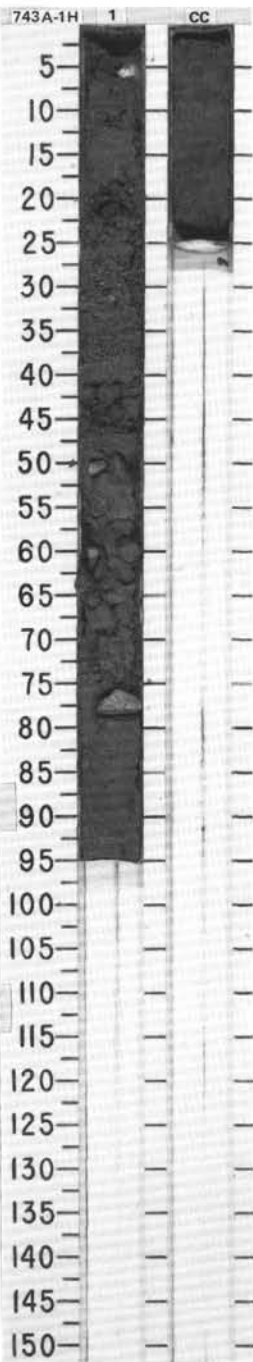


TIME-ROCK UNIT		BIOSTRAT. ZONE/ FOSSIL CHARACTER		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																												
		FORAMINIFERS	NANNOFOSSILS									RADIOLARIANS	DIATOMS																																																										
PLIOCENE - QUATERNARY	B	R/G	F/G				1		O O O O	* * * *	<p>SAND and CLAYEY SILT</p> <p>Major lithologies:</p> <p>a. Sand, olive gray (5Y 5/2); with up to 50% diatoms in upper 18 cm, Section 1, 0-46 cm. The sand is loose, moderately well sorted, medium to coarse grained. Grains comprise 80% quartz and feldspar, fine grained amphibolitic rock 10%, other rock fragments (gneissic basement), biotite 2%, minor garnet. The rock fragments are subrounded to subangular, the quartz and feldspar grains angular to subangular. At 43-46 cm the sand contains about 20% foraminifers. Gneissic pebbles occur at 20 cm and 40 cm.</p> <p>b. Clayey silt, dark grayish brown (10YR 4/2), Section 1, 46-94 cm. A minor gravel component (< 1%) includes a clast of gneiss, 3 X 5 cm. Black streaks in core catcher may be manganese.</p> <p>Drilling disturbance: The upper diatom-rich sand may be the result of mixing of two distinct lithologies during drilling. The two main lithologies are highly disturbed by drilling and cutting.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table style="margin-left: 40px;"> <tr> <td></td> <td>1, 12</td> <td>1, 60</td> <td>1, 85</td> </tr> <tr> <td>D</td> <td>D</td> <td>D</td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table style="margin-left: 40px;"> <tr> <td>Sand</td> <td>25</td> <td>10</td> <td>5</td> </tr> <tr> <td>Silt</td> <td>55</td> <td>60</td> <td>75</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>30</td> <td>20</td> </tr> </table> <p>COMPOSITION:</p> <table style="margin-left: 40px;"> <tr> <td>Access. minerals</td> <td>Tr</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>20</td> <td>15</td> </tr> <tr> <td>Diatoms</td> <td>50</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Feldspar</td> <td>15</td> <td>25</td> <td>25</td> </tr> <tr> <td>Garnet</td> <td>1</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Mica</td> <td>3</td> <td>5</td> <td>5</td> </tr> <tr> <td>Opakes</td> <td>3</td> <td>5</td> <td>5</td> </tr> <tr> <td>Quartz</td> <td>15</td> <td>40</td> <td>50</td> </tr> <tr> <td>Radiolarians</td> <td>1</td> <td>—</td> <td>—</td> </tr> <tr> <td>Silicoflagellates</td> <td>1</td> <td>Tr</td> <td>—</td> </tr> </table>		1, 12	1, 60	1, 85	D	D	D	D	Sand	25	10	5	Silt	55	60	75	Clay	20	30	20	Access. minerals	Tr	Tr	Tr	Clay	10	20	15	Diatoms	50	1	Tr	Feldspar	15	25	25	Garnet	1	1	Tr	Mica	3	5	5	Opakes	3	5	5	Quartz	15	40	50	Radiolarians	1	—	—	Silicoflagellates	1	Tr	—
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	B	R/G				$V = 1.696$ $\sigma_d = 3.6\%$ $\sigma_s = 1.7\%$ $\sigma_p = 2.33$	CC																																																																

