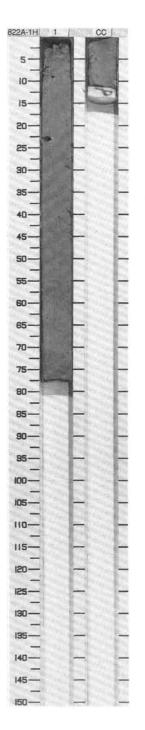
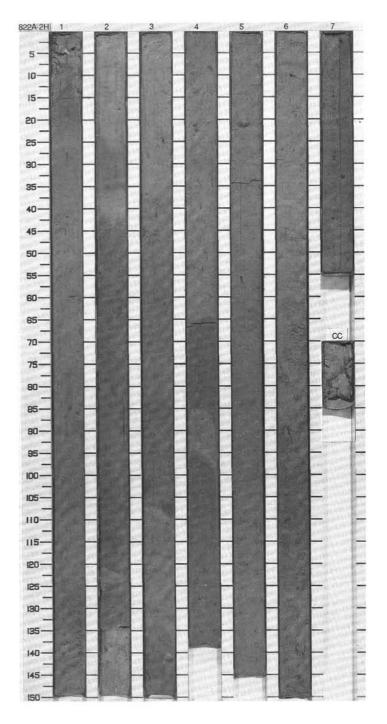
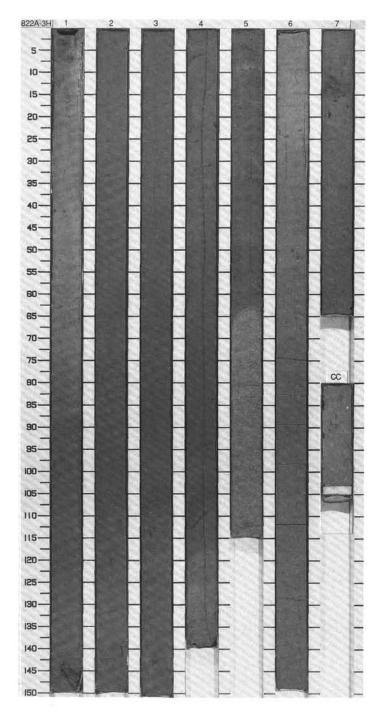
				ONE/	R	97	ES					RB.	83			
I ME HOOF O	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS		PALEOMAGNETIC	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES		LITHOLOGIC DESCRIPTION
100000000000000000000000000000000000000	N22-h	CNIS							1	0 .5		1	1	*	Major Lithology: Unlithified, MICRITIC OOZE/MUD with but are the same lithology.	%):
	A/G	A/A													COMPOSITION:	1, 40 D
															Bioclast Foraminifers Micrite Nannofossils Quartz Siliceous sponge spicules Spicules	29 5 5 15 5 3 15



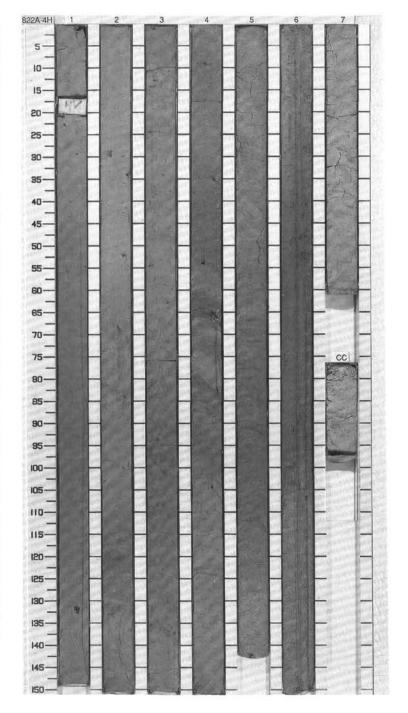
UNIT				ZONE/	09	IES				JRB.	83		
TIME-ROCK U	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					z	• 60.1%	. 17.5%	1	0.5		* * *	*	CLAYEY MICRITIC CALCAREOUS OOZEMUD with BIOCLASTS and NANNOFOSSILS Major Lithology: Unlithified, soft to firm, CLAYEY MICRITIC CALCAREOUS MUD with BIOCLASTS and NANNOFOSSILS. Color is different shades of green with minor whitish tight brownish gray variations (5Y 511, 52, 611 and 52; 107 71. 411, and 62; and, 587 411). Abrupt to transitional changes in color occur over millimeters to ten's of centimeters apparently associated with variation in clay content. Minor Lithology: Soft, whitish gray (5Y 6/1), unlithified, CLAYEY NANNOFOSSIL OOZE with BIOCLASTS and MICRITE occurs within upper and lower parts of Section 2. Lenses of BIOCLASTIC PACKSTONE with PTERIOPOD fragments occur in Section 6 interbeddee with BIOCLASTIC CALCAREOUS OOZE with NANNOFOSSILS and OUARTZ. Locally.
					z	58.8%		2					burrows are filled with pyritic coarse sand-size FORAMINIFER PACKSTONE. PTERÓPOI fragments are sparsely scattered throughout core. SMEAR SLIDE SUMMARY (%): 1, 126 6, 67 6, 116 D D D COMPOSITION:
Z L					z	62.8%	• 63.6%	3			* **		Bioclast 50 25 10 Calcite
TLEIS OUENE	N22-N23	CN15			z	67.6		4					Spicules 5 3 Tunicate Tr 1
					z	• 60.4% • 1.73	86.7%	5			* *		
					z	9,61,5%	•	6	0000			*	
	A/G	A/G			z			7	000	2 '			



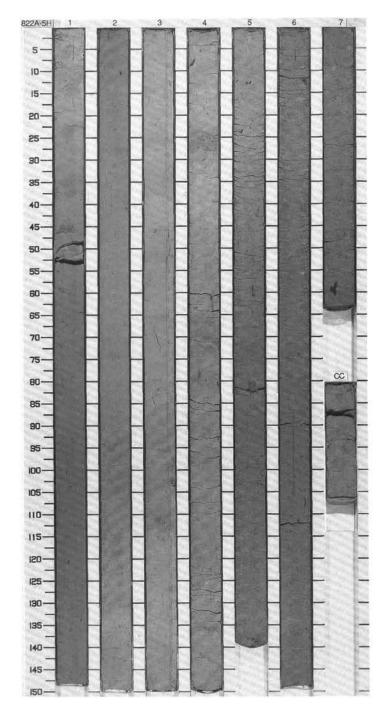
	-		_	HOL ZONE/	Ť	Ä	-			RE	-				ERVAL 10.4-19.9 mbsf
TIME-ROCK UNIT		SSIL	CH	ARACTE	ER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
						Z	01.74%	● %0.07	1	0.5					CLAYEY CALCAREOUS MIXED SEDIMENT with BIOCLASTS. NANNOFOSSILS and MICRITE and CLAYEY NANNOFOSSIL OOZE with BIOCLASTS. Major Lithologies: In Sections 2.4: CLAYEY CALCAREOUS MIXED SEDIMENT (MUD) wit BIOCLASTS, NANNOFOSSILS and MICRITE is unlithilited but lirm; bioturbated and medium to dark greenish gray (5GY 5/1 and 4/1). In Sections 1 and 5 - 6, greenish gray (10Y STI), irm, bioturbated CLAYEY NANNOFOSSIL OOZE with BIOCLASTS has a slightly higher carboniate content. Soft sediment deformation (slumping?) occurs at the base of Section 4 and top of Section 5. light greenish gray (10Y 6/1) NANNOFOSSIL
						2	91.91		2	mulmin		1			OOZE/MUD with QUARTZ has color banding. SMEAR SLIDE SUMMARY (%): 1, 51 3, 78 5, 85 D D D COMPOSITION:
Į.						2	1.82	654.7%	3	1				*	Bioclast 30 5 35 Calcite 20 5 Calcite 20 Calcite 20
PLEISIOCENE	N22-N23	CN15			2	2	1.876	.1%	4		000000000000000000000000000000000000000		**		
						Z		67.3%	5				^	*	
					2	1	957.3%	• **	6				* * * * *	OG	
	A/G	A/G			2	N	6 62.3%	.53	7 CC					PAL	



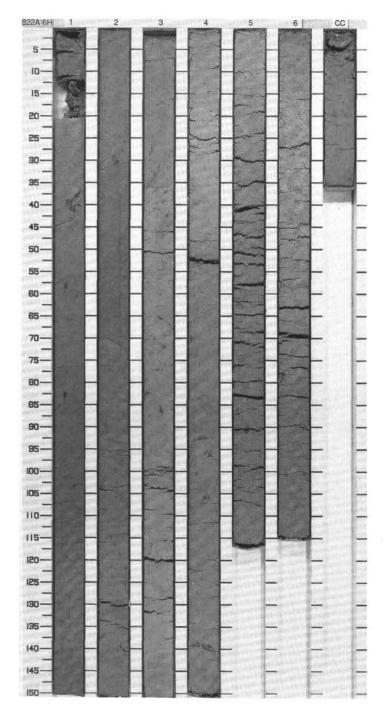
- IN	FOS	STR	CHA	ZONE/	99	158				RB.	S3		
TIME-ROCK UP	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOG		SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					Z	9 59.4%	64.8%	1	0.5		1		NANNOFOSSIL COZE with CLAY and BIOCLASTS and CLAYEY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS Major Lithology: Firm, unlithified, gray (SY 5/1) NANNOFOSSIL COZE with CLAY and BIOCLASTS. Some burrows are filled with pyritic FORAMINIFERS and BIOCLASTS. Finely laminated and slightly convoluted bedding occurs from 110-150 cm in Section 2 through to Section 5 at the margins of the core. Variegated shades of gray (5Y 8/1 to 7/1) between adjacent laminations may reflect variations in clay content with darker greenish gray laminae being CLAYEY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS. In Sections 6 and 7, thin bedding is reflected by similar color variations but have higher carbonate contents.
					z	55.	.6%	2			1	*	SMEAR SLIDE SUMMARY (%): 2, 20 3, 120 7, 34 D D D COMPOSITION: Bioclast 20 30 20 Clay 10 15
					z	59.9% 1.85	x9.73.	3			}	*	Foraminfers Tr Micrite 15 10 10 Nannofossils 40 48 55 Peropod 2 Cuartz Tr 2 Siliceous sponge spicules 3 Tr Tr Spicules 10 10
PLEISIOCENE	N22 - N23	CN14a			z	58.5%	.5%	4			88 >		
					z		• 62	5			<u>۲</u>		
					z			6				TW	
	A/M	A/G			z	57.0%	*7.87.	7				*	

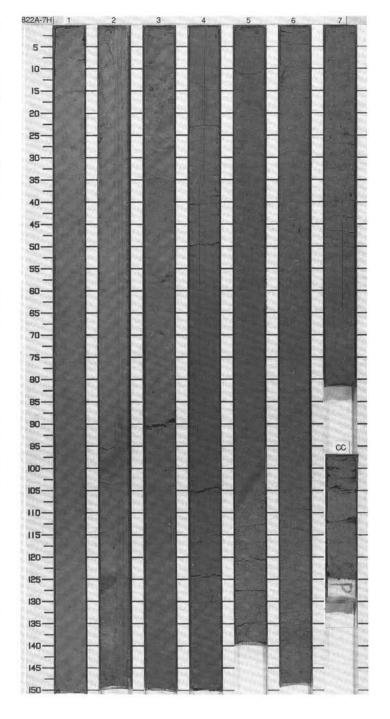


Part			
Major Liflology: Firm. unlithinited. (chades of) greenash gray (SCY 61. Sr1, at 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.			
1			
SMEAR SLIDE SUMMARY (%): 1, 12	BIOCLAST upt to downward (LAS vard	rd (f
1, 12 1, 110 3,80 4,118 6,80			
Control Cont			
Cay 10 10 10 10 10 10 10 1			
Clay			
Dolomite 5 Self-stage 5			
CC Name 1 20 Tr Micrite 10 10 12 25 25 Micrite 10 10 12 25 Micrite 10 10 Micrite 10 10 Micrite			
## Annolossis			
Perception			
Column C			
Siliceous sponge spicules Tr Tr 1 2 Spicules 5 10 Trunicate 5 10			
X X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y			
X X X Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y			
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N			
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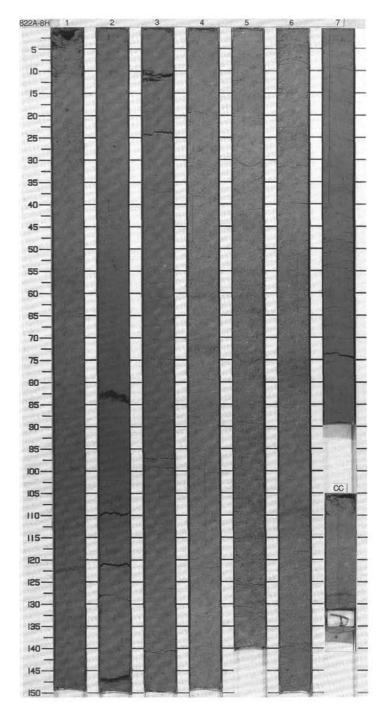


