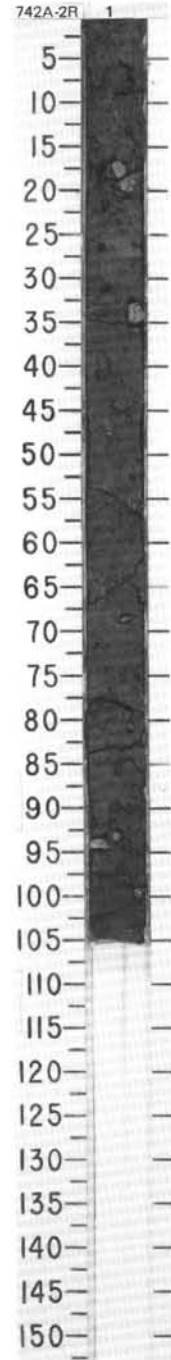




SITE 742 HOLE A CORE 2R CORED INTERVAL 4.5-14.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
UPPER PLIOCENE - QUATERNARY													
	B												
		B											
			R/P	F/M									
				B									
					V-161.0 W-15% X-2.19								
					%CaCO <sub>3</sub> = 0.1 X10C=0.22 ●								
							1					*	
							0.5						
							1.0						





## SITE 742 HOLE A CORE 4R CORED INTERVAL 23.7-33.4 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										
	B		R/P	B		V-2170 W-144 0-90% 2-3%		1	0.5			*	<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), black (5Y 2.5/1), homogeneous, massive, structureless. The diamictite is firm, compacted but friable. The clasts are mostly &lt;1 cm, the largest being 6 cm across. Clast roundness analysis indicates 19% angular, 35% subangular, 38% subrounded and 8% rounded clasts (sample size 26). They include quartz, feldspar, quartz-feldspar-garnet gneiss, quartz-feldspar-garnet-biotite gneiss, granite.</p> <p>Average gravel content: Section 1: 0-20 cm, 5% 20-50 cm, 15% 50-83 cm, 5%</p> <p>Drilling disturbance: The clast at top of the core is possibly cave in.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">1, 40 D</p> <p>TEXTURE:</p> <p>Sand 30 Silt 50 Clay 20</p> <p>COMPOSITION:</p> <p>Access. minerals Tr Amphibole 2 Clay 15 Feldspar 25 Garnet Tr Mica 3 Opaques 5 Pyroxene Tr Quartz 50</p>	

## SITE 742 HOLE A CORE 5R CORED INTERVAL 33.4-37.9 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										
								CC				*	<p>DIAMICTITE</p> <p>Recovery restricted to 12 cm in the core catcher, consisting of two pebbles of banded quartz-feldspar-biotite-garnet gneiss (6 cm and 4.5 cm) and some highly disturbed relicts of black (5Y 2.5/1), massive, homogeneous diamictite (sand-silt-clay) which contains about 3% gravel &lt;1 cm in diameter.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="text-align: right;">CC, 10 D</p> <p>TEXTURE:</p> <p>Sand 20 Silt 35 Clay 45</p> <p>COMPOSITION:</p> <p>Access. minerals Tr Amphibole 1 Clay 35 Feldspar 5 Garnet Tr Mica 2 Opaques 5 Pyroxene 2 Quartz 50</p>	

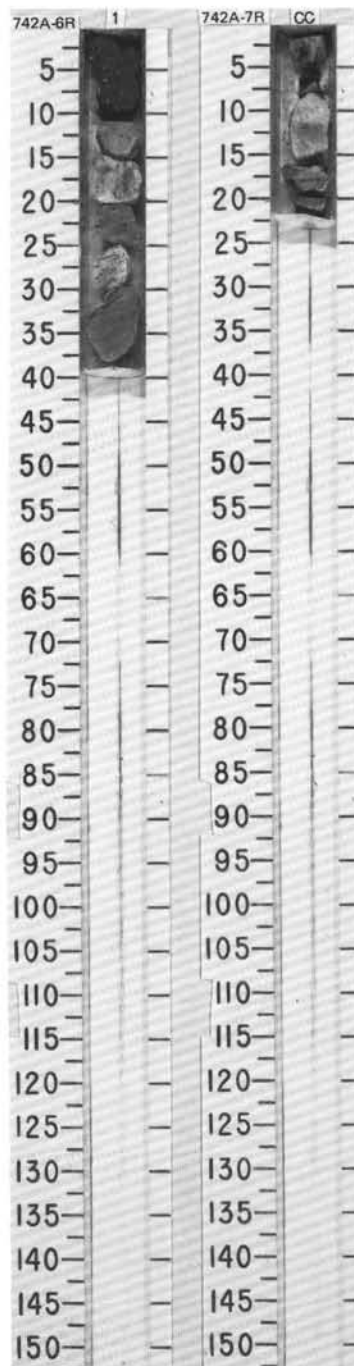


SITE 742 HOLE A CORE 6R CORED INTERVAL 37.9-45.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSBILS	RADIOLARIANS	DIATOMS										
QUATERNARY				R/P		V-2189 $\phi$ = 30% w = 14% T-2.30	XC8C0 <sub>3</sub> = 0.4 XTC0 = 0.31	1			X			DIAMICTITE, METAMORPHIC BOULDERS and GRAVEL  Major lithologies: a. Diamictite, homogeneous, black (5Y 2.5/1) with about 3% of gravel. b. Metamorphic boulders and pebbles, up to 60 mm in size, consisting of high-grade gneiss and granulite.  Drilling disturbance: The gneissic clasts were completely isolated from matrix.
UPPER PLIOCENE														

SITE 742 HOLE A CORE 7R CORED INTERVAL 45.9-55.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSBILS	RADIOLARIANS	DIATOMS										
B				B				CC			X			METAMORPHIC PEBBLES and BOULDERS  Major lithology: Metamorphic pebbles and boulders, pebbles and drilled portions of high-grade metamorphic quartzites and gneisses.

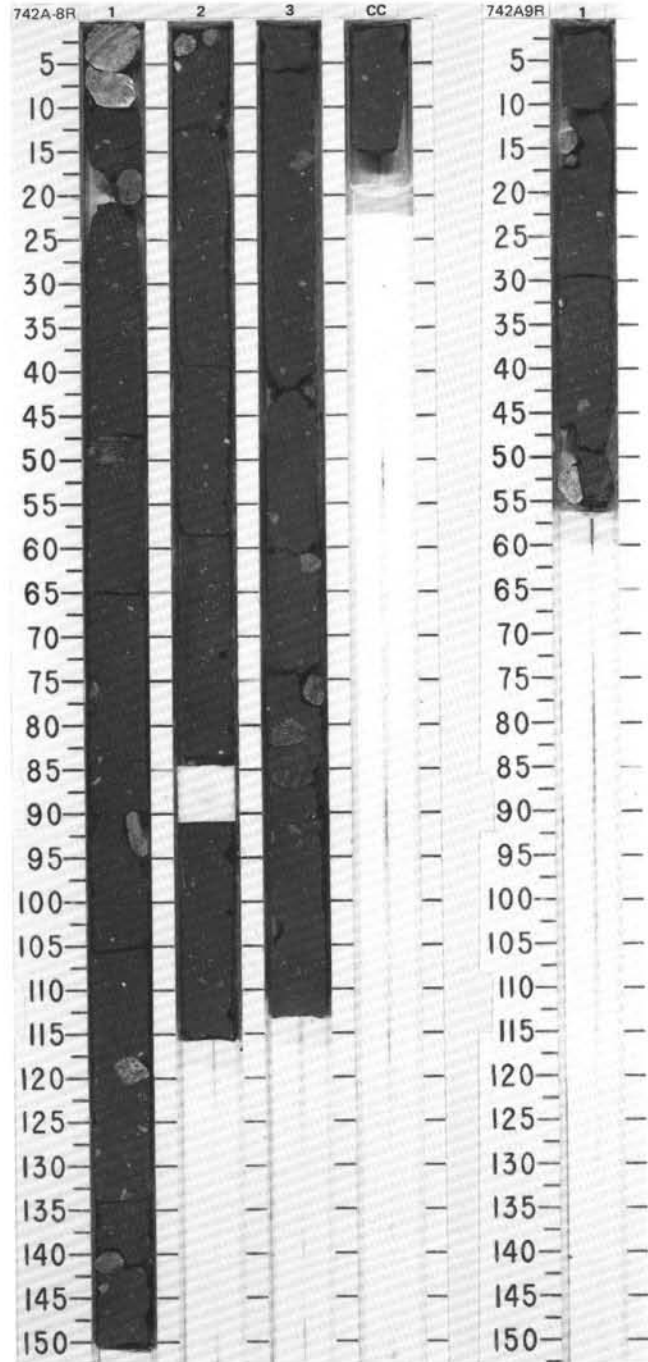


SITE 742 HOLE A CORE 8R CORED INTERVAL 55.5 -65.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS	DINO-FLAGELLATE									
B						V=2523 W=11.1% P=24% L=2.32	%CaCO <sub>3</sub> =0.4 %TOC=0.39	1	0.5 1.0					<p>DIAMICTITE, METAMORPHIC BOULDERS and PEBBLES</p> <p>Major lithology: Diamictite, homogeneous, very dark grey (5Y 3/1), with about 3% gravel. Metamorphic boulders and pebbles (Section 1, 0-10 cm), of gneiss and granulite, up to 60 mm in size.</p>
B						V=2139 W=11.1% P=24% L=2.33	%CaCO <sub>3</sub> =0.4 %TOC=1.03	2				PP		
B						V=2709 W=11.1% P=24% L=2.34	%CaCO <sub>3</sub> =0.4 %TOC=0.40	3				OG IW		
								CC						

SITE 742 HOLE A CORE 9R CORED INTERVAL 65.1 -74.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER					PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIAZONS	DINO-FLAGELLATE									
B						V=2147 W=11.1% P=25% L=2.37	%CaCO <sub>3</sub> =0.7 %TOC=0.39	1	0.5					<p>DIAMICTITE</p> <p>Major lithology: Diamictite, very dark grey (2.5G 3/0), composed of 3% gravel and equal sand/silt/clay. Clasts are up to 45 mm size.</p>



