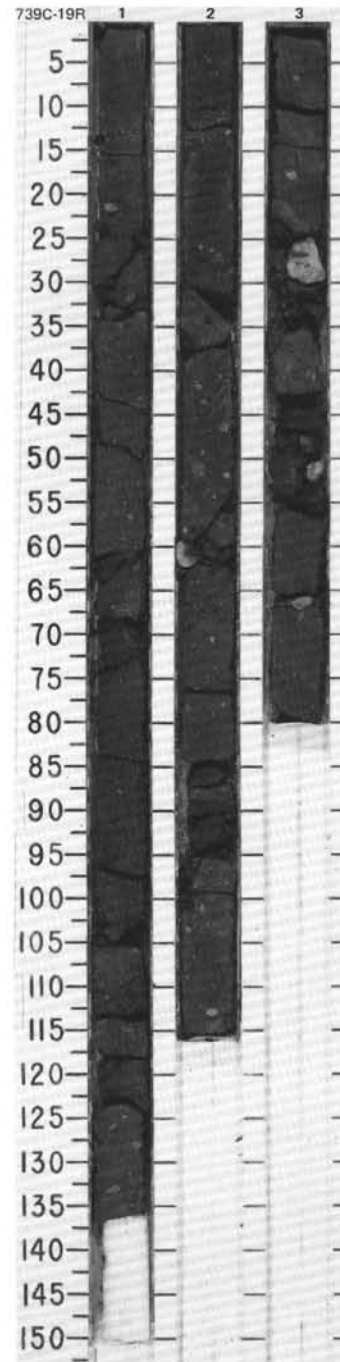


SITE 739 HOLE C CORE 18R CORED INTERVAL 140.0-144.7 mbsf

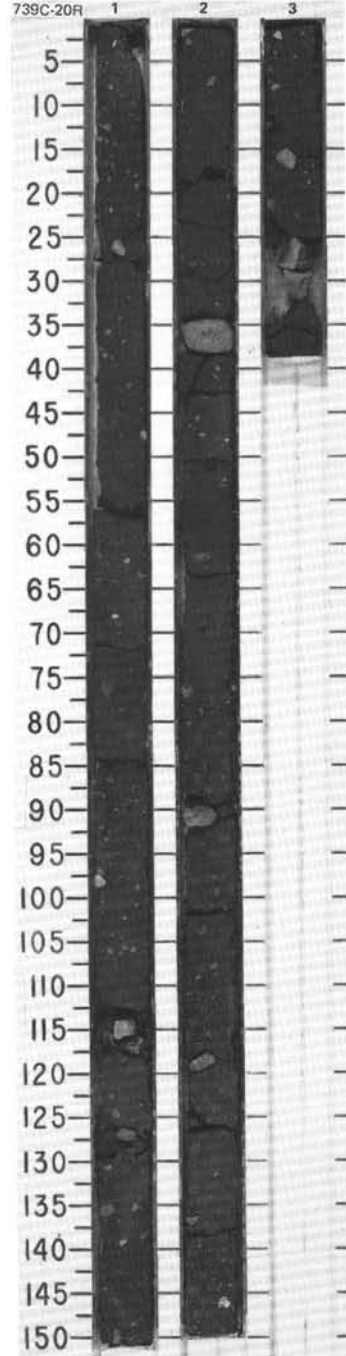
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																															
UPPER MIOCENE	B	R/M	B	C/M		$\delta = -4.3\%$ $\sigma = -2.2\%$ $\chi_{CO_2} = 0.1$ $\chi_{TOC} = 1.36$	0.5 1 1.5 2 2.5 3 3.5 4					<p>* DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with gravel), black (5Y 2.5/1) and very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted to slightly indurated. Slight variations in sand and gravel content are visible in the core. Clasts are mostly a few cm in diameter, the largest being 20 cm downcore. Clast shape analysis in Sections 1-3 indicates 4% angular, 24% subangular, 54% subrounded, 18% rounded (sample size 50). Clasts include biotite granites (coarse-grained), pegmatites, arkosic gneisses with muscovite or aplite, garnet-biotite gneiss (coarse-grained) and iron oxide-rich pebbles. Most clasts are fresh, but some granites are weathered.</p> <p>Average gravel content: Section 1, 0-60 cm, 10-15% 60-100 cm, 80% 100-150 cm, 10-20% Section 2, 0-20 cm, 20% 20-150 cm, 10-15% Section 3, 10-15%</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1.5</td> <td>2.75</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>25</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>35</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>40</td> <td>40</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>1</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>25</td> <td>25</td> </tr> <tr> <td>Diatoms</td> <td>5</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>5</td> </tr> <tr> <td>Opacives</td> <td>5</td> <td>3</td> </tr> <tr> <td>Palagonite</td> <td>1</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>55</td> <td>50</td> </tr> </table>		1.5	2.75	D	D	D	Sand	25	20	Silt	35	40	Clay	40	40	Access. Minerals	Tr	Tr	Amphibole	1	1	Clay	25	25	Diatoms	5	15	Feldspar	5	5	Opacives	5	3	Palagonite	1	1	Quartz	55	50
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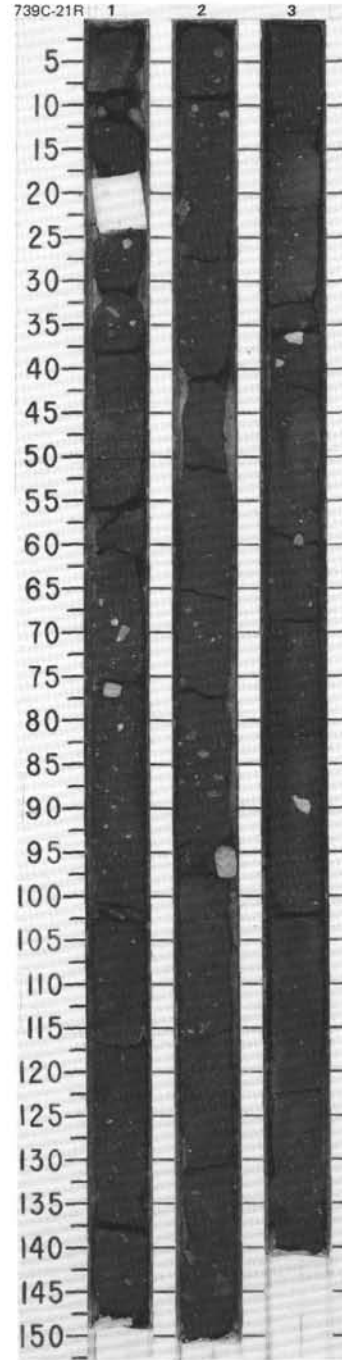
TIME- ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																			
	FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS	DIATOMS																																																													
UPPER MIOCENE	<i>Denticulopsis hustedtii</i>																																																																
						M ⁿ 12% 2.38 g/cc 2.06 g/cc 2.50 g/cc 2.34 2.41 g/cc 2.26% 1.3% 2.27 V=2306 W=13% XCaCO ₃ =0.1 XTOC=1.27 XCaCO ₃ =0.1 XTOC=1.27		0.5 1.0 2 3 VOID					DIAMICTITE Major lithology: Diamictite (clayey silt with minor sand, gravel and diatoms), black (5Y 2.5/1), massive, non-stratified, except for wispy lamination in Section 2 (minor lithology), poorly sorted, compacted to friable. Up to 25% diatoms are present in smear slides. Slight variations in sand and gravel content are visible in the core. Clasts are mostly about 1 cm in diameter, the largest being 5 cm. Clast shape analysis in Sections 1-3 indicates 23% angular, 23% subangular, 34% subrounded, 20% rounded (sample size 35). Clasts include garnet-biotite-quartz-feldspar gneiss, amphibolite, vein quartz and oxidized biotite-rich gneiss. Minor lithology: Clayey silt with 25% diatoms, olive (5Y 3/2). This forms wispy layers and mottles up to 5 cm thick in Section 2, 9-21 cm and 85-115 cm; their boundaries are diffuse, but the sediment is better sorted than host diamictite with less clay and only minor sand plus one pebble. Average gravel content: Section 1, 10% Section 2, 0-38 cm, 10% 38-60 cm, 15% 60-115 cm, 10% Section 3, 10% Drilling disturbance: Core is heavily broken and partially disaggregated to slurry in Section 3, 20-55 cm. SMEAR SLIDE SUMMARY (%): <table border="1"> <tr> <td></td> <td>1, 80</td> <td>2, 87</td> <td>2, 90</td> </tr> <tr> <td>D</td> <td></td> <td>M</td> <td>D</td> </tr> </table> TEXTURE: <table border="1"> <tr> <td>Sand</td> <td>10</td> <td>5</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>50</td> <td>60</td> <td>50</td> </tr> <tr> <td>Clay</td> <td>40</td> <td>35</td> <td>35</td> </tr> </table> COMPOSITION: <table border="1"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>5</td> <td>2</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>5</td> <td>10</td> </tr> <tr> <td>Diatoms</td> <td>7</td> <td>25</td> <td>7</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>10</td> <td>5</td> </tr> <tr> <td>Opales</td> <td>7</td> <td>3</td> <td>10</td> </tr> <tr> <td>Palagonite</td> <td>Tr</td> <td>-</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>65</td> <td>55</td> <td>60</td> </tr> </table>		1, 80	2, 87	2, 90	D		M	D	Sand	10	5	15	Silt	50	60	50	Clay	40	35	35	Access. Minerals	Tr	Tr	Tr	Amphibole	5	2	5	Clay	10	5	10	Diatoms	7	25	7	Feldspar	5	10	5	Opales	7	3	10	Palagonite	Tr	-	1	Quartz	65	55	60
	1, 80	2, 87	2, 90																																																														
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TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																					
UPPER MIOCENE		FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																															
		B	B	R/P <i>Denticulopsis hustedii</i>		7-2.48 g/cc V=2.98 g = 28% W=1.35 g = 2.41%	7-2.33 7-1.2%	7-2.33 7-2.33 7-2.39 XCO ₂ = 0.2 XTOC = 1.84	1 2 3 CC	0.5 1.0 VOID				<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), black (5Y 2.5/1), massive, non-stratified, poorly sorted, compacted to friable. Slight variations in sand and gravel content are visible in the core. Clasts are mostly about 1 cm in diameter, the largest being 5.5 cm. Clast shape analysis in Sections 1-3 indicates 3% angular, 34% subangular, 50% subrounded, 13% rounded (sample size 32). Clasts include gneisses of the following types: quartz-feldspar-biotite-pyrite-magnetite, quartz-feldspar-biotite (coarse to fine grained varieties), biotite-ironoxide-quartz-feldspar (very fine grained, black). Most clasts are slightly altered but some are highly altered.</p> <p>Average gravel content: Section 1, 15% Section 2, 0-30 cm, 10% 30-65 cm, 15% 65-100 cm, 10% 100-120 cm, 15% 120-150 cm, 10% Section 3, 15%</p> <p>SMEAR SLIDE SUMMARY (%): 2, 70 D</p> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>20</td></tr> <tr><td>Silt</td><td>55</td></tr> <tr><td>Clay</td><td>25</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Access. Minerals</td><td>Tr</td></tr> <tr><td>Amphibole</td><td>2</td></tr> <tr><td>Clay</td><td>10</td></tr> <tr><td>Diatoms</td><td>20</td></tr> <tr><td>Feldspar</td><td>12</td></tr> <tr><td>Opaques</td><td>5</td></tr> <tr><td>Patagonite</td><td>Tr</td></tr> <tr><td>Quartz</td><td>50</td></tr> </table>	Sand	20	Silt	55	Clay	25	Access. Minerals	Tr	Amphibole	2	Clay	10	Diatoms	20	Feldspar	12	Opaques	5	Patagonite	Tr	Quartz	50
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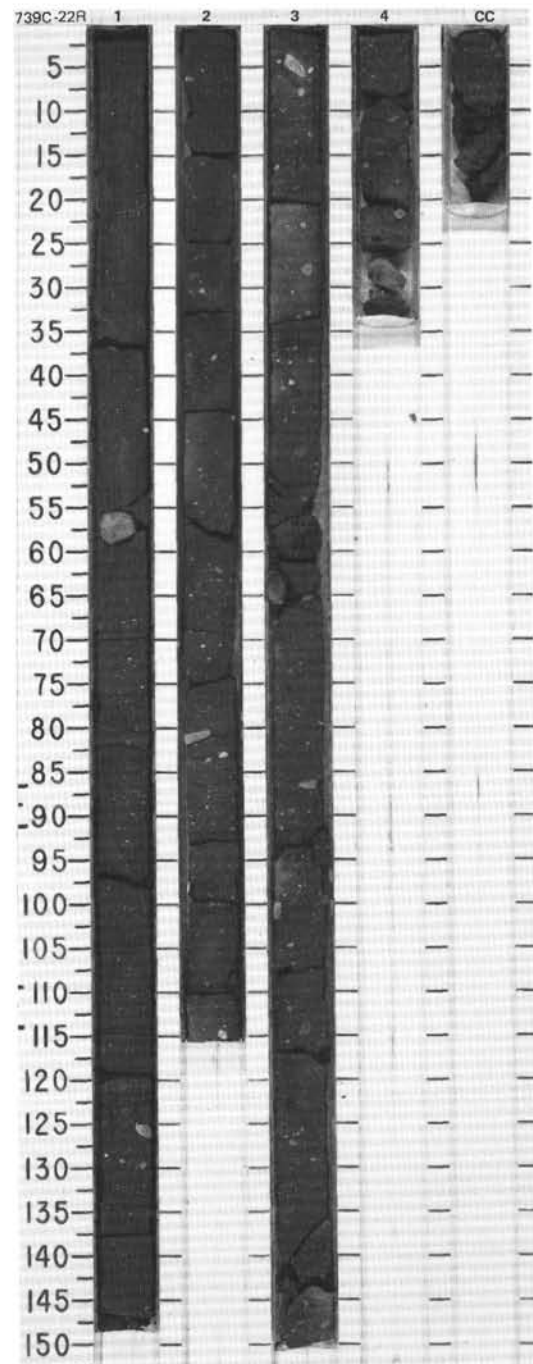


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER	PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																
	FORAMINIFERS NANNOFOSSILS RADIOLARIANS DIATOMS																																							
	B																																							
		7-2.33 g/cc 0-2.58 W=1.5% 10-32% O 0-2.25 0-2.8% 0-2.5% 0-2.36 W=1.2% 7-2.45 0-2.8% 0-3.17 W=1.3%	1 2 3			PP	DIAMICTITE Major lithology: Diamictite (silty clay with sand and gravel), black (5Y 2.5/2), massive, non-stratified, poorly sorted, compacted to friable. Slight variations in sand and gravel content are visible in the core. Clasts are mostly about 1 cm in diameter. Clast shape analysis in Sections 1-3 indicates 3% angular, 37% subangular, 44% subrounded, 16% rounded (sample size 32). Clasts include gneiss with garnet, biotite, quartz and feldspar, fine grained biotite-amphibole gneiss, fine grained quartz-feldspar gneiss. SMEAR SLIDE SUMMARY (%): <table style="margin-left: 20px;"> <tr> <td></td> <td>3, 30</td> <td>3, 30</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> TEXTURE: <table style="margin-left: 20px;"> <tr> <td>Sand</td> <td>15</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>60</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>50</td> </tr> </table> COMPOSITION: <table style="margin-left: 20px;"> <tr> <td>Amphibole</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>25</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>20</td> </tr> <tr> <td>Opaques</td> <td>1</td> <td>10</td> </tr> <tr> <td>Palagonite</td> <td>1</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>75</td> <td>40</td> </tr> </table>		3, 30	3, 30	D	D	D	Sand	15	10	Silt	60	40	Clay	20	50	Amphibole	1	Tr	Clay	20	25	Feldspar	2	20	Opaques	1	10	Palagonite	1	5	Quartz	75	40
	3, 30	3, 30																																						
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SITE 739 HOLE C CORE 22R CORED INTERVAL 159.3-164.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																				
	FORAMINIFERS	NAUPOFOSSILS	RADIOLARIANS	DIATOMS																																														
UPPER MIOCENE	B								0.5					DIAMICTITE Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted. Core-catcher, 10-20 cm, contains olive gray (10Y 3/1) better sorted sand relatively free of clay and silt. Clasts are mostly < 1 cm in diameter with the largest clast 2.2 cm in diameter; clast shapes are angular to subangular but in Section 1, 104-148 cm and Section 2, 2-3% of clasts are subrounded. Clast lithologies include quartz, granite, mica schist, feldspar, grayish green (10Y 4/1) sandstone, black anthracitized coaly shale and pyroxenite; all clasts are fresh and unaltered. Gravel content is 2-10% throughout the core but variable. Average gravel content: Section 1, 31-38 cm, 5% 95-98 cm, 5% Section 2, 0-10 cm, 2-3% 10-22 cm, 1% 22-56 cm, 5% 56-72 cm, 2% 72-98 cm, 5% 98-116 cm, 10% Drilling disturbance: Drill breccia in core-catcher, 10-20 cm. SMEAR SLIDE SUMMARY (%): <table style="margin-left: 20px;"> <tr><td></td><td>1, 35</td><td>2, 67</td></tr> <tr><td>M</td><td></td><td>D</td></tr> </table> TEXTURE: <table style="margin-left: 20px;"> <tr><td>Sand</td><td>20</td><td>20</td></tr> <tr><td>Silt</td><td>35</td><td>65</td></tr> <tr><td>Clay</td><td>45</td><td>15</td></tr> </table> COMPOSITION: <table style="margin-left: 20px;"> <tr><td>Access Minerals</td><td>1</td><td>1</td></tr> <tr><td>Amphibole</td><td>1</td><td>1</td></tr> <tr><td>Clay</td><td>40</td><td>17</td></tr> <tr><td>Feldspar</td><td>3</td><td>3</td></tr> <tr><td>Opaques</td><td>1</td><td>1</td></tr> <tr><td>Palagonite</td><td>2</td><td>2</td></tr> <tr><td>Quartz</td><td>50</td><td>70</td></tr> </table>		1, 35	2, 67	M		D	Sand	20	20	Silt	35	65	Clay	45	15	Access Minerals	1	1	Amphibole	1	1	Clay	40	17	Feldspar	3	3	Opaques	1	1	Palagonite	2	2	Quartz	50	70
		1, 35	2, 67																																															
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TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																			
	FORAMINIFERS	MAMMOFOSILS	RADIOLARIANS	DIATOMS																													
B	B			R/P	<ul style="list-style-type: none"> • V=2381 • W=10% • V=2281 • W=1.1% 	<ul style="list-style-type: none"> • $\phi = 2.23\%$ • $\phi = 2.40\%$ • $\phi = 2.54\%$ 	<ul style="list-style-type: none"> • $\%CaCO_3 = 0.2$ • $\%TiO_2 = 1.62$ 	1	0.5						<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted; diffuse zones of paler dark greenish gray (10Y 5/2) more sandy material in Section 1, 4-7 cm and 27-36 cm. Elongate clasts show long axis orientation at high angle to bedding in Section 1, 4-7 cm. Also in Section 1, 88-140 cm, a fining upward sequence occurs with coarser gravely diamictite grading up into finer gravely diamictite; X-ray pictures of cored interval confirm fining-upward trend. Clasts are mostly <0.5 cm in diameter with the largest clast 3 cm in diameter. Most clasts are angular to subangular with 1-3% subrounded. All clasts are fresh and unaltered, and lithologically include quartz, granite anthracitized coaly shale, feldspathic gneiss, quartzite, and garnet-feldspar gneiss. The proportion of larger clasts increases in Section 1, 26-45 cm and 108-140 cm (base of fining up sequence). Gravel content 5-10%.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>Sand</td><td>25</td></tr> <tr><td>Silt</td><td>65</td></tr> <tr><td>Clay</td><td>10</td></tr> </table> <p>TEXTURE:</p> <p>COMPOSITION:</p> <table border="0"> <tr><td>Amphibole</td><td>2</td></tr> <tr><td>Clay</td><td>15</td></tr> <tr><td>Feldspar</td><td>3</td></tr> <tr><td>Opauques</td><td>2</td></tr> <tr><td>Palagonite</td><td>3</td></tr> <tr><td>Quartz</td><td>70</td></tr> </table>	Sand	25	Silt	65	Clay	10	Amphibole	2	Clay	15	Feldspar	3	Opauques	2	Palagonite	3	Quartz	70
Sand	25																																
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							2																										