UNIT	FO	SSIL	AT.	ZONE/	R GO	ES				RB.	92	Г	
TIME-ROCK U	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					z	55.9% 57.6%		1	0.5		* * *	*	CLAYEY NANNOFOSSIL CALCAREOUS COZE/MUD with BIOCLASTS and FORAMINIFERS Major Lithogy: Firm, unlithitled, greenish gray (light to dark: 5GY 7/1, 6/1.5/1, 10Y 5/2), CLAYEY NANNOFOSSIL COZE/MUD with BIOCLASTS and FORAMINIFERS, Bioturbates with scattered PTEROPODS and other SHELL FRAGMENTS. Has numerous gas expansion cracks in lower part. Minor Lithology: Some burrows are filled with FORAMINIFER PACKSTONE having some pyrite-fillad grains.
					z			2			* * * · · ·		SMEAR SLIDE SUMMARY (%): 1, 75 3, 75 4, 90 D M COMPOSITION: Bioclast 15 20 30 Calcite 3 4
.NE	3				z	653.3%	.1.78	3			\$\$ &	*	Clay 25 25 20 Dollomite 1 Foraminifers 10 5 10 Lithic tragments 2 Nannofossils 37 29 35 Quartz 3 5 Tunicate 4 9 5
PLEISIOCENE	N22 - N23	CN14a			z	56.6%		4			%&&		
						54.4%	• 74.3					*	
					z	● 55.9% 1.85	• 71.3	5				og	
	A/G	A/G			z			6 CC					

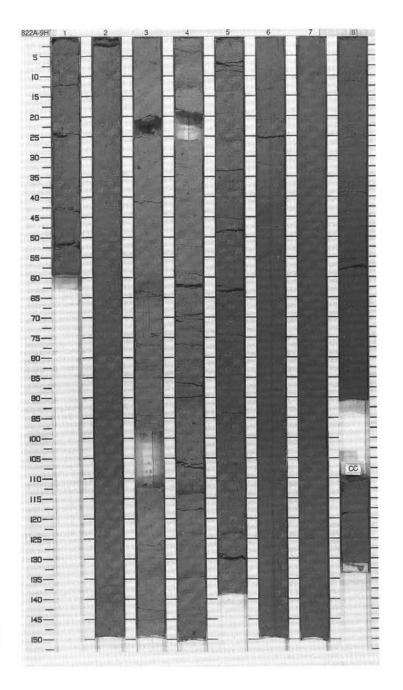




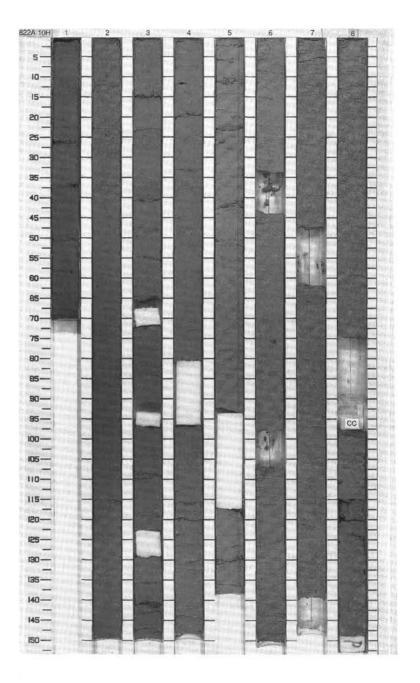
_	_	322	_	HOLE ZONE/	-			CO	RE 8H	7	T			ERVAL 57.9-67.4 mbsf
-	F08	SIL	CHA	ZONE/ RACTER	on .	SE					JRB.	83		
TIME-ROCK U	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPH LITHOLO	C IGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
						.5%	9% •		1					CLAYEY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS to CLAYEY to SILTY NANNOFOSSIL OOZEMUD with QUARTZ
					α	1.88	46.3%	1	1.0-1		1	1		Major Lithology: Firm, unlithilitied, dark to lighter greenish gray (5GV 4/1 and 5/1), CLAYE' NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS. Typically has gradational changes in color. CLAYEY to SILTY NANNOFOSSIL OOZE/MID with OUARTZ sit occurs in Sections 4, 5, and upper part of 6. Both inhologies are bioturbated. SHELL FRAGMENTS occur in Section 4. Slightly DOLOMITIC in Section 5, Gas expansion cracks are common
						53.4%						1	*	Minor Lithology: In Section 1 at 122-123 cm, a 1 cm thick laminae of FORAMINIFER BIOCLASTIC PACKSTONE is graded from very fine sand to silt. Burrows are filled with sand-size BIOCLASTIC PACKSTONE with some pyritized grains.
									三十屋					SMEAR SLIDE SUMMARY (%):
					œ			2	1			ŧ	*	1, 123 2, 75 5, 75 M D D
						1.85	.8%					ŧ		COMPOSITION: Bioclast 12 10 1 Calcite 10 6 14
						5.4	0 43.8%	Г	E			٤		Clay 25 29 22 Dolomite 22
									1-1-1	픨		١		Foraminifers 18 12 10 Lithic fragments 6 8 1
					z			3	1 1-1-1			٤		Nannofossils 25 28 22 Pyrite 2
									1 - 1			١		Ouartz 5 6 Tunicate 2 1 1
						51.6%						١		
PLEIS I UCENE	N23								事					
3	Z	148			z				丰			1		
0	5.5	CN1			-			4	1	1		1		
7	N2											Ø		
						3,00	×		掛			Ø		
						50.9%	. 68.1%			_	ľ	_		
					z	Ĭ	Ĭ		₽	1		٤		
					-			5	事 。	1		•	*	
							8%		1	_		Ø	T.	
						×	60		封工	_				
						50.3%	•	-		_				
						•			卦	_		1		
					z			6	丰			٤		
								ľ	==			١		
									1					
						52.9%	58.5%		E			ì		
						. 52	. 58			_				
					z			7	1					
	9	9												
	A/G	A/G			1	1		CC	- 334			ds	PAI	

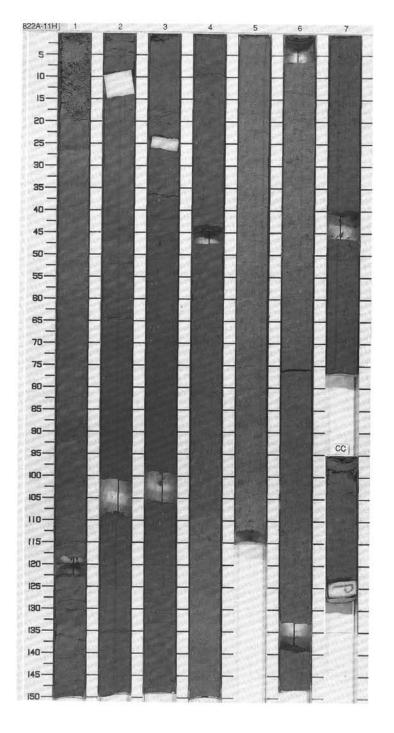


	BIG		AT.	HOL ZONE/	T		T	CO		9н со			Ė	ERVAL 67.4-76.9 mbsf
TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS IS	RADIOLARIANS	RACTE	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					α					1		1		CLAYEY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS and QUARTZ
					-	89.5%	47.2%	1	0.5		e e	,		Major Lithology: Greenish gray to dark greenish gray (5GY 6/1 to 4/1), bolutuhated to homogenous, firm, CLAYEY NANNOFOSSIL MIXED SEDIMENT with BIOCLASTS and sitt- sized QUARTZ. Grains are mostly sit but are up to fine sand-size and include some coarse BIOCLASTS and scattered PTEROPODS. Gas expansion cracks are abundant.
					L	55.8%	0		1.0	VOID		1		Minor Lithology: Section 5 consists of CALCAREOUS CLAYSTONE grading into mixed sediment above and below. Thin (-4-3 cm) beds of BIOCLASTIC PACKSTONE are fine to medium grained to sitly and are distributed throughout core and are probably turbidities. In Section 4 (132-114 cm), a graded bed of fine to medium sand passes up into silt. Burrows contain medium to coarse send-sized BIOCLASTS and FORAMINIERS.
						•			3			•		SMEAR SLIDE SUMMARY (%):
					z			2				1		3,30 4,113 8,33
									1	国工		1		D D D COMPOSITION:
						×	\ <u>.</u>		1	<u> </u>		ì		Bioclast 15 10 8
						55.7%	. 51.6%	H	-	三 一		ŧ		Biotite 1 Calcite 1 6
						•			1			'	*	Clay 25 15 30 Foraminilers 10 17 8
					œ	П		3	-	三十				Lithic fragments 1 8 5 Nannotossils 37 25 34
									1	国上		1		Pyrite 6 Cuartz 6 6 8
						×			-			250		Tunicate 5 5 3
						54.8%	3	H	- 3			1		
R	3								3	-				
OCE	N23	49			α			4	-	-		1		
PLEISTOCENE	2	CN			-					- =				
PLE	N22						١.,			-		1	*	
						53.4%	.35.2%	_	-			,		
						•	•		3	-1355				
					α			5				1		
			1	1				1	1 3	-1===				
							• 47.6%		-	1				
						49.7%	•		-			1	IW	
									1	-		1		
					~			6	1					
					-			ľ	1	1		•••		
									-	1		1		
		-				. 50.1%	• 43.6%	L	_ :	1				
										1		1		
									34	1		1		
					œ			7	1	1		1		
									1	1		1		
						1				1		1		
									1			1		
					α			8	- 3			1	*	
	A/G	A/G						L		1		1		
	A	A	1					CC		1				

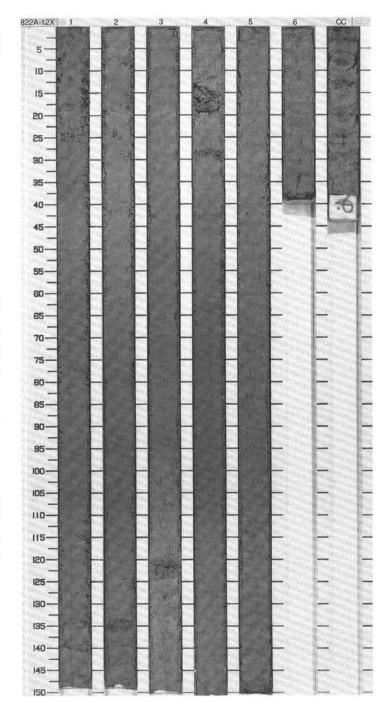


-	FOI	STR	AT.	ZONI	TER		ES					78.	55		
TIME-ROCK UNI	FORAMINIFERS	MANNOFOSSILS	RADIOLARIANS	DIATOMS		PALEOWAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURS	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
							53.3%	43.7%	1	0.5	VOID		ŧ		NANNOFOSSIL CLAYEY MIXED SEDIMENT with BIOCLASTS and QUARTZ Major Lithology: In upper part, greenish gray (5GY 5/1) NANNOFOSSIL CLAYEY MIXED SEDIMENT with self-sized QUARTZ and BIOCLASTS is firm, biofurbated and generally homogenous. Lower part of core consists of relatively calcerous SILTY to CLAYEY NANNOFOSSIL CALCAREOUS OOZEMUD with BIOCLASTS and QUARTZ which has a somewhat sitter to very fine sandy texture than upper part of core. Gas expansion crac are common.
						z	X 0.83.1		2				1		Minor Lithology: Small burrows, are filled with pyrtic BIOCLASTIC PACKSTONE. In Sect 3 (100 cm), well-scridd, relatively pure QUARTZ SAND fills small burrows. SMEAR SLIDE SUMMARY (%): 5. 60 7. 60 D D COMPOSITION:
							. 52.2%	• 42.2%					1		Bloclast 15 10 Catorie 4 Clay 10 25 Fotaminifers 15 10 Lithic Hapments 15 10 Lithic Hapments 15 10 Namofossils 25 32 Claystz 5 1 1 1 1 1 1 1 1 1
						2	• 53.9% 1.86		3				1		Tuncate 10 1
PLEISTOCENE	N22 - N23	CN135				z	•		4	1	VOID		1		
a.						2	1.83	*9.99	5		+++++++++++++++++++++++++++++++++++++++				
							49.0%	×6.59.			VOID VOID			TW	
						z	.3%	66.5%	6		V01b				
						z	51.3%	99 •	7		VOID				
						z			8		VOID				
	A/G	A/G							cc				1		