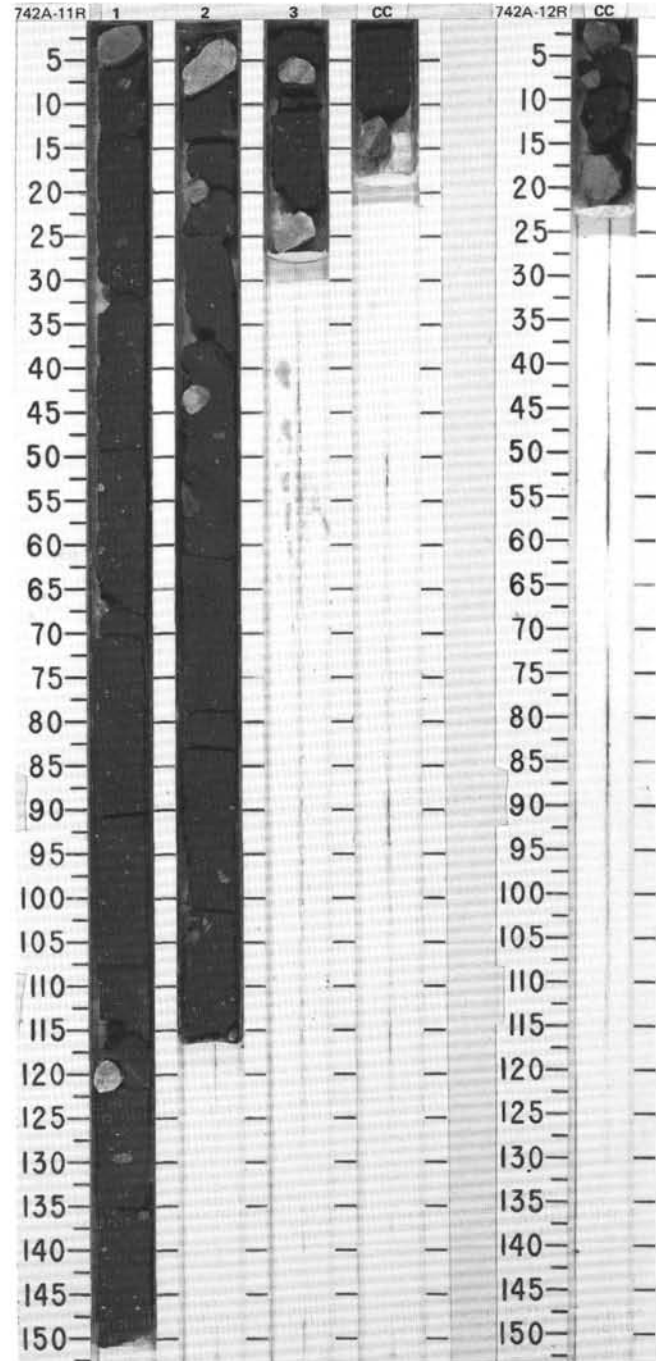
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS									
B	<i>R. dairensii</i> <i>C. formosus</i> <i>C. altus</i>				●			0.5					<p>DIAMICTITE</p> <p>Major lithology: Diamictite, dark gray (5Y 2.5/1) to very dark greenish gray (2.5G 3/0), relatively homogeneous, with clasts up to 70 mm, predominantly of metamorphic origin; gravel content estimates range from 5 to 10%.</p> <p>Drilling disturbance: Sediment slightly to moderately disturbed.</p>
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					●		83.0		</				

SITE 742 HOLE A CORE 11R CORED INTERVAL 84.4-94.1 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										
B	R/M	<i>R. reticulata</i>	<i>R. umbilica</i>	<i>C expansus</i> group		V-2346 0-27% W-11% 0-2.33	%CaCO <sub>3</sub> -0.5 %TOC-0.46	1	0.5	[Graphic Lithology: Sand-silt-clay with minor gravel]			*	DIAMICTITE Major lithology: Diamictite (sand-silt-clay with minor gravel), black (5Y 2.5/1), massive, structureless and homogeneous, except for slight fluctuations in sand and gravel content. Compacted but friable.  Clasts are mainly <1.5 cm in diameter, the largest reaching 8 X 4 cm. Clast roundness analysis indicates: 8% angular, 46% subangular, 40% subrounded, 6% rounded (samples size 50). The clasts include quartz-feldspar-biotite gneiss, granite, vein quartz, granulite, amphibolite and minor black coaly shale and coal.  Average gravel content: Section 1: 7% Section 2: 5% Section 3: 15-20% (short section) CC: 10%  SMEAR SLIDE SUMMARY (%):  OG 1, 80 2, 65 IW D D  TEXTURE: Sand 35 25 Silt 35 50 Clay 30 25  COMPOSITION: Access. minerals Tr Tr Amphibole 3 1 Clay 25 20 Feldspar 20 20 Garnet 1 Tr Mica 2 1 Micrite 1 1 Opaques 5 5 Pyroxene 1 1 Quartz 40 50
						V-2008 0-27% W-12% 0-2.28	%CaCO <sub>3</sub> -0.5 %TOC-0.40	2	1.0	[Graphic Lithology: Sand-silt-clay with minor gravel]			*	
								3		[Graphic Lithology: Sand-silt-clay with minor gravel]				
								CC						

SITE 742 HOLE A CORE 12R CORED INTERVAL 94.1-103.7 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										
B								CC		[Graphic Lithology: Diamictite]	X			DIAMICTITE Major lithology: Diamictite, black (5Y 2.5/1), drilling breccia with clasts of granite and quartzite up to 4 cm.





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	<i>R. R. reticulata</i>	B		V-3013 W-15% A-115	%CO <sub>2</sub> =0.5 %TDC=0.41	1	0.5		X	X	*	<p><b>DIAMICTITE</b></p> <p>Major lithology: Diamictite (sand-silt-clay with gravel), black (5Y 2.5/1), massive, structureless and homogeneous, except for slight fluctuations in sand and gravel content. Compacted but friable.</p> <p>Clasts are mainly &lt;1 cm in diameter, the largest reaching 6 X 5 cm. Most clasts are subangular to subrounded. The clasts include augengneiss, garnetiferous gneiss, quartz-feldspar-biotite gneiss, amphibolite, granite, quartz, feldspar, carbonate-cemented sandstone. The average gravel content is around 15%.</p> <p><b>SMEAR SLIDE SUMMARY (%):</b></p> <p>1, 40 D</p> <p><b>TEXTURE:</b></p> <p>Sand 20 Silt 60 Clay 20</p> <p><b>COMPOSITION:</b></p> <p>Access. minerals Tr Amphibole 3 Clay 15 Feldspar 25 Garnet 1 Mica 2 Micrite 2 Opaques 5 Pyroxene 1 Quartz 45</p>



SITE 742 HOLE A CORE 14R CORED INTERVAL 113.3-123.0 mbsf

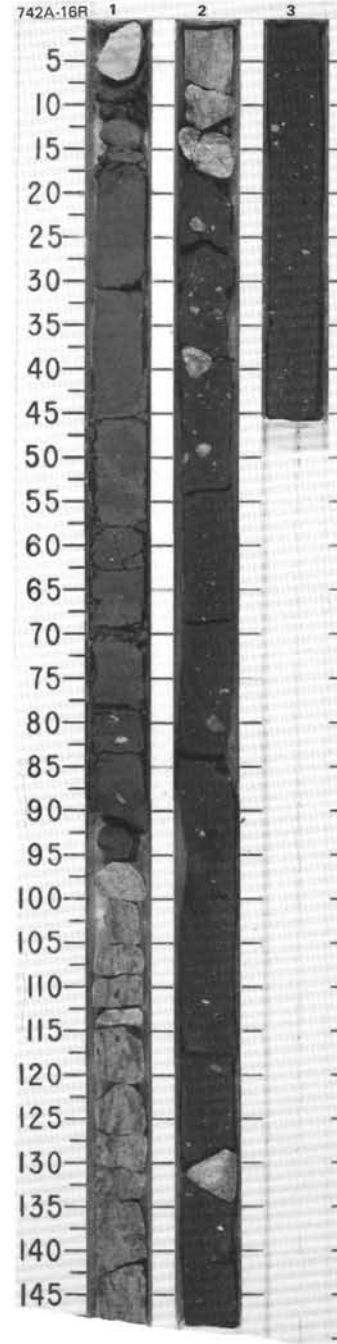
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER			PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																												
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS									DIAZONES	PHYS. PROPERTIES	CHEMISTRY																																																									
B					1	0.5	[Pattern]	X	PP		<p><b>DIAMICTITE</b></p> <p>Major lithologies:</p> <p>a. Diamictite (sand-silt-clay with gravel), black (5Y 2.5/1) to unnamed gray (2.5G 3/0), massive, structureless and homogeneous, except for slight fluctuations in sand and gravel content. Compacted but friable. Section 1 to Section 2, around 40 cm.</p> <p>b. Diamictite, as above but unnamed gray (10Y 3/1), and weakly to moderately well stratified, Section 2, around 40 cm to Section 3, 87 cm. The stratification is on a cm-decimeter scale, generally diffuse but with a few sharp, but slightly disturbed boundaries; gravel and sand content varies markedly. The stratification in places is inclined to the horizontal, with a suggestion of slumping in Section 3, 14-20 cm.</p> <p>Minor lithology:</p> <p>Clayey silt, dark greenish gray (5BG 4/1) to dark bluish gray (5B 4/1), Section 2, 93-99 cm with sharp boundaries; and also a few bands in Section 3, 42-46 cm with diffuse boundaries. In the former is a pyrite-enriched band 2-7 mm thick and a slump.</p> <p>Clast roundness analysis indicates: 12% angular, 40% subangular, 34% subrounded and 14% rounded. Clasts include pegmatite with quartz, feldspar, magnetite and amphibole; quartzite with granule to small pebble-sized grains, biotite-amphibole mafic gneiss (fine-grained), altered biotite-garnet gneiss, altered quartzite and pegmatite. One small rounded biotite-feldspar pebble has a weathering rind. The largest clast measures 3 X 6 cm.</p> <p>Average gravel content:</p> <p>Section 1: 10%                  Section 2: 0-58 cm, 10%                  60-92 cm, 1-3%                  92-99 cm, &lt;1%                  100-116 cm, 10%</p> <p>Section 3: 3-5%</p> <p><b>SMEAR SLIDE SUMMARY (%):</b></p> <table border="1"> <tr> <td></td> <td>2, 95</td> <td>2, 117</td> <td>3, 60</td> </tr> <tr> <td>M</td> <td></td> <td>D</td> <td>D</td> </tr> </table> <p><b>TEXTURE:</b></p> <table border="1"> <tr> <td>Sand</td> <td>5</td> <td>50</td> <td>30</td> </tr> <tr> <td>Silt</td> <td>60</td> <td>30</td> <td>40</td> </tr> <tr> <td>Clay</td> <td>35</td> <td>20</td> <td>30</td> </tr> </table> <p><b>COMPOSITION:</b></p> <table border="1"> <tr> <td>Access. minerals</td> <td>Tr</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>2</td> <td>—</td> <td>2</td> </tr> <tr> <td>Carbonate</td> <td>—</td> <td>7</td> <td>—</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>20</td> <td>25</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>20</td> <td>20</td> </tr> <tr> <td>Garnet</td> <td>—</td> <td>—</td> <td>Tr</td> </tr> <tr> <td>Mica</td> <td>1</td> <td>—</td> <td>2</td> </tr> <tr> <td>Opauques</td> <td>5</td> <td>10</td> <td>3</td> </tr> <tr> <td>Pyroxene</td> <td>2</td> <td>—</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>50</td> <td>40</td> <td>45</td> </tr> </table>		2, 95	2, 117	3, 60	M		D	D	Sand	5	50	30	Silt	60	30	40	Clay	35	20	30	Access. minerals	Tr	—	Tr	Amphibole	2	—	2	Carbonate	—	7	—	Clay	30	20	25	Feldspar	10	20	20	Garnet	—	—	Tr	Mica	1	—	2	Opauques	5	10	3	Pyroxene	2	—	2	Quartz	50	40	45
	2, 95	2, 117	3, 60																																																																				
M		D	D																																																																				
Sand	5	50	30																																																																				
Silt	60	30	40																																																																				
Clay	35	20	30																																																																				
Access. minerals	Tr	—	Tr																																																																				
Amphibole	2	—	2																																																																				
Carbonate	—	7	—																																																																				
Clay	30	20	25																																																																				
Feldspar	10	20	20																																																																				
Garnet	—	—	Tr																																																																				
Mica	1	—	2																																																																				
Opauques	5	10	3																																																																				
Pyroxene	2	—	2																																																																				
Quartz	50	40	45																																																																				
					2	1.0	[Pattern]																																																																
					3	1.5	[Pattern]																																																																



