SITE 816 HOLE A CORE 1H CORED INTERVAL 0.0-5.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
LOWER PLEISTOCENE	A/G	A/G			R	●57.3% 1.71	●89.3%	1	0.5				
	N22 - N23	CN13b			R	●60.1% 1.69	●82.6%	2	1.0				*
					R	●58.8% 1.68	●83.4%	3					TW
					R	●61.4% 1.71	●79.7%	4					*
								CC					PAL

LITHOLOGIC DESCRIPTION

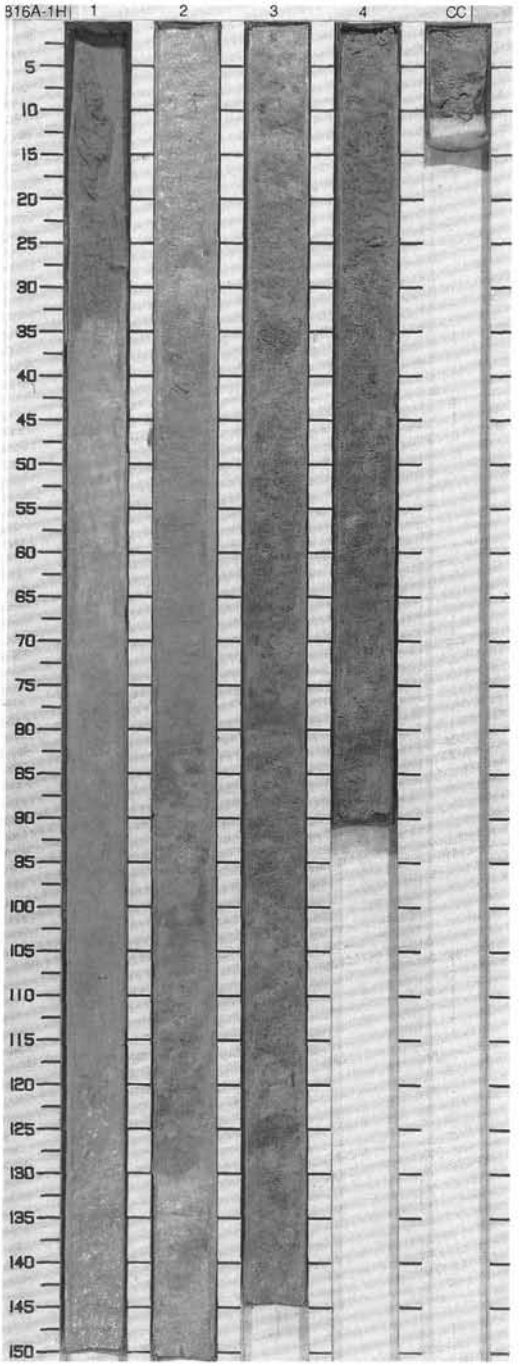
NANNOFOSSIL FORAMINIFER OOZE with CLAY and BIOCLASTS.

Major lithology: Light gray (5Y 7/2) locally bioturbated NANNOFOSSIL FORAMINIFER OOZE with CLAY.

Minor lithology: Very pale brown NANNOFOSSIL FORAMINIFER OOZE with CLAY and BIOCLASTS in Section1 and Section 2 (0-87) cm.

SMEAR SLIDE SUMMARY (%):

	2, 75 D	4, 76 D
COMPOSITION:		
Bioclast	6	5
Clay	12	12
Foraminifers	40	35
Micrite	4	5
Nannofossils	35	40
Quartz	3	3



SITE 816 HOLE A CORE 2H CORED INTERVAL 5.5-15.0 mbsf

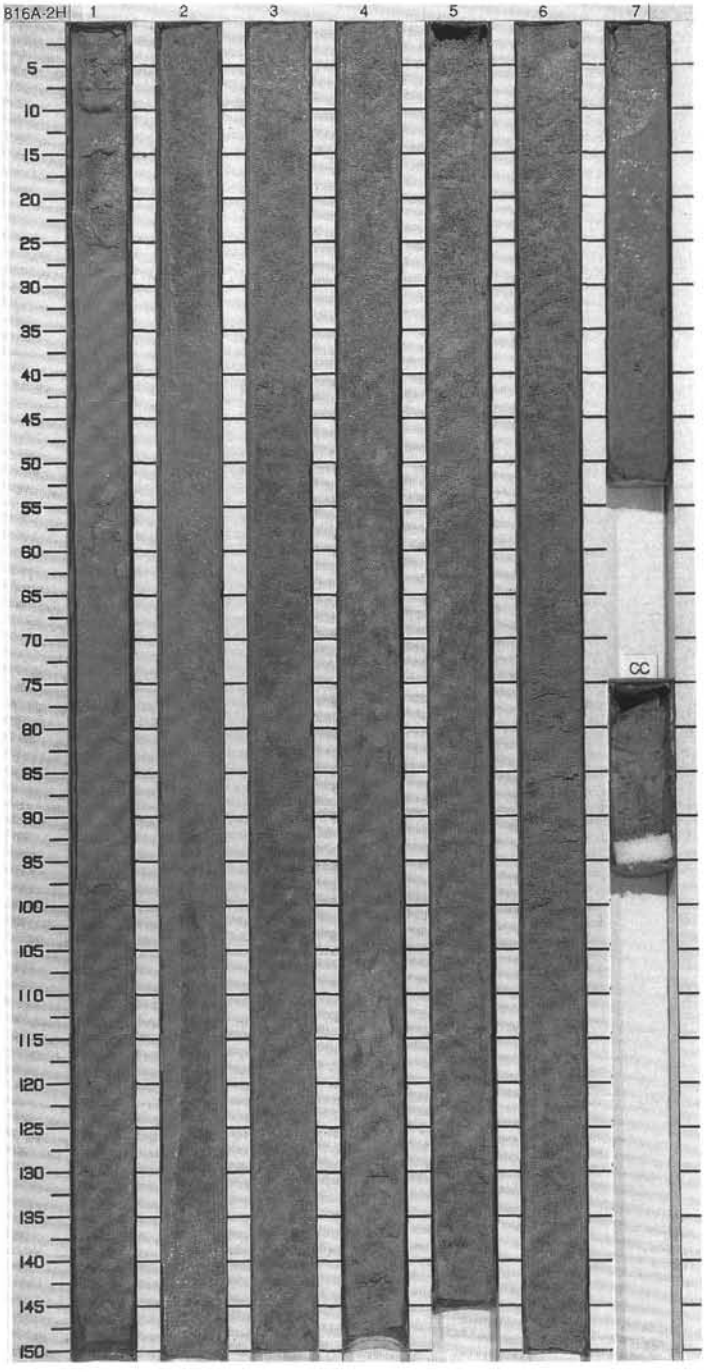
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
UPPER PLIOCENE	A/G N22 - N23	A/G CN12d			R	●60.2% 1.59	●83.3%	6						
					R	●63.5% 1.64	●83.2%	5					IW	
					R	●66.2% 1.60	●84.5%	4						
					R N R	●64.5% 1.66	●77.1%	3						
					R	●63.2% 1.62	●83.1%	2					*	
					R	●63.7% 1.65	●81.0%	1	0.5 1.0					
					R			7						
								CC					PAL	

NANNOFOSSIL FORAMINIFER OOZE with BIOCLASTS

Major lithology: Light gray (5Y 7/2) slightly mottled NANNOFOSSIL FORAMINIFER OOZE with BIOCLASTS.