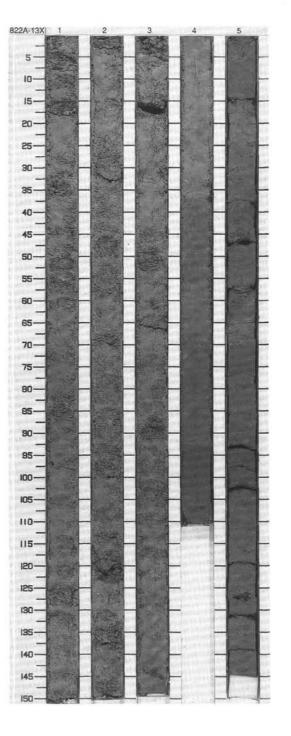




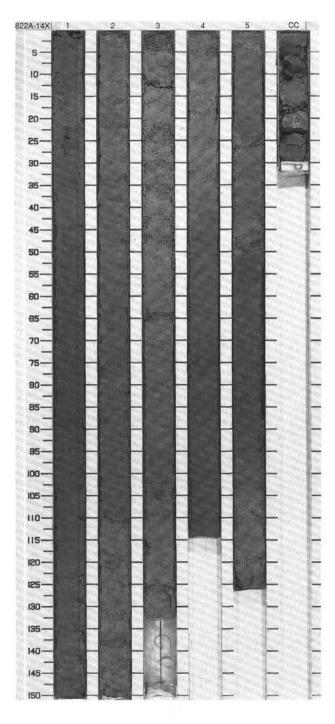
CNIT		SIL	CHA	ZONE/	S	TIES				LURB.	RES		
IIME - HOCK	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
						54.8% 55.8% •		1).5 ±			*	SILTY NANNOFOSSIL CLAYEY MIXED SEDIMENT Major Lithology: Greenish gray (5GY 5/1), firm and unlithilfied, SILTY NANNOFOSSIL CLAYEY MIXED SEDIMENT. Contains minor QUARTIZ SILT and scattered BIOCLASTS and local slightly lithilined patches. Monosulphides are sparsely distributed throughout core. Drilling biscuits and general increase in drilling disturbance are present. SMEAR SLIDE SUMMARY (%): 1, 60 D
					z	53.8%		2	1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +				COMPOSITION: Calcite 3 Clay 27 Micrite 15 Nannolossils 25 Quartz 15 Tunicate 5 Volcanic ash 7
PLEISIOCENE	N22 - N23	CN13a			R UNCERTAIN P	52.7%		3					
					α	51.0%	447.9%	5	+ + + + + + + + + + + + + + + + + + + +		1 0		
	A/G	A/G						6 CC	1 + 1		2 2 2		



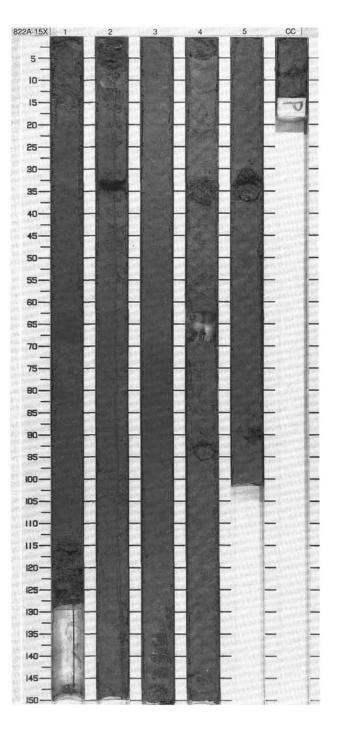
FOS	SIL	CHA		85	TIES				russ.	RES		
FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNET	PHYS. PROPER	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DIST	SED. STRUCTU	SAMPLES	LITHOLOGIC DESCRIPTION
							1	0.5				CLAYEY and SILTY NANNOFOSSIL MIXED SEDIMENT Major Lithology: Greenish gray (5GY 6/1), SILTY and CLAYEY NANNOFOSSIL MIXED SEDIMENT (silty to sandy mudstone). Contains considerable terrigenous sediment including mostly QULARTZ but with MICA. FELDSPAR, LITHIC FRAGMENTS in a CLAY matrix. PTEROPODS are common throughout. Highly disturbed by drilling; sedimentary textures and structures are not preserved. Section 5 fell out of the core barrel and was reassembled. SMEAR SLIDE SUMMARY (%):
					1.84							3, 115 D
				۲۱.	89	87.9	2					Bioclast 10 Calcite 6 Clay 20 Feldspar 1 Foraminifers 1 Lithic tragments 15 15
- N23	N13b			POL		•	3		-			Nannofossils 20 Ouartz 10 Tunicate 8
N22	0			UNCERT	1.93				-		*	
							4		-			
					47.4%	. 24.1%					oG	
							5			NI.		
	FORAMINIFERS	- N23 FORAMINIFERS 113D	- N23 FORAMINIFERS 113D RANDOGURILANS	- N23 FORAMINTERS NAMOFOSSILS RADIOLARIANS DIATOMS	CN13D RADIOLARINIFERS DIATORS RADIOLARIANS	N22 - N23 CN13D CN13D RADIOLARIANS PS RADIOLARIANS DIATOMS UNCERTAIN POLARTIY \$ 655.1% \$ 56.2% \$ PHTE. PROPERTIES	N22 - N23 CN13D CN13D RADIOLARIANS PS RADIOLARIANS PS RADIOLARIANS PS RADIOLARIANS PS PALEOMANITICS ■ 1.84 ■ 1.84 ■ 1.84 ■ 1.84 ■ 1.84 ■ 68.3% ■ PHTS. PROPERTIES	N22 - N23 PORAMINIFERS PORAMIN	N22 - N23	N22 - N23	N22 - N23	N22 - N23



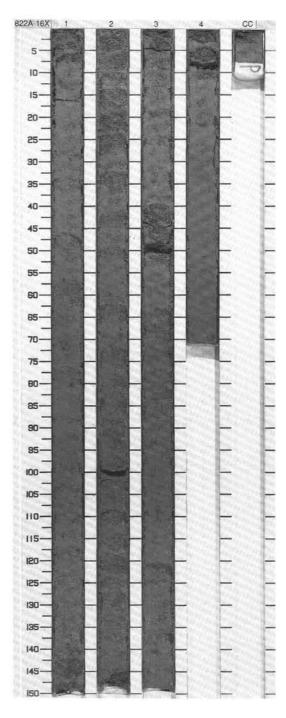
UNIT		SIL		ZONE/	8	11.68				URB.	831		
TIME-ROCK L	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					R?	51.4% 54.4%		1	0.5		8		NANNOFOSSIL CALCAREOUS CLAYSTONE and BIOCLASTIC WACKESTONE with CLAY, NANNOFOSSILS AND QUARTZ. Major Lithology. NANNOFOSSIL CALCAREOUS CLAYSTONE at top and base is greenish gray (5GY 5/1) to lighter greenish gray (10Y 5/2), firm and generally unlithified. In Sectior 3-4, light greenish gray (5GY 6/1) BIOCLASTIC WACKESTONE with CLAY, NANNOFOSSILS and QUARTZ is very fine grained and mostly semi-lithified. Minor Lithology. In the lower part of Section 4, NANNOFOSSIL BIOCLASTIC CLAYEY MIXED SEDIMENT contains FORAMINIFERS and QUARTZ. Semi-lithified intervals represent about 40% of the core. SMEAR SLIDE SUMMARY (%):
H.	3				R2		●68.1%	2	- 000 CD 00 - 000 CD 00	1	1		3, 80 4, 66 D D COMPOSITION: Aparite 1 Bioclast 25 25 Calcite 4 6 Clay 15 13 Feldspar 1 Foraminifers 10
PLEISTOCENE	N22 - N23	CN13b			z	\$6.9%		3		1 H H H H	ŧ	*	Micrite 20
					z		x • 21.2%	4		= 5	^	*	
	A/G	A/G			z	• 48.0%	XT.12	5		ngaaaaaaaa		06	

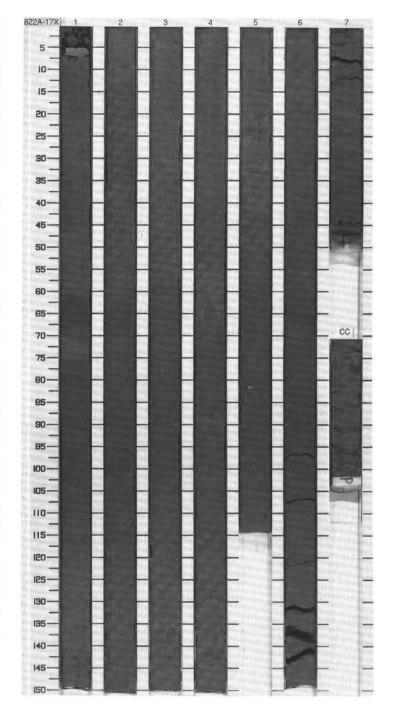


TINO				ZONE/	-0	60	159					RB.	Sa		
TIME-ROCK UN	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS		PALEOMAGNETICS	PHYS, PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
						Z	1.91 48.6%	65.7%●	1	0.5	0000 0000 0000 0000 0000 0000 0000 0000 0000	~-·~~	1		NANNOFOSSIL CALCAREOUS CLAYEY OOZE/MUD overies NANNOFOSSIL CALCAREOUS CLAYSTONE Major Lithology: In upper part (Sections 1 and 2), NANNOFOSSIL CALCAREOUS CLAYEY OOZE/MUD with scattered slit to very fine sand-size BIOCLASTS and QUARTZ is greenish gray (5GY-511). In the lower part of the core. NANNOFOSSIL CALCAREOUS CLAYSTONE is slightly darker greenish gray (5GY-471 to 57) and contains scattered BIOCLASTS and PTEROPODS. Contains considerable slit and very fine sand. becoming slightly coarser grained toward the base. Most of core is firm and well compacted with local semi-lithified chalky patches. Mottled and heavily bioturbated. Darker colored
						N	•		2		0000	 	* * * *		intervals (4/1) are approximately 50-75 cm thick. Moderate to strong drilling disturbance. Minor Lithology: Burrows are locally filled with BIOCLASTIC or FORAMINIFER PACKSTONE or are pyritized concretions. SMEAR SLIDE SUMMARY (%): 5, 14 D
PLEISTOCENE	N22 - N23	CN13b			co	N.	2R • 53.3%	034.5%	3			+ + + +			Bioclast 20 Carbonate particles 15 Clay 20 Feldspar Tr Foraminifes Tr Micrite 10 Nannotosiis 20 Cuartz Siliceous sponge spicules Tr Trunicate Tr Trunicate Tr Tr Trunicate Tr Tr Tr Tr Tr Tr Tr T
						¥	●50.2H		4	7,8,8,8	VOID		Ø		
							49.8%	●40.9%		7 7 7	000000000000000000000000000000000000000		® ~	*	
	A/G	A/G			0	r			5	1	0,00,00		0		