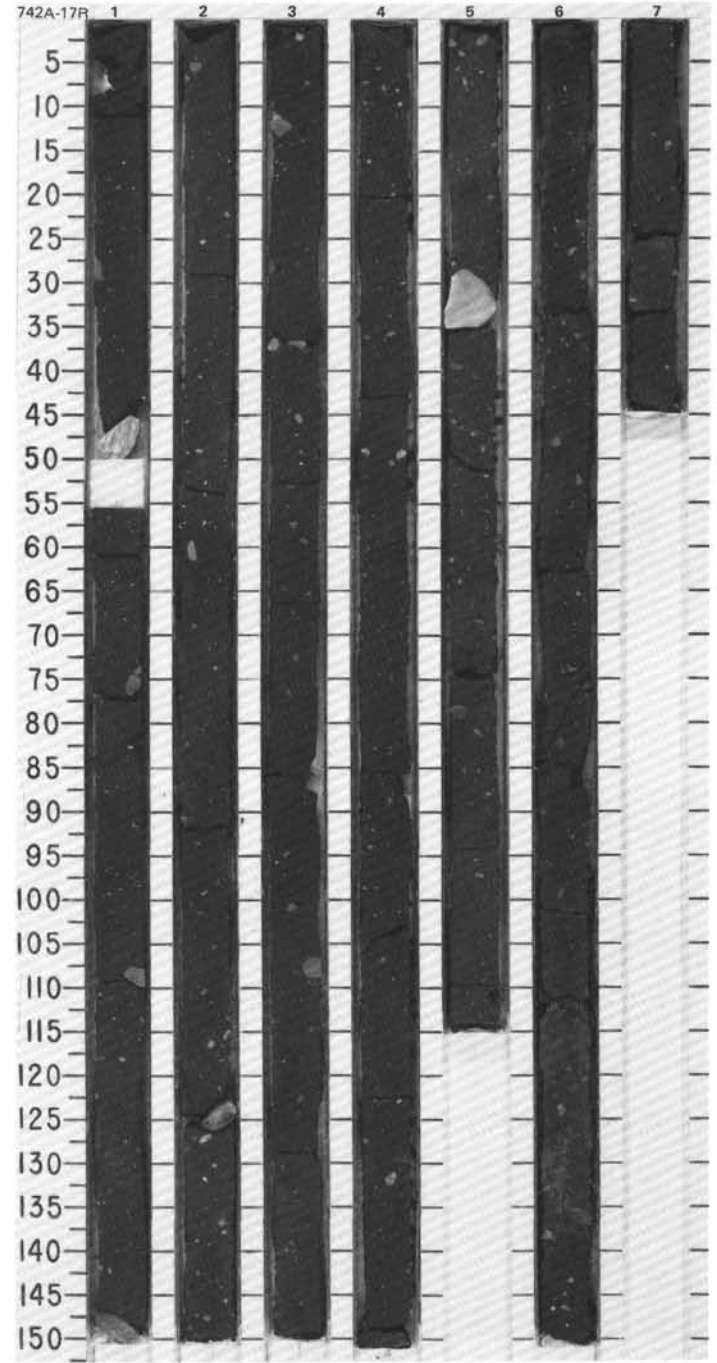


SITE 742 HOLE A CORE 16R CORED INTERVAL 132.7-142.3 mbsf

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	OOO	V=1781 W=17% KCrCO <sub>3</sub> = 0.1			0.5 1.0		X	W	*	<p><b>DIAMICTITE</b></p> <p>Major lithologies:</p> <p>a. Diamictite, black (5Y 2.5/1), weakly stratified, with strongly fluctuating sand content; Section 1, 0-17 cm, and 43-90 cm.</p> <p>b. Diamictite (sand-silt-clay with minor gravel), black (5Y 2.5/1), massive, relatively homogeneous, compacted but friable; Section 1, 90-150 cm, and Section 2 and 3. Clasts reach up to 60 mm diameter. Clast roundness analysis indicates: 12% angular, 35% subangular, 40% subrounded, 13% rounded (sample size 55). They are predominantly of gneiss and granulite. However, one clast of carbonate-cemented sandstone with a weathered rim also occurs in Section 2, 80 cm. From Section 1, 90 cm, to Section 2, 17 cm, alignment of clasts with around 5 cm diameter each, consisting of strongly folded garnet-biotite-amphibole gneiss, with only very minor diamictite matrix. These clasts were probably parts of one large boulder. In Section 2, 90-105 cm, the diamictite contains micrite but does not show other characteristics than the adjacent sediment.</p> <p>Minor lithology: Clayey siltstone, dark gray (5Y 4/1), with &lt;&lt;1% gravel; Section 1, 17-43 cm. The siltstone has a loaded or scoured top and an irregular transitional base.</p> <p>Average gravel content: Section 1: 0-17 cm, &gt;50% 43-90 cm, 1% 90-150 cm, 95% Section 2: 0-17 cm, 95% 17-150 cm, 5% Section 3, 0-45 cm, 7%</p> <p>Drilling disturbance: In Section 1, 0-14 cm, a carbonate-cemented sandstone clasts (5 cm diameter) and a gneiss clast (7 cm diameter) may be cave in.</p> <p><b>SMEAR SLIDE SUMMARY (%):</b></p> <table border="1"> <thead> <tr> <th></th> <th>1, 25</th> <th>2, 100</th> </tr> </thead> <tbody> <tr> <td>M</td> <td></td> <td>M</td> </tr> </tbody> </table> <p><b>TEXTURE:</b></p> <table border="1"> <tbody> <tr> <td>Sand</td> <td>10</td> <td>30</td> </tr> <tr> <td>Silt</td> <td>70</td> <td>30</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>40</td> </tr> </tbody> </table> <p><b>COMPOSITION:</b></p> <table border="1"> <tbody> <tr> <td>Access. minerals</td> <td>Tr</td> <td>Tr</td> </tr> <tr> <td>Amphibole</td> <td>1</td> <td>2</td> </tr> <tr> <td>Clay</td> <td>10</td> <td>30</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>5</td> </tr> <tr> <td>Mica</td> <td>2</td> <td>1</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>10</td> </tr> <tr> <td>Opauques</td> <td>5</td> <td>5</td> </tr> <tr> <td>Pyroxene</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>70</td> <td>45</td> </tr> </tbody> </table>		1, 25	2, 100	M		M	Sand	10	30	Silt	70	30	Clay	20	40	Access. minerals	Tr	Tr	Amphibole	1	2	Clay	10	30	Feldspar	10	5	Mica	2	1	Micrite	—	10	Opauques	5	5	Pyroxene	1	Tr	Quartz	70	45
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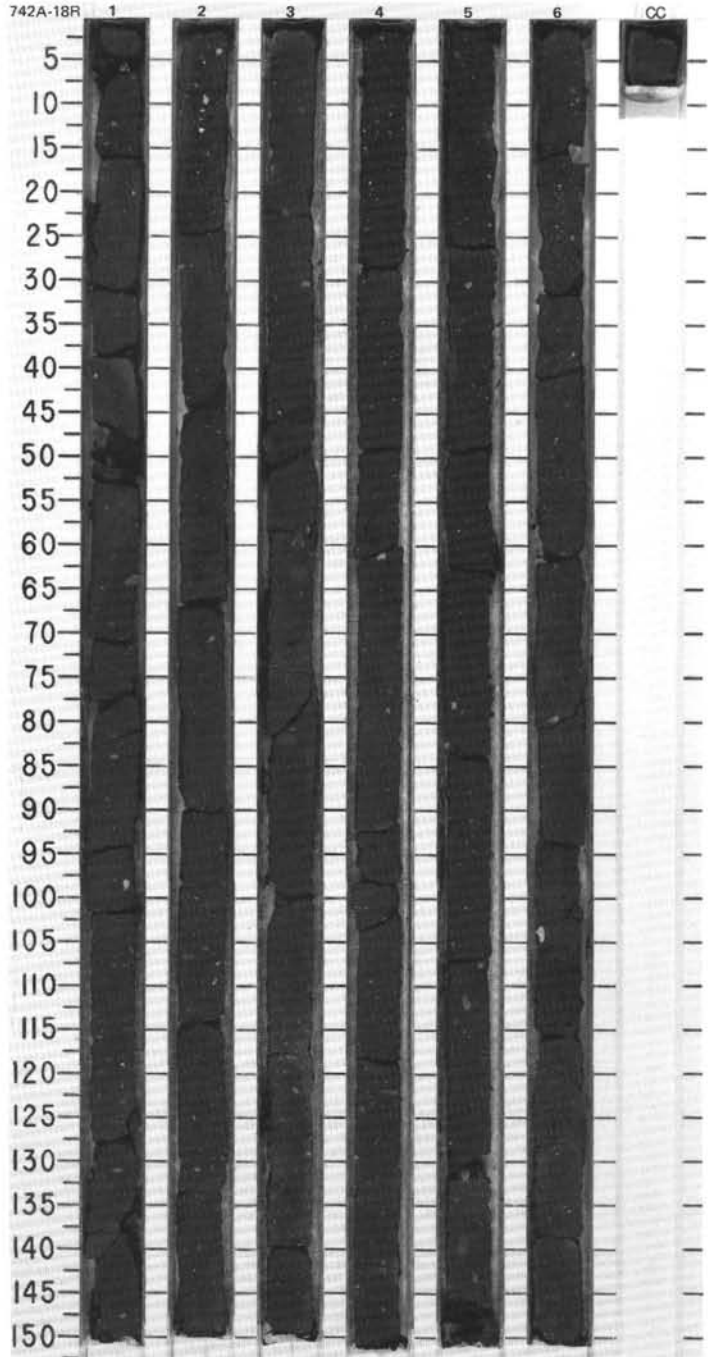