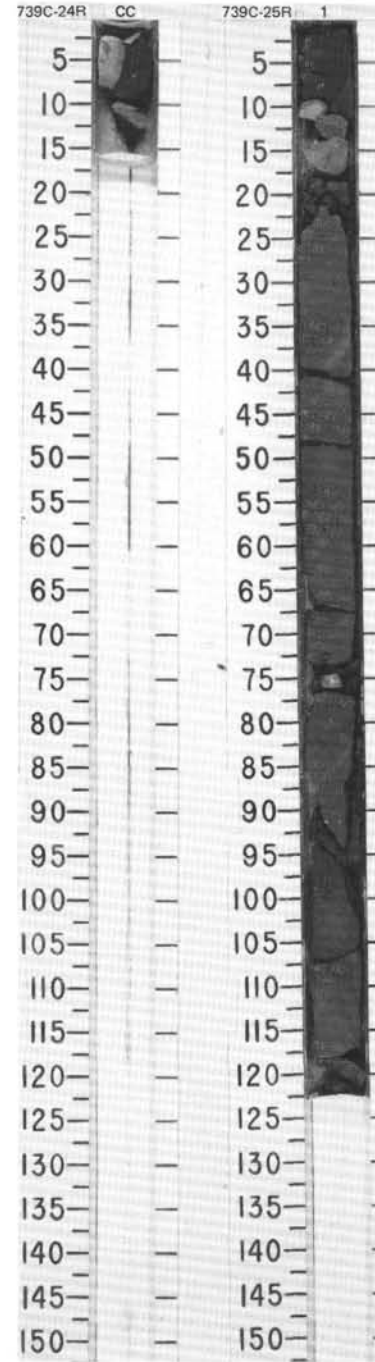


SITE 739 HOLE C CORE 24R CORED INTERVAL 169.0-173.6 mbsf

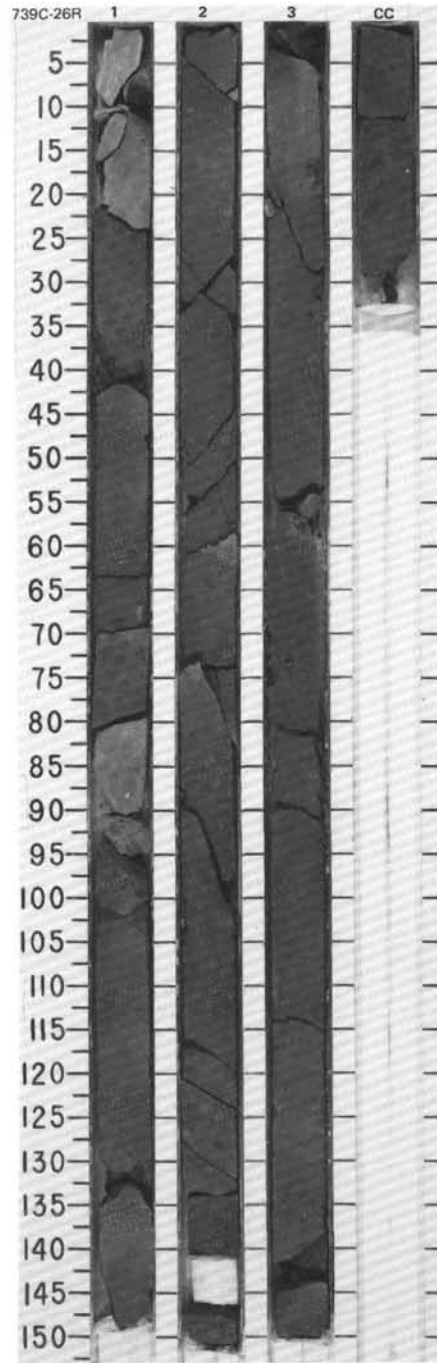
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
	B	B	B	B			● %CaCO ₃ =0.5 XTOC=1.37	● CC			X			DIAMICTITE Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted; contains one large quartzite clast, 7 cm in diameter. Drilling disturbance: Drilling breccia in core-catcher.

SITE 739 HOLE C CORE 25R CORED INTERVAL 173.6-183.2 mbsf

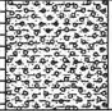
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
LOWER OLILOCENE	B	B	F/P				● V=2337 W=14.5% [3.1% 2.33]	● V=2423 W=15% [3.2% 2.24]	● %CaCO ₃ =0.6 XTOC=1.05	● %CaCO ₃ =0.2 XTOC=0.69				DIAMICTITE Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted with 5% diatoms, 1% silicoflagellates and traces of sponge spicules. Clasts mostly < 1 cm and mostly angular to subangular; clast lithologies include quartz, granite, gneiss and diamictite. SMEAR SLIDE SUMMARY (%): OG 1, 53 CC, 2 IW * D D TEXTURE: Sand 15 15 Silt 60 65 Clay 25 20 COMPOSITION: Amphibole 3 2 Clay 15 20 Diatoms 5 - Feldspar 4 3 Opaques - 2 Palagonite - 1 Quartz 70 70 Silicoflagellates 1 - Spicules Tr -

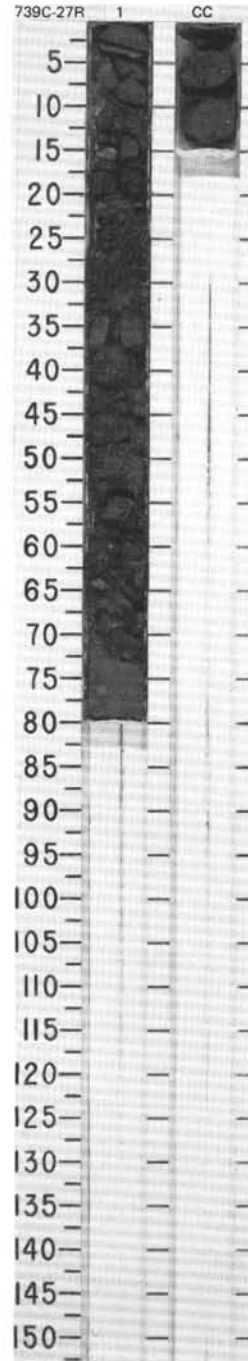


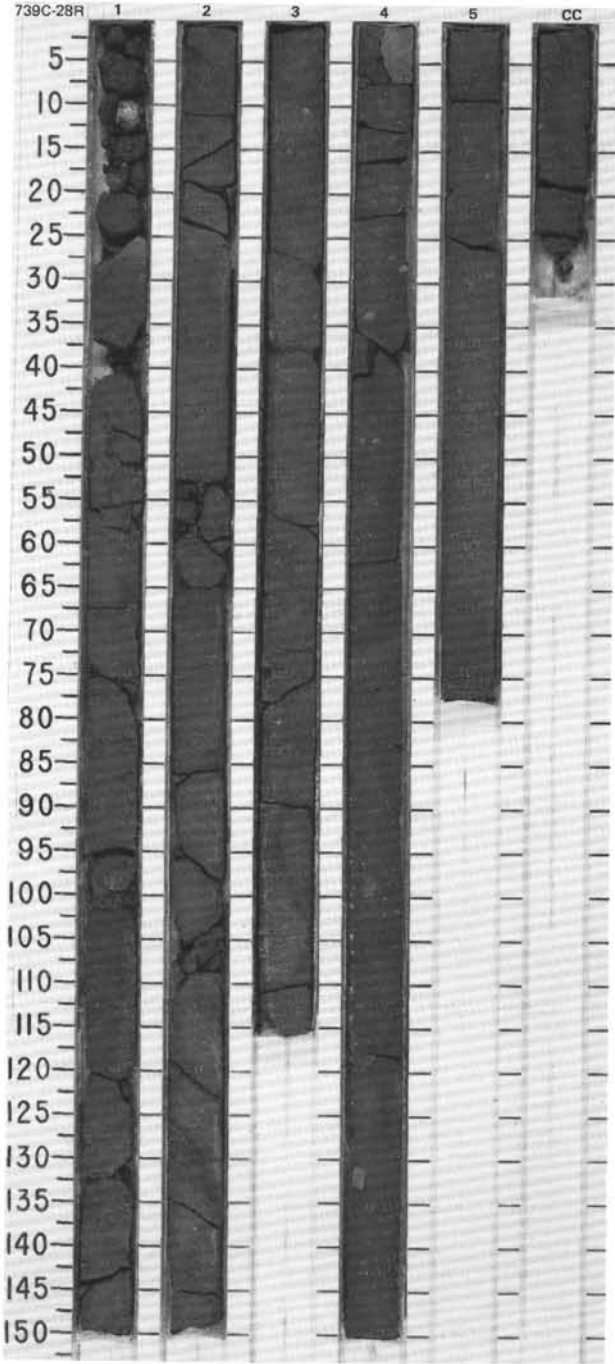
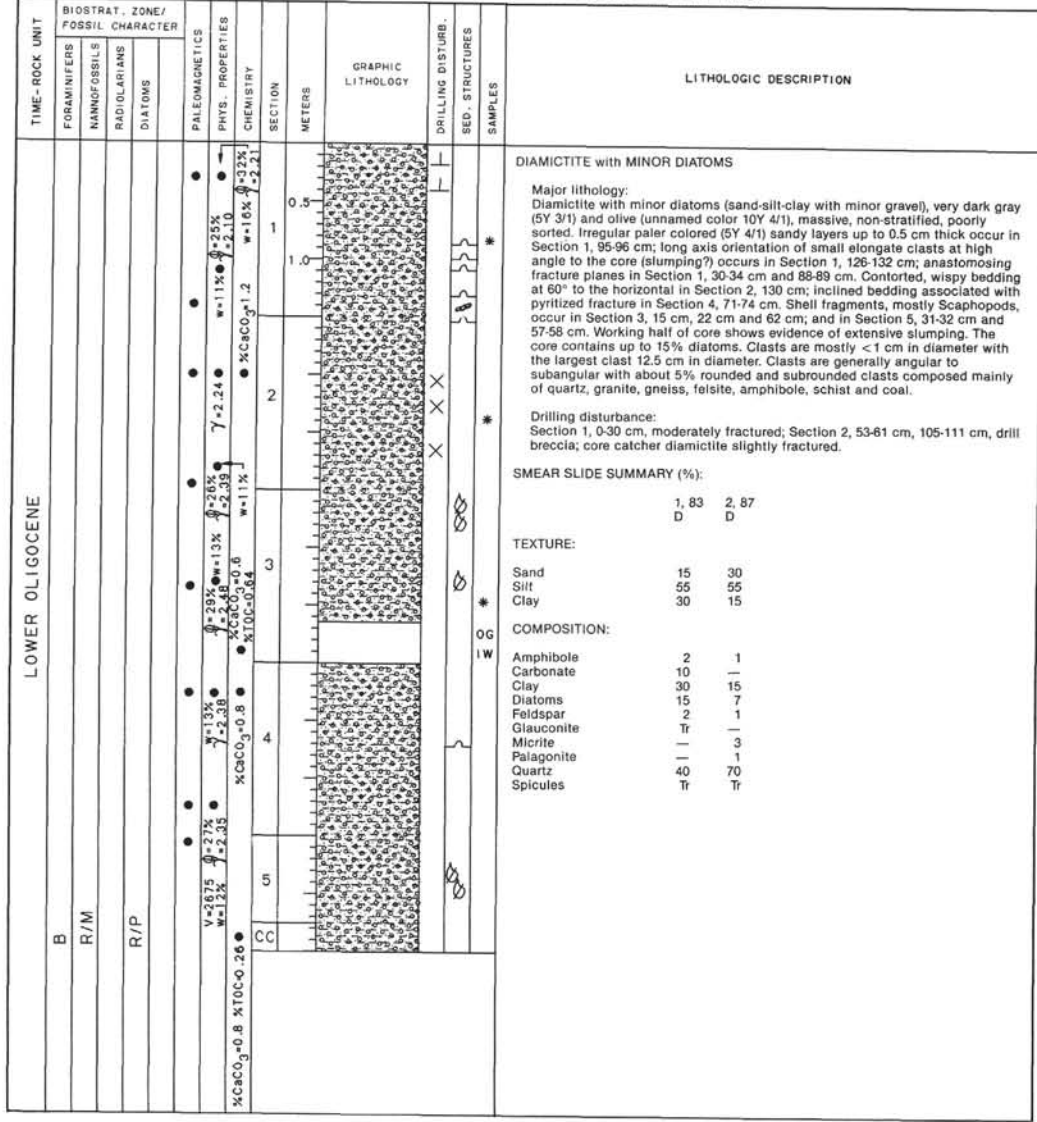
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																											
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																																					
LOWER OLILOCENE	B								0.5				<p>DIAMICTITE with MINOR DIATOMS</p> <p>Major lithology: Diamictite with minor diatoms (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, except in core catcher, 10-20 cm which is sharply-based and graded with coarser clay-silt-sand in lower part, the upper part may be burrowed. A darker layer a few millimeters in thickness occurs in Section 1, 72 cm; Section 2, 0-22 cm contains several millimeter thick layers, 54-55 cm, pyrite; Section 3, 133-136 cm, pyrite concretion. A shell fragment occurs in Section 2, at 102 cm; the core catcher shows long axis imbrication of small clasts at 22 cm. Fractures with slickensided surfaces occur throughout the core which contains 15% diatoms. Clasts are mostly about 4 mm in diameter; they are angular to subangular and composed mainly of quartz, schist, mafic lithics and sediment. In the core catcher, 15-25 cm, clasts of darker (5Y 5/2, 5Y 4/1) and lighter (5Y 5/1) diamictite occur. Gravel content averages 5-10% uniformly throughout the core.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 70</td> <td>1, 72</td> <td>2, 7</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>10</td> <td>15</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>75</td> <td>65</td> <td>75</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>20</td> <td>15</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Amphibole</td> <td>3</td> <td>2</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>15</td> <td>20</td> <td>20</td> </tr> <tr> <td>Diatoms</td> <td>15</td> <td>20</td> <td>20</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>3</td> <td>2</td> </tr> <tr> <td>Glass</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Glauconite</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Opaques</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>55</td> <td>55</td> <td>50</td> </tr> <tr> <td>Silicoflagellates</td> <td>2</td> <td>1</td> <td>1</td> </tr> <tr> <td>Spicules</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> </table>		1, 70	1, 72	2, 7	D		D	M	Sand	10	15	10	Silt	75	65	75	Clay	15	20	15	Amphibole	3	2	1	Clay	15	20	20	Diatoms	15	20	20	Feldspar	3	3	2	Glass	1	1	1	Glauconite	1	1	1	Opaques	1	1	1	Quartz	55	55	50	Silicoflagellates	2	1	1	Spicules	Tr	Tr	Tr
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R/M								1.0																																																																	
C/M								2																																																																	