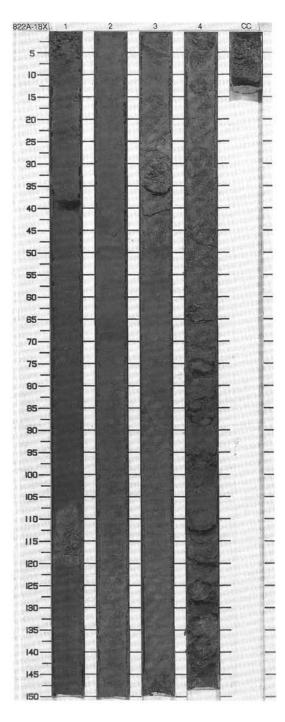


TINO				ZONE	60	ES				88	S		
TIME-ROCK UN	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					2	3% 50.6%		1	0.5				CLAYEY and SILTY NANNOFOSSIL MIXED SEDIMENT with QUARTZ and BICCLASTS Major Lithology: Greenish gray (5GY 5/1), partially lithified, CLAYEY and SILTY NANNOFOSSIL MIXED SEDIMENT with QUARTZ and BICCLASTS. Faintly laminated with possible soft sediment deformation (slump fold) at base. Moderate to strong drilling disturbance. Pyritic concretions occur in small burrows. SMEAR SLIDE SUMMARY (%): 2, 60 D
OCENE	23				z	1.92	4%	2	+ + + + + + + + + +		Ø	*	D COMPOSITION: Bioclast 30 Clay 20 Foraminiters 3 Micrite 15 Nannotossils 15 Ouartz 10 Spicules 5 Tunicate Tr
PLEISIOC	N22 - N	CN13b			æ	. 53	9.54	3		 			
	A/G	A/G			R?	52.8%		4 CC			Ø	PAL	

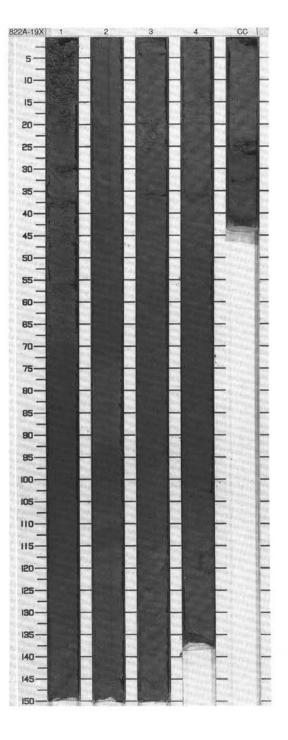




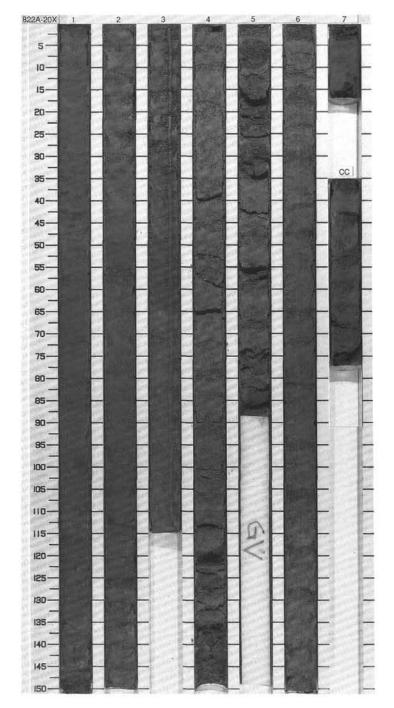
UNIT				ONE/	60	163				RB.	8		
TIME-ROCK U	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					z	2.00 2.03		1	0.5		è	5	SMEAR SLIDE SUMMARY (%):
N L	3				z	2.08		2		0,0,0			COMPOSITION: Bioclast Tr Inorganic calcite 60 Ouartz 40 Spicules Tr
PLEISIOCENE	N22 - N2	CN13B			z	2.08	•	3	000000000000000000000000000000000000000	1:1:10*0*0*0*0			
	5/2	A/G			z	• 2		4	000000000000000000000000000000000000000	0.0.0.0.0.0.0.0.	į		



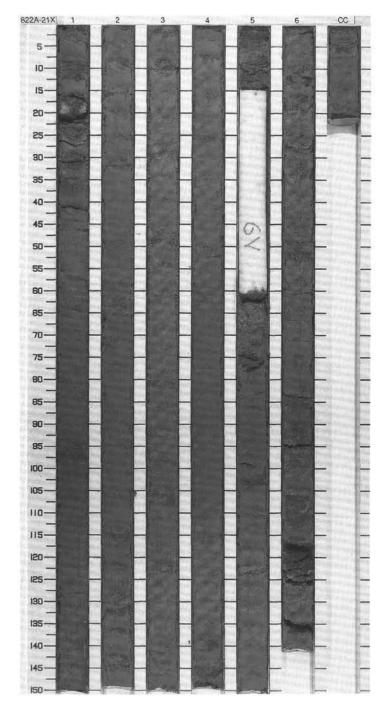
- N				ONE/	R on	831					JRB.	83					
TIME-ROCK U	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES		LITH	OLOGIC	DESCRIPTION
					R?	52.2% 48.1% •		1	0.5			Ø	*	Major Lithology: Dark green CLAYSTONE with NANNOF Minor Lithology: Greenish g	ossils ossils ray (5G' DIMENT 4 and lo	(5GY 4/1) and BIO0 7 5/1), mo with BIO0	derately lithified CLAYEY and SILTY CLASTS and QUARTZ. This lithology forms
STOCENE	- N23	V13B			R?	547.9%		2	Transferran			1		COMPOSITION: Bioclast Carbonate particles Clay Dolomite Inorganic calcite Micrite	1, 6 D	1. 44 D	3, 10 D
PLEIS	N22	CN			R?	181		3				Ø	*	Nannofossils Quartz Siliceous sponge spicules Tunicate	15 20 	15 35 5 5	15 30 5 Tr
	F/G	A/G			R?	94.		4	بيبانينيان								



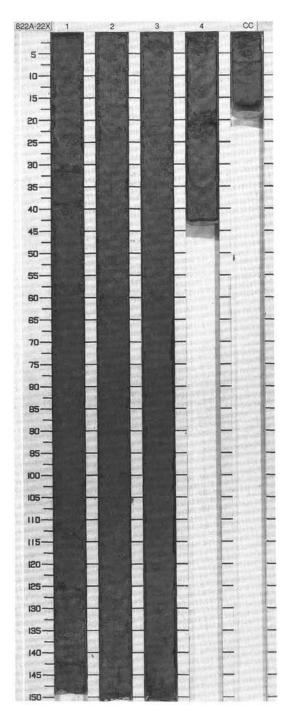
-				ZONE/ LRACTER	on	89				RB.	83		
TIME-HOCK UNI	FORAMINIFERS	NAMNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS, PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	ORILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					α	2.13 2.03		1	0.5		1		CALCAREOUS CLAYSTONE with NANNOFOSSILS and BIOCLASTS and CALCAREOUS SILTY CLAYEY MIXED SEDIMENT with QUARTZ and BIOCLASTS; overlies CLAYEY AND SILTY CALCAREOUS CHALKMUD to MIXED SEDIMENT with QUARTZ and BIOCLASTS Major Littlogy. In upper part, alternating dark greenish gray CALCAREOUS CLAYSTON with NANNOFOSSILS and BIOCLASTS and greenish gray GY 5'1) CALCAREOUS SILTY CLAYEY MIXED SEDIMENT with QUARTZ and BIOCLASTS. In lower part (Sections 4 to 6), CLAYEY AND SILTY CALCAREOUS CHALKMUD to MIXED SEDIMENT with QUARTZ and BIOCLASTS is lighter greenish gray (SY 5'1). Moderately to highly disrupted by drilling.
					α	. 51.4%		2			1		SMEAR SLIDE SUMMARY (%):
ı,	9				R?	50.0%	.6%	3			Ø	og	Nannofossils 10 Quartz 25 Siliceous sponge spicules 5 Tunicate 5 Tr
PLEISIOCENE	N22 - N23	CN13b			R?	•		4				*	
					z	\$1.9% 1.9%	.64.9%	5	Vold		Ø		
						\$1.1% 1.98			voio				
	5/3	A/G			α			6 7 CC					



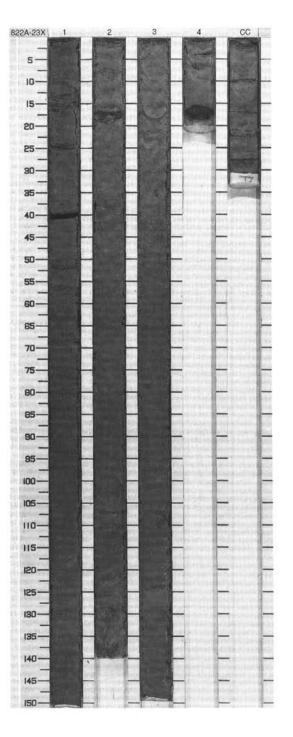
11				ZONE/	0	00	S					RB.	50		
TIME-ROCK UNI	FORAMINIFERS	NAMNOFOSSILS	RADIOLARIANS	DIATOMS		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	WETERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
						50.9%	1.90	39.2%	1	0.5			8		CLAYEY MIXED SEDIMENT with BIOCLASTS Major Lithology: Greenish gray (5Y 5/1), moderately lithified, CLAYEY MIXED SEDIMEN' with BIOCLASTS and minor QUARTZ. Very homogeneous and slightly lithified and highly disturbed by drilling. Minor Lithology: CALCAREOUS PACKSTONE with BIOCLASTS, NANNOFOSSILS and CLAY occurs in very thin beds and as burrow fill in Sections 4 and 6. BIOCLASTS increased downcore in Section 6. SMEAR SLIDE SUMMARY (%):
						53.1%	1.6.1	48.5%	2				8		4, 15 D COMPOSITION: Bioclast 30 Carbonate particles 8 Clay 15 Foraminifers 2 Micrite 10
CENE	N23	3b					1.96	•	3	and to other			8		Nannofossils 20 Cuartz 5 Siliceous sponge spicules Tr Spicules 10
PLEISTOCENE	N22 -	CN1					1,89		4	and the state of				*	
						ľ	1.92	•	5	The state of the s	VOID				
	A/G	A/G				*	•		6					Hr.	



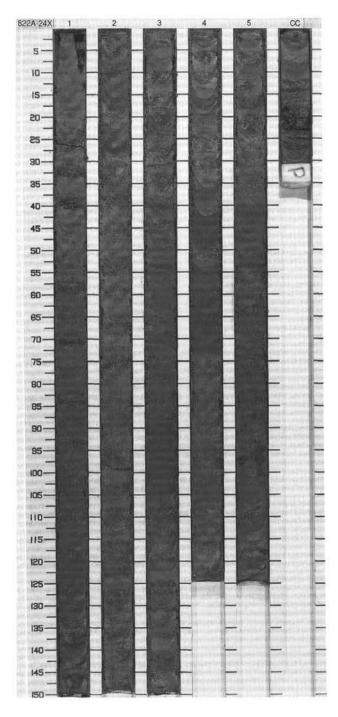
LIND				ZONE	50	ES					RB.	8			
TIME-ROCK UN	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEGMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	PHIC	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES		LITHOLOGIC DESCRIPTION
					я			1	0.5				*		ANY
PLEISTOCENE	N22 - N23	CN13b			æ			2			1			Bioclast Clay Foraminifers Nannofossils Ouartz Siliceous sponge spicules Spicules	20 20 22 22 25 20 3
a .					а			3	ACCEPTOR FORM						
	A/G	A/G						4 CC			L		PAI		



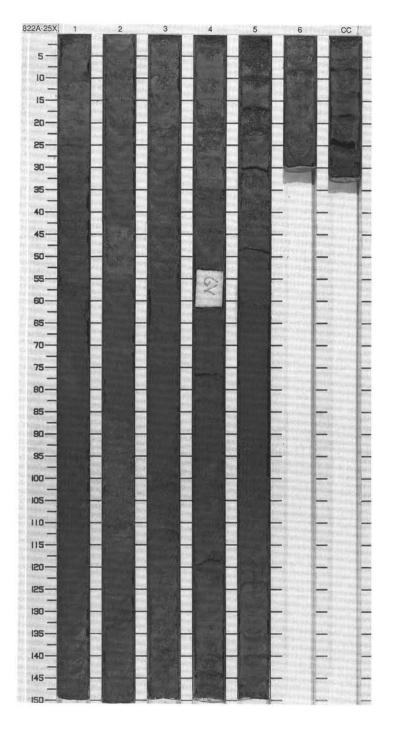
TINO				ZONE	99	ES					RB.	ES		
TIME-ROCK UP	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					R?	1.97 44.5%	42.6%	1	0.5	90500000000000000000000000000000000000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ø	*	CALCAREOUS CLAYSTONE with BIOCLASTS and NANNOFOSSILS Major Lithology: Dark gray (N4/), moderately lithified, CALCAREOUS CLAYSTONE with BIOCLASTS and NANNOFOSSILS, showing smooth surfaces when cut. Minor Lithology: Dark gray (5Y 4/1) CALCAREOUS CLAYEY MIXED SEDIMENT with QUARTZ in upper half of Section 1. SMEAR SLIDE SUMMARY (%): 1, 8 3, 63
PLEISTOCENE	N22 - N23	CN13b			R?	1.94	26.9%	2	T. T.	0,000,000,000,000,000,000,000,000,000,		Ø		D D COMPOSITION: Bioclast 25 15 Carbonate particles 3 15 Clay 20 25 Dolomite 2 Foraminifers 5 Tr Nannotosils 25 15
				100	œ	•	25.9% **	3		<u> </u> გიგიზი <u>ზი</u> ზიგიზიზი ———————————————————————————————		01	*	Ouartz 15 10 Siliceous sponge spicules 5 Silit 15 Spicules 5
	A/G	A/G			æ			4 CC	-	9	1		PAL	