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																									
	FORAMINIFERS	NAKNOFOSSILS	RADIOLARIANS	DIAZONES																																			
					●	V=19.49 W=2.7% M=1.3% I=2.32	●	1	0.5			PP	<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), black (5Y 2.5/1), massive, homogeneous, structureless, compacted but friable. Clasts are up to 6 cm diameter. Clast roundness analysis indicates: 16% angular, 33% subangular, 36% subrounded, 15% rounded (sample size 67). Clasts include various gneisses, vein quartz, feldspar grains, carbonate-cemented sandstone, sandstone, granite, coal (striated, bullet-nosed) and quartzite.</p> <p>Average gravel content: Section 1: 5% Section 2: 7% Section 3: 6% Section 4: 5% Section 5: 1-80 cm, 15% Section 6: 5% Section 7: 5%</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>2, 80</td></tr> <tr><td>D</td></tr> </table> <p>TEXTURE:</p> <table border="0"> <tr><td>Sand</td><td>25</td></tr> <tr><td>Silt</td><td>50</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>Tr</td></tr> <tr><td>Clay</td><td>20</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>Opaques</td><td>7</td></tr> <tr><td>Pyroxene</td><td>Tr</td></tr> <tr><td>Quartz</td><td>50</td></tr> </table>	2, 80	D	Sand	25	Silt	50	Clay	25	Access. Minerals	Tr	Amphibole	Tr	Clay	20	Feldspar	20	Garnet	Tr	Mica	3	Opaques	7	Pyroxene	Tr	Quartz	50
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				●	V=213.4 W=19% M=8% I=2.32	●	2	1.0			*																												
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				●	V=213.4 W=19% M=8% I=2.32	●	4																																
				●	V=21.53 W=11% M=2.28 I=1.1%	●	5																																
				●	V=22% W=20% M=2.47 I=1.0%	●	6																																
				●	V=20.17 W=1.4% M=2.28 I=0.3	●	7																																

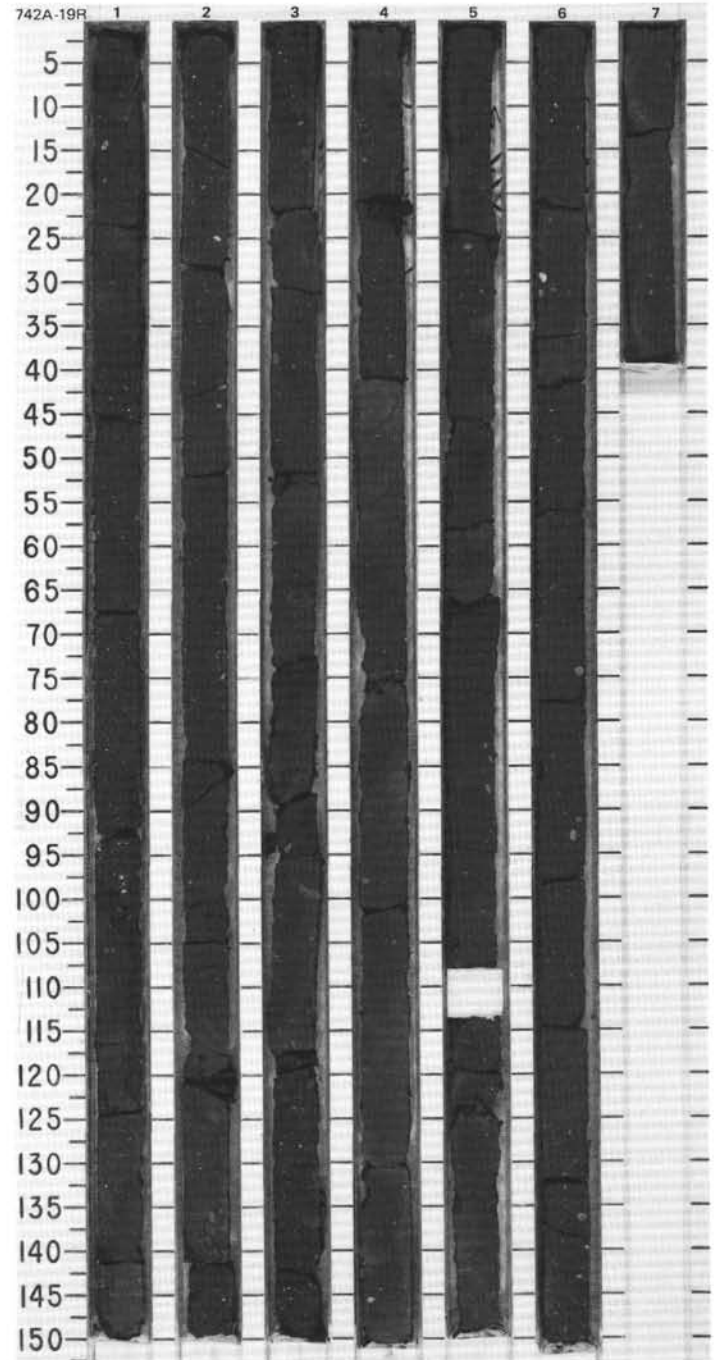


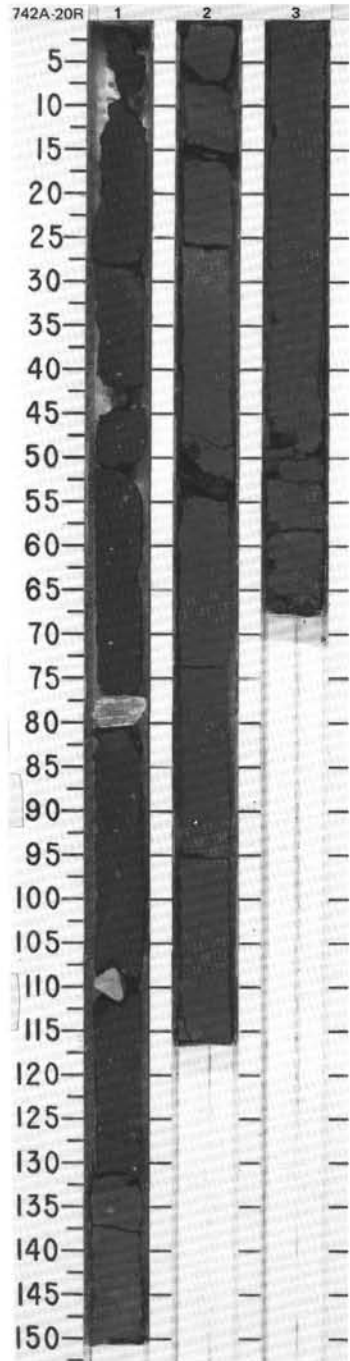
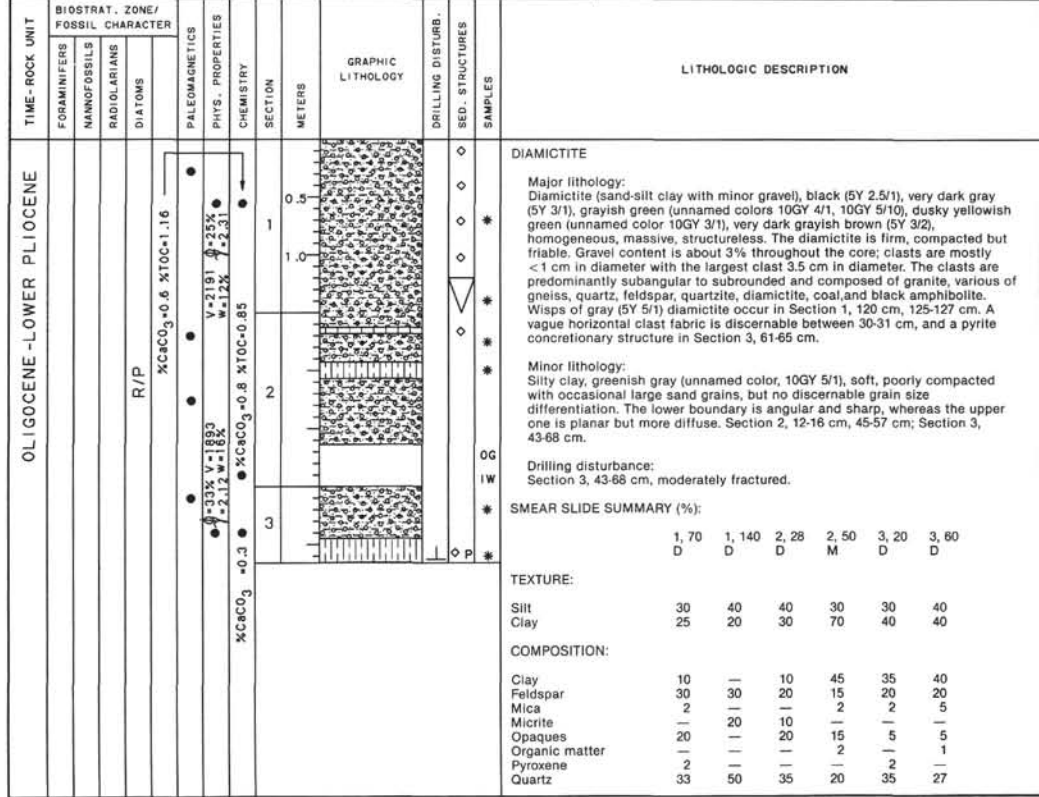
SITE 742 HOLE A CORE 18R CORED INTERVAL 152.0-161.7 mbsf

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																																																	
								0.5						<p>DIAMICTITE</p> <p>Major lithology: Diamictite (clayey silt with sand and minor gravel, sand-silt-clay with minor gravel), black (5Y 2.5/1), massive, homogeneous, structureless, compacted but friable. Two zones with an obvious (acid test) micrite content occur in Section 2, 55-75 cm, and Section 6, 95-112 cm. Clasts are mostly &lt; 1 cm in diameter, the largest is 3 cm in diameter. Clast roundness analysis indicates: 10% angular, 34% subangular, 40% subrounded, 16% rounded (sample size 82). Clasts include quartz, feldspar, various gneisses, vein quartz, sandstone, granite, and coal.</p> <p>Average gravel content: Section 1: 5% Section 2: 7% Section 3: 3-5% Section 4: 5% Section 5: 3-5% Section 6: 3% CC: 1-3%</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>3, 70</td> <td>5, 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>10</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>70</td> <td>50</td> </tr> <tr> <td>Clay</td> <td>20</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>15</td> <td>25</td> </tr> <tr> <td>Feldspar</td> <td>10</td> <td>10</td> </tr> <tr> <td>Mica</td> <td>2</td> <td>2</td> </tr> <tr> <td>Opagues</td> <td>5</td> <td>5</td> </tr> <tr> <td>Pyroxene</td> <td>1</td> <td>Tr</td> </tr> <tr> <td>Quartz</td> <td>65</td> <td>55</td> </tr> </table>		3, 70	5, 80	D		D	Sand	10	20	Silt	70	50	Clay	20	30	Access. minerals	Tr	Tr	Amphibole	Tr	1	Clay	15	25	Feldspar	10	10	Mica	2	2	Opagues	5	5	Pyroxene	1	Tr	Quartz	65	55
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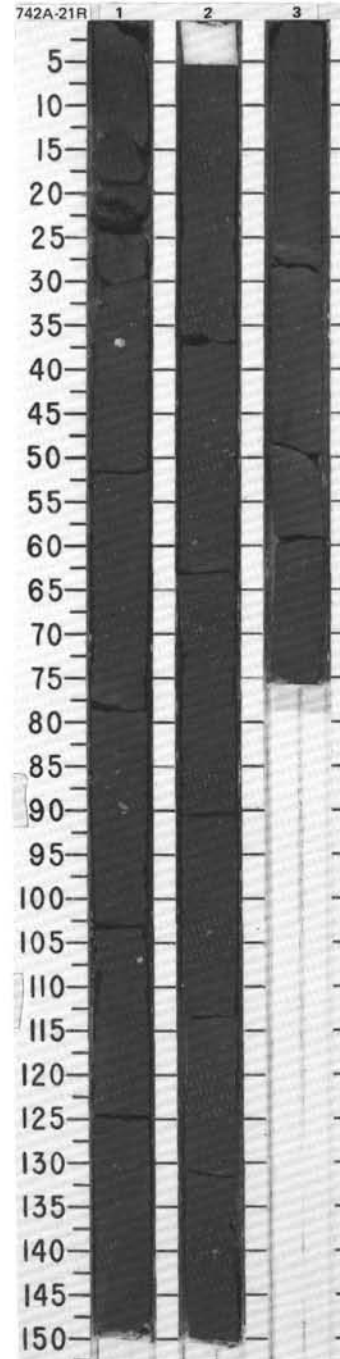
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	BED-STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION	
	FORAMINIFERS	MAMMOFOSSILS	RADIOLARIANS	DIATOMS											
B					●	V=24% W=2.36	%CaCO <sub>3</sub> =0.8	1	0.5 1.0					<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), black (5Y 2.5/1) and very dark gray (5Y 3/1), massive, homogeneous, structureless, compacted but friable. A zone with an obvious (acid test) micrite content occur in Section 3, 72-87 cm. Clasts are mostly &lt;1 cm in diameter, the largest is 3 cm in diameter. Clast roundness analyses in Sections 1-3 and 4 indicate: 18 and 15% angular, 35 and 34% subangular, 35 and 42% subrounded, 12 and 9% rounded, respectively (sample size 86 and 53). Clasts include quartz, feldspar, various gneisses, vein quartz, sandstone, quartzite, granite, and coal.</p> <p>Average gravel content: Section 1: 3% Section 2: 1-3% Section 3: 1-3% Section 4: 0-20 cm, 2-3%                   20-40 cm, 3-5%                   40-150 cm, 2-3% Section 5: &lt;5% Section 6: 2% Section 7: 2%</p> <p>SMEAR SLIDE SUMMARY (%):</p> <p style="margin-left: 40px;">2, 80 D</p> <p>TEXTURE:</p> <p>Sand 25 Silt 40 Clay 35</p> <p>COMPOSITION:</p> <p>Access. minerals Tr Amphibole Tr Clay 30 Feldspar 10 Mica 2 Micrite Tr Opaques 3 Pyroxene Tr Quartz 55</p>	
				●	V=22% W=2.32		2								
				●	V=22% W=2.44		3								
				●	V=21% W=2.44		4								
				●	V=21% W=2.44		5								
				●	V=21% W=2.44		6								
				●	V=21% W=2.44		7								