SITE 739 HOLE C CORE 27R CORED INTERVAL 192.9-202.5 mbsf

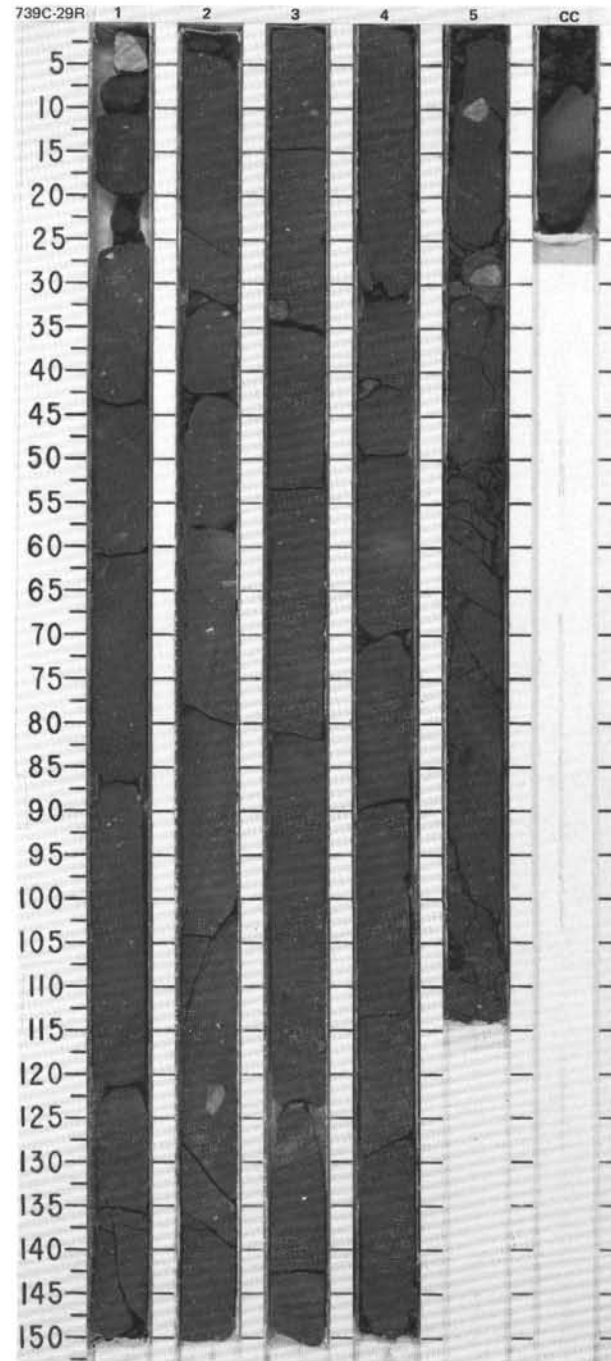
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSELS	RADIOLARIANS	DIATOMS									
LOWER OLILOCENE	B	R/M	B	R/P		w=21% q=42% f=2.15% n=22% y=2.09%	XCaCO ₃ =1.2 XTOC=0.45	1 0.5 CC		O	*		<p>DIATOMACEOUS SANDY-SILTY CLAYSTONE</p> <p>Major lithology: Diatomaceous sandy-silty claystone, very dark gray (5Y 3/1) to dark olive gray (5Y 4/1) with up to 30% diatoms; massive, non-stratified, poorly sorted; Section 1, 70-80 cm contains irregular diffuse lighter (sand-rich) and darker (clay-rich) streaks. Small pieces of mollusc shell occur in Section 1, 40 cm. Gravel content is 1% or less and confined to the top 16 cm of Section 1 and the core catcher. Clasts are mostly < 4 mm in diameter with the largest clast 1.2 cm in diameter. Clasts are mainly angular to subangular and composed of quartz, quartzite and reworked diamictite with > 1% gravel.</p> <p>Drilling disturbance: The core is broken and fragmented throughout.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">1, 42 D</p> <p>TEXTURE:</p> <p>Sand — Silt — Clay —</p> <p>COMPOSITION:</p> <p>Amphibole 1 Clay 25 Diatoms 30 Feldspar 2 Quartz 35 Silicoflagellates 1 Spicules 2</p>

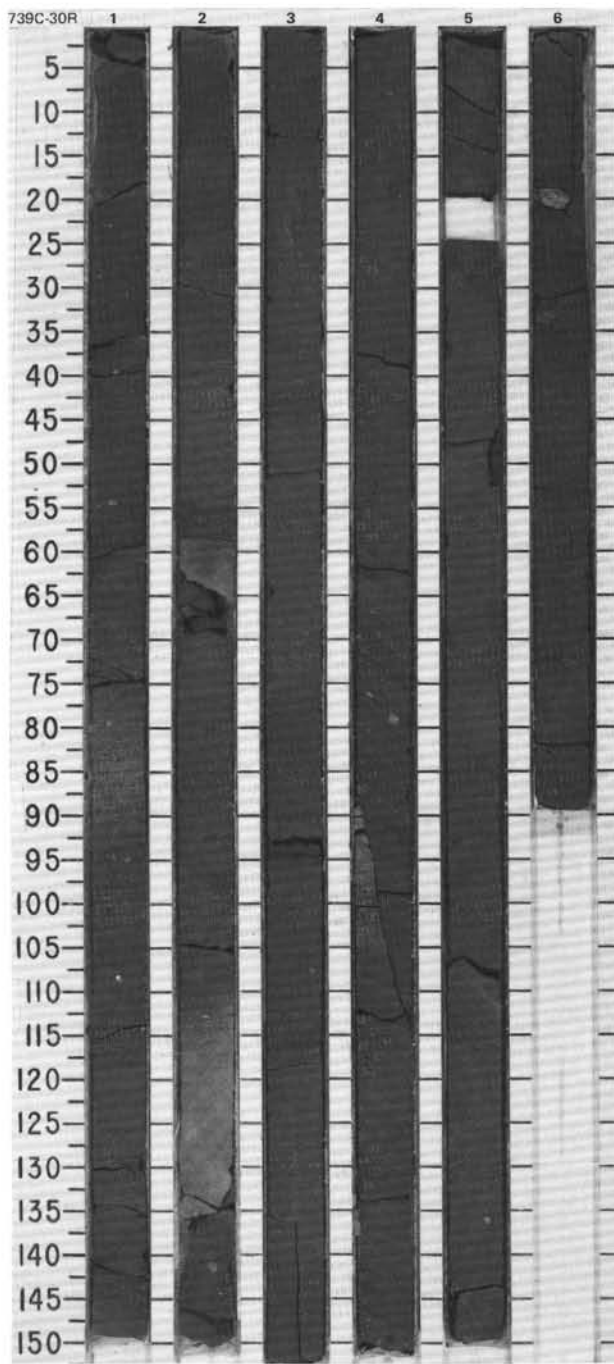
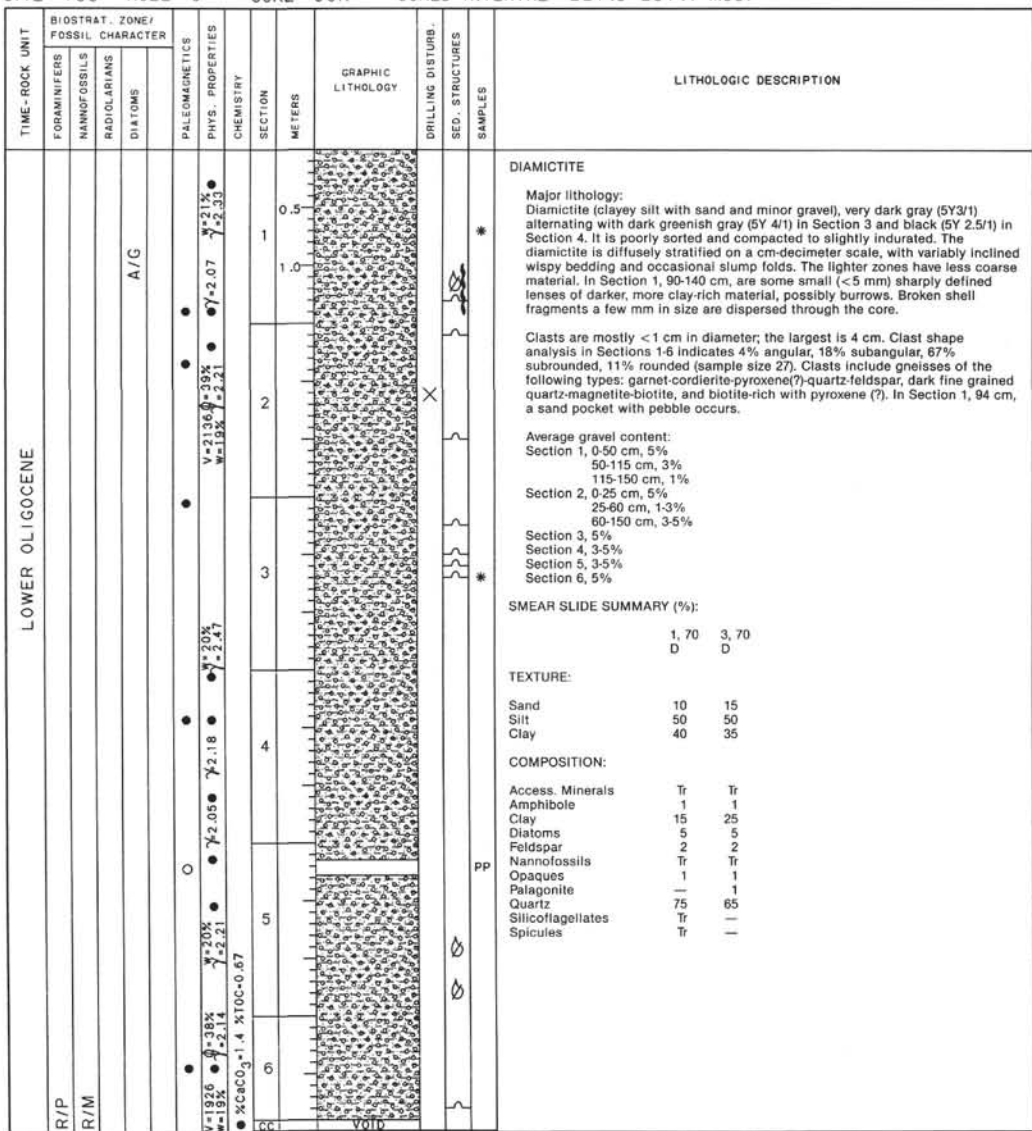




SITE 739 HOLE C CORE 29R CORED INTERVAL 212.2-221.8 mbsf

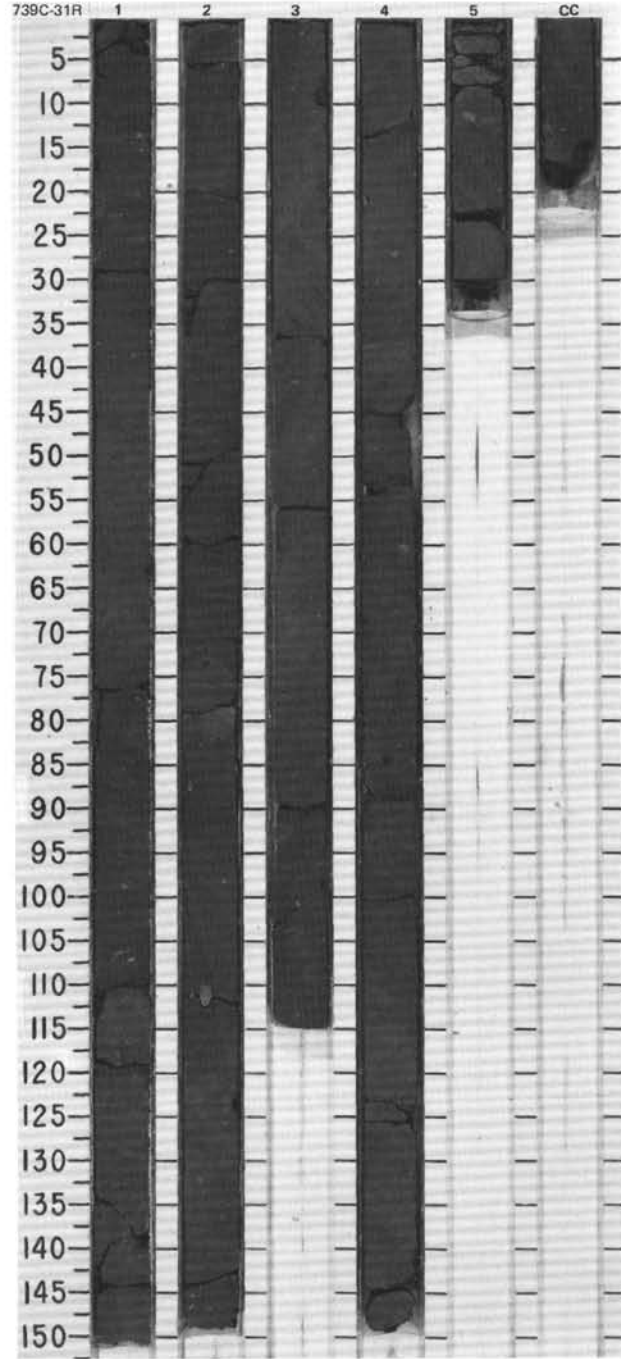
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURBANCE SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS														
LOWER OLILOCENE	B	R/M			<ul style="list-style-type: none"> ● 2.6% σ = 12X ● 2.6% σ = 3.5 ● 2.3% σ = 1.0 ● XCaCO₃ = 1.0 	1	0.5 1.0				<p>DIAMICTITE</p> <p>Major lithology: Diamictite (clay-silt-sand with minor gravel), very dark gray (5Y 3/1); massive, non-stratified, poorly sorted. Shell fragments occur in Section 1, 18 cm, 53 cm, 59 cm, 95 cm and 143 cm; Section 2, 68 cm; Section 3, 4 cm, 149 cm; black burrow-like structure in Section 4, 0-15 cm, 120-150 cm. More sand-rich zone in Section 4, 128-130 cm; Section 5, 85-114 cm and in core catcher, 15-20 cm; slickensided surface in Section 2, 100-110 cm.</p> <p>Minor lithology: Diamictite as above, lighter greenish gray (10Y 4/1) and very dark gray (5Y 3/1), but with mm-scale diffuse, wispy layers at variable angles to bedding associated with slumping in Section 1, 8-18 cm, 35-40 cm, 50-65 cm; Section 2, 58-103 cm; Section 3, throughout but with slumped layers around base of pebble; Section 5, 45-50 cm, 60-65 cm, 70-83 cm. Clasts mostly 2-4 mm in diameter with largest clast 2 cm in diameter. Clast shapes are mainly angular to subangular but with 1-5% rounded to subrounded clasts composed of quartz, quartzite, granite and various metamorphic lithologies, including garnetiferous gneiss. Gravel content is 1-5% throughout core.</p> <p>Drilling disturbance: Dark mm-scale, convex-up (bowed) layers spaced 2-10 cm apart, occur in Section 2, 20-31 cm and Section 4; these are caused by core barrel rotation during drilling. Section 5, 50-75 cm is highly fractured; core catcher, 0-8 cm, contains drilling breccia and moderately fractured diamictite, 8-24 cm.</p>							
				<ul style="list-style-type: none"> ● V=2303 σ = 33% ● 7=2.35 σ = 7 ● V=2281 σ = 34% ● W=15% σ = 2.33 ● V=2281 σ = 34% ● W=15% σ = 2.18 ● XCaCO₃ = 1.2 	2													
				<ul style="list-style-type: none"> ● V=271% σ = 36% ● W=1.7% σ = 2.23 ● V=271% σ = 36% ● W=1.7% σ = 2.23 ● XCaCO₃ = 1.4 ● XTOC = 0.72 	3													
				<ul style="list-style-type: none"> ● V=20% σ = 2.11 ● V=20% σ = 2.11 ● XCaCO₃ = 1.4 ● XTOC = 0.72 	4													
					5													
					CC													