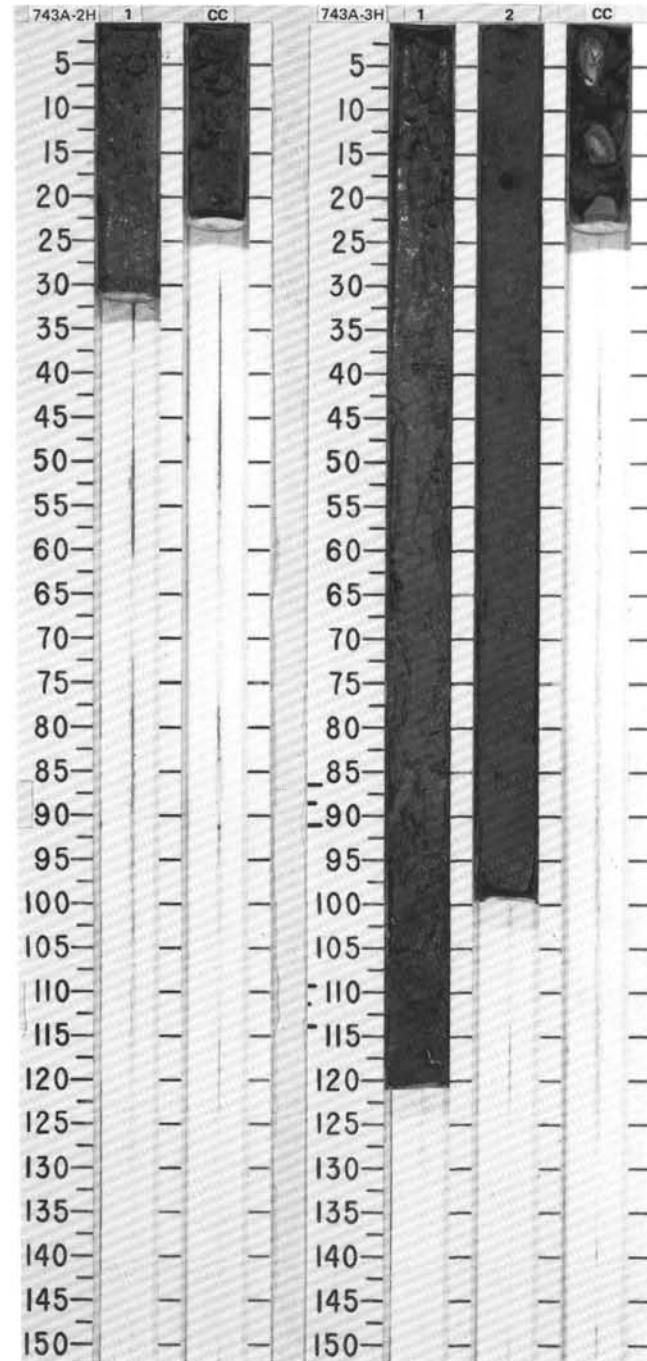


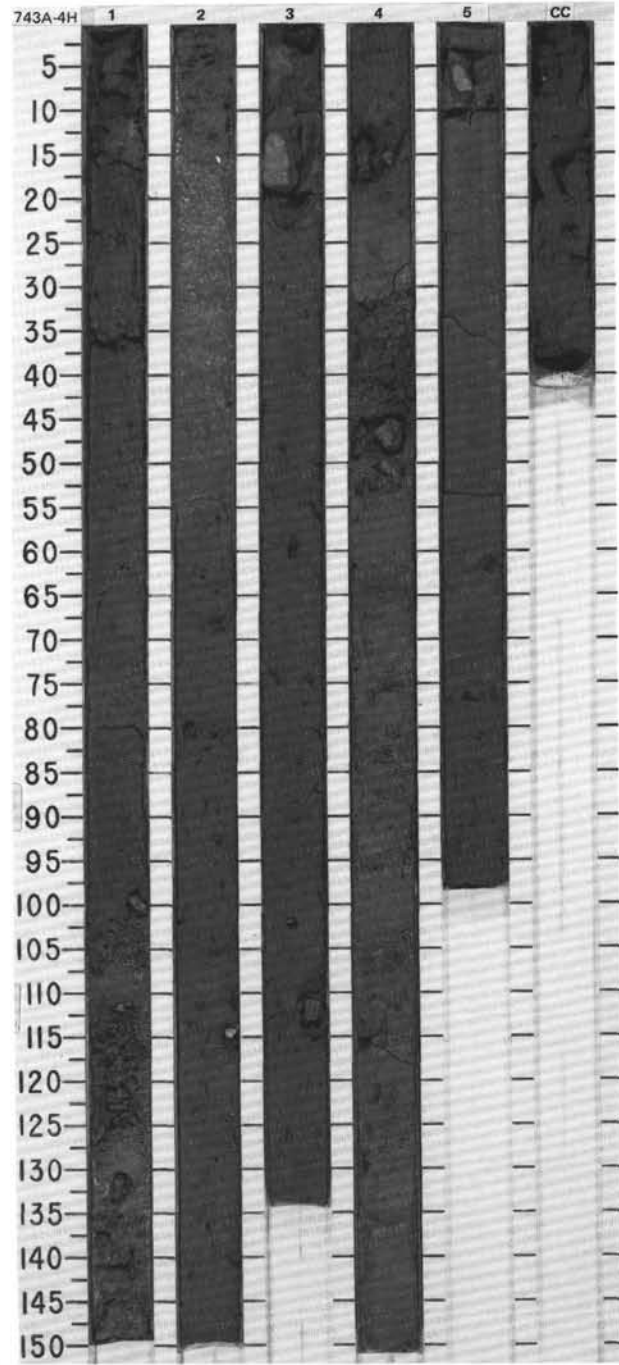