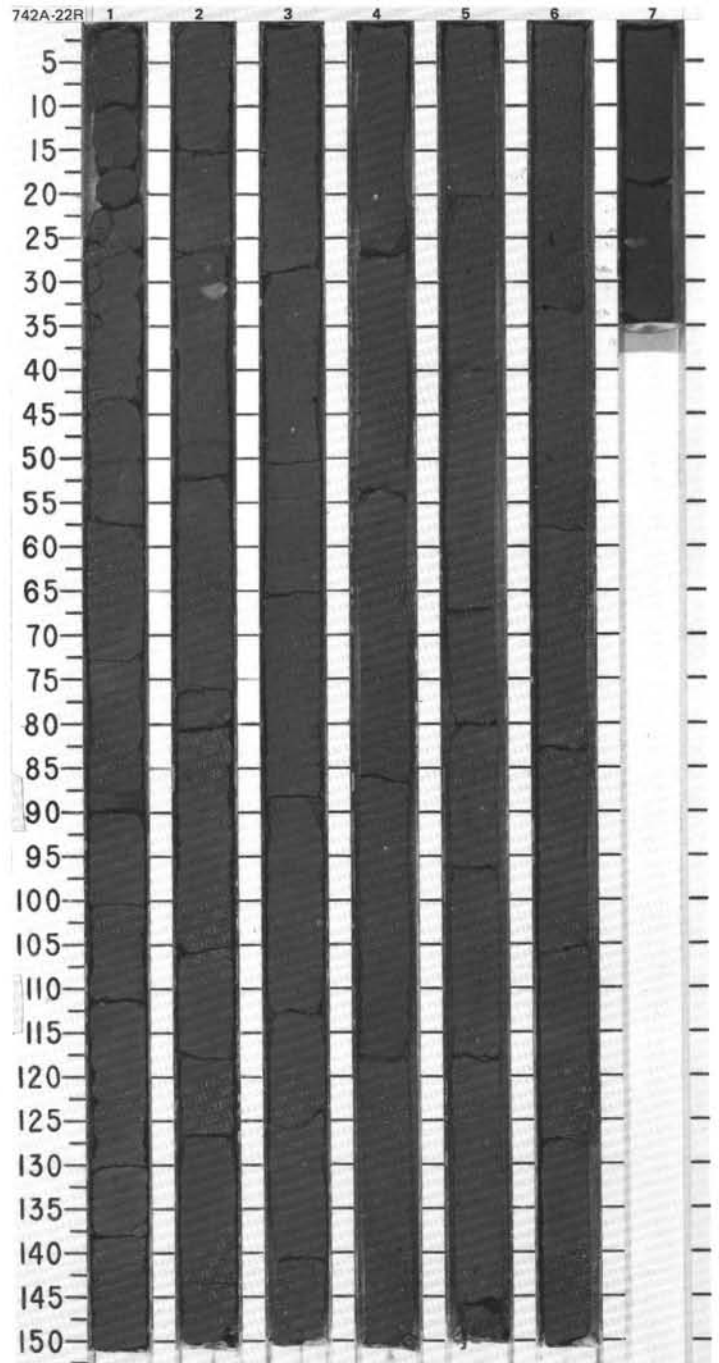


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. BED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NAUFOSSILS	RADIOLARIANS	DIATOMS									
B				B	•	V=2000 $\phi$ =29% W=14% $\delta$ =2.20	• %CaCO <sub>3</sub> = 0.5	1	0.5 1.0		X ◇	* ◇	<p><b>DIAMICTITE</b></p> <p>Major lithology: Diamictite, (sand-silt-clay with minor gravel), dark gray (10Y 4/1), homogeneous, massive, structureless. The diamictite is firm, compacted but friable. The gravel content ranges from 1-3%, but is only 1% in Section 3. Most clasts are &lt;4 mm in diameter with a maximum diameter of 6 mm. The majority of clasts are subrounded to subangular and composed predominantly of quartz, quartzite, granite, gneiss, amphibole and coal. A greenish-black layer about 1cm thick occurs in Section 1, 75-76 cm; its color is due to a green clay mineral (5-10%) which may be glauconite. A small sandy patch is present in Section 2, 49-50 cm.</p> <p>Drilling disturbance: Section 1 is slightly fractured and locally brecciated (16-23 cm); Section 3, is slightly fractured throughout.</p> <p><b>SMEAR SLIDE SUMMARY (%):</b></p> <p style="text-align: right;">1, 75 D</p> <p><b>TEXTURE:</b></p> <p>Sand           40 Silt             40 Clay            20</p> <p><b>COMPOSITION:</b></p> <p>Clay            10 Feldspar       30 Glauconite     7 Mica            7 Opales         7 Pyroxene       5 Quartz         30</p>
B				B	•	V=1958 W=17% $\delta$ =2.14	• %CaCO <sub>3</sub> = 0.5	2			/	PP	
B				B	•	V=1958 W=17% $\delta$ =2.14	• %CaCO <sub>3</sub> = 0.5	3			/		

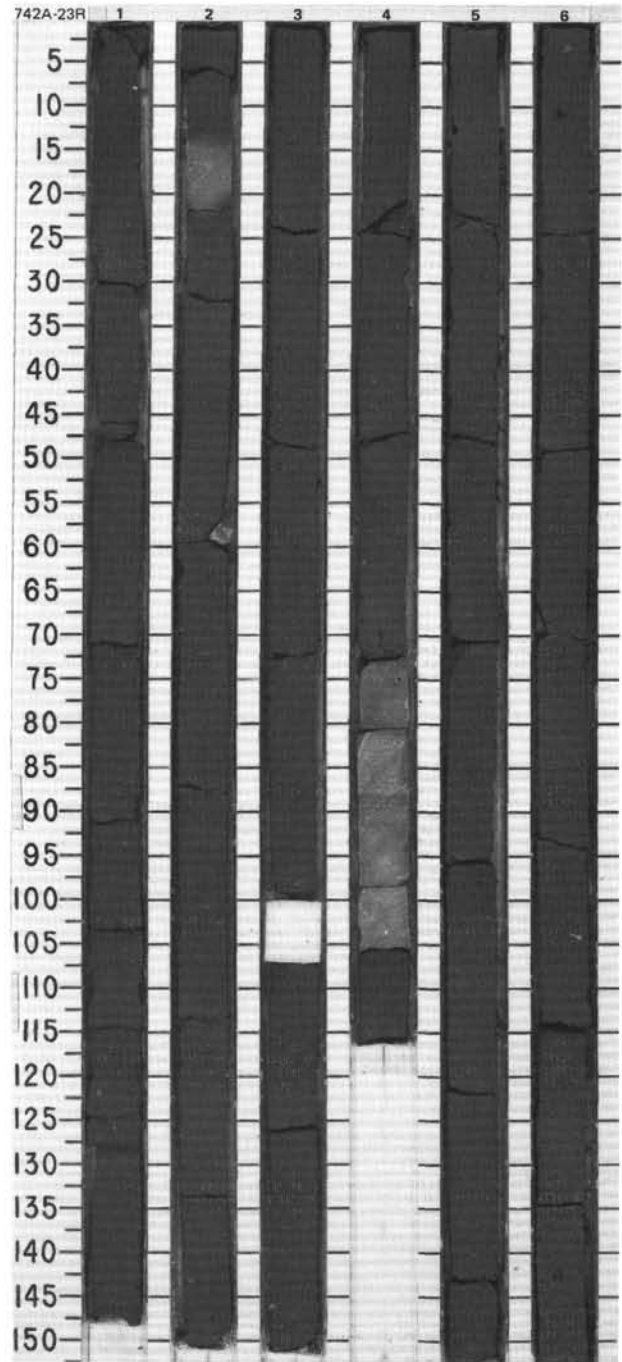


SITE 742 HOLE A CORE 22R CORED INTERVAL 190.7-200.3 mbsf

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																																														
					● 30% ● 2.20			0.5			X	*		<p><b>DIAMICTITE</b></p> <p>Major lithology: Diamictite (sand-silt clay with minor gravel), dark gray (5Y 4/1), homogeneous, massive, structureless. The diamictite is firm, compacted but friable. The gravel component varies from 1-5% throughout the core. The clasts are mainly &lt; 1 cm in diameter, with the largest recorded clast up to 3 cm in diameter; they are mostly subrounded to subangular and composed predominantly of quartz, quartzite, granite and gneiss. The sand content and hence the grain size vary throughout the core. A fine-grained greenish-black layer with sharp upper boundary and gradational lower boundary occurs in Section 1, 87-93 cm.</p> <p>Drilling disturbance: Sections 1, 2 and 3 are slightly fractured. Sections 2 and 3 show bowed color banding due to disturbance during drilling.</p> <p><b>SMEAR SLIDE SUMMARY (%)</b>:</p> <table border="1"> <tr> <td></td> <td>1, 32</td> <td>1, 88</td> </tr> <tr> <td>D</td> <td></td> <td>D</td> </tr> </table> <p><b>TEXTURE:</b></p> <table border="1"> <tr> <td>Sand</td> <td>50</td> <td>0</td> </tr> <tr> <td>Silt</td> <td>30</td> <td>60</td> </tr> <tr> <td>Clay</td> <td>20</td> <td>40</td> </tr> </table> <p><b>COMPOSITION:</b></p> <table border="1"> <tr> <td>Clay</td> <td>20</td> <td>20</td> </tr> <tr> <td>Feldspar</td> <td>17</td> <td>25</td> </tr> <tr> <td>Glauconite</td> <td>—</td> <td>10</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>10</td> </tr> <tr> <td>Opauques</td> <td>15</td> <td>15</td> </tr> <tr> <td>Pyroxene</td> <td>—</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>45</td> <td>15</td> </tr> </table>		1, 32	1, 88	D		D	Sand	50	0	Silt	30	60	Clay	20	40	Clay	20	20	Feldspar	17	25	Glauconite	—	10	Mica	—	10	Opauques	15	15	Pyroxene	—	2	Quartz	45	15
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					● 16.3 ● w=16.3 ● 2.27		2																																											
					● 3.4% ● w=3.4% ● 2.27		3																																											
					● 33% ● V=1931 ● w=1.6% ● 2.17 ● 2.27		4																																											
					● 26% ● V=2053 ● w=1.2% ● 2.27		5																																											
					● 12% ● w=12% ● 2.38 ● 2.27		6																																											
					● 0.4 ● %CaCO <sub>3</sub> =0.4		7																																											