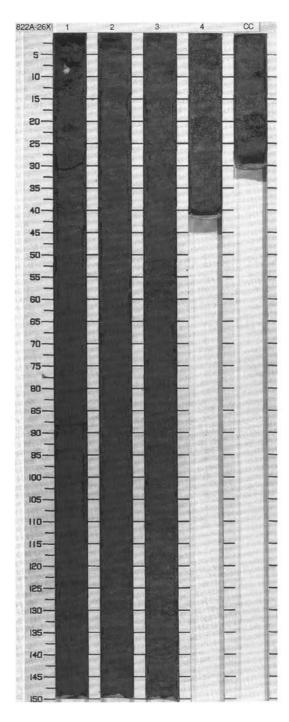
+				ZONE/	8		2							
TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	DAI FORAGRETICS		PHTS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					0	49.5% 50.2%	1.84	27.1%		5.5 00000000000000000000000000000000000	1	* *		CALCAREOUS CLAYSTONE with BIOCLASTS and QUARTZ Major Lithology: Dark gray (10Y 4/1), moderately lithified CALCAREOUS CLAYSTONE with BIOCLASTS and QUARTZ, Minor Lithology: Gray (10Y 5/1), moderately lithified, CLAYEY MIXED SEDIMENT with QUARTZ. In Section 1, 2, 3 and 4, this lithology alternates with the major lithology in beds from 10-20 cm thick.
					Z	49.5%		46.3%	2	9808080808080808080		1		
PLEISTOCENE	N22 - N23	CN13B			α	51.1%	1.06	•	3	308080808080808080808080808080808080808		1		
					0	r.	1.97	37.5%	4	080808080		1	og	
	9/3	A/G			c	1		•	5	00000000000000000				



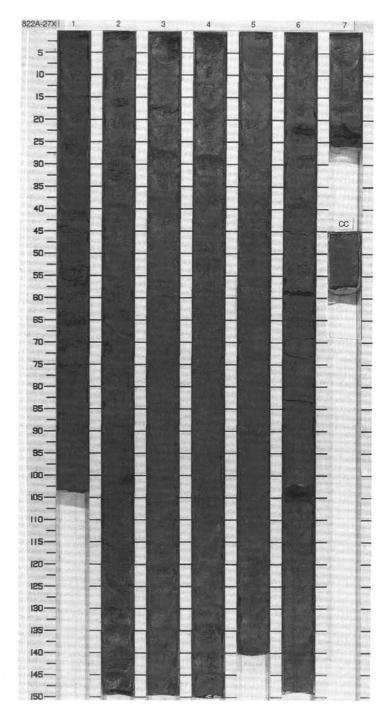
UNIT	FO	SSIL	AT. CHA	ZONE/	8 8	TIES					JRB.	ES		
TIME-ROCK L	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	100	CHEMIS	SECTION		RAPHIC THOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
2		CN13B			R	1.86 • 47.7% • 51.4% • 50.8% 47.4%	• 41.7% • 29.5%	3 4 5	<u>รู้ กล้ากล้ากล้ากล้ากล้ากล้ากล้ากล้ากล้ากล้า</u>			* * * * *	*	CALCAREOUS CLAYSTONE with BIOCLASTS and NANNOFOSSILS Major Lithology: Dark greenish gray (5Y 4/1), slightly biofurbated, moderately lithified, CALCAREOUS CLAYSTONE with BIOCLASTS, NANNOFOSSILS and variable QUARTZ. Minor Lithology: Greenish gray (5Y 5/1) BIOCLASTIC CLAYEY MIXED SEDIMENT with NANNOFOSSILS, occurs as thin interbeds (10-20 cm) within the major lithology (at 74-83 and 102-103 in Section 1, at 44-80, 87-114 in Section 2, 73-75 in Section 3, and 17-37 in Section 4). SMEAR SLIDE SUMMARY (%): 2, 93
1	F/G		1					cc	- 88					



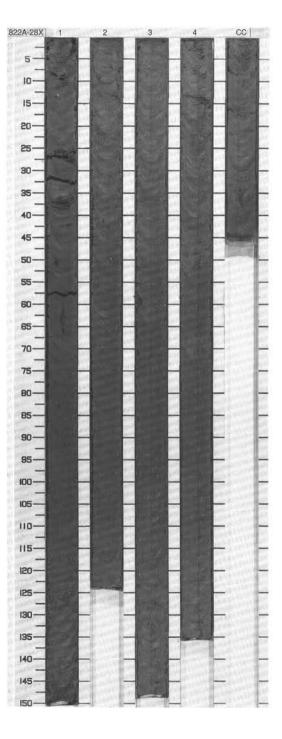
11				ZONE	89	ES					RB.	83		
TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	WETERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					R	51.6%	35.7%	1	1	80808080808080808	 			CALCAREOUS CLAYSTONE to CALCAREOUS CLAYEY MIXED SEDIMENT with BIOCLASTS Major Lithology, Greenish gray (5Y 4/1), monotonous CALCAREOUS CLAYSTONE to CALCAREOUS CLAYEY MIXED SEDIMENT with BIOCLASTS, Highly disturbed by drilling
PLEISIOCENE	N22 - N23	CN13b			R?	1,40	45.6%	2		0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8				
P.C.	Z				R?	1.99	•	3	1	080808080808080808080808	i 			
	F/G	C/M				•		4 CC		0 0 0 0 0 0 0	İ		PAL	



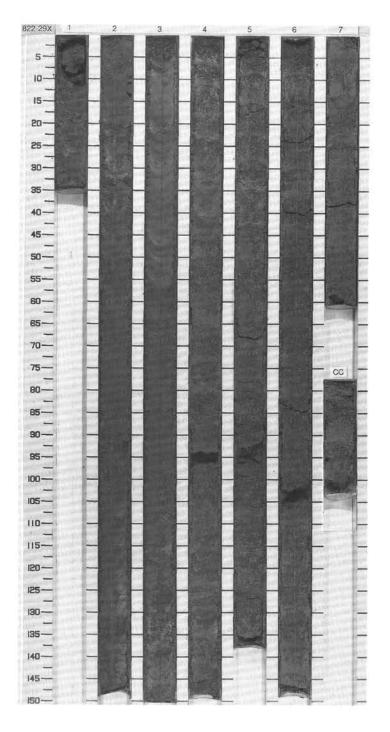
-	BI	OSTR	AT.	ZONE/		90	Τ	Т				Γ	INT	
TIME-ROCK UNIT	FORAMINIFERS	Τ	RADIOLARIANS	DIATOMS	DAI COULDINGTION	PHYS. PROPERTIES	_		METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					00	2× 45.3×		1	0.5	00000000000000000000000000000000000000	1			CALCAREOUS CLAYSTONE with NANNOFOSSILS, BIOCLASTS and QUARTZ. Major Lithology: Dark gray (5Y 4/1), moderately lithified, CALCAREOUS CLAYSTONE with NANNOFOSSILS, BIOCLASTS and local QUARTZ. PTEROPODS occur throughout Moderately disturbed by drilling with biscuits. SMEAR SLIDE SUMMARY (%): 5, 81
					60	0.48.2% 0.48.2%		2		000000000000000000000000000000000000000	1			D COMPOSITION: Bioclast 20 Clay 35 Foraminifers 5 Namolossils 15 Quartz 25 Tunicate Tr
OCENE	- N23	3b			83	1		3	4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4	000000000000000000000000000000000000000	 	λ.		
PLEISTOCENE	N22 -	CN13b			R2		930.2%	4	177	00000000000000000000000000000000000000		Ø		
					R2		×	5	المريدي المديدة	000000000000000000000000000000000000000			* TW	
					R2			6	11311111111	VOID	1			
	R/G	0/0						7 CC		2			PAC	



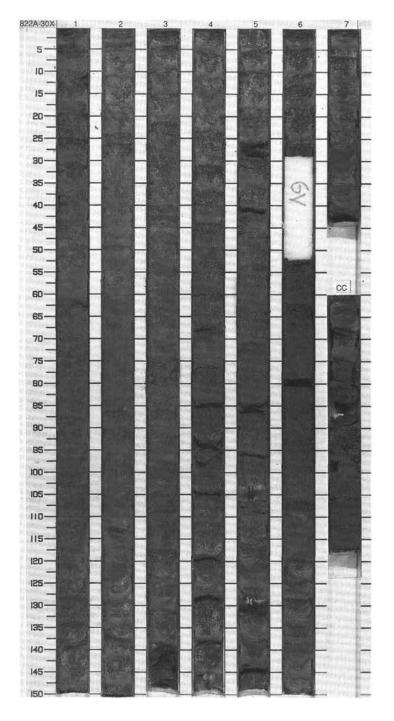
LINO	FOS	SIL	CHA	ZONE/	R	2	TIES					DISTURB.	RES				
TIME-ROCK	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION		GRAPHIC THOLOGY	DRILLING DIS	SED. STRUCTURES	SAMPLES		LITHO	OLOGIC DESCRIPTION
					000	48 7%	2.03	17.5% •	1	000000000000000000			1 1		CLAYSTONE with CARBONA Carbonate particles are mainly disturbed by drilling with bisco Minor Lithology: Two 10 cm th	Y 4/1), i TE and y DETR uits.	OUARTZ moderately to well lithified, homogeneous I minor QUARTZ. Very low carbonate content. IITAL CALCITE and BIOCLASTS. Moderately ers of green (10Y 5/2) CLAYEY MIXED SEDIMENT and QUARTZ occur in Section 4 from 46-56 cm and 6
ENE	N23						1,95	.66%	2	000000000000000000000000000000000000000			3	og	COMPOSITION: Bioclast Clay	4, 44 D 10 25	4, 48 D 20 25 Tr
PLEISTOCENE	1	CN13b			C	22	•	•	3	0000000000000				00	Nannofossils Quartz	20 10 30 5	30 25
					Š		66.		4	00000000				**			
	R/G	F/G							СС	00000				PAL			



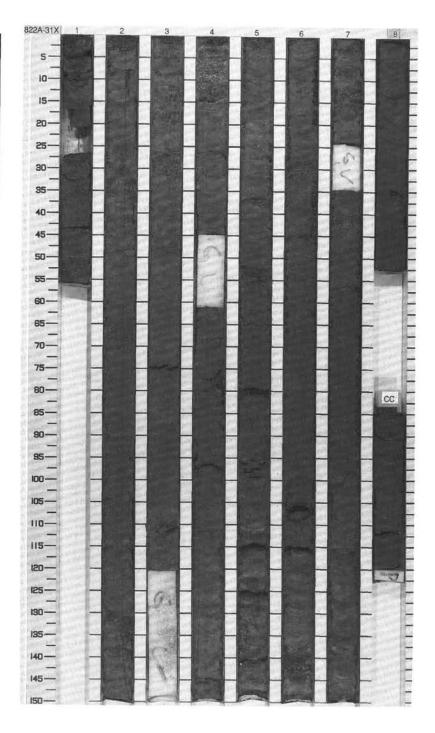
5	FO	SSIL	CH	ZONE/	ER on	84				RB.	SS		
TIME-ROCK U	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYR. PROPERTIES		SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					œ			1	0.5 1.0	1.	1		CALCAREOUS CLAYSTONE overfiles CALCAREOUS CLAYEY MIXED SEDIMENT with OUARTZ and BIOCLASTS Major Lithology. Moderately lithifled, slightly bioturbated, CALCAREOUS CLAYSTONE with minor OUARTZ and BIOCLASTS. The color changes from dark greenish gray (10Y 4/2, 10Y 4/1) in Sections 1-3 to greenish gray (10Y 5/2). In Sections 4 to CC, well-lithing CLAYEY MIXED SEDIMENT (slifty to very fire sandy mud) with BIOCLASTS. NANNOFOSSILS and minor OUARTZ passes downsection into CLAYEY CALCAREOUS CHALKMUD.
					æ	48.1%		2	000000000000000000000000000000000000000		1	*	SMEAR SLIDE SUMMARY (%): 2, 85 3, 86 4, 87 D D D COMPOSITION: Aragonite 3
	3				œ	51.3%	•	3	000000000000000000000000000000000000000		* *	*	Felicipan
	N22 - N23	CN13b			α	49.1%	51.7%	4			1	*	
					œ	49.3%	8.4%	5	8080808080808		1	TW	
					α	•		6			1		
	R/G	A/G			œ	• 47.2% • 1.97	4.18	7			•		