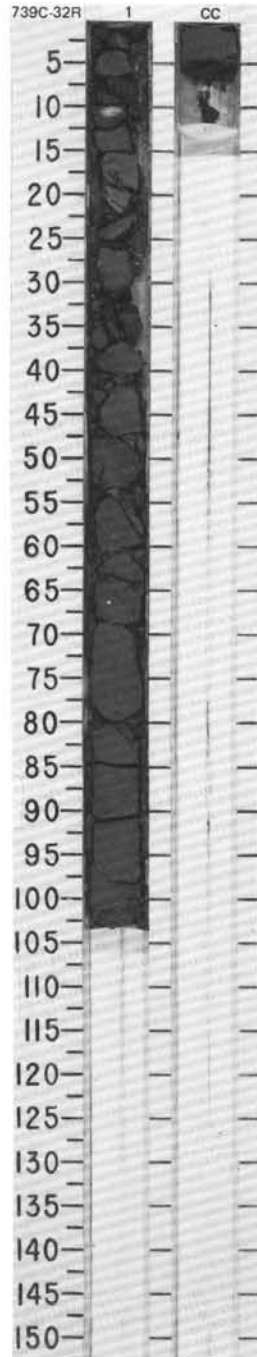


SITE 739 HOLE C CORE 31R CORED INTERVAL 231.4-241.1 mbsf

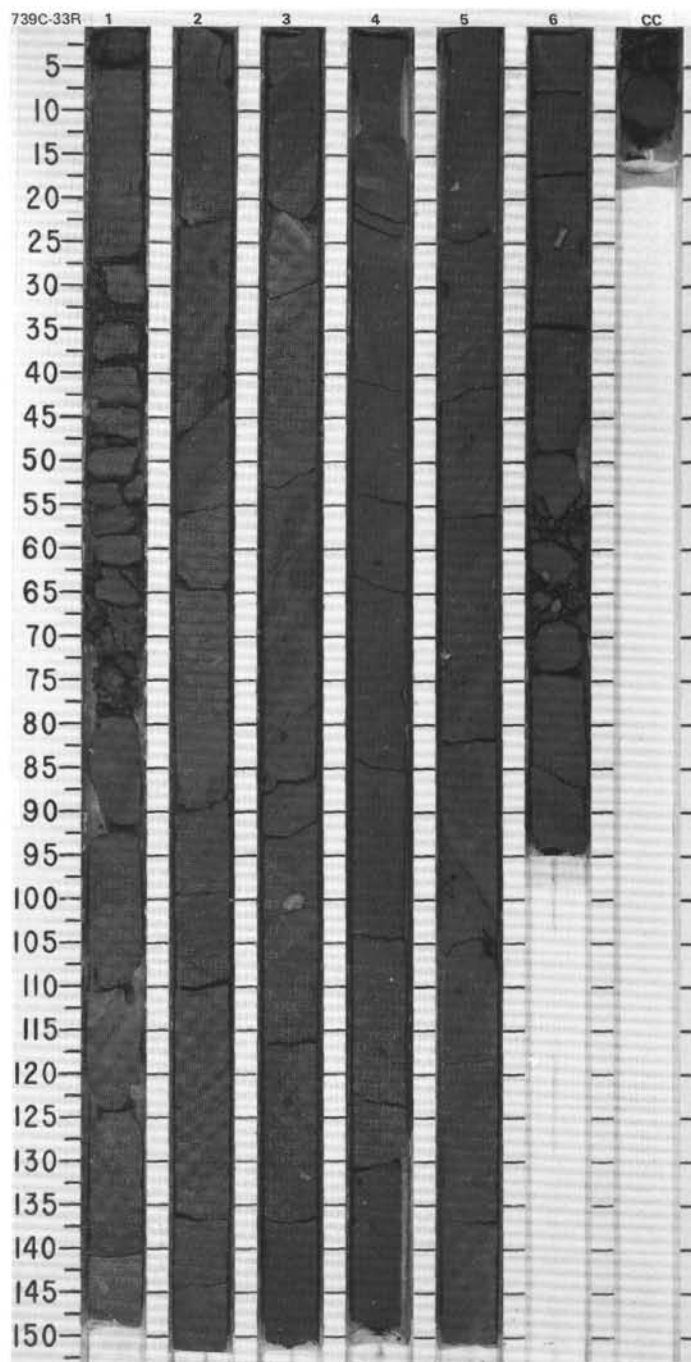
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																													
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																						
LOWER OLIGOCENE								0.5					<p>DIAMICTITE</p> <p>Major lithologies:</p> <p>a. Diamictite (clayey silt with sand and gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted to slightly indurated. Slight variations in sand and gravel content are visible in the core, Sections 1, 3, 4 and 5. Pyrite is developed in the upper 2 cm of a burrow in Section 1, 117-123 cm, and also at 105 cm.</p> <p>b. Diamictite as above but diffusely stratified on a cm-decimeter scale, with variably inclined wispy bedding and occasional slump folds, Section 2. From 0 cm to 50 cm, diffuse, slightly lighter mottlings may be bioturbation features.</p> <p>Clasts are mostly < 1 cm in diameter; the largest is 2.5 cm. Clast shape analysis in Sections 1-2 indicates 16% angular, 24% subangular, 56% subrounded, 4% rounded (sample size 25). Clasts include the following gneisses: biotite-pyroxene(?) quartz-feldspar-cordierite(?), garnet-bearing, and mafic fine grained gneiss.</p> <p>Average gravel content:</p> <p>Section 1, 5-10% Section 2, 3-5% Section 3, 5-10% Section 4, 5% Section 5, 5-10% Section 6, 5-10%</p> <p>Drilling and cutting disturbance: Section 1, 0-10 cm, is disaggregated by drilling. Gold-colored flakes of paint from cutting saw occur in Section 4 and CC.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2, 88</td> <td>4, 70</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>10</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>50</td> <td>45</td> </tr> <tr> <td>Clay</td> <td>40</td> <td>40</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>2</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>30</td> </tr> <tr> <td>Diatoms</td> <td>5</td> <td>5</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>2</td> </tr> <tr> <td>Nannofossils</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Opalines</td> <td>3</td> <td>3</td> </tr> <tr> <td>Palagonite</td> <td>1</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>50</td> <td>55</td> </tr> <tr> <td>Silicoflagellates</td> <td>-</td> <td>Tr</td> </tr> </table>		2, 88	4, 70	D		D	Sand	10	15	Silt	50	45	Clay	40	40	Access. Minerals	Tr	Tr	Amphibole	2	2	Clay	35	30	Diatoms	5	5	Feldspar	2	2	Nannofossils	Tr	Tr	Opalines	3	3	Palagonite	1	2	Quartz	50	55	Silicoflagellates	-	Tr
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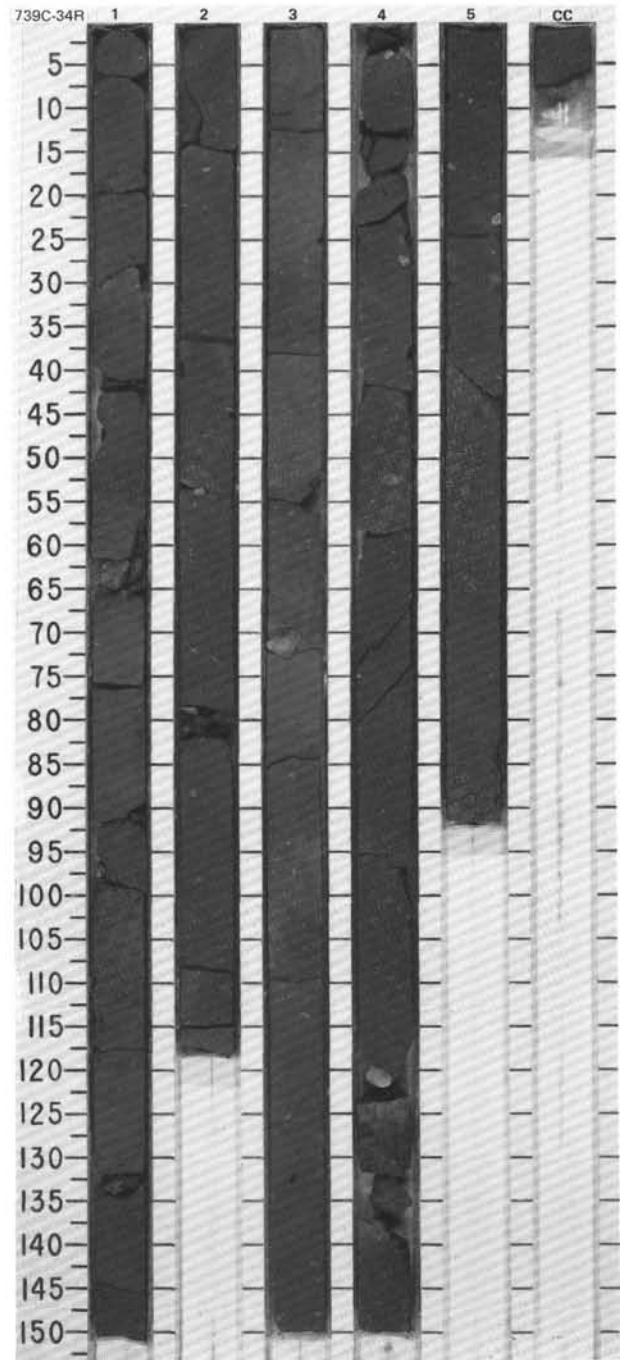
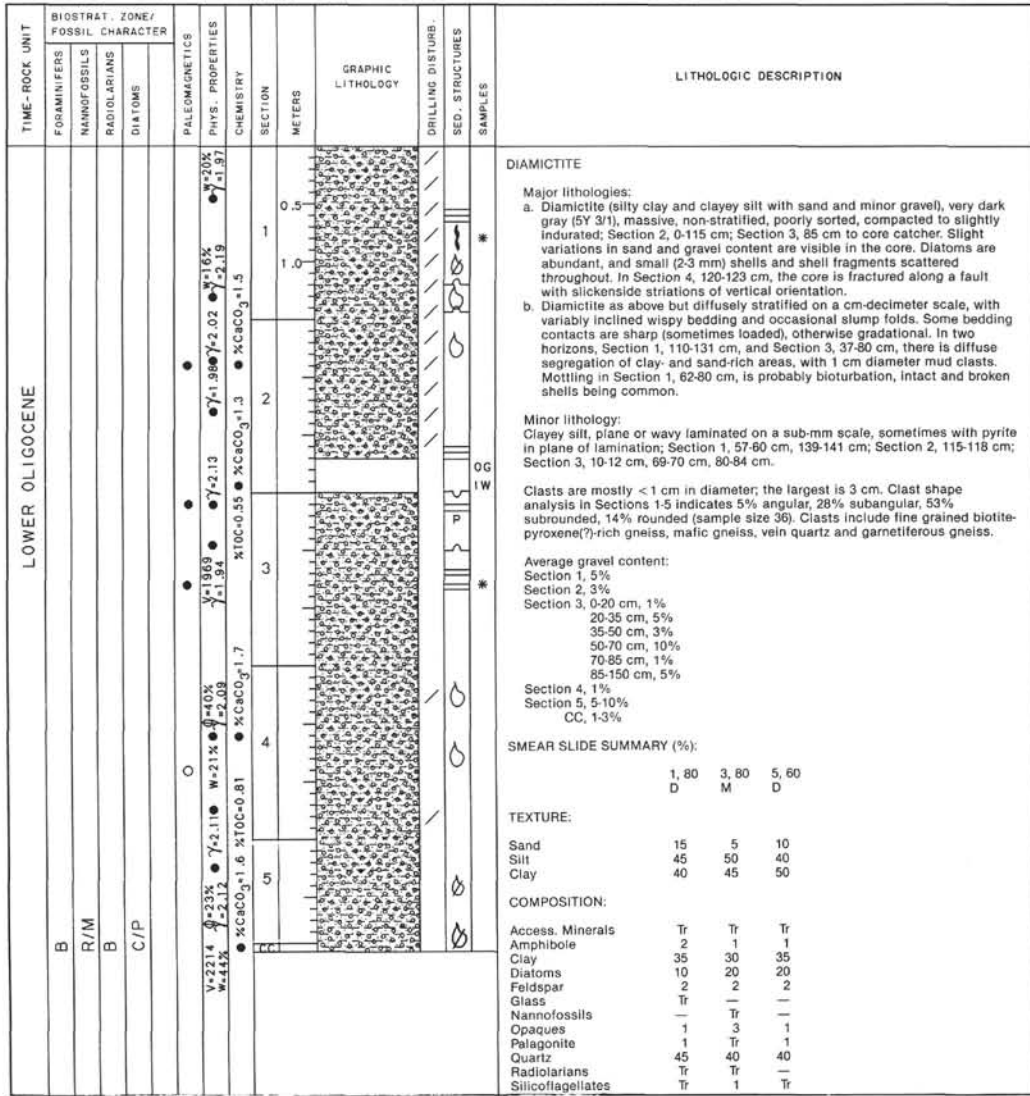


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
LOWER OLILOCENE	B	B	B	* C/M	•	V=2000 W=23% KfC=1.9	W=18% Kf=2.17 KfC=1.5	1	0.5 1.0		X X X X X	○ *		<p>DIAMICTITE</p> <p>Major lithology: Diamicton (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), poorly sorted, totally disturbed, well-preserved shallow marine shell at Section 1, 10 cm, 2.5 cm across. Largest clast is 3 cm in diameter but could have derived from cave-in. The average gravel content in the core catcher is 3-5%.</p> <p>Drilling and cutting disturbance: Core is totally broken up into friable biscuits.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">1, 50 D</p> <p>TEXTURE:</p> <p>Sand 20 Silt 40 Clay 40</p> <p>COMPOSITION:</p> <p>Access. Minerals Tr Amphibole 2 Clay 30 Diatoms 3 Feldspar 1 Nannofossils Tr Opactus 1 Palagonite 1 Quartz 60 Silicoflagellates Tr</p>



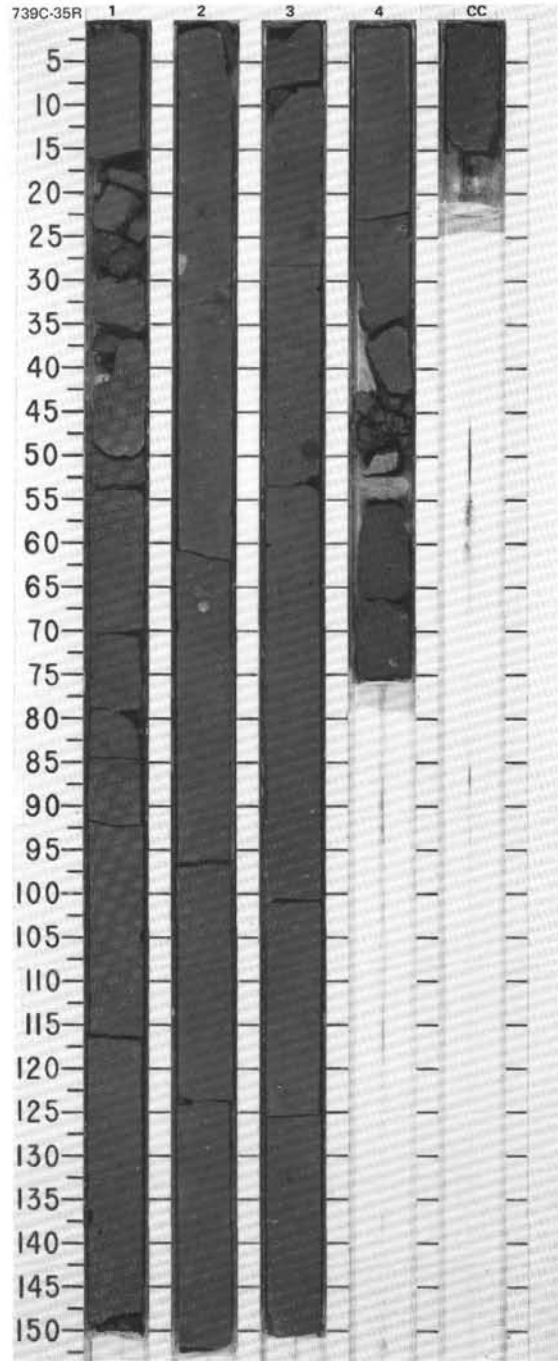
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
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LOWER OLIGOCENE	B											DIAMICTITE Major lithologies: a. Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted to slightly indurated; Section 4, 30-150 cm; Section 5, 0-60 cm; Section 6. Slight variations in sand and gravel content are visible in the core. A pyrite nodule or burrow fill occurs in Section 5, 100 cm; also pyrite occurs on a fracture within a more clay-rich band in Section 5, 100 cm. b. Diamictite as above but diffusely to well stratified on a cm-decimeter scale, with variably inclined wispy bedding and occasional slump folds; Sections 1-3; Section 4, 1-30 cm; Section 5, 60-150 cm. Contacts with massive diamictite may have been sharp prior to slumping. Fragmented and entire shells are common. In Section 3, 50-110 cm, is a greenish (10Y 4/1) silty clay, rich in diatoms (40%), interfolded with more clast-rich sediment. Clasts are mostly < 1 cm in diameter, the largest is 3.5 cm. Clast shape analysis in Sections 1-4 indicates 12% angular, 15% subangular, 58% subrounded, 15% rounded (sample size 41). Clasts include quartz-feldspar gneisses, black quartz-biotite gneiss, garnet-bearing gneiss, vein quartz, and light brown limestone in Section 1, 143 cm. Mafic gneisses are weathered. Average gravel content: Section 1, 3-5% Section 2, 5-10% Section 3, 1-15 cm, 5% 15-50 cm, 1% 50-110 cm, 5% 110-150 cm, 10% Section 4, 5-10% Section 5, 5% Section 6, 5% Drilling disturbance: In Section 1, 30-60 cm, core has been broken into biscuits where fine layers (< 1 cm) occur. SMEAR SLIDE SUMMARY (%): <table border="0" style="margin-left: 20px;"> <tr> <td></td> <td>2, 69</td> <td>4, 84</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> TEXTURE: <table border="0" style="margin-left: 20px;"> <tr> <td>Sand</td> <td>5</td> <td>40</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>55</td> <td>30</td> </tr> </table> COMPOSITION: <table border="0" style="margin-left: 20px;"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Amphibole</td> <td>—</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>45</td> <td>30</td> </tr> <tr> <td>Diatoms</td> <td>40</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>2</td> <td>8</td> </tr> <tr> <td>Opaques</td> <td>2</td> <td>3</td> </tr> <tr> <td>Palagonite</td> <td>1</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>10</td> <td>40</td> </tr> </table>		2, 69	4, 84	D	D	D	Sand	5	40	Silt	40	30	Clay	55	30	Access. Minerals	Tr	2	Amphibole	—	1	Clay	45	30	Diatoms	40	15	Feldspar	2	8	Opaques	2	3	Palagonite	1	1	Quartz	10	40
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Opaques	2	3																																																	
Palagonite	1	1																																																	
Quartz	10	40																																																	
	R/M				V=1887 W=288 θ=52% F=2.14	V=31K W=215 θ=27% F=1.93	V=1030 W=189 θ=72.20 F=2.20																																												
					V=1887 W=288 θ=52% F=2.14	V=31K W=215 θ=27% F=1.93	V=1030 W=189 θ=72.20 F=2.20																																												
					V=2166 W=208 θ=40% F=2.18	V=2124 W=259 θ=46% F=2.02																																													