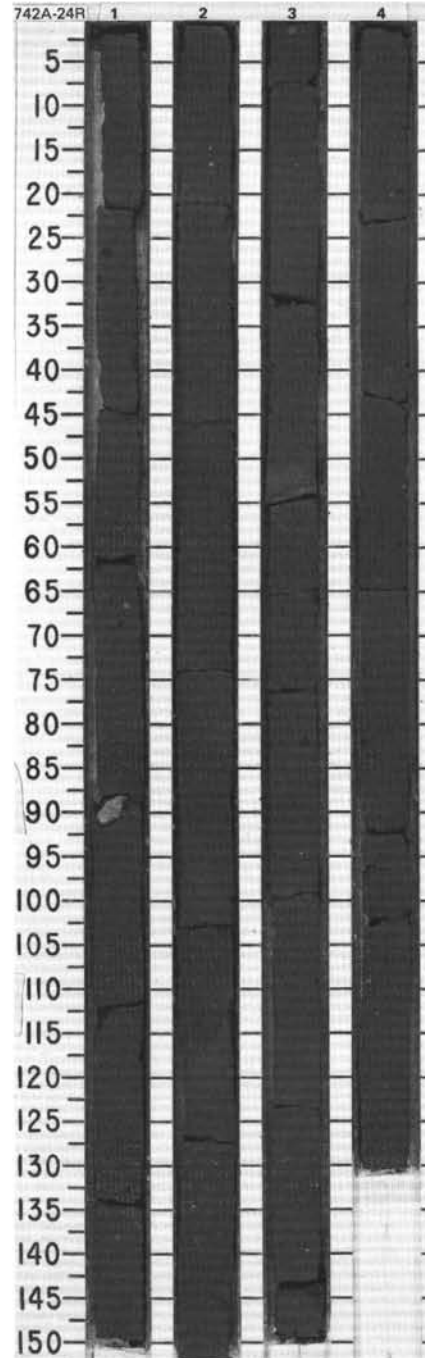
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
					● 27% V=2039 W=12% ● 27% V=2039 W=12% ● 27% V=2039 W=12%				0.5 1.0 2 3 4 5 6					DIAMICTITE  Major lithology: Diamictite (sand-silt clay with minor gravel), dark gray (5Y 4/1), greenish gray (unnamed color 10GY 4/1), homogeneous, massive structureless. The diamictite is firm, compacted but friable. The gravel component varies from 1-5% throughout the core. The clasts are mostly < 1 cm in diameter, the largest clast being 3 cm in diameter; clasts are predominantly subangular to subrounded and include a large proportion (=20%) of black amphibolite clasts in addition to quartz, quartzite, feldspar, granite and gneiss. Finely disseminated pyrite occurs throughout the core. Very dark gray (5Y 3/1) bands 2-3 mm thick occur in Section 1, 110-111 cm and Section 2, 4-5 cm.  Minor lithology: Calcareous diamictite, light gray (5Y 6/1), hard, well lithified and cemented by carbonate; contacts sharp or gradational. Section 2, 14-20 cm; Section 4, 74-106 cm.  SMEAR SLIDE SUMMARY (%):  4, 70 D  TEXTURE:  Sand 60 Silt 25 Clay 15  COMPOSITION:  PP Clay 15 Feldspar 30 Opaques 5 Organic matter 2 Pyroxene 1 Quartz 45  * TS TS OG IW



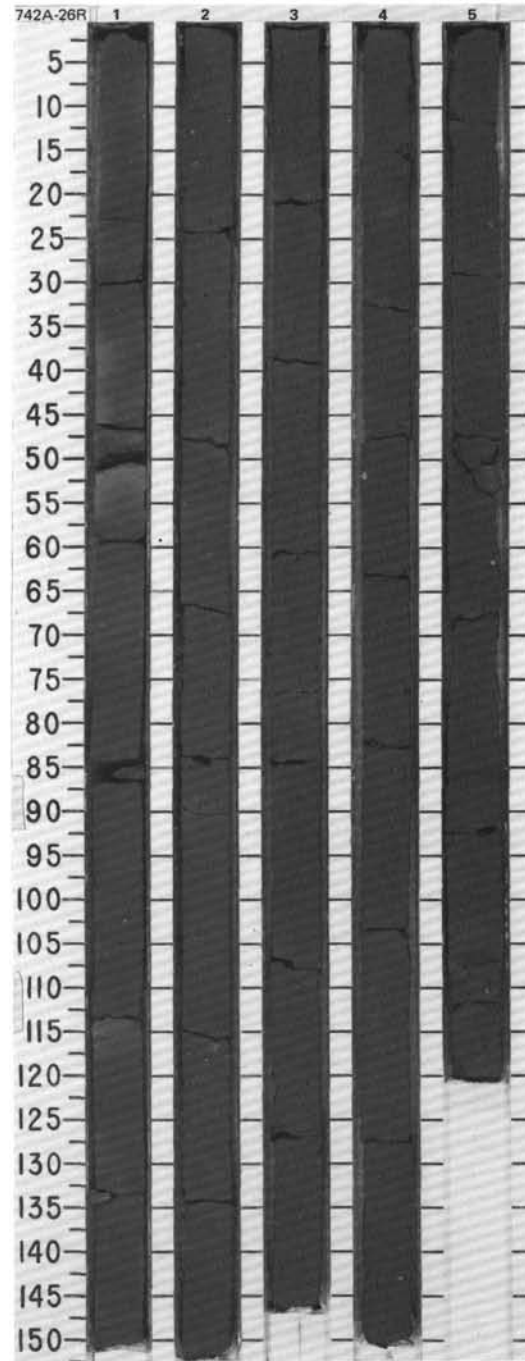
SITE 742 HOLE A CORE 24R CORED INTERVAL 209.9-219.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																								
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									0.5					<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt clay with minor gravel), dark gray (5Y 4/1), homogeneous, massive, structureless. The diamictite is firm, compact and friable, but with a variable sand content. The gravel component ranges from 1-3% throughout the core; clast size is generally &lt;1 cm with the largest being 4.5 cm in diameter. Most clasts are metamorphic and comprise 36% subangular, 29% subrounded, 27% rounded and 7% angular types (sample size 44).</p> <p>Drilling disturbance: Section 2, 79-145 cm shows bowed color banding due to disturbance during drilling.</p> <p>* SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <tr> <td></td> <td>2</td> <td>20</td> <td>3</td> <td>53</td> </tr> <tr> <td></td> <td>D</td> <td></td> <td>M</td> <td></td> </tr> </table> <p>TEXTURE:</p> <table border="1"> <tr> <td>Sand</td> <td>60</td> <td>20</td> </tr> <tr> <td>Silt</td> <td>40</td> <td>70</td> </tr> <tr> <td>Clay</td> <td>0</td> <td>10</td> </tr> </table> <p>COMPOSITION:</p> <table border="1"> <tr> <td>Clay</td> <td>5</td> <td>5</td> </tr> <tr> <td>Feldspar</td> <td>15</td> <td>30</td> </tr> <tr> <td>Glaucanite</td> <td>1</td> <td>—</td> </tr> <tr> <td>Mica</td> <td>3</td> <td>—</td> </tr> <tr> <td>Opacues</td> <td>5</td> <td>—</td> </tr> <tr> <td>Organic matter</td> <td>2</td> <td>2</td> </tr> <tr> <td>Quartz</td> <td>65</td> <td>55</td> </tr> </table>		2	20	3	53		D		M		Sand	60	20	Silt	40	70	Clay	0	10	Clay	5	5	Feldspar	15	30	Glaucanite	1	—	Mica	3	—	Opacues	5	—	Organic matter	2	2	Quartz	65	55
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742 A 25R NO RECOVERY