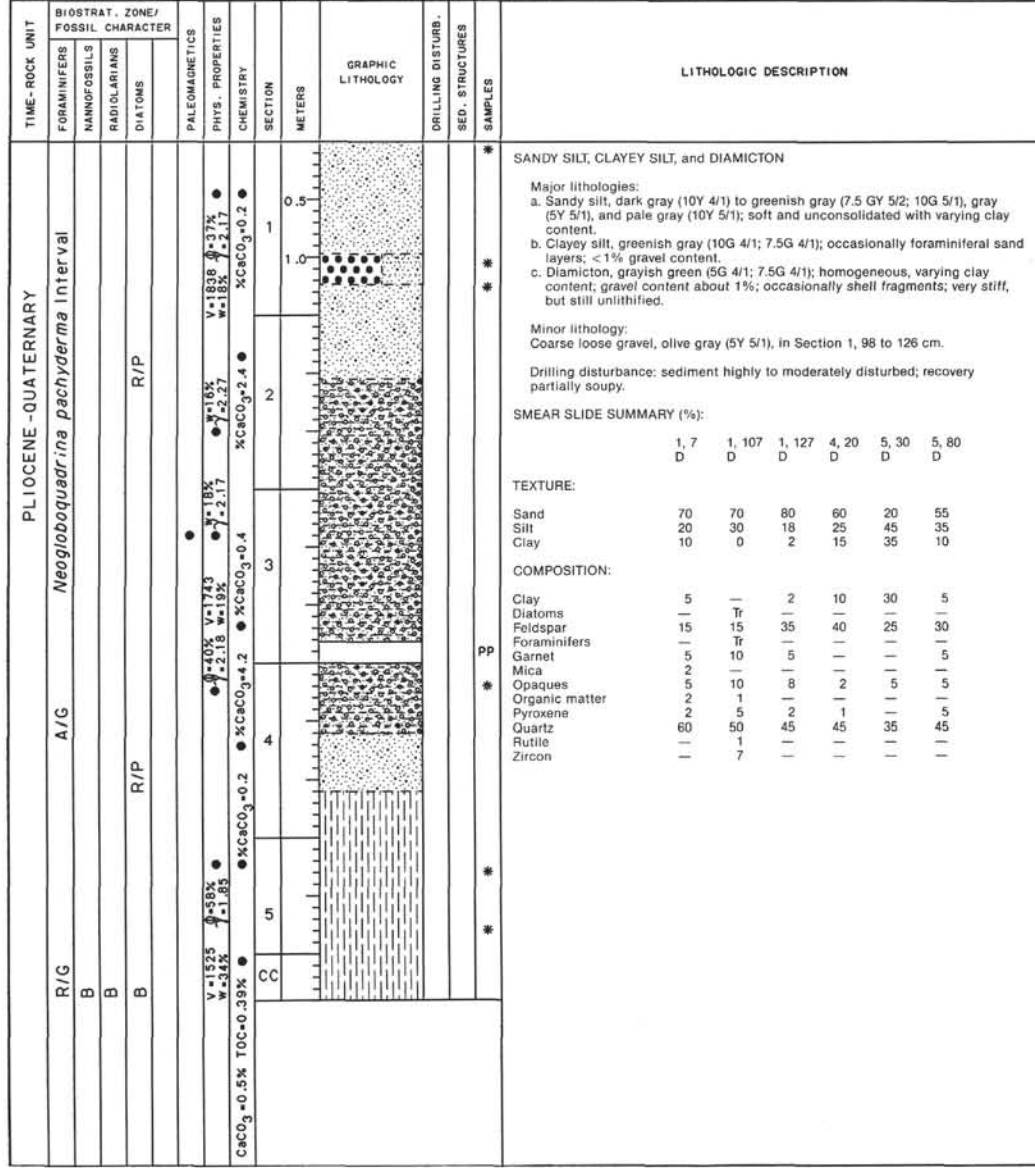
SITE 743 HOLE A CORE 2H CORED INTERVAL 1.3-1.9 mbsf