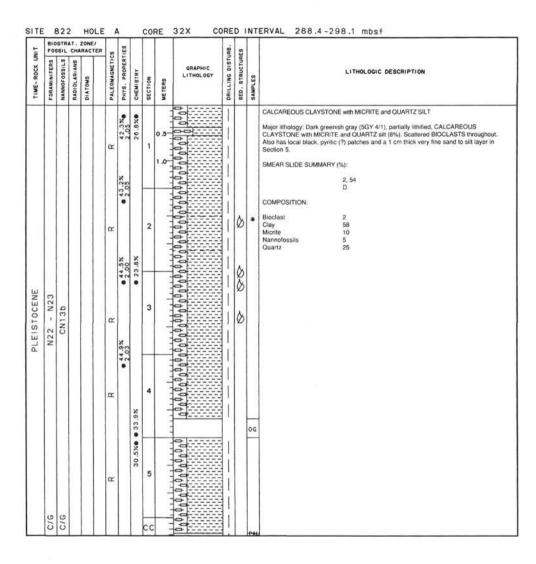


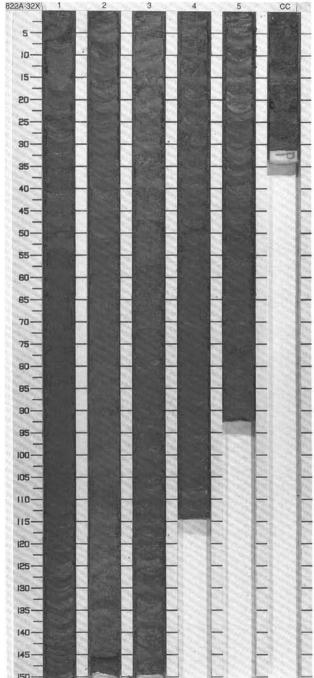
_				ZONE/	Г	on				12		П	
TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	RACTER	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					α	2.02 1.97		1	0.5	1	1		CLAYEY MIXED SEDIMENT and CALCAREOUS CLAYSTONE with QLARTZ, BIOCLASTS and NANNOFOSSILS Major Lithology: Dark green (10Y 4/2), partially lithified, SILTY CALCAREOUS CLAYSTONE in the lower part. In Section 1, SILTY and CLAYEY MIXED SEDIMENT contains QUARTZ, BIOCLASTS and NANNOFOSSILS. The rest of the core consists of less calcareous CLAYSTONE containing similar components. Planar laminations occur from 145-148 cm in Section 6. SMEAR SLIDE SUMMARY (%):
					α	1.97	34.9%	2	200 200 200 200 200 200 200 200 200 200		1		3, 60 D COMPOSITION: Bioclast 20 Carbonate particles 15 Clay 20 Feldspar 2 Nannotossils 15 Quartz 25
					ж	2.00	• 3	3	888888888888888888888888888888888888888		8	*	Rock fragment 3
PLEISIOCENE	N22 - N23	CN13b			α	1.94	%6°	4	000 000 000 000 000 000 000 000 000 00		1		
					α	1.95	x6.8C.	5	000		1		
					œ	50.9%	34,8%	6			1		
	R/G	A/G				•	• 3	7 CC		=			



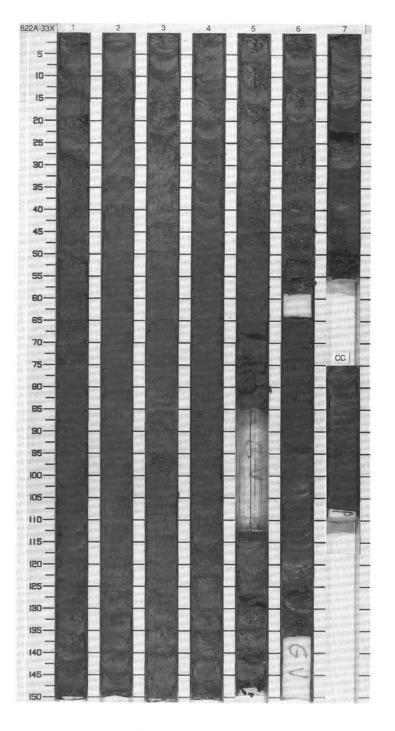
TINO	BI	OSTA	AT.	ZON	E/ TER	50	80						П	Γ	ERVAL 278.8-288.4 mbsf
TIME-ROCK UN	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
						œ	44,8%	34.8%	1	0.5	VOID	1	888		CALCAREOUS CLAYSTONE with BIOCLASTS, NANNOFOSSILS and QUARTZ Major Lithology: Dark to intermediate greenish gray (5GY 4/1 to 5/1), moderately well- ithilitied and well-compacted CALCAREOUS CLAYSTONE with BIOCLASTS, NANNOFOSSILS and minor (8-9%) QUARTZ sit. Minor Lithology: Very thin graded beds (<1-5 cm) of very fine sandy to sitly CLAYSY BIOCLASTIC MIXED SEDIMENT with QUARTZ occur in Sections 2 and 3. Similar sedimen also fills burrows and a 15 cm thick soupy interval at the top of Section 4.
						α	45.0%		2		000000000000000000000000000000000000000	1 1 1 1	8		SMEAR SLIDE SUMMARY (%): CF 3, 30 3, 92 7, 70 M D D COMPOSITION: Apatitie 1 Bioclast 73 10 9 Calotie 5 2 Clay 40 41 Glass 9
						В	42.5%	• 41.3%	3	and the sales of	VOID		•••	*	Micrite 10 16 Nannolossils 10 5 Ouartz 25 15 16 Spicules 2 1 Tunicate Tr 1 Volcanic ash 9
PLEISIOCENE	2 - N23	CN13b				æ	2.01		4	7	00000000000000000000000000000000000000	1	ø		
PLE	N22					æ	2.09	¥7.16•	5	البينيانيينيانيا	000000000000000000000000000000000000000				
						æ	41.6%		6	1	608080808080808080808080808080808080808				
						æ	2.00	• 33.1%	7	بالبيهيابيهياب	0808080808080808080			*	
	F/G	A/G							8	1	8080808080808				



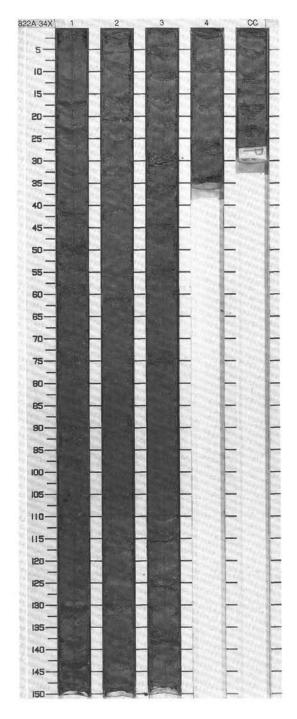




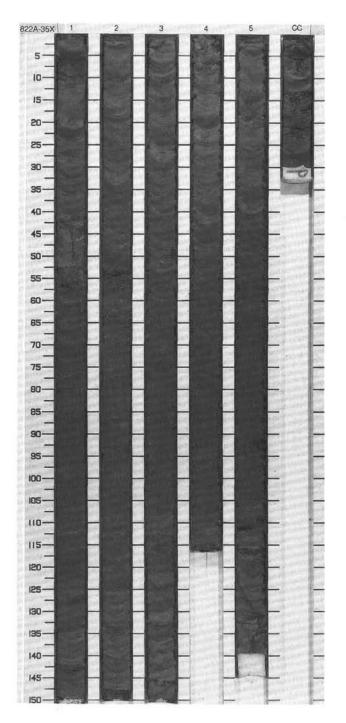
-	BI	OSTR	CH.	ZONE/ ARACTER		82		Г				Г	ERVAL 298.1-307.8 mbsf
TIME-ROCK UNIT	FORAMINIFERS	T	-	T T	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					R?	2.02 45.1%		1	0.5-000		1	*	CALCAREOUS CLAYEY MIXED SEDIMENT with NANNOFOSSILS and QUARTZ and CALCAREOUS CLAYSTONE with NANNOFOSSILS Major Lithology. In upper part, alternating dark greenish gray to greenish gray (5GY 4/1 to 51), CALCAREOUS CLAYEY MIXED SEDIMENT with NANNOFOSSILS and mirror QUARTZ (7%-8%). In the lower part (Sections 6 and 7), homogeneous, dark gray (5Y 4/1), partially lithified, CALCAREOUS CLAYSTONE with NANNOFOSSILS is less calcareous. SMEAR SLIDE SUMMARY (%): 1, 89 3, 88
					œ			2					COMPOSITION: Bioclast 7
ш					α	•	. 52.1%	3				*	Synome 3 2
PLEISTOCENE	N22 - N23	CN13b			æ	2 41.8%	7%	4	0000000		*		
					н		● 41.7%	5	00000000000000000000000000000000000000		į		
					œ	45.3%		6	VOID		1		
	9/0	0/0				2.03	● 25.8%	7	VOID		1	PAL	



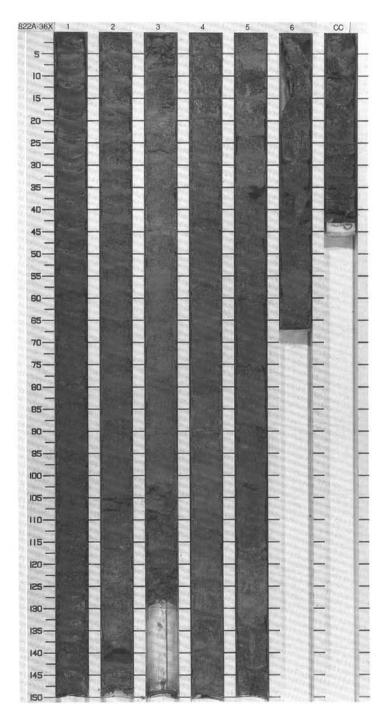
- INS				ZONE/ RACTE	R	99	SES						IRB.	83		
TIME-ROCK U	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS		PHIC OLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					0		1.94 2.01	34.5%	1	0.5	808080808080808080		11111	1		CALCAREOUS CLAYSTONE with NANNOFOSSILS and QUARTZ Major Lithology: Greenish gray (5GY 5/1). Partially lithlfied, slightly bioturbated, CALCAREOUS CLAYSTONE with NANNOFOSSILS and minor QUARTZ. SMEAR SLIDE SUMMARY (%): 2, 74 D COMPOSITION:
PLEISIOCENE	N22 - N23	CN13a			C	r	•	37.9%	2		80808080808080808080			* *	•	Calcite 7 Clay 55 Foraminifers Tr Nannolossils 20 Quartz 15 Spicules 3
					o	r	•	• 3	3	J. C. C. Charles	808080808080		1	1		
	5/2	A/G					2.02		4		808080808		1	1	PAC	