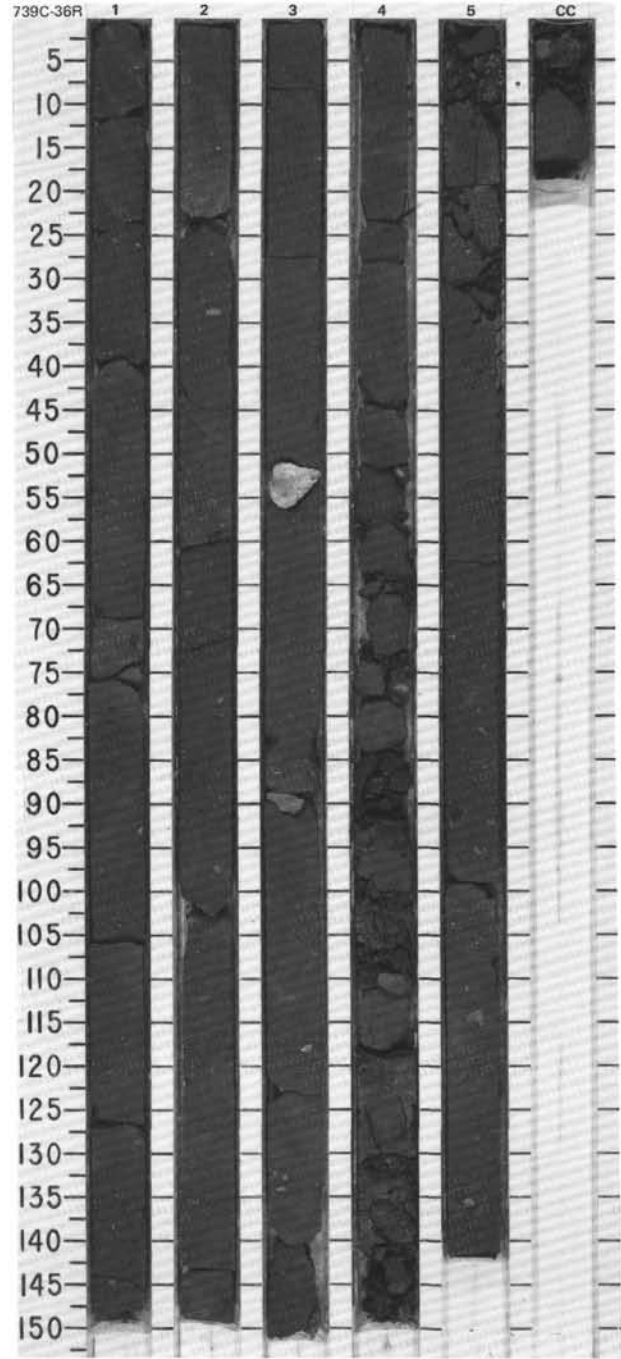
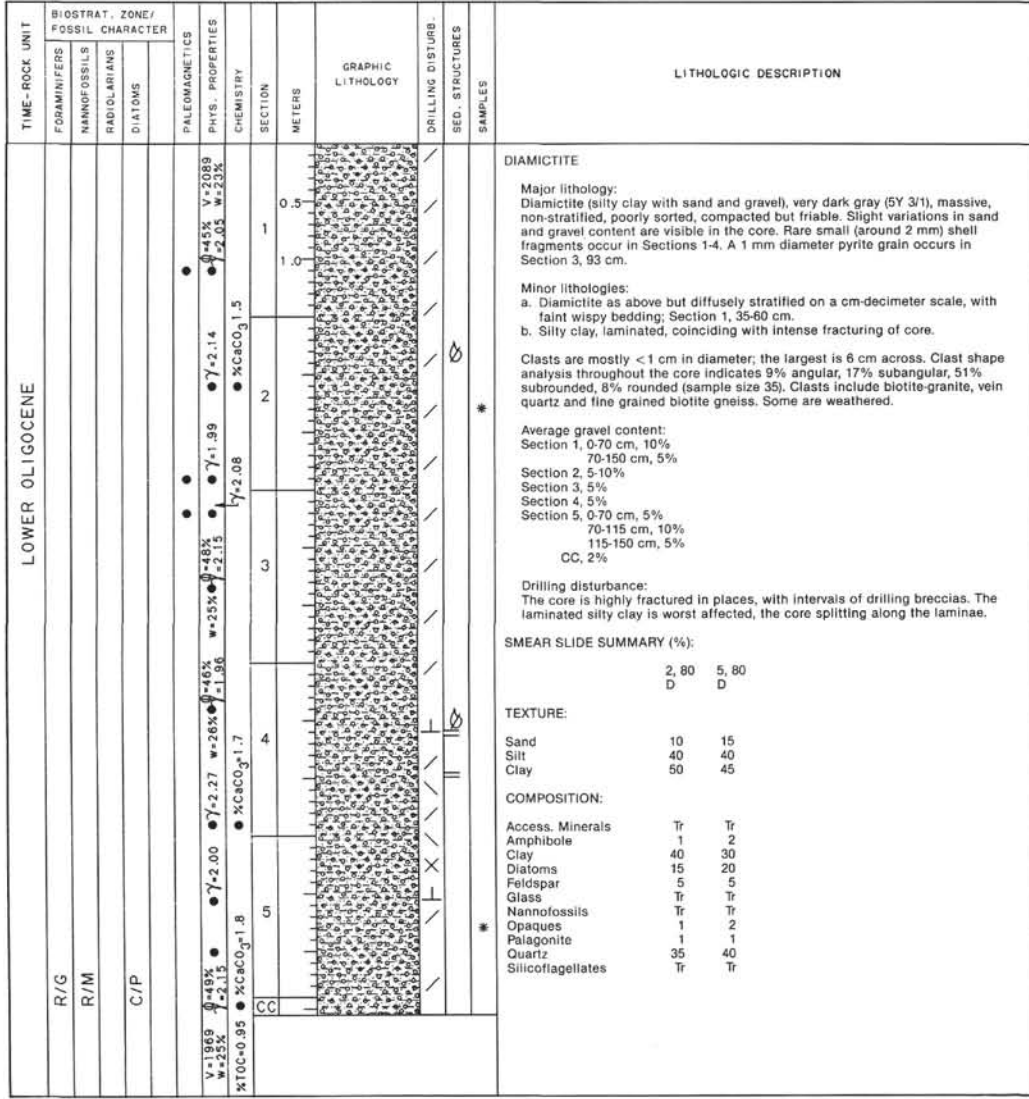




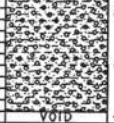
SITE 739 HOLE C CORE 35R CORED INTERVAL 270.0-279.7 mbsf

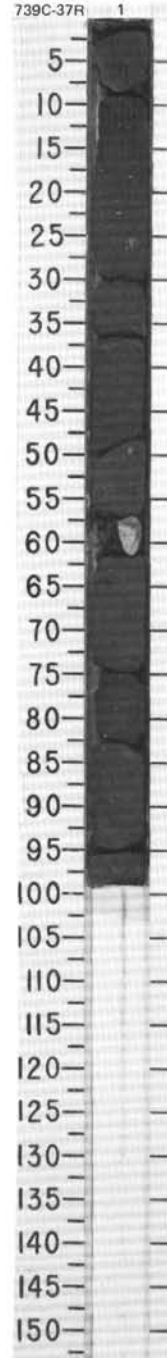
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	MANIFEROUS	RADIOLARIANS	DIATOMS																																															
LOWER OLILOCENE	R/P	R/P	R/P																																																
					V=2234 W=23% %CaCO ₃ =1.3 %TiO ₂ =0.68 W=18% W=1.92 W=1.3% W=2.05 W=2.00 W=2.07 W=2.48% W=2.5% W=3% W=2.20 W=1.7 W=2.0							<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted but friable. Slight variations in sand and gravel content are visible in the core. The sediment is diatomaceous, and tiny shell fragments (<1 mm) occur throughout. A fracture with slickenside striations occurs in Section 4, 35-41 cm.</p> <p>Clasts are mostly <1 cm in diameter, the largest is 6 cm across.</p> <p>Average gravel content: Section 1, 1-3% Section 2, 3% Section 3, 3% Section 4, 0-45 cm, 3% 45-75 cm, 10% CC, 5%</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 60</td> <td>3, 80</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>20</td> <td>15</td> </tr> <tr> <td>Silt</td> <td>35</td> <td>35</td> </tr> <tr> <td>Clay</td> <td>45</td> <td>50</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Amphibole</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>35</td> </tr> <tr> <td>Diatoms</td> <td>20</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>11</td> <td>10</td> </tr> <tr> <td>Opaques</td> <td>2</td> <td>2</td> </tr> <tr> <td>Palagonite</td> <td>1</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>35</td> <td>37</td> </tr> </table>		1, 60	3, 80	D	D	D	Sand	20	15	Silt	35	35	Clay	45	50	Access. Minerals	Tr	—	Amphibole	1	Tr	Clay	30	35	Diatoms	20	15	Feldspar	11	10	Opaques	2	2	Palagonite	1	1	Quartz	35	37
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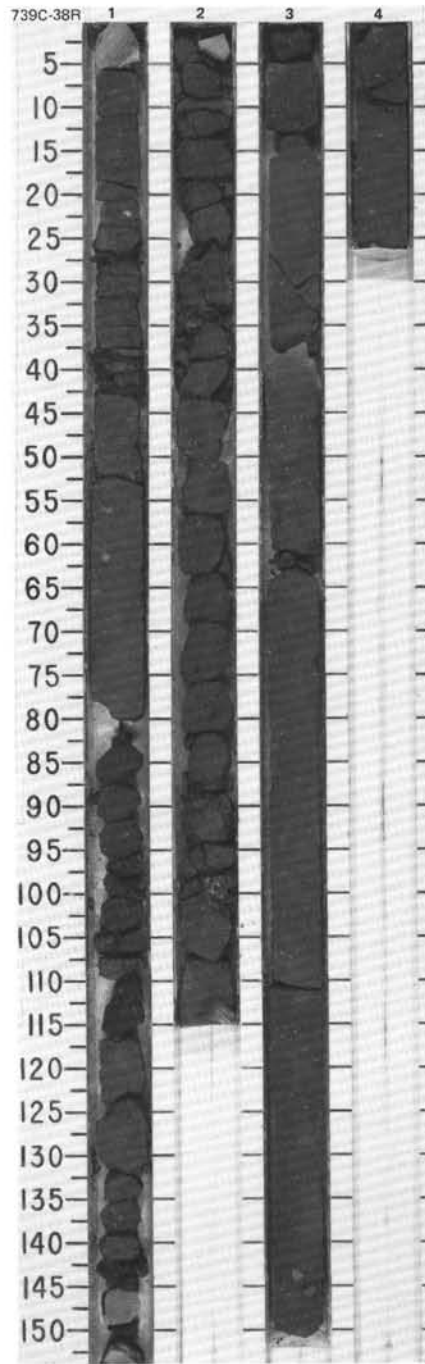


SITE 739 HOLE C CORE 37R CORED INTERVAL 289.3-298.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS										
LOWER OLILOCENE	B	R/G	F/P	O	0-4.2% 7-2.31 1-1.3 V=20% W=20% X _{CaCO₃} =1.5 X _{TOC} =0.72		1	0.5 1.0				*	<p>DIAMICTITE</p> <p>Major lithology: Diamictite (silty clay with sand and gravel, also diatoms), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted but friable. Slight variations in sand and gravel content are visible in the core.</p> <p>Clasts are mostly < 2 cm in diameter; the largest is 4.5 cm across.</p> <p>Average gravel content: Section 1, 0-10 cm, 5% 10-25 cm, 10% 25-100 cm, 5%</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">1, 70 D</p> <p>TEXTURE:</p> <p>Sand 15 Silt 35 Clay 50</p> <p>COMPOSITION:</p> <p>Access. Minerals Tr Amphibole Tr Clay 35 Diatoms 15 Feldspar 2 Glass Tr Nannofossils Tr Opacites 2 Palagonite Tr Quartz 45 Silicoflagellates Tr</p>



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION			
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS													
LOWER OLILOCENE	B				̳ = 2.15 V = 22.10 ̳ = 36% ̳ = 1.6% W = 18% ̳ = 2.21 ̳ = 1.7% ̳ = 2.23 ̳ = 2.27 * 1.1 X TOC = 0.64 * X CaCO ₃ = 1.2 * X TOC = .87 * X CaCO ₃ = 1.5 * X CaCO ₃ = 1.3 * X CaCO ₃ = 1.5 * X CaCO ₃ = 1.5												
	R/M																
	B																
	F/P																



DIAMICTITE

Major lithology:
Diamictite (silty clay with sand and gravel, also diatoms), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, very friable.

Minor lithology:
Clayey silt, laminated but mainly totally fractured; Section 1, 39-40 cm.
Clasts are mostly <1 cm in diameter; the largest is 3 cm.

Average gravel content:
Section 1, 10%
Section 2, 5%
Section 3, 5%
Section 4, 5%

SMEAR SLIDE SUMMARY (%):

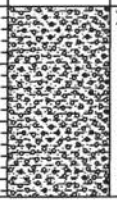
	1, 70	3, 100
D		D

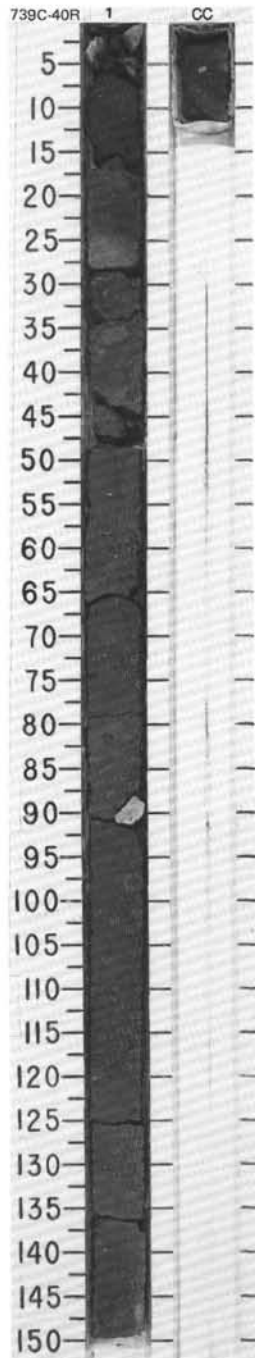
TEXTURE:

Sand	15	15
Silt	40	40
Clay	45	45

COMPOSITION:

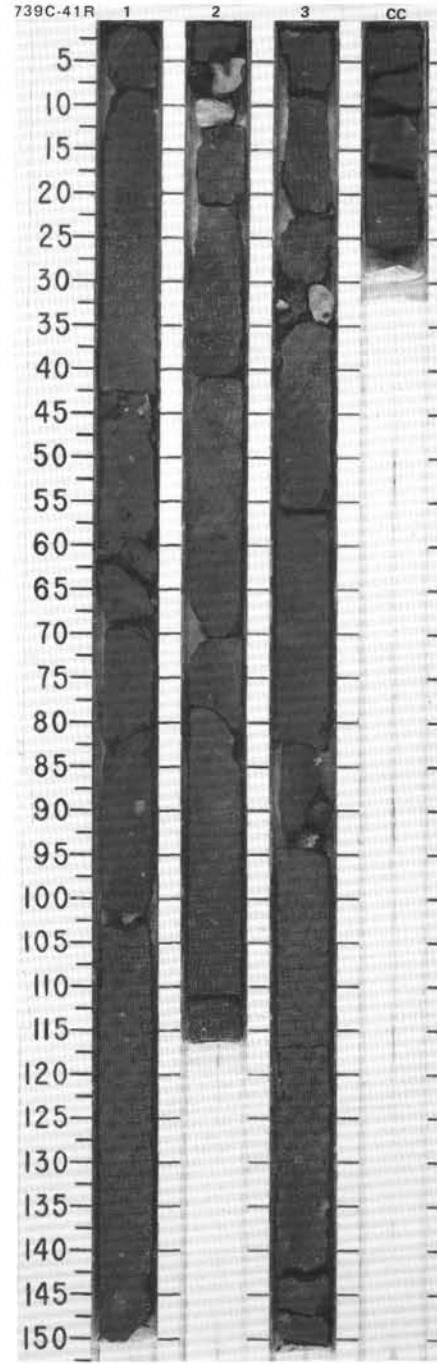
Access. Minerals	Tr	Tr
Amphibole	1	Tr
Clay	25	35
Diatoms	10	7
Feldspar	5	5
Glass	-	Tr
Nannofossils	Tr	Tr
Opauques	1	3
Palagonite	1	Tr
Quartz	55	50

TIME- ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																													
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																							
B	R/M	B	B		● V=2128 W=13X ● V=2189 ● V=2225 ● V=2281	● XCFCO ₃ ● XCFCO ₃ ● XCFCO ₃ ● XCFCO ₃ ● XCFCO ₃ ● XCFCO ₃	● *1.2 ● *1.2 ● *1.2 ● *1.0 ● *1.0	1 1		X		* *	<p>DIAMICTITE WITH MINOR CALCITE</p> <p>Major lithology: Diamicrite with minor calcite, and locally calcareous diamicrite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1) and dark olive gray (5Y 3/2), massive, non-stratified, poorly sorted. Section 1, 26-29 cm contains a lighter dark greenish gray (10Y 5/1) layer with gradational upper and lower boundaries.</p> <p>Clasts are mostly <1 cm in diameter; angular to subangular with <3% rounded to subrounded. The clasts are composed of quartz and various metamorphic lithologies. Gravel content 2-5% but with the lowest gravel content of about 2% in Section 1, 41-99 cm.</p> <p>SMEAR SLIDE SUMMARY (%)</p> <table style="margin-left: 20px;"> <tr> <td></td> <td>1, 26</td> <td>1, 73</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table style="margin-left: 20px;"> <tr> <td>Sand</td> <td>20</td> <td>50</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table style="margin-left: 20px;"> <tr> <td>Clay</td> <td>3</td> <td>10</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>5</td> </tr> <tr> <td>Micrite</td> <td>65</td> <td>—</td> </tr> <tr> <td>Opauques</td> <td>—</td> <td>10</td> </tr> <tr> <td>Quartz</td> <td>25</td> <td>70</td> </tr> </table>		1, 26	1, 73		M	D	Sand	20	50	Silt	20	30	Clay	60	20	Clay	3	10	Feldspar	3	5	Micrite	65	—	Opauques	—	10	Quartz	25	70
	1, 26	1, 73																																									
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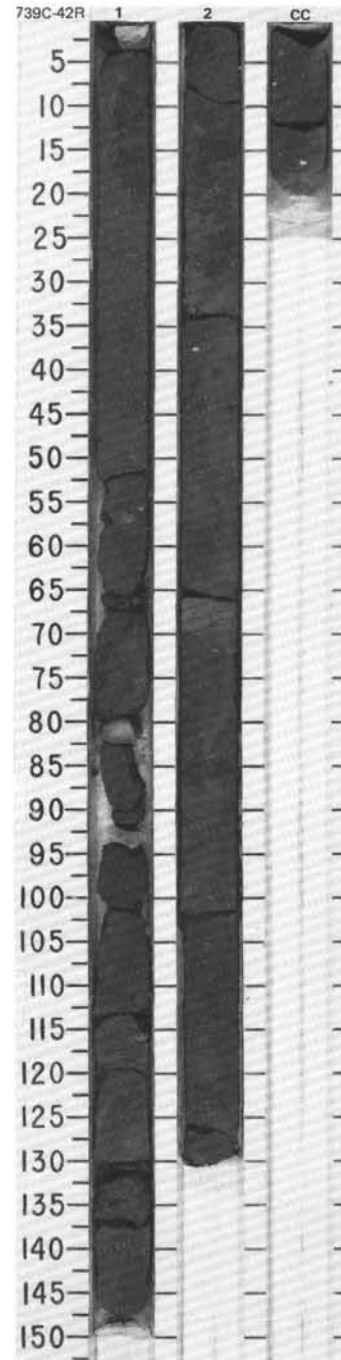