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										
PLIOCENE -QUATERNARY	R/G	B	B	B	%CaCO ₃ = 0.2 %TOC = 0.31	w = 15% $\phi = 34\%$	%CaCO ₃ = 0.1	1	0.5				*	<p>CLAYEY SILT</p> <p>Major lithology: Clayey silt, dark gray (10YR 4/2, 5Y 4/1), with gravel in upper 14 cm.</p> <p>Drilling disturbance: Totally disturbed and soupy, with possible downhole gravel contamination.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>CC, 18 D</p> <p>TEXTURE:</p> <p>Sand 15 Silt 60 Clay 25</p> <p>COMPOSITION:</p> <p>Access. minerals Tr Clay 20 Feldspar 25 Garnet Tr Mica 5 Opauques 5 Quartz 45</p>
<i>Neogloboquadrina pachyderma</i> Interval														

SITE 743 HOLE A CORE 3H CORED INTERVAL 1.9-4.6 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 = 0.2 %TOC = 0.28	$\phi = 40\%$ V = 1.851 W = 2.14 W = 1.9%	%CaCO ₃ = 0.2	1	0.5				*	<p>SANDY SILT, SILT, and CLAYEY SILT</p> <p>Major lithologies:</p> <p>a. Sandy silt, dark gray (5Y 4/1) to grayish green (5G 4/1); relatively homogeneous, soupy. Silt, very dark gray (10YR 3/1); very firm. b. Clayey silt, grayish green (5G 4/1); homogeneous, very sticky.</p> <p>Drilling disturbance: most of the sediment highly disturbed; soupy recovery.</p> <p>Minor lithology: Coarse metamorphic rock fragments in core catcher.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p>1.60 2.50 D D</p> <p>TEXTURE:</p> <p>Sand 10 40 Silt 70 35 Clay 20 25</p> <p>COMPOSITION:</p> <p>Access. minerals Tr - Clay 20 20 Feldspar 25 30 Garnet Tr - Mica 5 - Opauques - 5 Organic matter - 2 Pyroxene - - Quartz 45 40</p>
CC														