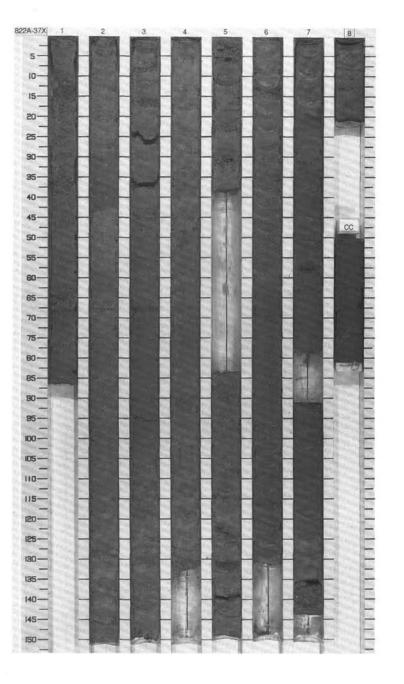
TINO	FO	SSIL	CH	ZONE/ ARACTEI	R SS	4.00	E		T				Γ	ERVAL 317.5-327.0 mbsf
TIME-ROCK (FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	DUVE ODABEDTIES		CHEMISTRY	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					œ	49.2%	1.92	34.2%	0.5			* * * * *		NANNOFOSSIL CLAYSTONE with QUARTZ to CLAYSTONE with NANNOFOSSILS and QUARTZ Major Lithology. Alternating greenish gray (5GY 5/1), partially lithrlied and slightly tolurbated, NANNOFOSSIL CLAYSTONE with minor QUARTZ (7%) and dark greenish gray (5GY 4/1) CLAYSTONE with NANNOFOSSILS and QUARTZ. Small burrows filled wit pyrite are common. SMEAR SLIDE SUMMARY (%):
					œ	#47.6%	1.95	2		000000000000000000000000000000000000000				2, 120 D COMPOSITION: Bioclast 5 Clay 55 Foraminiters 3 Nannofossils 25 Ouartz 10
OPPER PLIDGENE	N22 - N23	CN13a			ď	48.5%	1.98	3	- Internal of					Spicules 2
D					α	46.8%	30		o lord lord		1		0G	
	A/G	A/G			α	*47.6%	1.93	5	-	000000000000000000000000000000000000000	1			



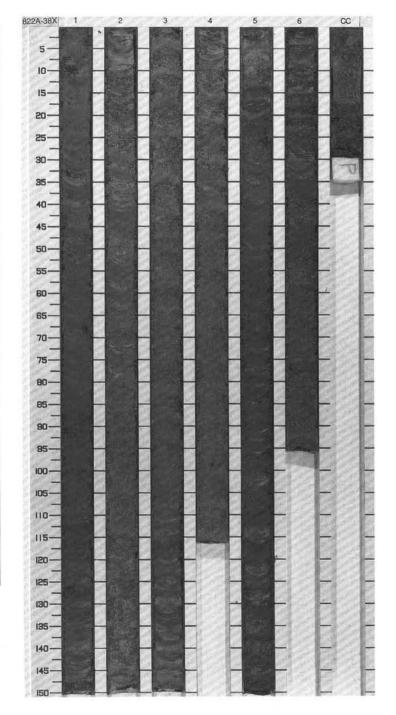
=				ZONE/	R	on	ES					65		
TIME-ROCK UNI	FORAMINIFERS	NANNOFCSSILS	RADIOLARIANS	DIATOMS			PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
							1.98	26.6%	1	0 U 0 U 0 U 0 U 0 U 0 U 0 U 0 U 0 U 0 U		* * * * *		CLAYSTONE with NANNOFOSSILS and QUARTZ to NANNOFOSSIL MIXED SEDIMENT with QUARTZ Major Lithology: Alternating dark greenish gray (5GY 4/1) CLAYSTONE with NANNOFOSSILS and QUARTZ and greenish gray (5GY 5/1) NANNOFOSSIL MIXED SEDIMENT (mud) with minor (7%) QUARTZ all: Layers are 1-2 m thick. The sediment is well-compacted to partially lithified and slightly bioturbated. SMEAR SLIDE SUMMARY (%): 4, 67
							1.90	.6%	2	000000000000000000000000000000000000000	a	******		D COMPOSITION: Bioclast 8 Calcite 2 Clay 50 Foraminiters 2 Nannofossils 25 Quartz 10
PLIOCENE	- N23	1120				α	•	¥9.63.	3	0 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0.0.0.	* * * *		Spicules 3
UPPER	N22	CN1				α	1.97	2*	4	8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			*	
					8	z	2.02	•	5	888888888888888888888888888888888888888		* * * * *		
						z	2.02		6	00		,		
	A/G	A/G							СС	000	3		PA	



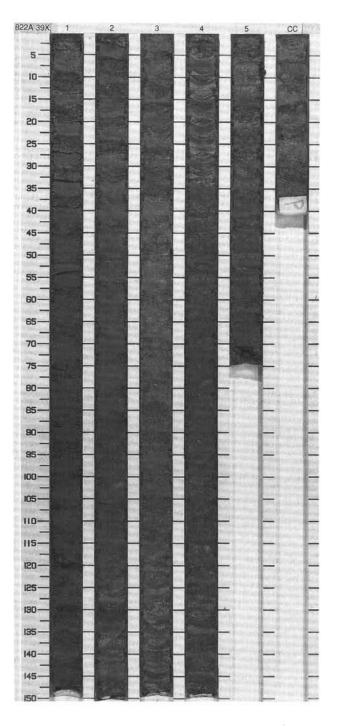
SIT	_	_		HOL	E	A	_	CO	RE 37X	COR	E) 1	NT	ERVAL 336.0-346.3 mbsf
UNIT				ZONE/	R gg	168					89	S		
TIME-ROCK U	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOG	Y	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
	Т	Г			T				000		1	1		CLAYEY CALCAREOUS MIXED SEDIMENT with NANNOFOSSILS
					z	2 44.3%		1	0.5 0000 1.0 void			ì		Major Lithology: Alternating dark greenish gray (5GY 4/1), and greenish gray (5GY 5/1) CLAYEY CALCAREOUS MIXED SEDIMENT with NANNOFCSSILS, Greenish gray (5GY 5/1) CLAYEY CALCAREOUS MIXED SEDIMENT with NANNOFOSSILS occurs from Section 3 (110 cm) to Section 5 (130 cm), as well as a thin layer in Section 7 (90-100 cm). The darker intervals are presumably more clay-rich. Entire core is slightly bioturbated, well indurated, and moderately disturbed by drilling.
						1 98		\vdash			ı			Minor Lithology: CLAYEY CALCAREOUS CHALK/MUD with NANNOFOSSILS in Section 5 is relatively carbonate-rich (61.4%).
						•			8		!			SMEAR SLIDE SUMMARY (%):
					z			2	3	0	!			3, 126 5, 88 7, 92 D D D
	1			Н	-					10				COMPOSITION:
						ж	×		000					Bioclast B 15 Carbonate grains 35 30 30
						45.4%	044.6%		000					Clay 35 30 25
						•	•		000		il	1		Nannofossils 20 20 15
								3	00					Quartz 5 5 5 Spicules 2 2 2
					z				00					
									.00				*	
				1		2.03			000					
ш						. 45		-	000	Ξ.				
UPPER PLIOCENE	N22 - N23	CN12D			z			4	00					
3de	N					39.8%	81.4%		VOID		1			
J.									000	0,0				
					z			5	VOID		1			
									000	90			*	
						×			000	0				
						2.05%		Н	- 8				П	
						•			000					
				1	z			6	80					
					~				8000					
									000	5	1			
						2.09%	40.2%		VOID		1			
				1	1		•) i	00000			1		
					z			7		Ξ		-	ζV	
	1												*	
									11010	=				
	A/G	A/G						8	1001	55				
	Ø	A				┖		cc	- 60				PAL	



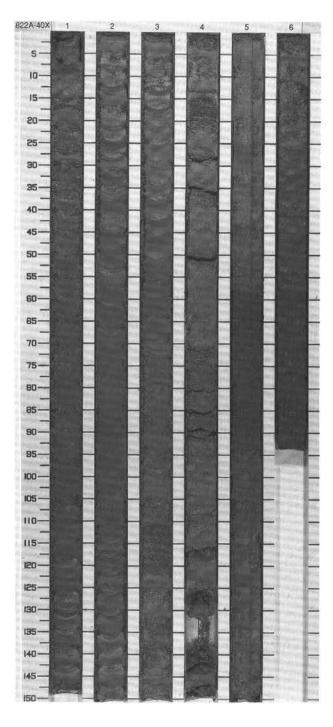
ONI				ZONE/ RACTER	91	SILES					JRB.	Sa		
TIME-ROCK OF	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPH LITHOL		DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					T				000					CLAYEY CALCAREOUS MIXED SEDIMENT with BIOCLASTS and QUARTZ
						2.04	23.7%	1	0.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0					Major Lithology: Dark gray (5Y 41) CLAYEY CALCAREOUS MIXED SEDIMENT (mud) wit BIOCLASTS and minor QUARTZ (7%). Variable amounts of ROCK FRAGMENTS and BIOCLASTS.
									1.0					Minor Lithology: Very dark gray (10Y 3/1) NANNNOFOSSIL CLAYSTONE with BIOCLAST and minor QUARTZ occurs in Section 1 from 15 cm in Section 5 to 40 cm in Section 6.
						1.91%								SMEAR SLIDE SUMMARY (%):
						46				200				3,81 5,67 D D
									1	02020	1			COMPOSITION:
		2						2	H	-0				Bioclast 27 15
									-	9999				Clay 25 40 Feldspar 4
					L	×	×			900	1			Foraminifers 5 Nannofossils 8 35
			1		E	2.01%	49.9%	Н	K	-0		١, .		Quartz 30 10 Spicutes Tr Tr
					POLARITY	•	•			08080				Tunicate Tr
					Pol			3		900	3			
N.	94500		1		Z				1	80			*	
PLIDCENE	N23	_	Ш		T A					1080808080				
	1	120			UNCERT	1.80				9090				
	55	CN1			5					-0				
UPPER	N2:					ि				8080				
5								4	7	90				
							× 9.			08080				
							53.6			0			og	
							•						IW	
					1				1-1-1-1	80				
					1		×		000					
					1	56.7%	53	5	-0				*	
									-0					
									00					
								_	- 00				1	
									3					
								6	000					
									- 20					
	0	9						-	- 38					
	A/G	A/G						cc	- 20				PAL	



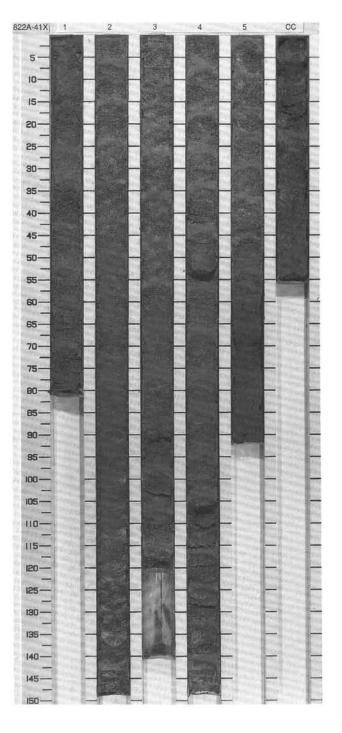
- IN	FOS	SIL	CHA	RACT	83	TIES				URB.	RES		
TIME-ROCK (FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
						47.0% 48.7%	43.1%	1	0.5-000		8	*	(10Y 4/1) GALGAREOUS CLAYSTONE also contains NANNOFOSSILS and BIOCLASTS SMEAR SLIDE SUMMARY (%): 1, 72 3, 66
					2		×	2	000000000000000000000000000000000000000				D D COMPOSITION: Bioclast 20 20 Clay 35 35 Nannotosils 25 25 Quartz 20 20 Spicules Tr Tr Turticate Tr
OFFER PLINCENE	N22 - N23	CN12d			æ	3% • 46.3%		3	000000000000000000000000000000000000000			*	
					α	1.98		4	080000000000000000000000000000000000000				
	A/G	A/G			R?	47.7%	.9%	5	000000000000000000000000000000000000000				



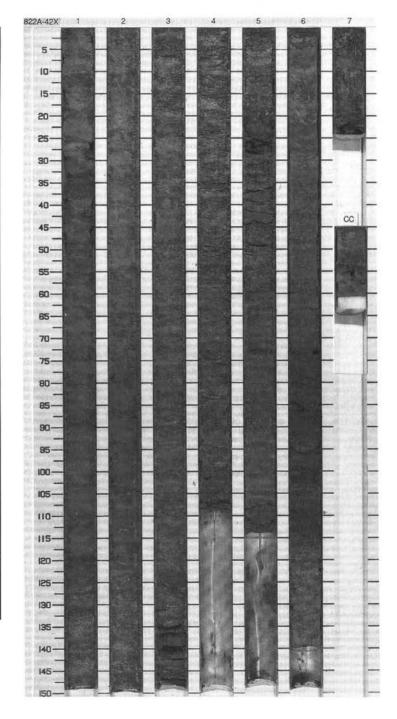
CNIT		SIL	CHAR	ACTER	s	TIES				uge.	SES		
TIME-ROCK D	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHI LITHOLO		SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					R?	54.5%	39.8%	1	0.5-00000000000000000000000000000000000				NANNOFOSSIL CLAYSTONE with BIOCLASTS and QUARTZ overlies CLAYEY CALCAREOUS MIXED SEDIMENT with NANNOFOSSILS, BIOCLASTS and QUARTZ Major Lithology; Dark greenish gray (10Y 4/1) to very dark gray (10Y 3/1), very monotonous NANNOFOSSIL CLAYSTONE with BIOCLASTS and QUARTZ in Sections 1-3 and 6. Greenish gray (5GY 5/1) CLAYEY CALCAREOUS MIXED SEDIMENT with NANNOFOSSILS, BIOCLASTS and QUARTZ in Sections 4 and 5.
					R?	2.08		2	80808080808080				
						2.08	933.5%		000000000000000000000000000000000000000				
PLIDCENE	2 - N23	CN12d			R?	53.9%		3	8080808080				
20110	N22				R?	53		4		202020202020			
					10000000	49.6%	●53.9%		VOID	98999			
					R?			5		96666669			
	A/G	9/3			а	• 46.2%		6		0000			