SMEAR SLIDE SUMMARY (%):

	2, 75 D
COMPOSITION:	
Bioclast	4
Clay	15
Foraminifers	30
Nannofossils	40
Quartz	5
Spicules	6



SITE 816 HOLE A CORE 3H CORED INTERVAL 15.0-24.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
UPPER PLIOCENE	A/G	A/G			R			1	0.5				
	N21	CN12a				●63.3% 1.68	●75.1%		1.0				
					R			2					*
						●64.8% 1.64	●71.1%						
					R			3					
						●64.9% 1.60	●72.6%						
					R			4					
						●62.7% 1.61	●81.3%						
					R			5					
						●60.4% 1.68	●71.1%						OG
					R			6					IW
						●59.9% 1.70	●75.1%						*
								7					
								CC					

LITHOLOGIC DESCRIPTION

Olive gray (5Y 5/2) bioturbated mottled CLAYEY FORAMINIFER OOZE with NANNOFOSSILS.

SMEAR SLIDE SUMMARY (%):

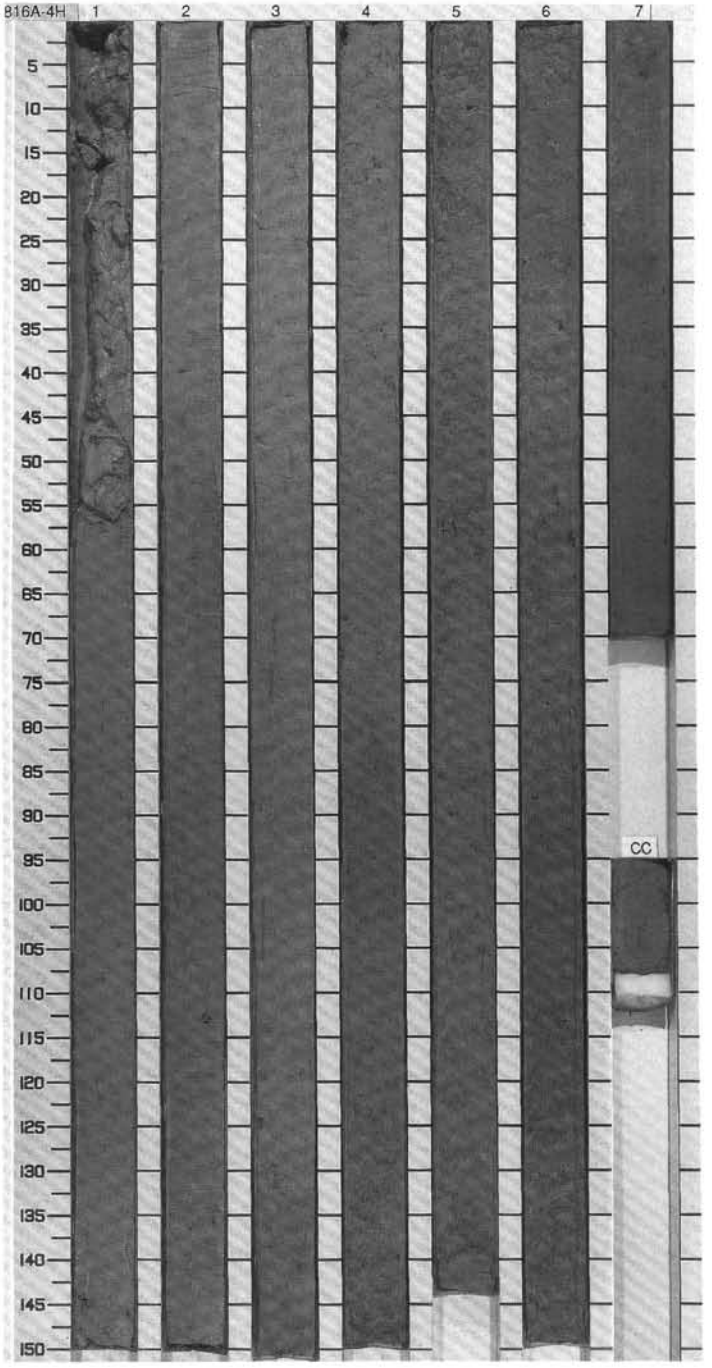
	2, 90 D	6, 90 D
COMPOSITION:		
Bioclast	7	5
Clay	30	35
Foraminifers	40	35
Inorganic calcite	---	3
Nannofossils	20	20
Spicules	3	---
COMPOSITION:		
Bioclast	7	5
Clay	30	35
Foraminifers	40	35
Inorganic calcite	---	3
Nannofossils	20	20
Spicules	3	---

SITE 816 HOLE A CORE 4H CORED INTERVAL 24.5-34.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
LOWER PLIOCENE	A/G N18 - N19	A/G CN11			N			7 CC					PAL	
					R			6						
					N	●58.8% 1.72 ●53.1%								
					R		●78.6%	5						
					R	●58.3% 1.76	●73.4%	4						
					R	●61.9% 1.70	●85.0%	3					*	
					R	●58.2% 1.72	●72.5%	2						
					R	●58.4% 1.74	●81.6%	1	0.5 1.0					Olive gray (5Y 5/2) bioturbated mottled FORAMINIFER CLAYEY NANNOFOSSIL OOZE.

SMEAR SLIDE SUMMARY (%):

	3, 75 D	7, 50 D
COMPOSITION:		
Bioclast	2	2
Clay	35	25
Dolomite	--	3
Foraminifers	25	25
Inorganic calcite	2	--
Nannofossils	35	45