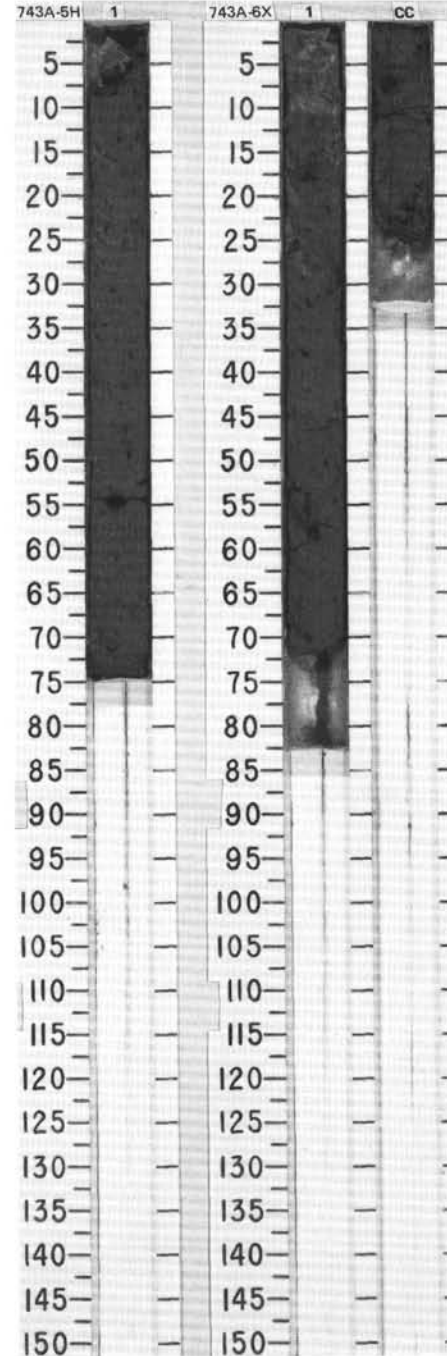


SITE 743 HOLE A CORE 5H CORED INTERVAL 12.8-15.8 mbsf

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										
PLIOCENE - QUATERNARY									1				**	<p>SILTY CLAY</p> <p>Major lithology: Silty clay, gray (7.5G 4/1); homogeneous with varying clay content; < 1% gravel.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">1, 34 D</p> <p>TEXTURE:</p> <p>Sand 2 Silt 38 Clay 60</p> <p>COMPOSITION:</p> <p>Clay 35 Feldspar 10 Glass Tr Opales 2 Pyroxene 2 Quartz 50</p>
	Neogloboquadrina pachyderma Interval				V=1723 W=18%	φ=37% f=2.23	%CaCO ₃ =0.5		0.5					

SITE 743 HOLE A CORE 6X CORED INTERVAL 15.8-21.2 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										
	D	D	D	D					1				*	<p>SILTY CLAY and DIAMICTON</p> <p>Major lithologies: a. Silty clay, greenish gray (10G 4/1); homogeneous and soft. b. Diamicton, dark greenish gray (7.5G 4/1); relatively homogeneous, gravel content about 1%.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">1, 6 D</p> <p>TEXTURE:</p> <p>Sand 26 Silt 37 Clay 37</p> <p>COMPOSITION:</p> <p>Clay 30 Feldspar 20 Mica 3 Opales 5 Organic matter 2 Pyroxene 2 Quartz 35</p>
					V=1842 W=24%	φ=47% f=2.02	%CaCO ₃ =0.4		CC					