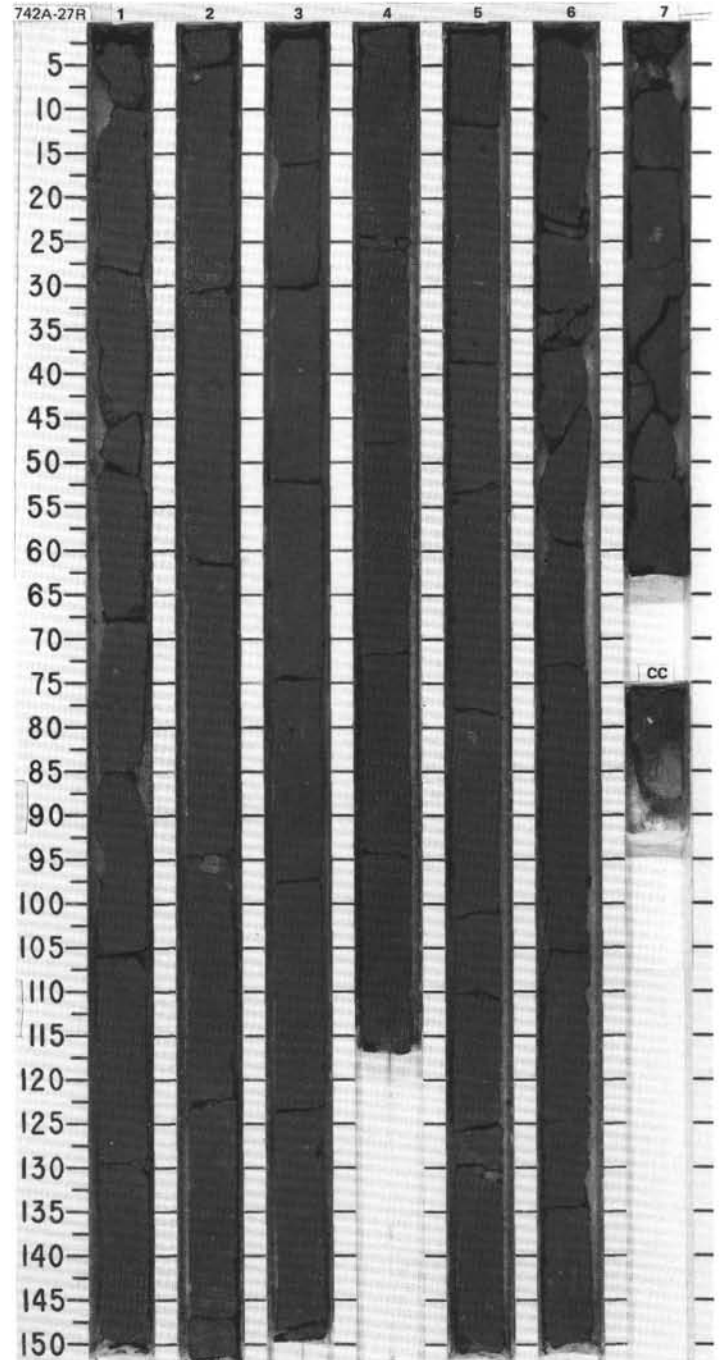


TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB. SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION																																																																																
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS								PHYS. PROPERTIES	CHEMISTRY																																																																														
						1	0.5 1.0		*	*	<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt clay with minor gravel), dark gray (5Y 4/1), homogeneous, massive, structureless. The diamictite is firm, compact but friable; the sand content is variable. The gravel component varies from 1-5%; clasts are generally &lt; 1 cm in diameter with a maximum diameter of 2 cm. Most clasts are subangular to subrounded and of metamorphic origin, with a large proportion (20-30%) of small (&lt; 1.5 cm diameter), black elongate amphibolite clasts. A greenish layer occurs in Section 1, 76-97 cm, and a light grayish green layer in the same section between 113-117 cm.</p> <p>Drilling disturbance: Section 5 shows bowed color banding due to disturbance during drilling.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table border="1"> <thead> <tr> <th></th> <th>1, 63 D</th> <th>1, 83 D</th> <th>1, 91 M</th> <th>1, 113 M</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>20</td> <td>50</td> <td>5</td> <td>40</td> </tr> <tr> <td>Silt</td> <td>50</td> <td>30</td> <td>0</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>20</td> <td>95</td> <td>40</td> </tr> </tbody> </table> <p>TEXTURE:</p> <table border="1"> <thead> <tr> <th></th> <th>20</th> <th>50</th> <th>5</th> <th>40</th> </tr> </thead> <tbody> <tr> <td>Sand</td> <td>20</td> <td>50</td> <td>5</td> <td>40</td> </tr> <tr> <td>Silt</td> <td>50</td> <td>30</td> <td>0</td> <td>20</td> </tr> <tr> <td>Clay</td> <td>30</td> <td>20</td> <td>95</td> <td>40</td> </tr> </tbody> </table> <p>COMPOSITION:</p> <table border="1"> <thead> <tr> <th></th> <th>35</th> <th>20</th> <th>—</th> <th>15</th> </tr> </thead> <tbody> <tr> <td>Clay</td> <td>35</td> <td>20</td> <td>—</td> <td>15</td> </tr> <tr> <td>Feldspar</td> <td>20</td> <td>30</td> <td>—</td> <td>20</td> </tr> <tr> <td>Mica</td> <td>—</td> <td>3</td> <td>—</td> <td>—</td> </tr> <tr> <td>Micrite</td> <td>—</td> <td>—</td> <td>94</td> <td>20</td> </tr> <tr> <td>Organic Matter</td> <td>5</td> <td>2</td> <td>—</td> <td>—</td> </tr> <tr> <td>Pyroxene</td> <td>2</td> <td>—</td> <td>—</td> <td>—</td> </tr> <tr> <td>Quartz</td> <td>35</td> <td>40</td> <td>5</td> <td>40</td> </tr> </tbody> </table>		1, 63 D	1, 83 D	1, 91 M	1, 113 M	Sand	20	50	5	40	Silt	50	30	0	20	Clay	30	20	95	40		20	50	5	40	Sand	20	50	5	40	Silt	50	30	0	20	Clay	30	20	95	40		35	20	—	15	Clay	35	20	—	15	Feldspar	20	30	—	20	Mica	—	3	—	—	Micrite	—	—	94	20	Organic Matter	5	2	—	—	Pyroxene	2	—	—	—	Quartz	35	40	5	40
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SITE 742 HOLE A CORE 27R CORED INTERVAL 238.8-248.5 mbsf

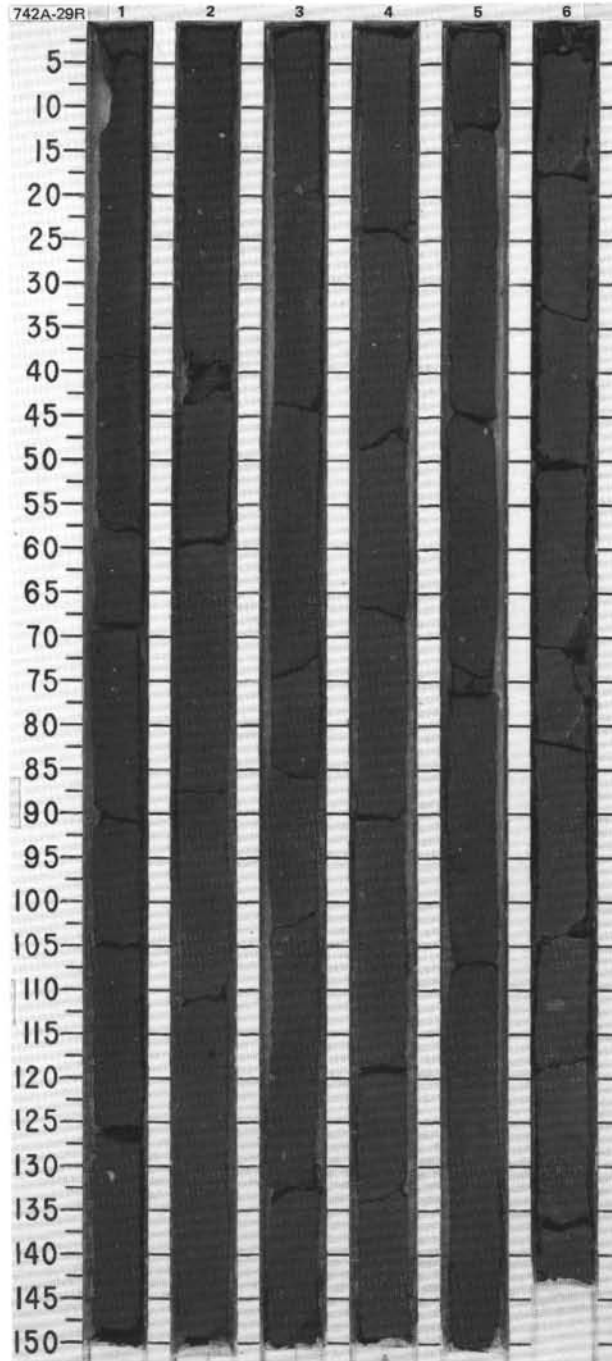
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER				PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS										
					●	●	●	●	0.5					<p><b>DIAMICTITE</b></p> <p>Major lithology: Diamictite (sand-silt clay and clay-silt sand with minor gravel), dark gray (5Y 4/1), homogeneous, massive, structureless. The diamictite is firm, compact, but slightly friable. The gravel component varies from 1-5% throughout the core. The clasts are generally &lt; 1 cm in diameter with a maximum diameter of 3 cm. The clasts are composed mainly of igneous and metamorphic rocks and comprise 40% subrounded, 33% rounded and 26% subangular types (sample size 15). Several clast cavities are lined with fine pyrite; sand content and grain size vary throughout the core. The grains are composed mainly of quartz, gneiss, pyroxene, igneous and metamorphic material. Shells occur in Section 3, 6 cm; Section 5, 12 cm. Faint blotches of paler gray material occur near the base of Section 4. Light gray patches cemented by carbonate are present in the core catcher, 7-13 cm.</p> <p>Drilling disturbance: Section 6, 0-20 cm, slightly fractured, 20-54 cm, moderately fractured.</p> <p><b>SMEAR SLIDE SUMMARY (%):</b></p> <p style="margin-left: 40px;">5, 14 D</p> <p><b>TEXTURE:</b></p> <p>Sand 5 Silt 80 Clay 15</p> <p><b>COMPOSITION:</b></p> <p>Clay 5 Feldspar 25 Glauconite 10 Organic matter 7 Quartz 50</p>
					●	●	●	1						
					●	●	●	2						
					●	●	●	3						
					●	●	●	4						
					●	●	●	5						
					●	●	●	6						
					●	●	●	7						
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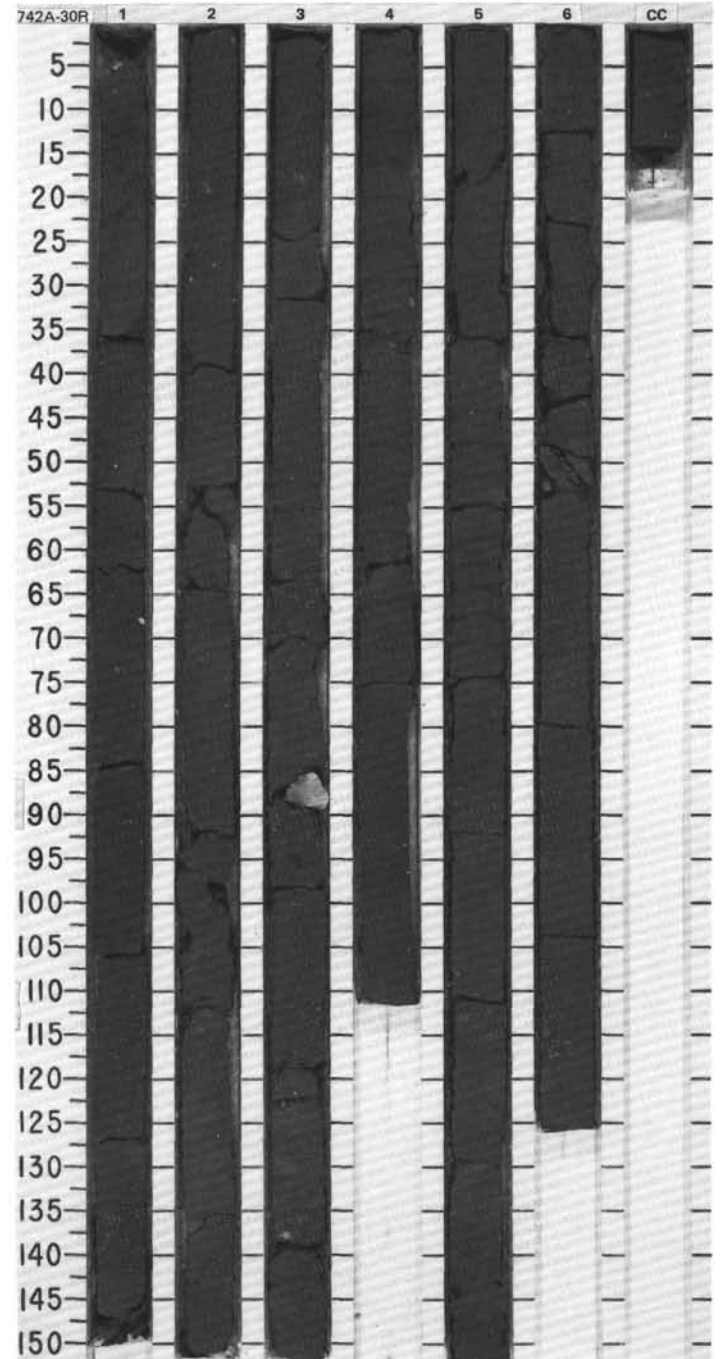
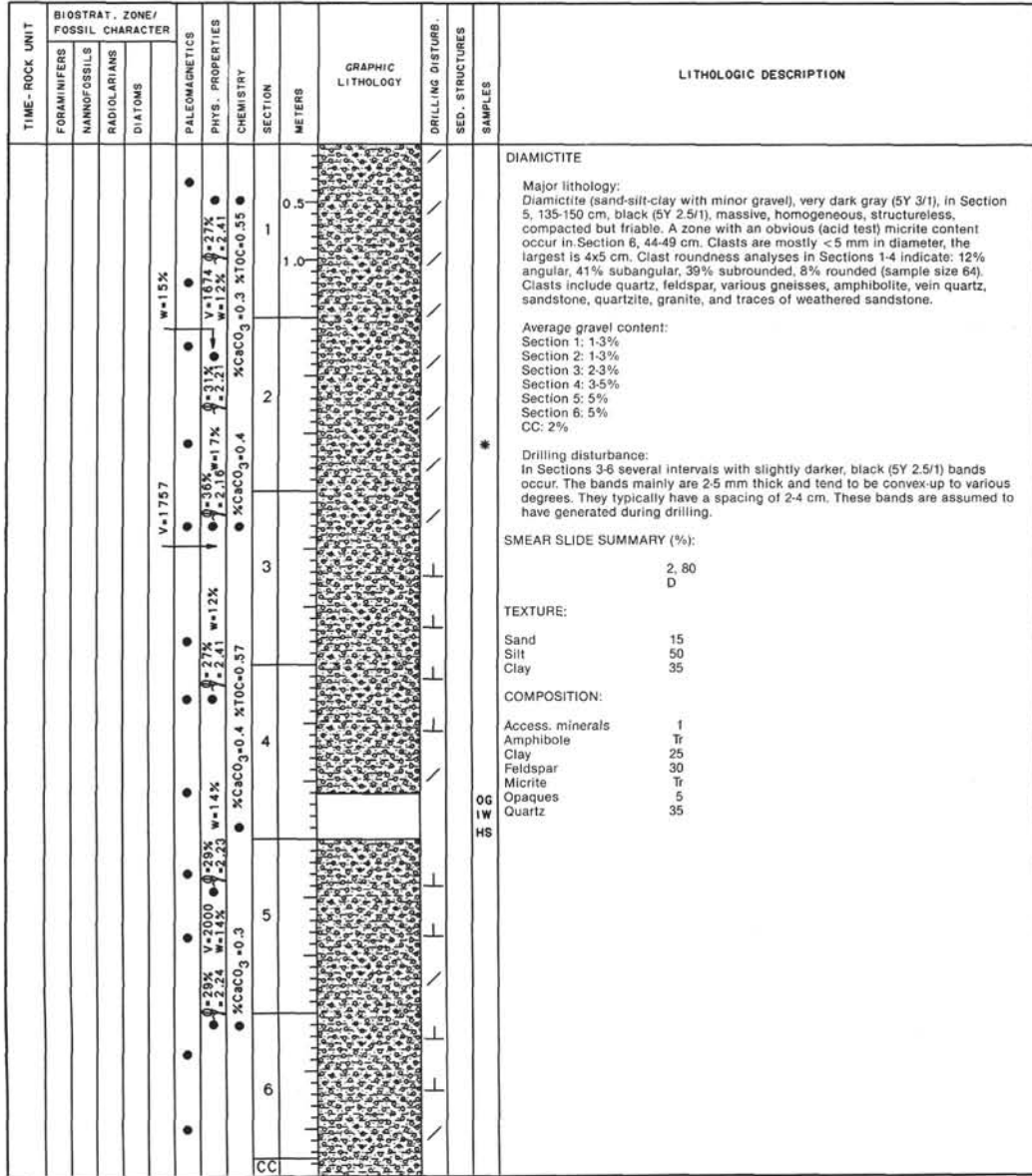