SITE 816 HOLE A CORE 5H CORED INTERVAL 34.0-43.5 mbsf

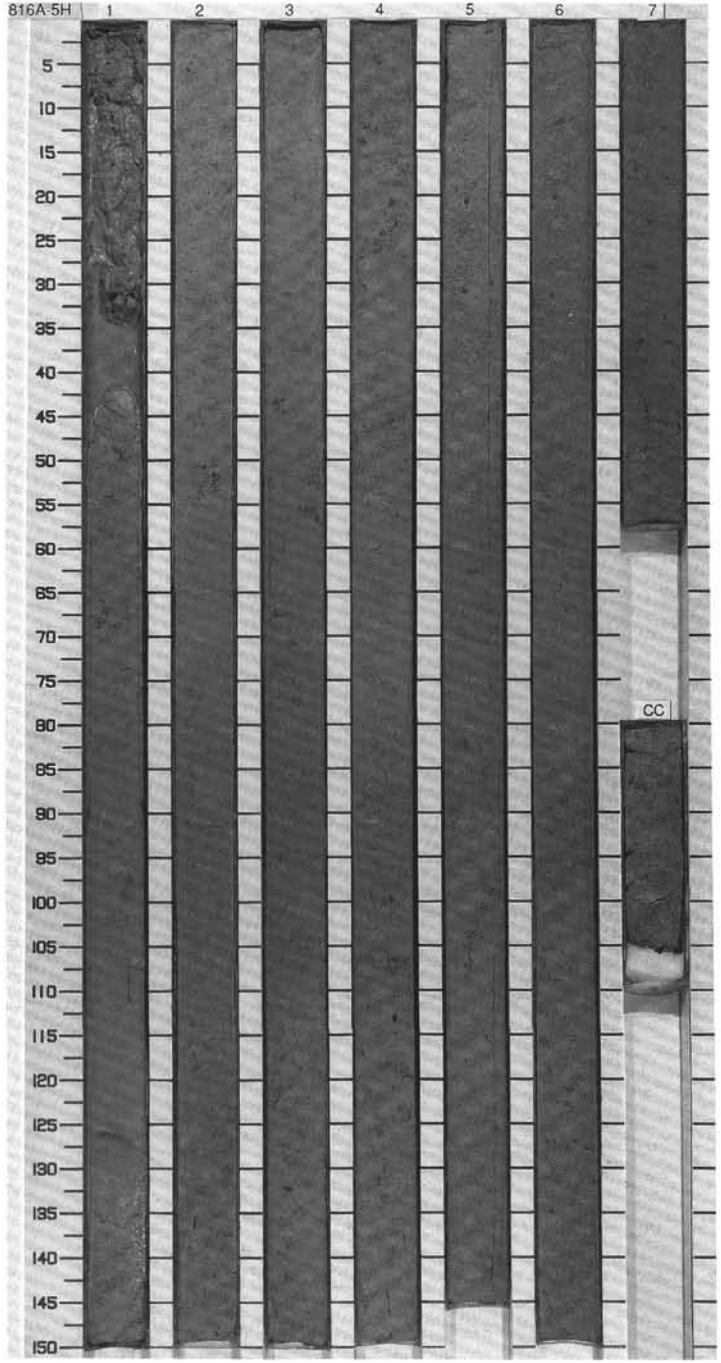
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
LOWER PLIOCENE	A/G	A/M			N	N	N	1	0.5				
	N18 - N19	CN11				●45.0% 1.61	●80.1%		1.0				
					N	N	N	2					
						●70.1% 1.83	●72.8%						
					N	N	N	3					*
						●55.9% 1.75	●61.4%						
					N	N	N	4					
						●54.2% 1.73	●66.8%						
					N	N	?	5					
						●58.2% 1.76	●66.9%						
					?	N	N	6					IW
						●56.9% 1.76							
					N	?	?	7				Ø	
								CC				Ø	PAL

LITHOLOGIC DESCRIPTION

Light olive gray (5Y 6/2) bioturbated mottled CLAYEY FORAMINIFER OOZE with NANNOFOSSILS. Bioturbated areas are often enriched in pyrite.

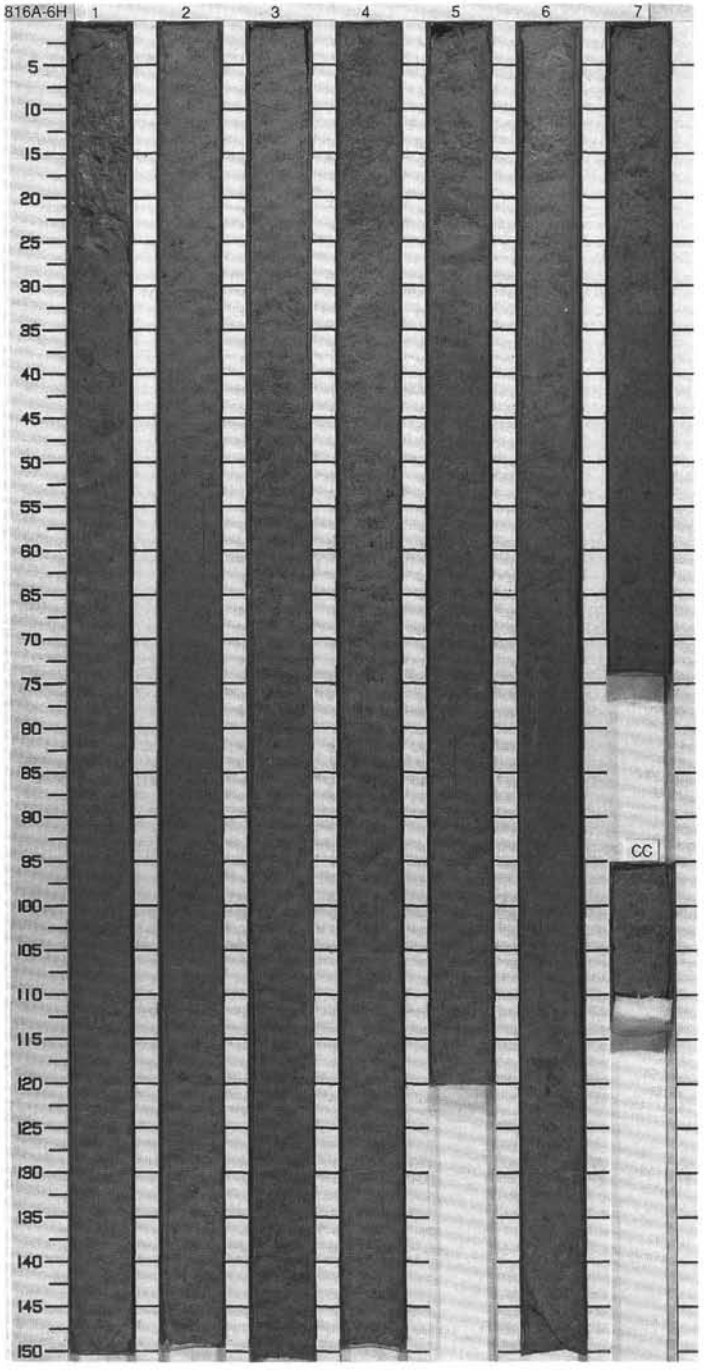
SMEAR SLIDE SUMMARY (%):

	3, 75 D
COMPOSITION:	
Bioclast	8
Clay	30
Foraminifers	35
Micrite	2
Nannofossils	25



SITE 816 HOLE A CORE 6H CORED INTERVAL 43.5-53.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
LOWER PLIOCENE	A/G: N18 - N19	A/M: CN11			N	N		1	0.5					Olive gray (5Y 5/2) slightly bioturbated CLAYEY FORAMINIFER NANNOFOSSIL OOZE.
						●58.3% 1.44	●77.6%		1.0					SMEAR SLIDE SUMMARY (%):
														3, 75 D
														COMPOSITION:
														Bioclast 8 Clay 25 Dolomite Tr Foraminifers 30 Micrite 2 Nannofossils 35
					N	N		2						
						●54.6% 1.74	●74.5%							
					N	N		3						
						●66.7% 1.80	●76.4%							
					?	?		4						
					N	N								
						●37.0% 1.82	●74.4%							
					R			5						
					?									
					N	N								
						●54.0% 1.78	●84.3%							
					N			6					OG IW	
						●64.4% 1.74								
					N			7						
								CC					PAL	



TIME-ROCK UNIT: LOWER PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER
- FORAMINIFERS: A/G; N18 - N19
- NANNOFOSSILS: A/M; CN11
- RADIOLARIANS:
- DIATOMS:

PALEOMAGNETICS: N
PHYS. PROPERTIES: N
CHEMISTRY: N

SECTION	METERS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY
1	0.5		●53.1% 1.86	●67.2%
	1.0			
2			●53.7% 1.83	●80.8%
3			●75.6% 1.99	●82.2%
4		??	●54.4% 1.74%	●81.9%
5		?	●55.0% 1.88	●76.7%
6		?	●53.3% 1.83	●75.1%
7				
CC				

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

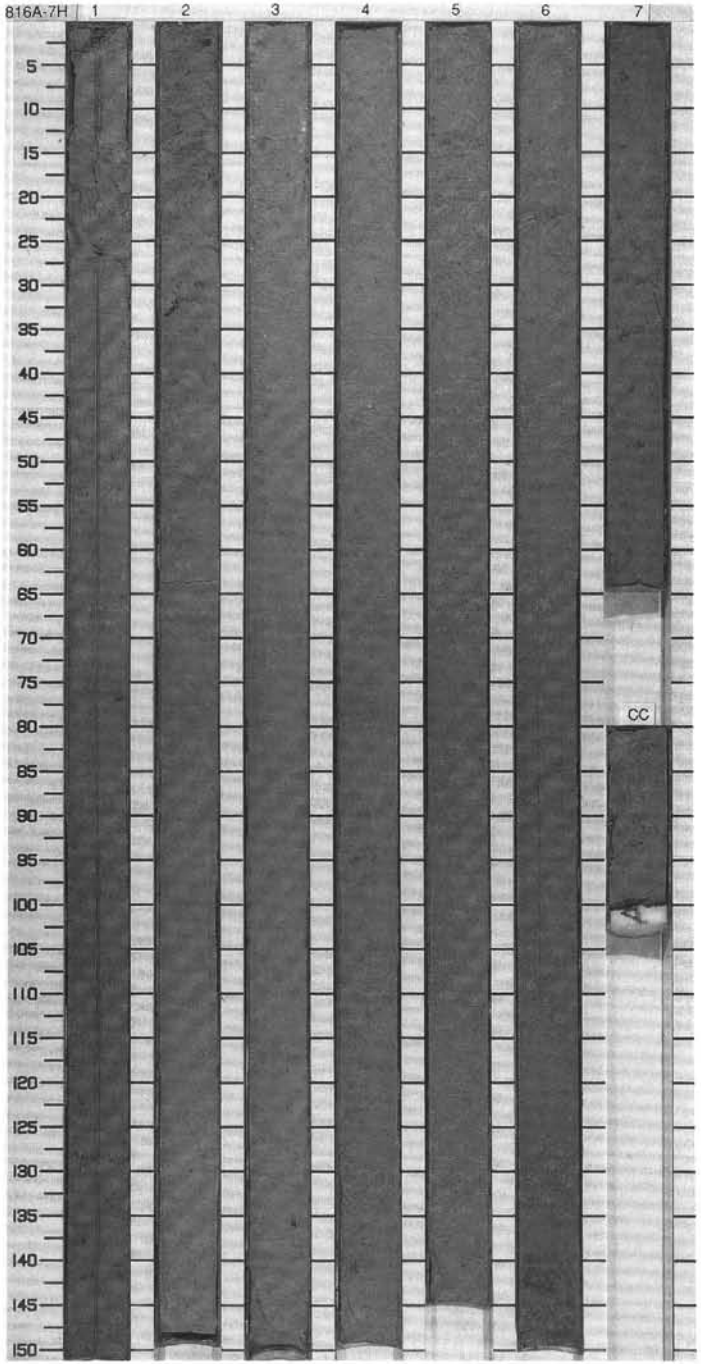
SAMPLES: LW; PAL

LITHOLOGIC DESCRIPTION

Olive gray (5Y 5/2) slightly bioturbated FORAMINIFER NANNOFOSSIL OOZE with CLAY.

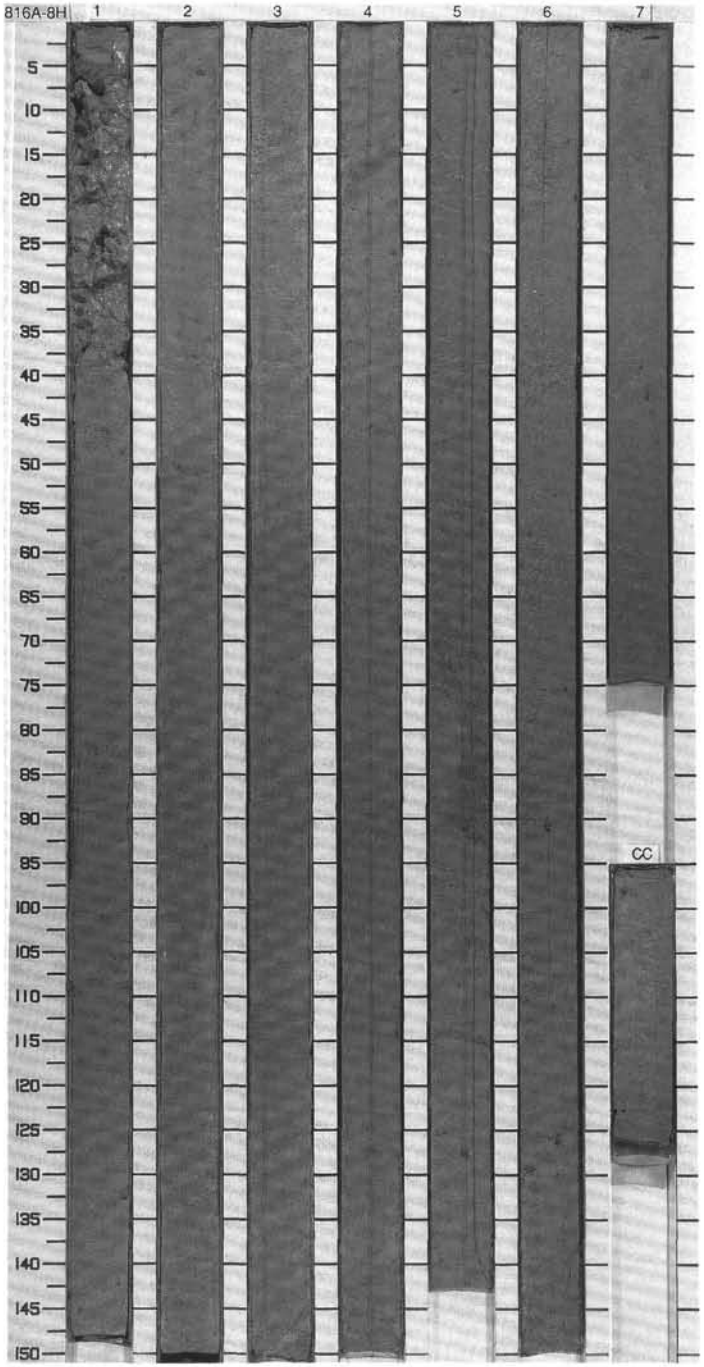
SMEAR SLIDE SUMMARY (%):

	3, 75 D
COMPOSITION:	
Bioclast	10
Clay	20
Dolomite	5
Foraminifers	30
Nannofossils	35