SITE 743 HOLE A CORE 7X CORED INTERVAL 21.2-30.7 mbsf

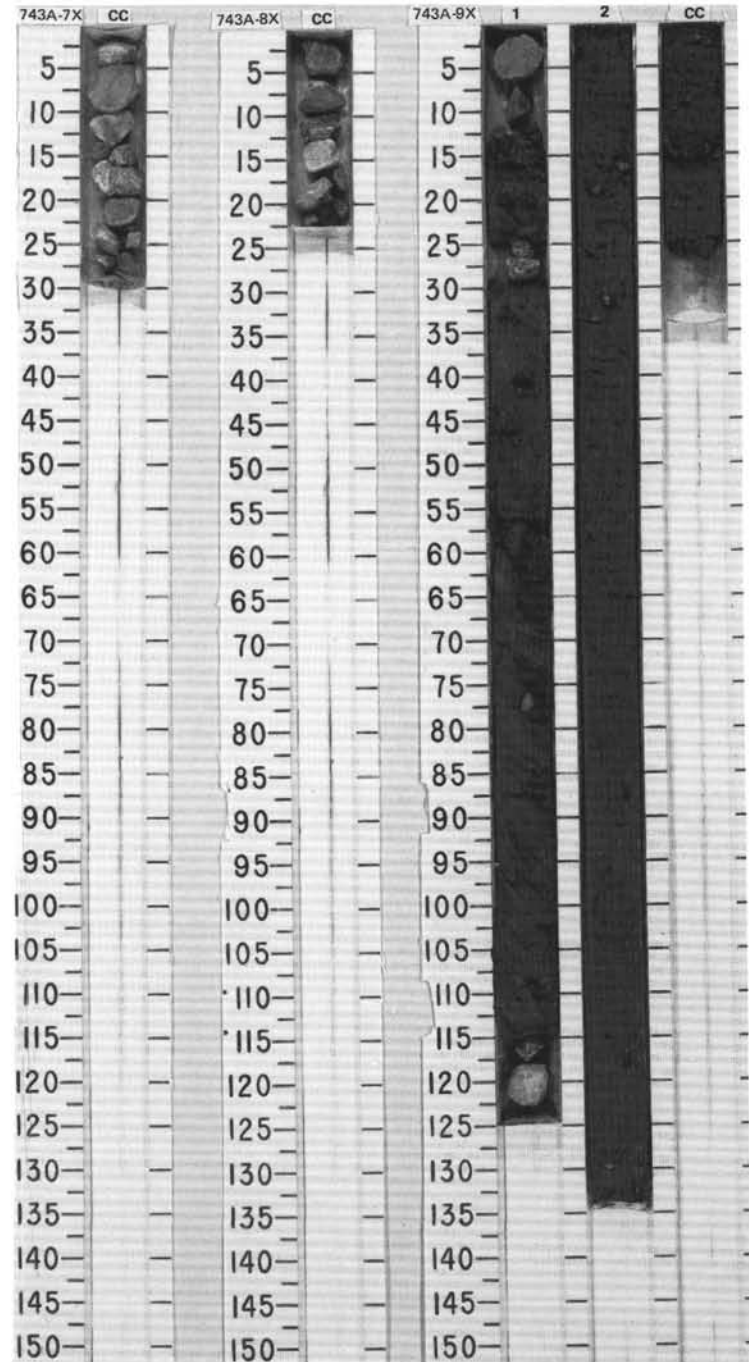
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
								CC			X			Major lithology: Metamorphic rock fragments, up to 5 cm in length, in core catcher; possible contamination.

SITE 743 HOLE A CORE 8X CORED INTERVAL 30.7-40.2 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										
								CC			X			Major lithology: Metamorphic rock fragments, up to 4 cm in length, in core catcher; possible contamination.

SITE 743 HOLE A CORE 9X CORED INTERVAL 40.2-49.9 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/G									0.5					DIAMICTON Major lithology: Diamicton (clayey to sandy silt), dark gray (2.5Y 3/1) to dark grayish green (5G 4/2); homogeneous, very stiff; gravel content 5 to 15%; rock fragments up to 4 cm in length.
B								1						
B								CC						