SITE 742 HOLE A CORE 29R CORED INTERVAL 258.1-267.8 mbsf

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																																
									0.5					<p><b>DIAMICTITE</b></p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1), massive, homogeneous, structureless, compacted but friable. Clasts are mostly granule size, the largest is 2 cm in diameter. Clast roundness analyses in Sections 1-6 indicate: 6% angular, 42% subangular, 40% subrounded, 12% rounded (sample size 50). Clasts include quartz, feldspar, vein quartz, amphibolite, various gneisses, but no obvious sedimentary rocks.</p> <p>Average gravel content: Section 1: 1-3% Section 2: 2% Section 3: 1% Section 4: 2% Section 5: 1% Section 6: 1%</p> <p>* SMEAR SLIDE SUMMARY (%):</p> <table border="0"> <tr><td>2.90</td></tr> <tr><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>20</td></tr> <tr><td>Feldspar</td><td>20</td></tr> <tr><td>Micrite</td><td>Tr</td></tr> <tr><td>Opaques</td><td>5</td></tr> <tr><td>Quartz</td><td>55</td></tr> </table>	2.90	D	Sand	20	Silt	50	Clay	30	Access. Minerals	Tr	Amphibole	Tr	Clay	20	Feldspar	20	Micrite	Tr	Opaques	5	Quartz	55
2.90																																				
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Micrite	Tr																																			
Opaques	5																																			
Quartz	55																																			
					V=1.795, W=1.13%	%CaCO <sub>3</sub> =0.3		1.0																												
					V=2.26%, W=2.45%	%CaCO <sub>3</sub> =0.3		2.0																												
					V=2.7%, W=2.30%, W=1.2%, W=1.1%	%CaCO <sub>3</sub> =0.3		3.0																												
					V=2.7%, W=1.808%	%CaCO <sub>3</sub> =0.3		4.0																												
					V=2.35%, W=1.2%	%CaCO <sub>3</sub> =0.3		5.0																												
					V=2.35%, W=1.2%	%CaCO <sub>3</sub> =0.3		6.0																												

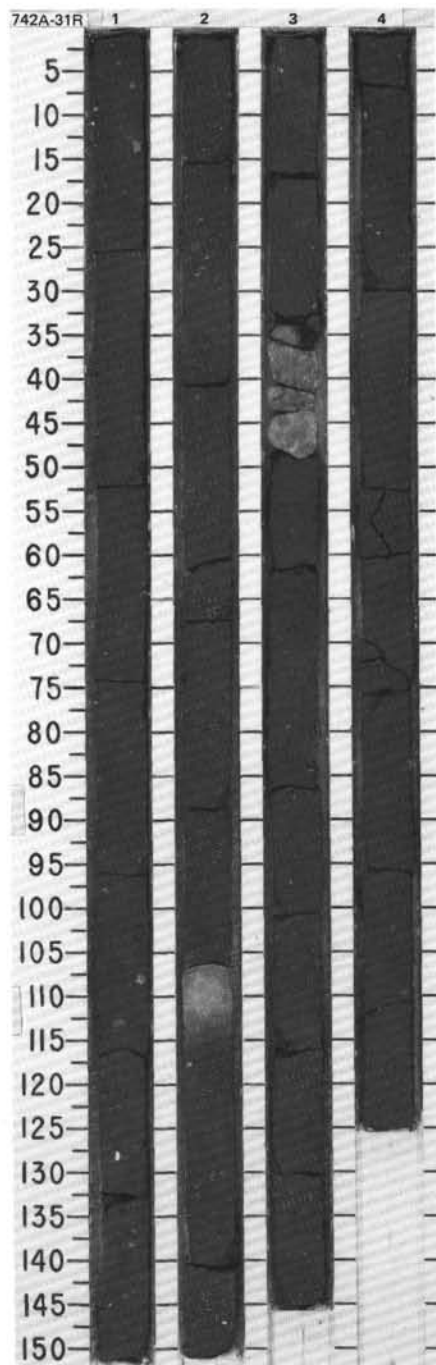






SITE 742 HOLE A CORE 31R CORED INTERVAL 277.4-287.1 mbsf

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																														
					●	V=7061 W=122%	● %CaCO <sub>3</sub> =0.3	1	0.5					<p>DIAMICTITE</p> <p>Major lithology: Diamictite (sand-silt-clay with minor gravel), very dark gray (5Y 3/1) and dark gray (5Y 4/1), massive, homogeneous, structureless, compacted but friable. A zone with an obvious (acid test) micrite content occur in Section 2, 100-125 cm. Within this zone, there is a distinct interval (107-112 cm) where the diamictite is carbonate-cemented, hard and black (5Y 2.5/1). Clasts are mostly &lt;5 mm in diameter, the largest is 15 cm downcore. Clast roundness analyses in Sections 1-4 indicate: 10% angular, 32% subangular, 46% subrounded, 12% rounded (sample size 50). Clasts include quartz, feldspar, various fresh and weathered gneisses, amphibolite, vein quartz, quartzite. The large clast in Section 3, 33-48 cm, is and quartz-feldspar-amphibole-garnet-pyroxene gneiss.</p> <p>SMEAR SLIDE SUMMARY (%):</p> <table> <tr><td>Sand</td><td>15</td></tr> <tr><td>Silt</td><td>50</td></tr> <tr><td>Clay</td><td>35</td></tr> </table> <p>* TEXTURE:</p> <table> <tr><td>Access. minerals</td><td>1</td></tr> <tr><td>Amphibole</td><td>Tr</td></tr> <tr><td>Clay</td><td>25</td></tr> <tr><td>Feldspar</td><td>30</td></tr> <tr><td>Micrite</td><td>Tr</td></tr> <tr><td>Opaques</td><td>5</td></tr> <tr><td>Quartz</td><td>35</td></tr> </table>	Sand	15	Silt	50	Clay	35	Access. minerals	1	Amphibole	Tr	Clay	25	Feldspar	30	Micrite	Tr	Opaques	5	Quartz	35
Sand	15																																	
Silt	50																																	
Clay	35																																	
Access. minerals	1																																	
Amphibole	Tr																																	
Clay	25																																	
Feldspar	30																																	
Micrite	Tr																																	
Opaques	5																																	
Quartz	35																																	
				●	V=2076 W=11%	● %CaCO <sub>3</sub> =0.3	2	1.0																										
				○	V=2076 W=11%	● %CaCO <sub>3</sub> =0.3	3																											
				○	V=2076 W=11%	● %CaCO <sub>3</sub> =0.3	4																											





SITE 742 HOLE A CORE 33R CORED INTERVAL 296.7-306.3 mbsf