SITE 816 HOLE A CORE 8H CORED INTERVAL 62.5-72.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
LOWER PLIOCENE	A/G N18 - N19	A/M CN11			uncertain polarity	● 56.4% 1.76	● 78.7%	1	0.5					Light olive gray (5Y 6/2) bioturbated CLAYEY NANNOFOSSIL OOZE with FORAMINIFERS.
						● 53.3% 1.77	● 76.4%	2	1.0					SMEAR SLIDE SUMMARY (%):
						● 52.1% 1.87	● 72.7%	3				*		3, 75 D
						● 50.4% 1.89	● 65.5%	4						COMPOSITION:
					● 50.1% 1.78		● 68.8%	5						Bioclast 4 Clay 30 Dolomite 1 Foraminifers 15 Inorganic calcite 5 Nannofossils 4
					● 49.1% 1.82		● 64.9%	6					IW	
								7						
								CC					PAL	



SITE 816 HOLE A CORE 9H CORED INTERVAL 72.0-81.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
LOWER PLIOCENE	C/P	N18 - N19			uncertain polarity	●54.5% 1.84	●58.1%	1	0.5				*
	A/M	CN11				●49.4% 1.78	●62.6%	2	1.0				
						●52.9% 1.92	●66.4%	3					
						●54.8% 1.87	●62.7%	4					*
						●57.0% 1.90	●55.9%	5					
					●54.2% 1.88		●54.6%	6					
								7					*
								CC					PAL

LITHOLOGIC DESCRIPTION

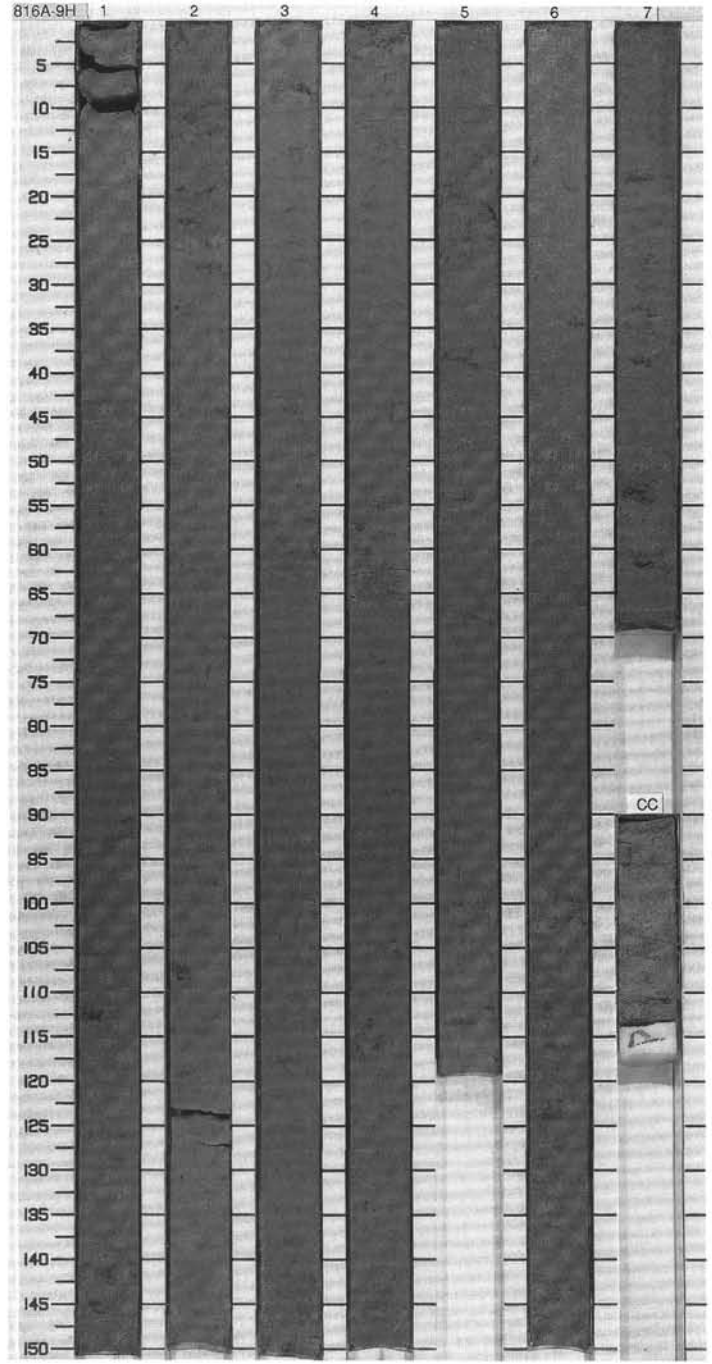
NANNOFOSSIL OOZE with FORAMINIFERS and DOLOMITE.

Major lithology: Olive gray (5Y 5/2) bioturbated NANNOFOSSIL OOZE with FORAMINIFERS and DOLOMITE.

Minor lithology: Dark gray (5Y 4/7) CLAYEY NANNOFOSSIL MIXED SEDIMENT with DOLOMITE (Section 1).

SMEAR SLIDE SUMMARY (%):

	1, 71 D	4, 77 D	7, 62 D
TEXTURE:			
Sand	15	25	65
Silt	50	60	25
Clay	35	15	10
COMPOSITION:			
Clay	35	15	10
Dolomite	10	---	25
Feldspar	---	---	5
Foraminifers	2	13	20
Nannofossils	50	60	30
Quartz	1	5	5
Rock fragment	---	5	5
Spicules	2	---	---
Zircon	---	2	---



SITE 816 HOLE A CORE 10H CORED INTERVAL 81.5-91.0 mbsf

TIME-ROCK UNIT: LOWER PLIOCENE

BIOSTRAT. ZONE/FOSSIL CHARACTER
- FORAMINIFERS: A/G N18 - N19
- NANNOFOSSILS: A/P CN11
- RADIOLARIANS
- DIATOMS

PALEOMAGNETICS: uncertain polarity

PHYS. PROPERTIES:
- ● 48.6% 1.81 ● 68.9%
- ● 49.2% 1.93 ● 77.8%
- ● 45.7% 1.95 ● 73.6%
- ● 51.9% 1.94 ● 78.1%
- ● 48.2% 1.84 ● 79.0%
- ● 53.2% 1.82 ● 83.5%

CHEMISTRY

SECTION: 1, 2, 3, 4, 5, 6, 7, CC

METERS: 0.5, 1.0

GRAPHIC LITHOLOGY

DRILLING DISTURB.