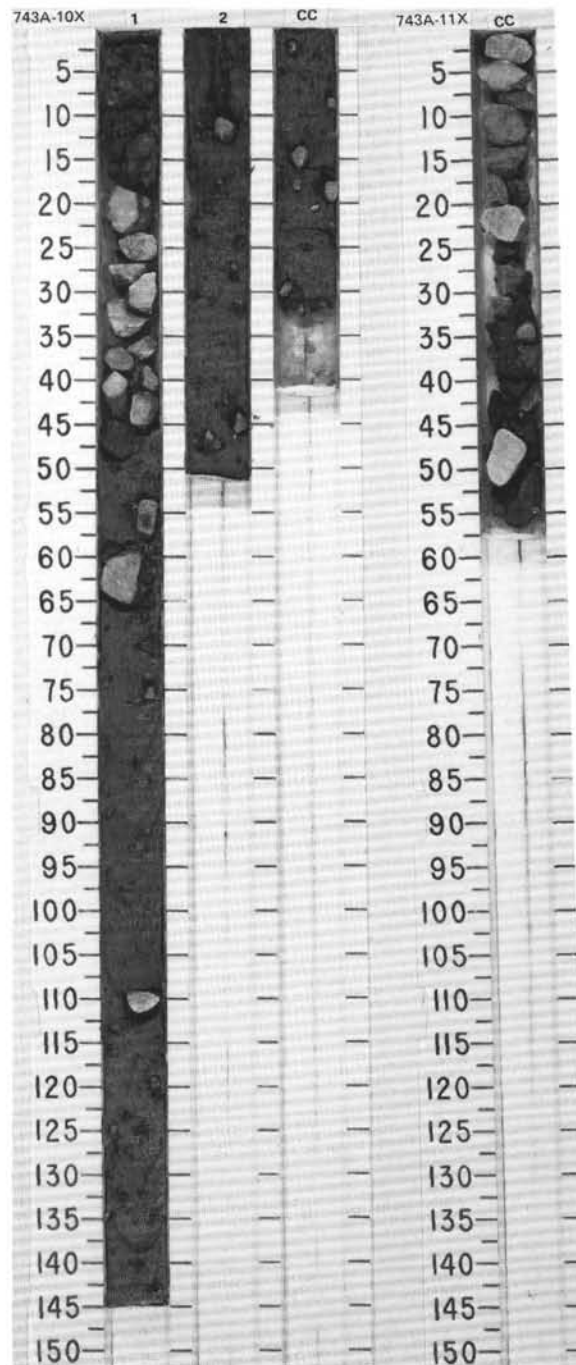
SITE 743

SITE 743 HOLE A CORE 10X CORED INTERVAL 49.9-59.6 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/G	B		B		V = 1876 W = 145 %CaCO ₃ = 0.2	V = 1923 W = 2.28 %CaCO ₃ = 0.2	1 2 CC	0.5 1.0		X PP *		<p>DIAMICTON</p> <p>Major lithology: Diamicton (clayey silt with minor gravel), massive, structureless, very dark gray (5Y 3/1), very stiff. Clast roundness analysis indicate: 4% rounded, 40% subrounded, 44% subangular, 12% angular (sample size 50). The largest clast is 3 cm in diameter. Many clasts are faceted. They comprise feldspar-quartz-biotite gneiss, garnet-biotite-quartz-feldspar gneiss, fine grained amphibolite rocks, one highly weathered gneiss or granite and one gneiss with a yellowish weathering rim.</p> <p>Minor lithology: A gravel layer with loose clasts and almost no diamicton matrix occurs in Section 1, 18-44 cm. The largest clast is 5 cm in diameter.</p> <p>Average gravel content: Section 1: 0-18 cm, 5-10% 18-44 cm, 90% 44-145 cm, 5% Section 2: 0-50 cm, 5-10% CC : 0-30 cm, 5%</p> <p>Drilling disturbance: Section 1, 0-18 cm is highly disturbed by drilling. The gravel layer is assumed to be a result of washing out during drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>1, 95</td> <td>2, 35</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>5</td> <td>10</td> </tr> <tr> <td>Silt</td> <td>65</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>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>25</td> <td>20</td> </tr> <tr> <td>Feldspar</td> <td>25</td> <td>25</td> </tr> <tr> <td>Garnet</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Mica</td> <td>2</td> <td>3</td> </tr> <tr> <td>Opakes</td> <td>5</td> <td>3</td> </tr> <tr> <td>Pyroxene</td> <td>2</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>40</td> <td>45</td> </tr> </table>		1, 95	2, 35	D	D	D	Sand	5	10	Silt	65	60	Clay	30	30	Access. minerals	Tr	Tr	Amphibole	1	Tr	Clay	25	20	Feldspar	25	25	Garnet	Tr	Tr	Mica	2	3	Opakes	5	3	Pyroxene	2	2	Quartz	40	45
	1, 95	2, 35																																																					
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Opakes	5	3																																																					
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SITE 743 HOLE A CORE 11X CORED INTERVAL 59.6-69.3 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									
	B	B		B				CC	0.5				<p>GRAVEL and DIAMICTON</p> <p>Major lithologies:</p> <p>a. Gravel with loose clasts and only a minor diamicton matrix, the clasts being 4-6 cm in diameter; CC, 0-30 cm.</p> <p>b. Diamicton, very dark gray (5Y 3/1), massive, structureless, very stiff; CC, 30-58 cm. The average gravel content of this lithology is 40%. Clast roundness analysis indicate: 6% rounded, 41% subrounded, 41% subangular, 12% angular (sample size 17). The largest clast is 3.5 X 6 cm. The clasts comprise mainly feldspar-quartz-garnet-biotite gneiss, some quartz-feldspar-biotite gneiss, and few syenite.</p> <p>Drilling disturbance: The core is highly disturbed by drilling. The gravel layer is assumed to be a result of washing out during drilling or to be cave in.</p>