SITE 739 HOLE C CORE 41R CORED INTERVAL 327.8-337.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NAANOFOSSELS	RADIOLARIANS	DIATOMS																																																	
	R/M								0.5					<p>DIAMICTITE with MINOR CALCITE</p> <p>Major lithology: Diamictite with minor calcite (clay-silt-sand with minor gravel), dark greenish gray (10Y 4/1), dark gray (unnamed color 7.5GY 3/1) and very dark gray (5Y 3/1), massive, non-stratified, poorly sorted.</p> <p>Clasts are mostly <0.5 cm in diameter with the largest unbroken clast 7 cm in diameter, most are subangular to subrounded and composed of quartz, zeolites (fibrous), red sandstone, black carbonaceous shale, granite and metamorphic lithologies. Gravel content 2-7%.</p> <p>Average gravel content; Section 1, 2% Section 2, 5.7% Section 3, 1-3% CC, 2%</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 75</td> <td>3, 52</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>20</td> <td>60</td> </tr> <tr> <td>Silt</td> <td>20</td> <td>25</td> </tr> <tr> <td>Clay</td> <td>60</td> <td>15</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Amphibole</td> <td>-</td> <td>3</td> </tr> <tr> <td>Clay</td> <td>50</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>1</td> </tr> <tr> <td>Micrite</td> <td>10</td> <td>15</td> </tr> <tr> <td>Microsparite</td> <td>3</td> <td>-</td> </tr> <tr> <td>Opaques</td> <td>-</td> <td>2</td> </tr> <tr> <td>Palagonite</td> <td>-</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>30</td> <td>60</td> </tr> </table>		1, 75	3, 52	D		D	Sand	20	60	Silt	20	25	Clay	60	15	Amphibole	-	3	Clay	50	15	Feldspar	3	1	Micrite	10	15	Microsparite	3	-	Opaques	-	2	Palagonite	-	1	Quartz	30	60
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TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																																																		
	FORAMINIFERS	MAMMOFOSSILS	RADOLARIANS	DIATOMS																																																																																																																												
B	R/M	B	B		V=2107 W=13X	$\phi = 29\%$ $\gamma = 1.89$ $\mu = 1.7X$ $\sigma = 2.03$	$\%CaCO_3 = 0.6$ $\%CaCO_3 = 0.4$	1	0.5 1.0	[Graphic Lithology: Sand silt-clay with minor gravel]				<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1) with <1% diatoms; massive, non-stratified, poorly sorted. Section 1, 112-130 cm, contains paler olive (5Y 4/3) diffuse layers; Section 2, 65-70 cm contains a paler gray (5Y 6/1) band with sharp base and top. Smear slide examination, Section 2, 79-80 cm, shows two very well rounded quartz grains of possible aeolian origin.</p> <p>Clasts are mostly <0.5 cm in diameter with the largest clast 4 cm in diameter; clasts are angular to subangular and composed mainly of quartz, granite, gneiss and schist. Gravel content averages 1-2% but is variable with less gravel (about 1%) in Section 2.</p> <p>Drilling disturbance: Section 2, contains dark, convex-up (bowed) bands 2-3 mm thick spaced 2-10 cm apart; these are caused by rotation of the core barrel and the development of conical shear zones.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>2, 40</th> <th>2, 66</th> <th>2, 78</th> <th>2, 79</th> <th>2, 114</th> </tr> <tr> <th></th> <th>M</th> <th>M</th> <th>D</th> <th>M</th> <th>M</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>50</td> <td>33</td> <td>60</td> <td>60</td> <td>55</td> </tr> <tr> <td>Silt</td> <td>30</td> <td>33</td> <td>30</td> <td>25</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>33</td> <td>10</td> <td>15</td> <td>15</td> </tr> </tbody> </table> <p>TEXTURE:</p> <table border="1"> <thead> <tr> <th></th> <th>2, 40</th> <th>2, 66</th> <th>2, 78</th> <th>2, 79</th> <th>2, 114</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>50</td> <td>33</td> <td>60</td> <td>60</td> <td>55</td> </tr> <tr> <td>Silt</td> <td>30</td> <td>33</td> <td>30</td> <td>25</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>33</td> <td>10</td> <td>15</td> <td>15</td> </tr> </tbody> </table> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>2, 40</th> <th>2, 66</th> <th>2, 78</th> <th>2, 79</th> <th>2, 114</th> </tr> </thead> <tbody> <tr> <td>Amphibole</td> <td>—</td> <td>—</td> <td>—</td> <td>1</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>3</td> <td>5</td> <td>16</td> <td>15</td> </tr> <tr> <td>Diatoms</td> <td>—</td> <td>—</td> <td>Tr</td> <td>Tr</td> <td>—</td> </tr> <tr> <td>Feldspar</td> <td>3</td> <td>1</td> <td>5</td> <td>2</td> <td>2</td> </tr> <tr> <td>Micrite</td> <td>3</td> <td>33</td> <td>15</td> <td>7</td> <td>10</td> </tr> <tr> <td>Microsparite</td> <td>—</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> </tr> <tr> <td>Opaques</td> <td>30</td> <td>—</td> <td>—</td> <td>1</td> <td>1</td> </tr> <tr> <td>Quartz</td> <td>40</td> <td>60</td> <td>70</td> <td>65</td> <td>65</td> </tr> <tr> <td>Sparite</td> <td>—</td> <td>—</td> <td>—</td> <td>3</td> <td>—</td> </tr> </tbody> </table>		2, 40	2, 66	2, 78	2, 79	2, 114		M	M	D	M	M	Sand	50	33	60	60	55	Silt	30	33	30	25	30	Clay	20	33	10	15	15		2, 40	2, 66	2, 78	2, 79	2, 114	Sand	50	33	60	60	55	Silt	30	33	30	25	30	Clay	20	33	10	15	15		2, 40	2, 66	2, 78	2, 79	2, 114	Amphibole	—	—	—	1	1	Clay	20	3	5	16	15	Diatoms	—	—	Tr	Tr	—	Feldspar	3	1	5	2	2	Micrite	3	33	15	7	10	Microsparite	—	—	—	—	3	Opaques	30	—	—	1	1	Quartz	40	60	70	65	65	Sparite	—	—	—	3	—
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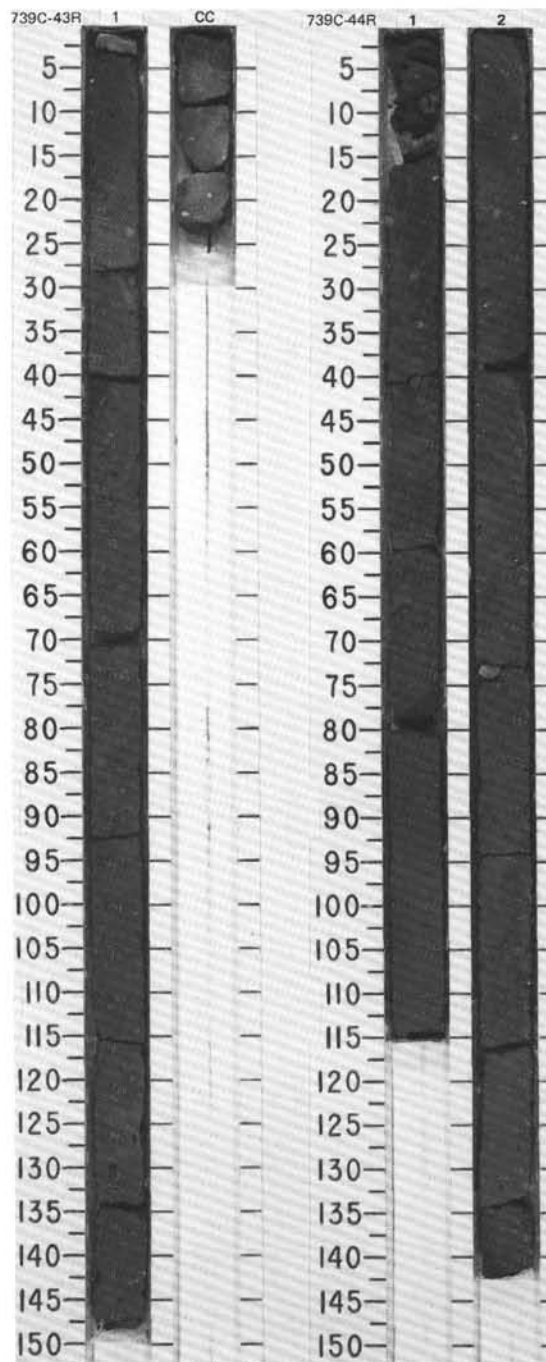



SITE 739 HOLE C CORE 43R CORED INTERVAL 347.1-356.8 mbsf

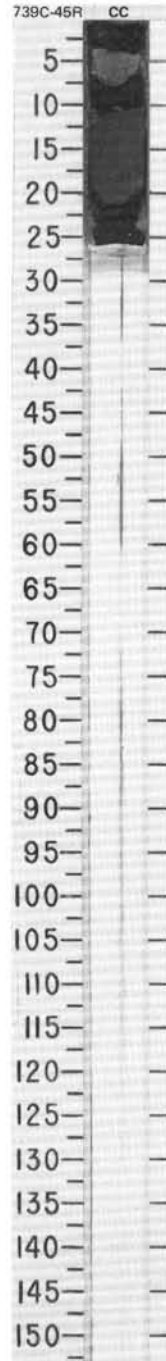
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
	B				•	V=2313 W=112K • 2.7% • 2.03	%CaCO ₃ =17.9	1	0.5 1.0					DIAMICTITE Major lithology: Diamictite (sand-silt-clay and clay-silt-sand with minor gravel) very dark gray (5Y 3/1), massive, non-stratified, poorly sorted. Clasts are mostly 2-4 mm in diameter with the largest unbroken clast 7 cm in diameter; clasts are angular, subangular and subrounded, and composed of quartz, granite, shale and metamorphic rocks. Gravel content is not more than 2.3%; long axes of elongate clasts aligned at high angle to horizontal in Section 1, 61 cm, possibly indicating a slump.
	B				•		%CaCO ₃ =0.8	CC						

SITE 739 HOLE C CORE 44R CORED INTERVAL 356.8-366.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
	R/M				○	V=2220 W=112K • 2.7% • 2.03	%CaCO ₃ =0.8	1	0.5 1.0					DIAMICTITE with MINOR CALCITE Major lithology: Diamictite (clay-silt-sand with minor gravel) with minor calcite, very dark gray (5Y 3/1) to dark gray (2.5Y 4/1), massive, non-stratified, poorly sorted. Shell fragment in Section 2, 63 cm. Clasts are mostly <1 cm in diameter with the largest clast 2 cm in diameter; clasts are angular, subangular and subrounded, and composed of quartz, gneiss, granite, felsite, light olive brown (2.5Y 5/3) sandstone and volcanic material. Gravel content very low, only 1-2%, but variable with parts of Section 2, <1%. Drilling disturbance: Section 1, 0-15 cm, downhole contamination.
	R/M				○	V=2220 W=112K • 2.7% • 2.03	%CaCO ₃ =0.8	2					OG IW	SMEAR SLIDE SUMMARY (%): TEXTURE: COMPOSITION:
	B				○	V=2220 W=112K • 2.7% • 2.03	%CaCO ₃ =0.8	CC		VOID			**	2, 61 2, 70 D D Sand 50 55 Silt 35 30 Clay 15 15 Amphibole 1 Tr Clay 15 20 Feldspar 2 1 Micrite 7 10 Microsparite 5 5 Nannofossils Tr - Opaques - 1 Palagonite - Tr Quartz 65 60

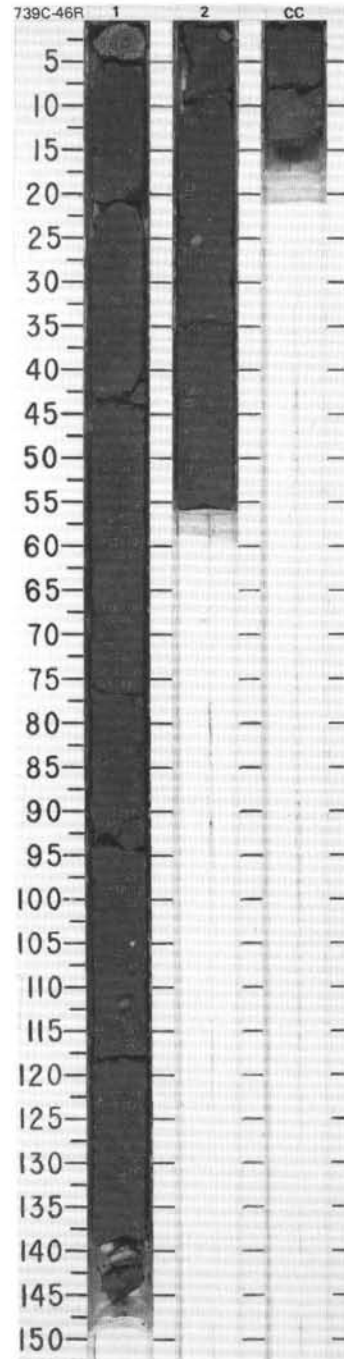


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAHOME																																	
	B	B		B			CC					*	<p>DIAMICTITE</p> <p>Major lithology: Diamicite (clay-silt-sand with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted.</p> <p>Clasts are mostly 2-4 mm in diameter, angular to subangular and rounded, and composed of quartz with large (3-4 cm in diameter) clasts of gray (5Y 4/1) carbonaceous, burrowed sandstone. Gravel content is only about 1%.</p> <p>Drilling disturbance: Only core catcher recovered; 5-9 cm clast in core-catcher probably from hole contamination; lower 3-4 cm is soft, sticky diamicite.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table style="margin-left: 20px;"> <tr><td>CC</td><td>10</td></tr> <tr><td>D</td><td></td></tr> </table> <p>TEXTURE:</p> <table style="margin-left: 20px;"> <tr><td>Sand</td><td>50</td></tr> <tr><td>Silt</td><td>15</td></tr> <tr><td>Clay</td><td>35</td></tr> </table> <p>COMPOSITION:</p> <table style="margin-left: 20px;"> <tr><td>Clay</td><td>35</td></tr> <tr><td>Feldspar</td><td>2</td></tr> <tr><td>Micrite</td><td>3</td></tr> <tr><td>Microsparite</td><td>2</td></tr> <tr><td>Nannofossils</td><td>1</td></tr> <tr><td>Opauques</td><td>5</td></tr> <tr><td>Quartz</td><td>50</td></tr> </table>	CC	10	D		Sand	50	Silt	15	Clay	35	Clay	35	Feldspar	2	Micrite	3	Microsparite	2	Nannofossils	1	Opauques	5	Quartz	50
CC	10																																				
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Nannofossils	1																																				
Opauques	5																																				
Quartz	50																																				



SITE 739 HOLE C CORE 46R CORED INTERVAL 376.2-385.9 mdsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									
	B	B	B					0.5 1.0			*	<p>DIAMICTITE</p> <p>Major lithology: Diamictite (silt-sand-clay with minor gravel), very dark gray (5Y 3/1) with a trace of nannofossils; massive, non-stratified, poorly sorted. Fine stringer, 1-1.5 cm long of granule conglomerate in section 1, 74 cm; a pale olive gray (5Y 4/2) finer textured, diffuse zone occurs in Section 1, 85-91 cm.</p> <p>Clasts are mostly < 1cm in diameter with the largest clast 3 cm in diameter; clasts are angular, subangular and subrounded, and composed mainly of quartz, pyrite and sandstone. Gravel content is about 1-3% throughout the core.</p> <p>Drilling disturbance: Black, convex-up (bowed), fine mm-scale bands some 2-10 cm apart occur in Section 2, and in the core catcher; these are caused by core barrel rotation during drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>1, 35 D</p> <p>TEXTURE:</p> <p>Sand 30 Silt 25 Clay 45</p> <p>COMPOSITION:</p> <p>Clay 40 Feldspar 5 Micrite 5 Nannofossils Tr Opauques 10 Quartz 35</p>