SED. STRUCTURES

SAMPLES: PAL

LITHOLOGIC DESCRIPTION

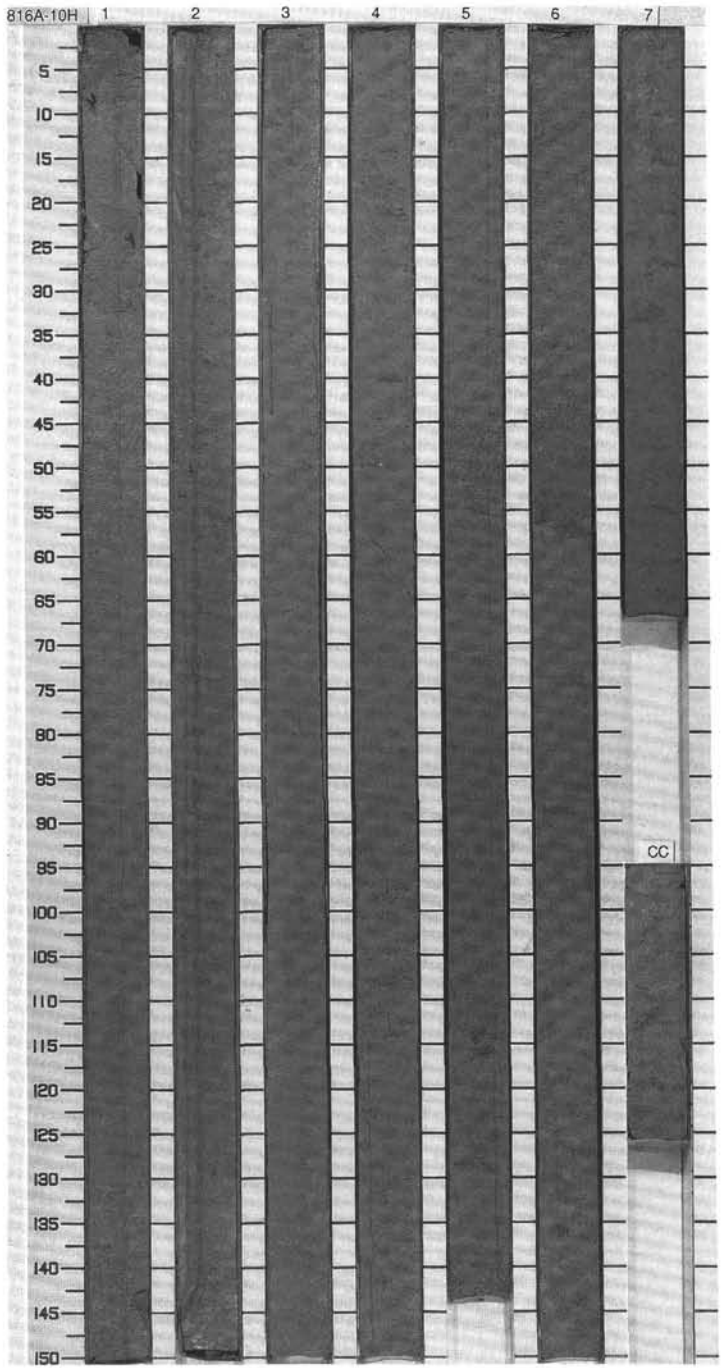
NANNOFOSSIL CHALK with FORAMINIFERS and DOLOMITE.

Major lithology: Olive (5Y 5/3) bioturbated NANNOFOSSIL CHALK with FORAMINIFERS and DOLOMITE. Chalky layers and nodules occur in Section 1.

Minor lithology: Olive gray (5Y 5/2) bioturbated FORAMINIFER NANNOFOSSIL CHALK with CLAY and DOLOMITE.

SMEAR SLIDE SUMMARY (%):

	2, 74 D	3, 81 D	5, 68 D	6, 70 D
TEXTURE:				
Sand	40	35	30	25
Silt	40	45	50	50
Clay	20	20	20	25
COMPOSITION:				
Clay	20	20	20	25
Dolomite	20	20	20	10
Foraminifers	25	15	10	3
Nannofossils	30	35	40	50
Quartz	5	5	5	5
Rock fragment	---	3	2	5
Spicules	---	---	---	2
Zircon	---	2	3	---



SITE 816 HOLE A CORE 11H CORED INTERVAL 91.0-93.0 mbsf

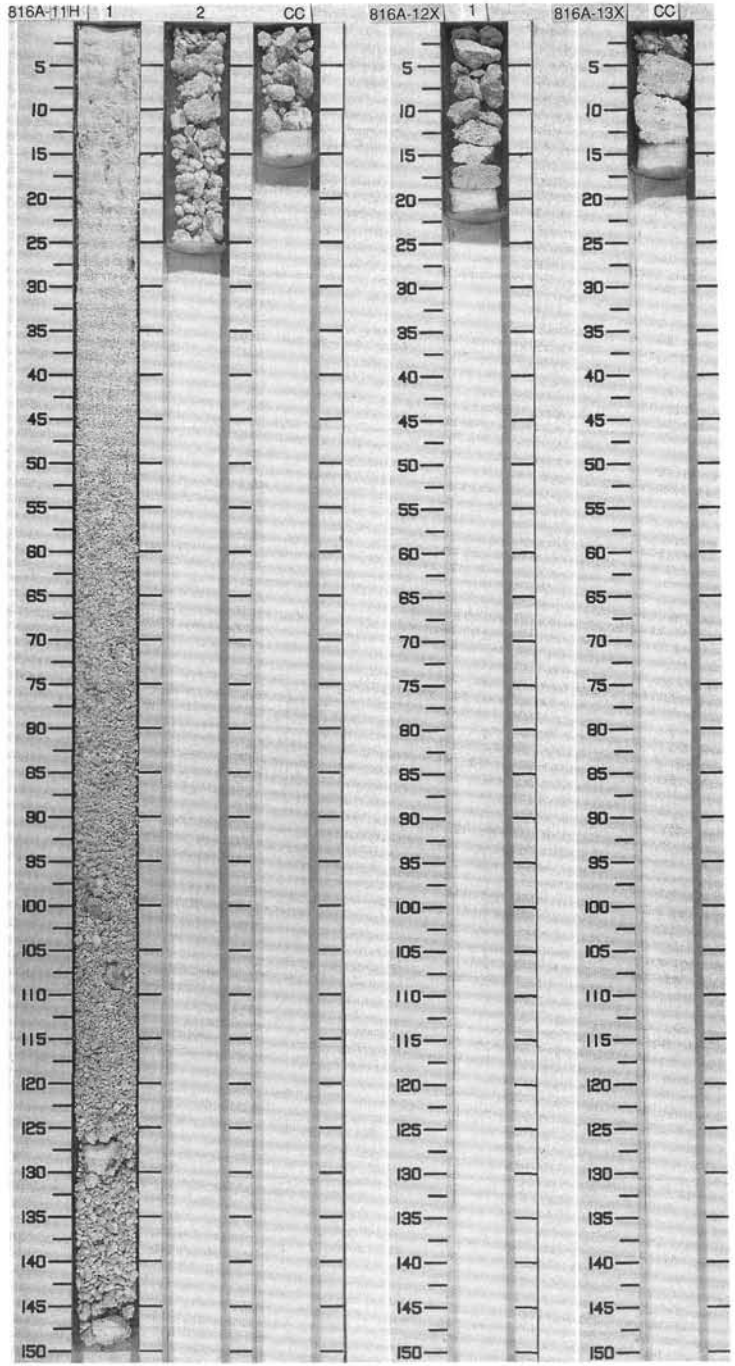
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
LOWER PLIOCENE	B / F/M	CN11			uncertain polarity		●107.9% (dolomite)	1 2 CC	0.5 1.0		X		PAL	SKELETAL PACKSTONE and RUDSTONE Major lithology: Very white (10YR 8/0), sand-sized, lithified SKELETAL PACKSTONE and RUDSTONE and unlithified SKELETAL RUDSTONE. Rounded fragments of columnar corallinaceans, bivalves, gastropods, corals and rhodoliths are prominent. In lithified sediment, molds of corals and molluscs occur.