SITE 743 HOLE A CORE 12X CORED INTERVAL 69.3-78.8 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																																						
									1				*	<p>DIAMICTON</p> <p>Major lithology: Diamicton (sand-silt-clay with minor gravel), massive, structureless, very dark gray (5Y 3/1), very stiff. The largest clast is 4 X 6 cm. Clasts include quartz-feldspar-garnet-biotite gneiss, and calcareous sandstone.</p> <p>Average gravel content: Section 1: 25% CC: 20%</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr> <td></td> <td>1, 40</td> </tr> <tr> <td></td> <td>D</td> </tr> </table> <p>TEXTURE:</p> <table border="0"> <tr> <td>Sand</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>50</td> </tr> <tr> <td>Clay</td> <td>30</td> </tr> </table> <p>COMPOSITION:</p> <table border="0"> <tr> <td>Access. Minerals</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>Tr</td> </tr> <tr> <td>Clay</td> <td>25</td> </tr> <tr> <td>Feldspar</td> <td>20</td> </tr> <tr> <td>Garnet</td> <td>Tr</td> </tr> <tr> <td>Mica</td> <td>3</td> </tr> <tr> <td>Opacues</td> <td>5</td> </tr> <tr> <td>Pyroxene</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>45</td> </tr> </table>		1, 40		D	Sand	20	Silt	50	Clay	30	Access. Minerals	Tr	Amphibole	Tr	Clay	25	Feldspar	20	Garnet	Tr	Mica	3	Opacues	5	Pyroxene	Tr	Quartz	45
	1, 40																																									
	D																																									
Sand	20																																									
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Garnet	Tr																																									
Mica	3																																									
Opacues	5																																									
Pyroxene	Tr																																									
Quartz	45																																									
									CC																																	

SITE 743 HOLE A CORE 13X CORED INTERVAL 78.8-88.4 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										
														<p>GRAVEL</p> <p>Major lithology: Gravel, washed out. The largest clast is 7 X 6 cm. Clast roundness analysis indicate: 6% angular, 35% subangular, 50% subrounded, 9% rounded (sample size 34). The clasts include strongly deformed quartz-feldspar-garnet-amphibole gneiss, medium grained amphibolite, quartz-feldspar-garnet biotite layered gneiss, amphibole-clinopyroxene-feldspar mafic gneiss, garnet-amphibole mafic gneiss, altered, coarse grained K-feldspar-green amphibole orthogneiss.</p> <p>Drilling disturbance: The gravel probably is cave in.</p>
									CC					

SITE 743 HOLE A CORE 14X CORED INTERVAL 88.8-98.1 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										
														<p>GRAVEL</p> <p>Major lithology: Loose gravel with clasts up to 7 cm in diameter, with a minor recovery of diamiclite matrix in CC, 10-27 cm, coating larger clasts. The clasts are subrounded to subangular.</p> <p>Drilling disturbance: Gravel is cave in or wash out from probably clast-rich diamiclite.</p>
									CC					