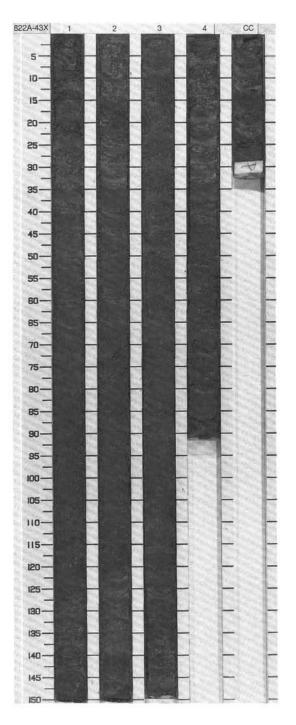
TING	FO	SSIL		ZONE/	R 85	TIES				URB.	RES		
TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					R2	.9%		1	0.5 000 0.5 000 1.0 VOID	0.0.0.			CALCAREOUS CLAYSTONE and CLAYSTONE with QUARTZ, NANNOFOSSILS and BIOCLASTS Major Lithology: Dark greenish gray (10Y 4/1 to 5/1), firm to slightly lithilled CLAYSTONE with QUARTZ, NANNOFOSSILS and BIOCLASTS in the upper and lower part. In Section: 2-3, darker greenish gray (5GY 3/1) CALCAREOUS CLAYSTONE has slightly less carbonate. SMEAR SLIDE SUMMARY (%):
UPPER PLIOCENE					R?	1.98		2	000000000000000000000000000000000000000	0.0.0.0.0.0.			4, 64 D COMPOSITION Bioclast 15 Clay 35 Nannofossils 30 Quartz 20 Spicules Tr
	N22 - N23	CN12d			6	91.0%	000	3	00000000000000000000000000000000000000				
					N 23	55.5%		4	000000000000000000000000000000000000000	0.0.0.0.0.0.0.0		*	
	A/G	5/2			5 N	•	•	5	000000000000000000000000000000000000000	0.0.0.0.			



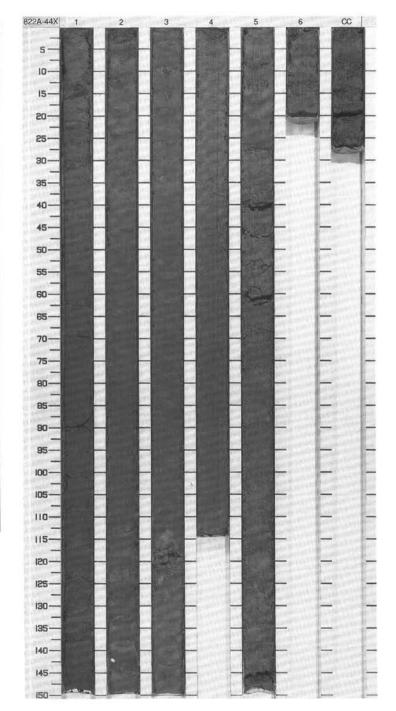
LING	B10	STR	CHA	ZONE/ RACTER	83	SE				IRB.	88		
TIME-HOCK OF	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETIC	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED, STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					α	53.3%	● %5.64	1	0.5	1			NANNOFOSSIL CLAYEY MIXED SEDIMENT with BIOCLASTS and QUARTZ Major Lithology: Dark gray (5Y 4/1), very monotonous and firm NANNOFOSSIL CLAYEY MIXED SEDIMENT (mud) with BIOCLASTS and QUARTZ Minor Lithology: Dark greenish gray (5Y 4/1), CLAYEY BIOCLASTIC PACKSTONE with FORAMINIFERS occurs in Section 4 at 100-110 cm and in Section 6 at 72-79 cm.
					1	1.90			1.0 000	1			SMEAR SLIDE SUMMARY (%): CF
						•			000000000000000000000000000000000000000				COMPOSITION:
					α			2	0000				Bioclast 15 55 65 Clay 35
						51.8%	5.8 %		000000000000000000000000000000000000000				Nannolossils 30
					œ	•	• 45	3	80000				
1	3					52.9%		3	00 00 00 00 00 00 00 00 00 00 00 00 00			*	
UPPER PLIUCENE	N22 - N23	CN12d				49.7%		4	000			0	
					ARTIY	. 49 9.1	• 41		VOID		Ø		
					UNCERTAIN POLAF	• 47.2% 2.02		5	80 80 80 80 80 80 80 80 80 80 80 80 80 8				
					UNC	4.		6	808080808080808			0	
	A/G	A/G						7	Void			PAL	



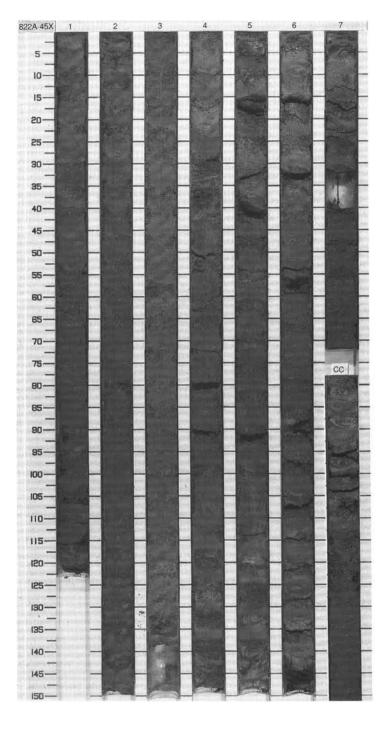
LINO				RACT		9	831					RB.	50		
TIME-ROCK UN	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
UPPER PLICCENE	F/G N22 - N23	C/G CN12c			- 1	UNCERTAIN POLARITY	•47.4% •42.6% •47.3% 48.1% • 2.01	•32.2%	3	1.0					NANNOFOSSIL CLAYSTONE with BIOCLASTS and QUARTZ Major Lithology: Very dark gray (10Y 4/1), firm NANNOFOSSIL CLAYSTONE with BIOCLASTS and QUARTZ.



CNIT				ZONE/ RACTER	97	LES					URB.	ES		
TIME-ROCK U	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					N2	2.10 2.09	33.2%	1	0.5	000000000000000000000000000000000000000		88		SILTY CLAYSTONE with QUARTZ, BIOCLASTS and NANNOFOSSILS Major Lithology: Greenish gray (10Y 4/2) to dark greenish gray (5GY 4/1), partially lithilitied, SILTY CLAYSTONE with QUARTZ, BIOCLASTS and NANNOFOSSILS. Minor Lithology: Clive gray, chalky, DOLOMITIC SILTY MIXED SEDIMENT with a very homogeneous texture occurs from Section 5 at 20 cm to CC. A layer of light greenish gray (5Y 6/1), fine grained DOLOMITIC CHALK occurs in Section 3 at 115-120 cm. SMEAR SLIDE SUMMARY (%): 2, 38 3, 118 5, 49
					N.S	37.9%	.2%	2		000000000000000000000000000000000000000		Ø	*	D
UPPER PLIOCENE	N22 - N23	CN12c			N2	2.11	•	3		000000000000000000000000000000000000000				Feldspar 5 Foraminifers Tr 5 Nannofossils 10 10 Quartz 30 5 15 Rock fragment 15
					SN N	•	71.7%	4		000000000000			og	
	F/G	5/2			N 2	939.8%	34.7%	5	-	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Ø	*	



SIT	E	82	2	HOL	E	A		CO	RE 45X (ORE	D	NT	ERVAL 404.9-414.6 mbsf
TINO	BI FO	OSTR	AT.	ZONE/	R	ES				. 88	es.		
TIME-ROCK UN	FORAMINIFERS	MANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					N2	9.7% 42.2% •		1	000000000000000000000000000000000000000	Hilling seasons com	* * * * * *		CALCAREOUS CLAYSTONE with NANNOFOSSILS, BIOCLASTS and OUARTZ, CLAYEY SILTY MIXED SEDIMENT with BIOCLASTS; and NANNOFOSSIL CLAYEY CHALK with BIOCLASTS and OUARTZ. Major Lithology: Dark gray (10Y 4/2), CALCAREOUS CLAYSTONE with NANNOFOSSILS, BIOCLASTS and OUARTZ in the upper part (Sections 1 and 2). In the middle part, the claystone alternates with CLAYEY SILTY MIXED SEDIMENT (sity mudstone) with BIOCLASTS. In Sections 6 and 7, NANNOFOSSIL CLAYEY CHALK with BIOCLASTS and OUARTZ.
					z	9.20		2	000000000000000000000000000000000000000	. 40000000000		*	Minor Lithology; BIOCLASTIC PACKSTONE, containing ECHINODERM FRAGMENTS, MOLLUSCS, BENTHIC and PLANKTONIC FORAMINIFERS, and GLAUCONITE (Section 4 at 35-65 cm, 80-95 cm). This interval is deformed with steeply inclined bedding which resulted from either slumping or drilling disturbance. SMEAR SLIDE SUMMARY (%): 2, 9 3, 74 5, 104 6, 30 D D D
					R?	5 44.3%	•	3	000000000000000000000000000000000000000		*	*	COMPOSITION: Tr 5 2 5 Bloclast 25 10 10 15 Clay 40 70 65 20 Dolomite
UPPER PLIOCENE	N22 - N23	CN12a				9% • 42.4%		4		0-6-00 00-6-00 00-6-00 00-6-00			
					R?	1.97	• 32.4%	5			?^		
					R?	•		6				*	
	A/G	9/2			R?			7 cc	VOID		*	PAI	



-	BIG	SSIL	AT.	ZONE/	- D		9	T			9.	_	Г	
TIME-ROCK UNIT	FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS		PALEOMAGNETICS	THIS THOUSEN	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
					2	43.9%	20.05	1	0.5					NANNOFOSSIL CLAYSTONE with BIOCLASTS; BIOCLASTIC NANNOFOSSIL CLAYEY CHALKY MIXED SEDIMENT: NANNOFOSSIL CLAYEY MIXED SEDIMENT MAINOFOSSIL CLAYEY MIXED SEDIMENT Major Lithology; Dark greenish gray (5GY 4/1), moderately lithified, NANNOFOSSIL CLAYSTONE with BIOCLASTS occurs in Sections 1-2. In Sections 3-4, moderately lithified, BIOCLASTIC NANNOFOSSIL CLAYEY CHALKY MIXED SEDIMENT is lighter greenish gray (5GY 5/1). QUARTZ sitz content and BIOCLASTS decrease in Sections 6-where NANNOFOSSIL CLAYEY MIXED SEDIMENT prevails.
					614	N. 47.0%	1.98	2		VOID	1			Minor Lithology: very fine sand- to silt-size SHELL FRAGMENTS and FORAMINIFERS occur in layer of BIOCLASTIC FORAMINIFER PACKSTONE with NANNOFOSSILS and CLAY at 109-112 in Section 6 and at 24 cm and 43 cm in Section 7. SMEAR SLIDE SUMMARY (%): 2, 140 4, 48 6, 134 7, 33
						49.6%	1.98		1				*	D D D D COMPOSITION: Aragonite 5 10 Bioclast 30 10 5 10
					CN			3	or through			Ø		Clay 20 20 10 15 FoldSpar
ER PLIOCENE	N21	CN12a			CZ			4		VOID	 		•	Rock fragment 2 5 Spicules Tr
OPPE					N2		•	5	in least classes	VOID				
					CN	42.6%	88.	6	direction of			Ø	*	
	A/G	A/G			N2			7	Total Invitation	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		8	*	