SITE 816 HOLE A CORE 12X CORED INTERVAL 93.0-98.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE		B			not measured			1						BIOCLASTIC PACKSTONE and FLOATSTONE Major lithology: White (2.5Y 8/0), partly dolomitized BIOCLASTIC PACKSTONE and FLOATSTONE with abundant fragments of corallines, molluscs, and benthic foraminifers. Minor lithology: Pale yellow (2.5Y 8/3) partly dolomitized BIOCLASTIC GRAINSTONE containing abundant benthic foraminifers, molluscs, echinoid spines and lithoclasts.

SITE 816 HOLE A CORE 13X CORED INTERVAL 98.2-102.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE								CC					PAL	BIOCLASTIC FLOATSTONE Major lithology: White (10Y 8/0), partly dolomitized BIOCLASTIC FLOATSTONE containing abundant debris of molluscs, corals and large coralline fragments.

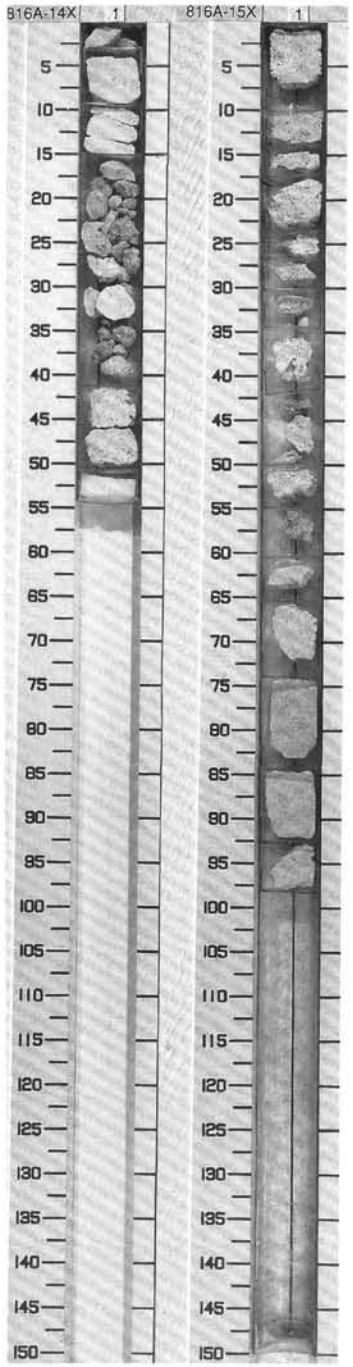


SITE 816 HOLE A CORE 14X CORED INTERVAL 102.2-107.8 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE						not measured			1	0.5				# PAL	BIOCLASTIC FLOATSTONE Major lithology: Very white (10YR 8/0), partly dolomitized BIOCLASTIC FLOATSTONE with RHODOLITHS. The matrix consists of coralline fragments, mollusc, bryozoan, coral and hydrozoan (*Millepora*?) debris. Rhodoliths reach 5 cm in diameter.

SITE 816 HOLE A CORE 15X CORED INTERVAL 107.8-111.5 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS		PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE						not measured		● 105.9%	1	0.5					BIOCLAST RHODOLITH RUDSTONE and BIOCLAST RUDSTONE Major lithology: Very white (10YR 8/0), partly dolomitized BIOCLAST RHODOLITH RUDSTONE, containing abundant coralline, mollusc and coral fragments. Some of the coral fragments are dissolved out. Rhodoliths (ellipsoidal, asymmetric, 3-4 cm in diameter) often show *Clionangs*. Corals often form the nuclei. Minor lithology: Very white (10YR 8/0), partly dolomitized CORALLINACEAN BOUNDSTONE. Single rhodoliths are connected under each other by nonarticulate corallinaceans.



SITE 816 HOLE B CORE 1R CORED INTERVAL 86.0-95.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
	A/G	*			uncertain polarity		● 73.6%	1	0.5			Tr	*
	CN11	CN11							1.0				
								2					*
	A/G							3			X		*
								CC					

LITHOLOGIC DESCRIPTION

NANNOFOSSIL CLAYEY CHALK with FORAMINIFERS and DOLOMITE.

Major lithology: Olive gray (5Y 5/2) NANNOFOSSIL CLAYEY CHALK with FORAMINIFERS and DOLOMITE.

Minor lithology: White dolomitized skeletal RUDSTONE and FLOATSTONE with RHODOLITHS.

SMEAR SLIDE SUMMARY (96):

	1,60 D	2,60 D	3,7 D	3,70 D
TEXTURE:				
Sand	40	40	---	35
Silt	30	45	---	50
Clay	30	15	---	15
COMPOSITION:				
Apatite	---	---	Tr	---
Clay	30	15	---	15
Dolomite	20	21	Tr	15
Foraminifers	15	10	15	10
Glass	---	---	1	---
Inorganic calcite	---	---	12	---
Micrite	---	---	20	---
Nannofossils	25	45	45	50
Oxide	---	---	2	---
Plagioclas	---	---	2	---
Polyquartz	---	---	2	---
Quartz	5	5	---	5
Rock Fragments	5	---	---	5
Zircon	---	1	---	---

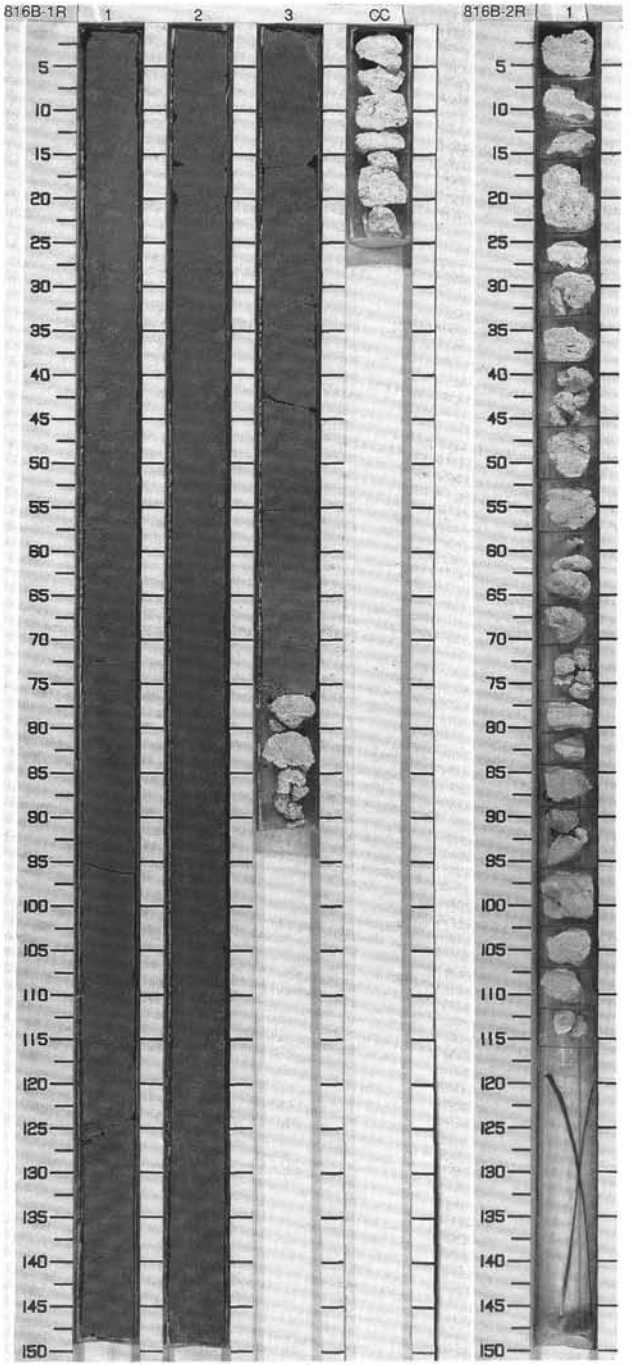
SITE 816 HOLE B CORE 2R CORED INTERVAL 95.6-105.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES
MIDDLE MIOCENE					uncertain polarity		106.6% ●	1	0.5		X		
									1.0		X		
											X		