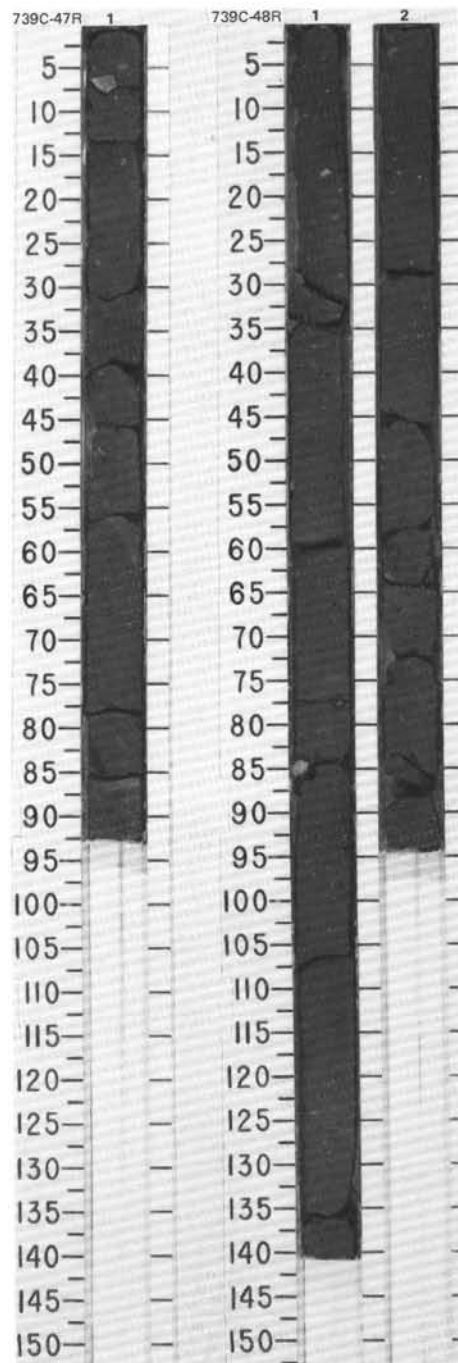


SITE 739 HOLE C CORE 47R CORED INTERVAL 385.9-395.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																				
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																														
R/M	B							1	0.5				*	<p>DIAMICTITE with MINOR CALCITE</p> <p>Major lithology: Diamictonite (clay-silt-sand with minor gravel) with minor calcite (locally calcareous diamictonite), dark olive gray (5Y 3/2), massive, non-stratified, poorly sorted; a paler gray (5Y 5/1) band occurs in Section 1, 86-87 cm.</p> <p>Clasts are up to 1 cm in diameter, mostly angular to subangular and subrounded, and composed of quartz, some with pyritic rims, and gneiss. Gravel content varies from < 1-3% in Section 1, 0-30 cm and 50-93 cm; otherwise < 1%.</p> <p>Drilling disturbance: Black mm-scale convex up (bowed) bands, 7-10 cm apart, caused by drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table> <tr><td>1, 85</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table> <tr><td>Sand</td><td>50</td></tr> <tr><td>Silt</td><td>30</td></tr> <tr><td>Clay</td><td>20</td></tr> </table> <p>COMPOSITION:</p> <table> <tr><td>Amphibole</td><td>1</td></tr> <tr><td>Clay</td><td>20</td></tr> <tr><td>Feldspar</td><td>2</td></tr> <tr><td>Micrite</td><td>30</td></tr> <tr><td>Quartz</td><td>40</td></tr> <tr><td>Sparite</td><td>2</td></tr> </table>	1, 85	D	Sand	50	Silt	30	Clay	20	Amphibole	1	Clay	20	Feldspar	2	Micrite	30	Quartz	40	Sparite	2
1, 85																																		
D																																		
Sand	50																																	
Silt	30																																	
Clay	20																																	
Amphibole	1																																	
Clay	20																																	
Feldspar	2																																	
Micrite	30																																	
Quartz	40																																	
Sparite	2																																	

SITE 739 HOLE C CORE 48R CORED INTERVAL 395.6-405.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																		
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																												
B	B	B	B	B				1	0.5				*	<p>DIAMICTITE</p> <p>Major lithology: Diamictonite (clay-silt-sand with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted; Section 1, 58-65 cm, shows long axes orientation of elongate clasts dipping at high angle to bedding.</p> <p>Clasts are up to 1.5 cm in diameter with the largest clasts concentrated in Section 1, 121-136 cm; clasts are angular, subangular and subrounded, and composed of quartz, pyritic quartz, igneous and metamorphic lithologies, and black coaly shale. Gravel content is 5% in Section 1, and 2% in Section 2.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table> <tr><td>1, 49</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table> <tr><td>Sand</td><td>50</td></tr> <tr><td>Silt</td><td>30</td></tr> <tr><td>Clay</td><td>20</td></tr> </table> <p>COMPOSITION:</p> <table> <tr><td>Clay</td><td>15</td></tr> <tr><td>Diatoms</td><td>Tr</td></tr> <tr><td>Feldspar</td><td>5</td></tr> <tr><td>Micrite</td><td>7</td></tr> <tr><td>Quartz</td><td>70</td></tr> </table>	1, 49	D	Sand	50	Silt	30	Clay	20	Clay	15	Diatoms	Tr	Feldspar	5	Micrite	7	Quartz	70
1, 49																																
D																																
Sand	50																															
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Diatoms	Tr																															
Feldspar	5																															
Micrite	7																															
Quartz	70																															
								2	1.0				IW																			

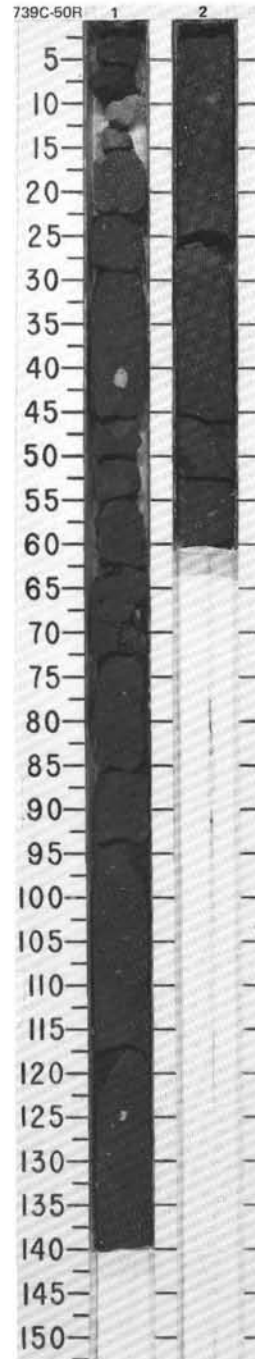


SITE 739 HOLE A CORE 49R CORED INTERVAL 405.2-414.9 mbsf

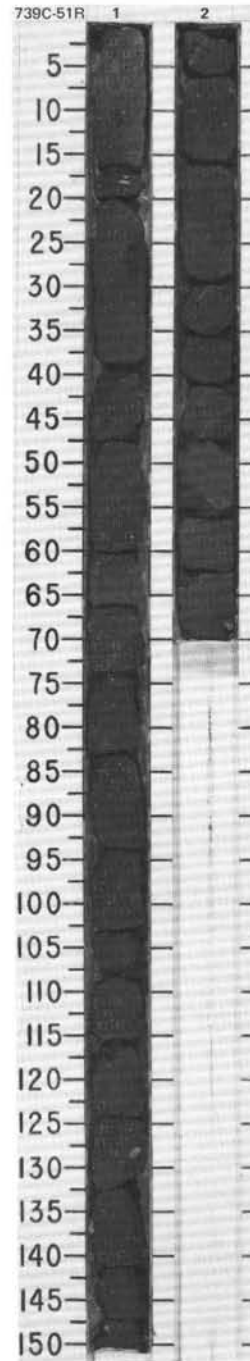
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
	B	B	B	B			%CaCO ₃ = 0.7 %TOC = 0.84	CC		VOID			

SITE 739 HOLE C CORE 50R CORED INTERVAL 414.9-424.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																														
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																							
	B	B	B	B	O	V = 2020 W = 135 %CaCO ₃ = 1.1 %TOC = 0.73	1 2	0.5 1.0					<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted; more sandy in character in Section 2.</p> <p>Clasts are mostly < 1 cm in diameter; clasts are angular, subangular and subrounded, and composed mainly of quartz, altered pyrite-bearing micaceous quartzite and yellow micaceous sandstone. Gravel content is 1-5% but variable.</p> <p>Average gravel content: Section 1, 15-40 cm, 2-3% 46-95 cm, 1% 95-140 cm, 5% Section 2, 2% gravel throughout</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 62</td> <td>2, 53</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>75</td> <td>40</td> </tr> <tr> <td>Silt</td> <td>15</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>30</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>12</td> <td>25</td> </tr> <tr> <td>Feldspar</td> <td>—</td> <td>5</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>5</td> </tr> <tr> <td>Opauques</td> <td>5</td> <td>7</td> </tr> <tr> <td>Quartz</td> <td>80</td> <td>55</td> </tr> </table>		1, 62	2, 53		M	D	Sand	75	40	Silt	15	30	Clay	10	30	Clay	12	25	Feldspar	—	5	Micrite	—	5	Opauques	5	7	Quartz	80	55
	1, 62	2, 53																																									
	M	D																																									
Sand	75	40																																									
Silt	15	30																																									
Clay	10	30																																									
Clay	12	25																																									
Feldspar	—	5																																									
Micrite	—	5																																									
Opauques	5	7																																									
Quartz	80	55																																									

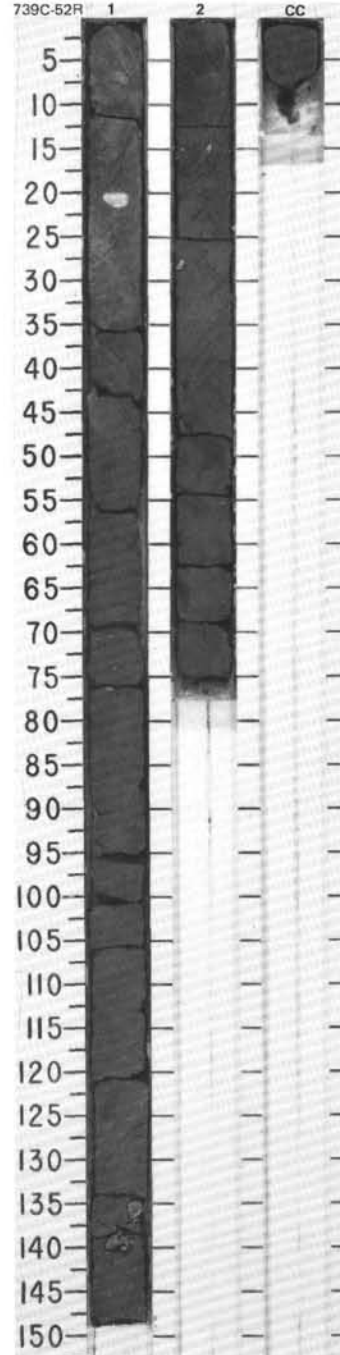


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																						
	FORAMINIFERS	NANNOFOSSILS	RADOLARIANS	DIATOMS																																
					•	V=2009 W=1.3% γ=2.35	%CaCO ₃ =0.6	1	0.5				*	<p>CALCAREOUS DIAMICTITE and DIAMICTITE</p> <p>Major lithology: Calcareous diamictite and diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted; small specks of pyrite disseminated throughout core.</p> <p>Clasts are mostly 2-4 mm in diameter, angular to subangular and subrounded; they are composed mainly of quartz, pyritic quartz and igneous and metamorphic rock types. Gravel content is 1-3%.</p> <p>Average gravel content: Section 1, 0-15 cm, 2-3% 15-150 cm, 1% Section 2, 1% throughout.</p> <p>Drilling disturbance: Section 2, moderately fractured.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>1, 60</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>10</td></tr> <tr><td>Silt</td><td>60</td></tr> <tr><td>Clay</td><td>30</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Amphibole</td><td>1</td></tr> <tr><td>Clay</td><td>30</td></tr> <tr><td>Feldspar</td><td>1</td></tr> <tr><td>Micrite</td><td>7</td></tr> <tr><td>Microsparite</td><td>40</td></tr> <tr><td>Opalines</td><td>1</td></tr> <tr><td>Quartz</td><td>15</td></tr> </table>	1, 60	D	Sand	10	Silt	60	Clay	30	Amphibole	1	Clay	30	Feldspar	1	Micrite	7	Microsparite	40	Opalines	1	Quartz	15
1, 60																																				
D																																				
Sand	10																																			
Silt	60																																			
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Amphibole	1																																			
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Feldspar	1																																			
Micrite	7																																			
Microsparite	40																																			
Opalines	1																																			
Quartz	15																																			
					•	V=2082 W=1.4% γ=2.24	%CaCO ₃ * 1.2 XTOC=0.46	2	1.0																											
					•			CC		VOID																										

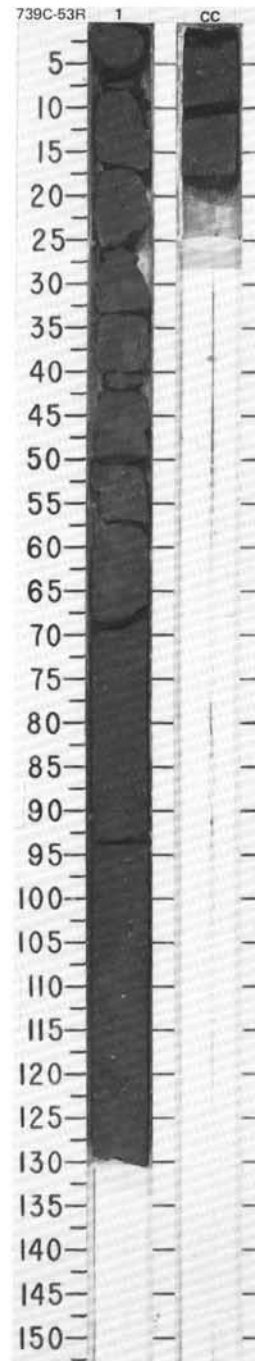


SITE 739 HOLE C CORE 52R CORED INTERVAL 434.2-439.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																								
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																		
B	B							0.5 1 1.0 2						<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sandy siltstone with minor clay and gravel), dark gray (5Y 4/1), massive, non-stratified, poorly sorted; Section 1, coarsens upwards, becoming more sandy in the upper 40 cm; pyrite specks are disseminated throughout the core.</p> <p>Clasts are mostly < 4 mm in diameter with the largest clast 1.2 cm in diameter. Clasts are angular to subrounded and rounded, and composed of quartz, quartzite and various igneous and metamorphic rock types. Gravel content low at about 1% throughout the core.</p> <p>Drilling disturbance: Section 1, black mm-scale convex-up (bowed) bands due to drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>CC, 3</td> </tr> <tr> <td></td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>70</td> </tr> <tr> <td>Clay</td> <td>10</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Clay</td> <td>20</td> </tr> <tr> <td>Feldspar</td> <td>7</td> </tr> <tr> <td>Glauconite</td> <td>Tr</td> </tr> <tr> <td>Micrite</td> <td>2</td> </tr> <tr> <td>Opakes</td> <td>10</td> </tr> <tr> <td>Pyroxene</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>55</td> </tr> </table>		CC, 3		M	Sand	20	Silt	70	Clay	10	Clay	20	Feldspar	7	Glauconite	Tr	Micrite	2	Opakes	10	Pyroxene	2	Quartz	55
	CC, 3																																					
	M																																					
Sand	20																																					
Silt	70																																					
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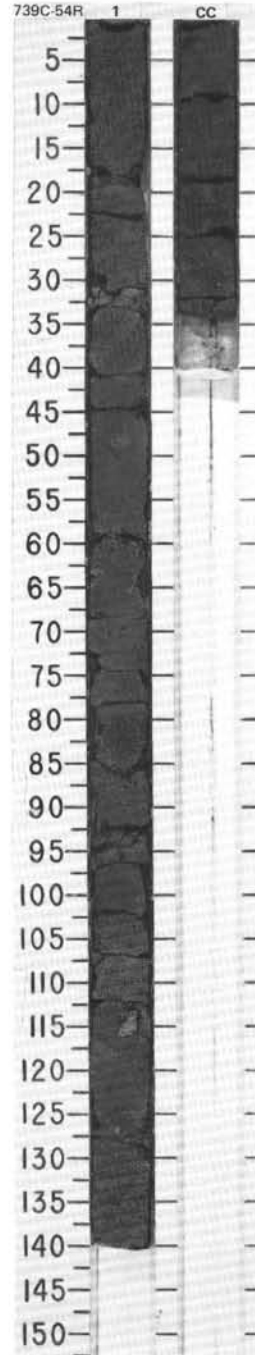


TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAKNOFOSSILS	RADIOLARIANS	DIATOMS										
B					● O	V=2076 W=10X	%CFCO ₃ +0.8	1	0.5 1.0		/	/	*	<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted but friable. Slight variations in sand and gravel content are visible in the core.</p> <p>Clasts are less than 0.5 cm in diameter. Clasts include in decreased order of importance quartzite, sulfide-bearing quartz clasts, biotite, fine grained gneiss, biotite-garnet-cordierite medium grained gneiss, augen-gneiss. Most of them are subrounded. Average gravel content in Section 1 and in the core catcher is 1%.</p> <p>Drilling disturbance: Numerous darker, black (5Y 2.5/1) convex-up bands occur in Section 1, 66 to 130 cm, and convex-down ones in the core catcher. The bands have a thickness of about 1 mm and occur every 1 to 3 cm. They are thought to be due to drilling. The core catcher is probably upside down, because the darker bands are opposite to Section 1.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>1, 80 D</p> <p>TEXTURE:</p> <p>Sand 20 Silt 60 Clay 20</p> <p>COMPOSITION:</p> <p>Access. Minerals Tr Amphibole Tr Clay 15 Feldspar 2 Opacues 7 Palagonite 1 Quartz 75</p>

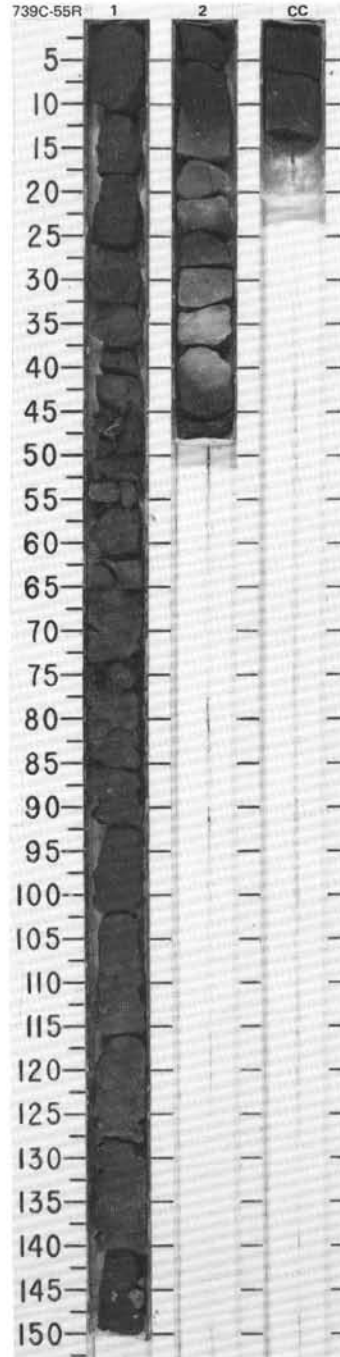


SITE 739 HOLE C CORE 54R CORED INTERVAL 443.9-448.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAUPOSSILLS	RADIOLARIANS	DIATOMS										
	B	B			●	V-2133 W-17% Y-2.29	%CaCO ₃ +0.4	1	0.5 1.0				*	DIAMICTITE Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted but friable. Slight variations in sand and gravel content are visible in the core. The largest clast is 3 cm in diameter. Clasts include one piece of sulfide-bearing, deformed pegmatite. Average gravel content in Section 1 and in the core catcher is about 1%. Drilling disturbance: Numerous darker bands, which are convex-up, occur in Section 1, 105 to 140 cm and in the core catcher. They have thicknesses of around 1 mm and are due to drilling. SMEAR SLIDE SUMMARY (%): 1, 80 D TEXTURE: Sand 20 Silt 45 Clay 35 COMPOSITION: Access. Minerals Tr Amphibole 2 Clay 25 Feldspar 5 Opacites 5 Palagonite Tr Quartz 65
					●	V-1903 W-17% Y-2.19	%CaCO ₃ +0.4	CC						

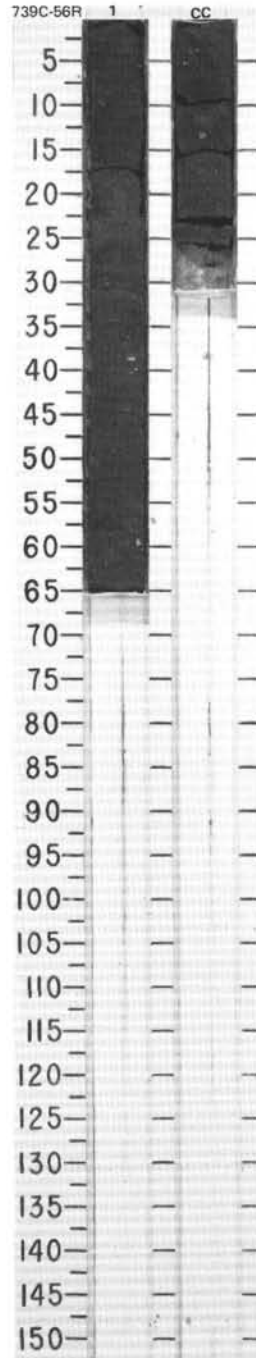


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																																	
B	B				●	V=1882 W=14%	XCaCO ₃ =0.7	1	0.5 1.0			*		<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted but friable. Slight variations in sand and gravel content are visible in the core.</p> <p>Clasts are mostly < 1 cm in diameter, the largest being 3.5 cm. Clasts include in decreased order of importance: magnetite-quartz gneiss, fine grained dark mafic gneiss, quartz-feldspar-garnet-biotite gneiss. The average gravel content is about 1% throughout the core.</p> <p>A very hard, carbonate-cemented zone occurs in Section 2, 10 to 45 cm. Its upper boundary is gradual.</p> <p>Drilling disturbance: A few black (5Y 2.5/1) bands are visible in Section 1 at 83 cm, 87 cm and at 132 cm. They appear to be horizontal. In the core catcher they are convex-up. These bands occur where the core is heavily eroded during drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 70</td> <td>2, 36</td> </tr> <tr> <td></td> <td>D</td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>25</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>45</td> <td>50</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>45</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>2</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>25</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>5</td> <td>1</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>60</td> </tr> <tr> <td>Opalines</td> <td>3</td> <td>2</td> </tr> <tr> <td>Palagonite</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>65</td> <td>20</td> </tr> </table>		1, 70	2, 36		D	M	Sand	25	5	Silt	45	50	Clay	30	45	Access. Minerals	Tr	Tr	Amphibole	2	Tr	Clay	25	15	Feldspar	5	1	Micrite	—	60	Opalines	3	2	Palagonite	Tr	Tr	Quartz	65	20
	1, 70	2, 36																																																			
	D	M																																																			
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Silt	45	50																																																			
Clay	30	45																																																			
Access. Minerals	Tr	Tr																																																			
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Palagonite	Tr	Tr																																																			
Quartz	65	20																																																			
						XCaCO ₃ =0.4	2	10 to 45			*																																										
						XCaCO ₃ =0.46	CC																																														

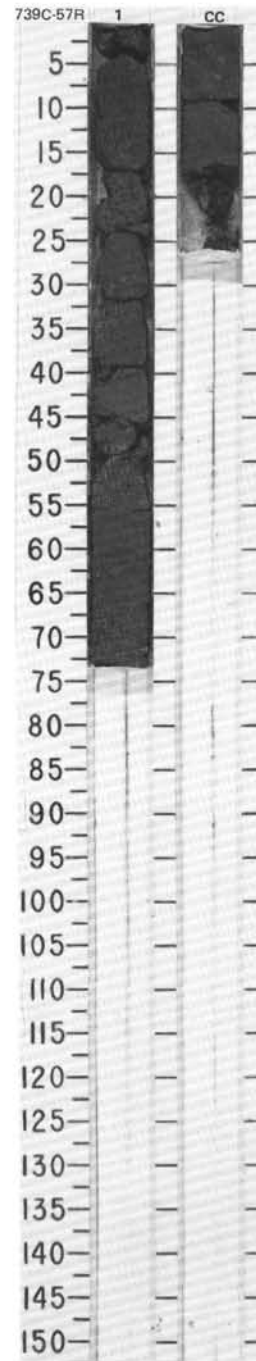


SITE 739 HOLE C CORE 56R CORED INTERVAL 453.5-458.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																					
	FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS											DIAZONES																				
B	B				V=2036 W=13% %CaCO ₃ = 0.4 %TDC=0.50 %CaCO ₃ = 0.4		1 0.5 C				*	<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted but friable. Slight variations in sand and gravel content are visible in the core. One slump features is visible in Section 1, 10 cm.</p> <p>Clasts are rarely a few cm in diameter, the largest being 7 cm. Average gravel content is 1-3% in Section 1, and 1% in the core catcher.</p> <p>Drilling disturbance: Some convex-up, black (5Y 2.5/1) bands occur in Section 1, 25 to 60 cm, and in the core catcher. They seem to be slightly enriched in sand and are believed to be produced during drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 40</td> </tr> <tr> <td></td> <td>0</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>40</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. Minerals</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>20</td> </tr> <tr> <td>Feldspar</td> <td>5</td> </tr> <tr> <td>Opacues</td> <td>1</td> </tr> <tr> <td>Palagonite</td> <td>3</td> </tr> <tr> <td>Quartz</td> <td>70</td> </tr> </table>		1, 40		0	Sand	20	Silt	40	Clay	40	Access. Minerals	Tr	Clay	20	Feldspar	5	Opacues	1	Palagonite	3	Quartz	70
	1, 40																																	
	0																																	
Sand	20																																	
Silt	40																																	
Clay	40																																	
Access. Minerals	Tr																																	
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Feldspar	5																																	
Opacues	1																																	
Palagonite	3																																	
Quartz	70																																	

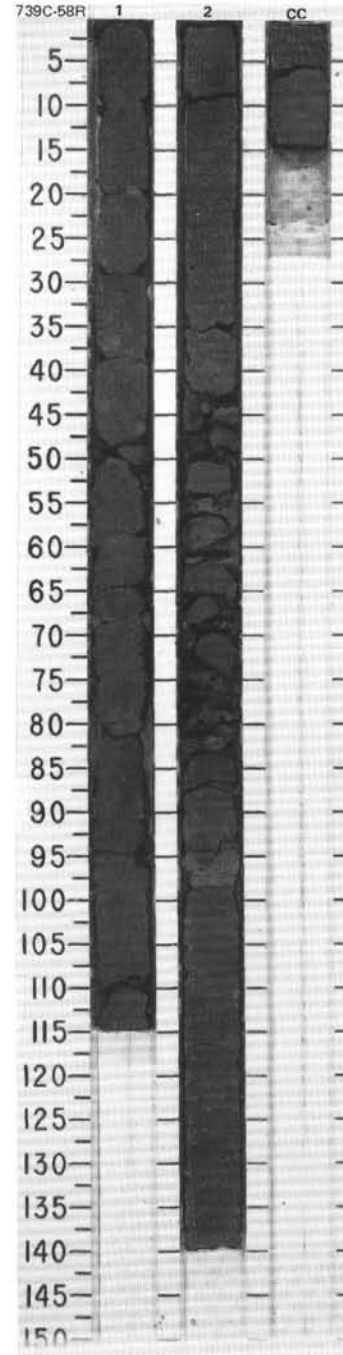


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAATOMS																																																
	B	B				V=2204 W=18% Z=2.23	X'CaCO ₃ =0.57	1 0.5 CC				*	<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted but friable. Slight variations in sand and gravel content are visible in the core.</p> <p>Clasts are mostly <1 cm in diameter, the largest being 3 cm. Clasts include one carbonate pebble. The average gravel content is <1% in Section 1, and 1% in the core catcher.</p> <p>Drilling disturbance: Some drilling derived convex-up bands, 2 to 3 mm thick, are present in Section 1, 44 to 72 cm, and in the core catcher.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 47</td> <td>1, 60</td> </tr> <tr> <td></td> <td>M</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>—</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>—</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>—</td> <td>40</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>Tr</td> <td>5</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>35</td> </tr> <tr> <td>Feldspar</td> <td>Tr</td> <td>2</td> </tr> <tr> <td>Micrite</td> <td>60</td> <td>—</td> </tr> <tr> <td>Opaques</td> <td>Tr</td> <td>3</td> </tr> <tr> <td>Palagonite</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>30</td> <td>55</td> </tr> </table>		1, 47	1, 60		M	D	Sand	—	20	Silt	—	40	Clay	—	40	Access. Minerals	Tr	Tr	Amphibole	Tr	5	Clay	10	35	Feldspar	Tr	2	Micrite	60	—	Opaques	Tr	3	Palagonite	—	Tr	Quartz	30	55
	1, 47	1, 60																																																		
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Opaques	Tr	3																																																		
Palagonite	—	Tr																																																		
Quartz	30	55																																																		



SITE 739 HOLE C CORE 58R CORED INTERVAL 463.2-468.2 mbsf

TIME - ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																							
	FORAMINIFERS	NANNOFOSSELS	RADIOLARIANS	DIATOMS																																																	
B					●●	$\gamma = 2.30$ ● $\gamma = 2.192$ ● $\gamma = 2.34$ ●	$\%CaCO_3 = 0.5$	1	0.5 1.0					<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted but friable. Slight variations in sand and gravel content are visible in the core.</p> <p>Clasts are mostly < 1 cm in diameter, the largest being 2 cm.</p> <p>Minor lithology: Clayey silt with < 1% gravel, "greenish black" (10Y 3/1—no color name available), soft; in Section 2, 43 to 84 cm.</p> <p>Average gravel content: Section 1, 1-3% Section 2, 0-43 cm, 1-3% 43-84 cm, < 1% 84-140 cm, 1-3% CC, < 1%</p> <p>Drilling disturbance: Darker, convex-up bands occur in Section 1, 55 to 100 cm, Section 2, 84 to 140 cm, and in the core catcher. The clayey silt in Section 2, 43 to 84 cm, is highly disturbed.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 90</td> <td>2, 53</td> </tr> <tr> <td>D</td> <td></td> <td>M</td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>30</td> <td>25</td> </tr> <tr> <td>Silt</td> <td>30</td> <td>45</td> </tr> <tr> <td>Clay</td> <td>40</td> <td>30</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Access. Minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>Tr</td> <td>1</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>30</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>15</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>1</td> </tr> <tr> <td>Opaques</td> <td>2</td> <td>2</td> </tr> <tr> <td>Palagonite</td> <td>2</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>50</td> <td>50</td> </tr> </table>		1, 90	2, 53	D		M	Sand	30	25	Silt	30	45	Clay	40	30	Access. Minerals	Tr	Tr	Amphibole	Tr	1	Clay	35	30	Feldspar	10	15	Glauconite	—	1	Opaques	2	2	Palagonite	2	Tr	Quartz	50	50
	1, 90	2, 53																																																			
D		M																																																			
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Opaques	2	2																																																			
Palagonite	2	Tr																																																			
Quartz	50	50																																																			
B					●●	$\gamma = 2.33$ ● $\gamma = 2.03$ ● $\gamma = 2.19$ ●	$\%CaCO_3 = 0.4$ ● $\%TOC = 0.55$ ● $\%CaCO_3 = 0.50$ ● $\%TOC = 0.50$ ●	2																																													
						$V = 19.77$ ● $\phi = 36\%$ ● $W = 1.8\%$ ● $\gamma = 2.19$ ●	$\%CaCO_3 = 0.3$ ● $\%TOC = 0.50$ ●	CC																																													



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																						
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS																																
	B				●	V=2054 W=17% X _{CaCO₃} =0.8 X _{TOC} =0.51	CC	1 0.5		VOID	✓	*		<p>DIAMICTITE</p> <p>Major lithology: Diamictite (clayey silt with minor sand and gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted but friable. Slight variations in sand and gravel content are visible in the core. Fine pyrite grains are present in Section 1, 52 cm and 56 cm.</p> <p>The largest clast is 3 cm in diameter. The average gravel content is about 1% throughout the core.</p> <p>Drilling disturbance: Some darker bands generated during drilling occur in Section 1, 20 to 60 cm. The degree of curvature varies. The largest distortion appears just above a larger clast in Section 1, 44 cm.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table style="margin-left: 40px;"> <tr><td>1, 40</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table style="margin-left: 40px;"> <tr><td>Sand</td><td>10</td></tr> <tr><td>Silt</td><td>55</td></tr> <tr><td>Clay</td><td>35</td></tr> </table> <p>COMPOSITION:</p> <table style="margin-left: 40px;"> <tr><td>Access. Minerals</td><td>Tr</td></tr> <tr><td>Amphibole</td><td>Tr</td></tr> <tr><td>Clay</td><td>20</td></tr> <tr><td>Feldspar</td><td>5</td></tr> <tr><td>Opacites</td><td>7</td></tr> <tr><td>Palagonite</td><td>2</td></tr> <tr><td>Quartz</td><td>65</td></tr> </table>	1, 40	D	Sand	10	Silt	55	Clay	35	Access. Minerals	Tr	Amphibole	Tr	Clay	20	Feldspar	5	Opacites	7	Palagonite	2	Quartz	65
1, 40																																				
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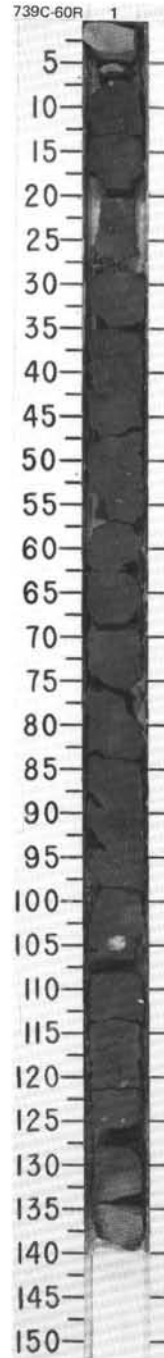


SITE 739 HOLE C CORE 60R CORED INTERVAL 472.9-477.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																						
	FORAMINIFERS	NAANNOFOSSILS	RADIOLARIANS										DIATOMS																					
								0.5 1.0			*	<p>DIAMICTITE</p> <p>Major lithology: Diamictite (clayey silt with minor sand and gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted but friable. Slight variations in sand and gravel content are visible in the core.</p> <p>The largest clast is 3 cm in diameter. The average gravel content is 1% throughout the core.</p> <p>Two carbonate-cemented, hard zones occur in Section 1, 0 to 5 cm, and Section 1, 130 to 140 cm.</p> <p>Drilling disturbance: Black (5Y 2.5/1) convex-up bands are present in Section 1, 85 to 95 cm. They are due to drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td></td><td>1, 40</td></tr> <tr><td>0</td><td></td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>10</td></tr> <tr><td>Silt</td><td>55</td></tr> <tr><td>Clay</td><td>35</td></tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr><td>Access. Minerals</td><td>7</td></tr> <tr><td>Clay</td><td>25</td></tr> <tr><td>Feldspar</td><td>2</td></tr> <tr><td>Opaques</td><td>10</td></tr> <tr><td>Palagonite</td><td>3</td></tr> <tr><td>Quartz</td><td>60</td></tr> </table>		1, 40	0		Sand	10	Silt	55	Clay	35	Access. Minerals	7	Clay	25	Feldspar	2	Opaques	10	Palagonite	3	Quartz	60
	1, 40																																	
0																																		
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Clay	25																																	
Feldspar	2																																	
Opaques	10																																	
Palagonite	3																																	
Quartz	60																																	
								VOID																										

SITE 739 HOLE C CORE 61R CORED INTERVAL 477.9-482.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAANNOFOSSILS	RADIOLARIANS									
												NO RECOVERY
												Except of 2 cm in the core catcher. Which was not described.



TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
						V=2164 0=15X W=7X 4=2.55 XC8CO ₂ =23.06 XC8CO ₂ =0.4 X10C=0.3 CC								DIAMICTITE Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, non-stratified, poorly sorted, compacted but friable. Slight variations in sand and gravel content are visible. Clasts are < 0.5 cm in diameter, the average gravel content is about 1%. At the top of CC, at 0 to 5 cm, the diamictite is carbonate-cemented and very hard. Drilling disturbance: The sediment in the core catcher is probably upside down, as the black band at CC, 8 cm, is convex-down. SMEAR SLIDE SUMMARY (%): CC, 10 D TEXTURE: Sand 20 Silt 40 Clay 40 COMPOSITION: Access. Minerals Tr Amphibole 1 Clay 30 Feldspar 5 Opaques 7 Palagonite Tr Quartz 55