LITHOLOGIC DESCRIPTION

CORALLINE ALGAE, CORAL FLOATSTONE and RUDSTONE with RHODOLITHS

Major lithology: White CORALLINE ALGAE, CORAL FLOATSTONE and RUDSTONE with RHODOLITHS. Matrix components are angular and include mollusca, foraminifers, coral and *Halimeda*.

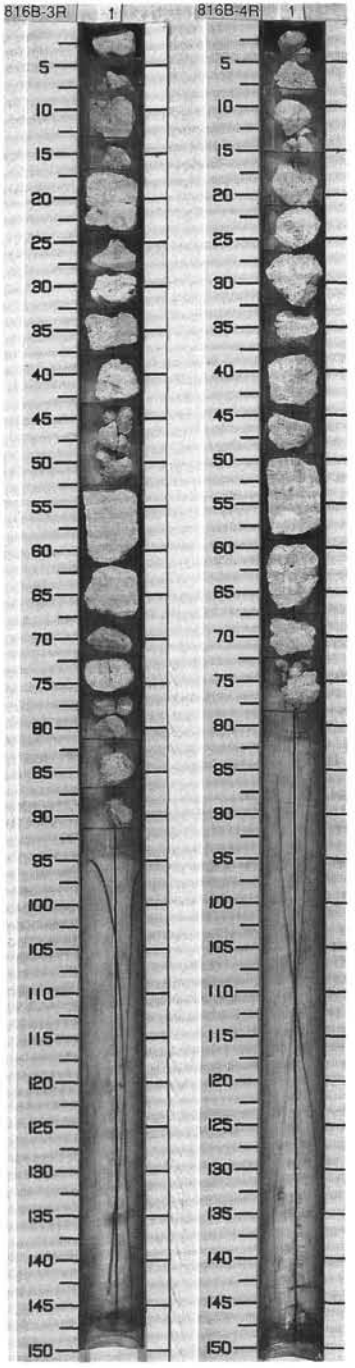


SITE 816 HOLE B CORE 3R CORED INTERVAL 105.3-114.9 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					uncertain polarity		● 107.0%	1	0.5 1.0		X			RHODOLITHS and RUDSTONE Pieces 1-15, 19: Massive subspheroidal RHODOLITHS up to 4 cm in diameter. Nuclei are commonly corals or coralline algae fragments. Pieces 16-18, 20-24: White (10YR 8/1) CORAL, CORALLINE ALGAE RUDSTONE.

SITE 816 HOLE B CORE 4R CORED INTERVAL 114.9-124.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured			1	0.5		X			CORALLINE ALGAE, CORAL RUDSTONE with RHODOLITHS Major lithology: White (10YR 8/1) dolomitized CORALLINE ALGAE, CORAL RUDSTONE with RHODOLITHS and extensive moldic porosity. Rhodoliths are up to 6 cm in diameter and subspheroidal to discoidal in shape.



SITE 816 HOLE B CORE 5R CORED INTERVAL 124.6-134.3 mbsf

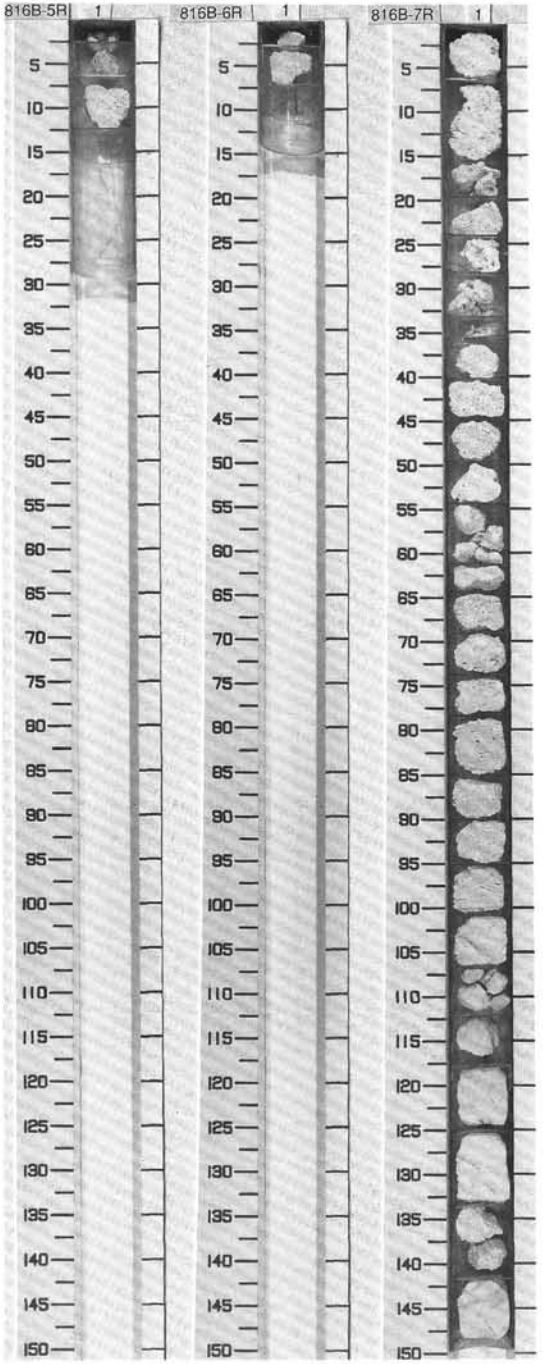
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE							106.5% ●	1			X			RHODOLITH and rhodolith fragments.

SITE 816 HOLE B CORE 6R CORED INTERVAL 134.3-144.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE								1			X			CORALLINE ALGAL RUDSTONES with CORALS Major lithology: White (10YR 8/1) dolomitized CORALLINE ALGAL RUDSTONES with CORALS. Moldic porosity well developed.

SITE 816 HOLE B CORE 7R CORED INTERVAL 144.0-153.6 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured		106.4% ●	1	0.5 1.0					CORALLINE ALGAE CORAL RUDSTONE. Major lithology: White (10YR 8/1) dolomitized CORALLINE ALGAE CORAL RUDSTONE with RHODOLITHS and moldic porosity. Minor lithology: White (10YR 8/1) CORALLINE ALGAE CORAL GRAINSTONE.

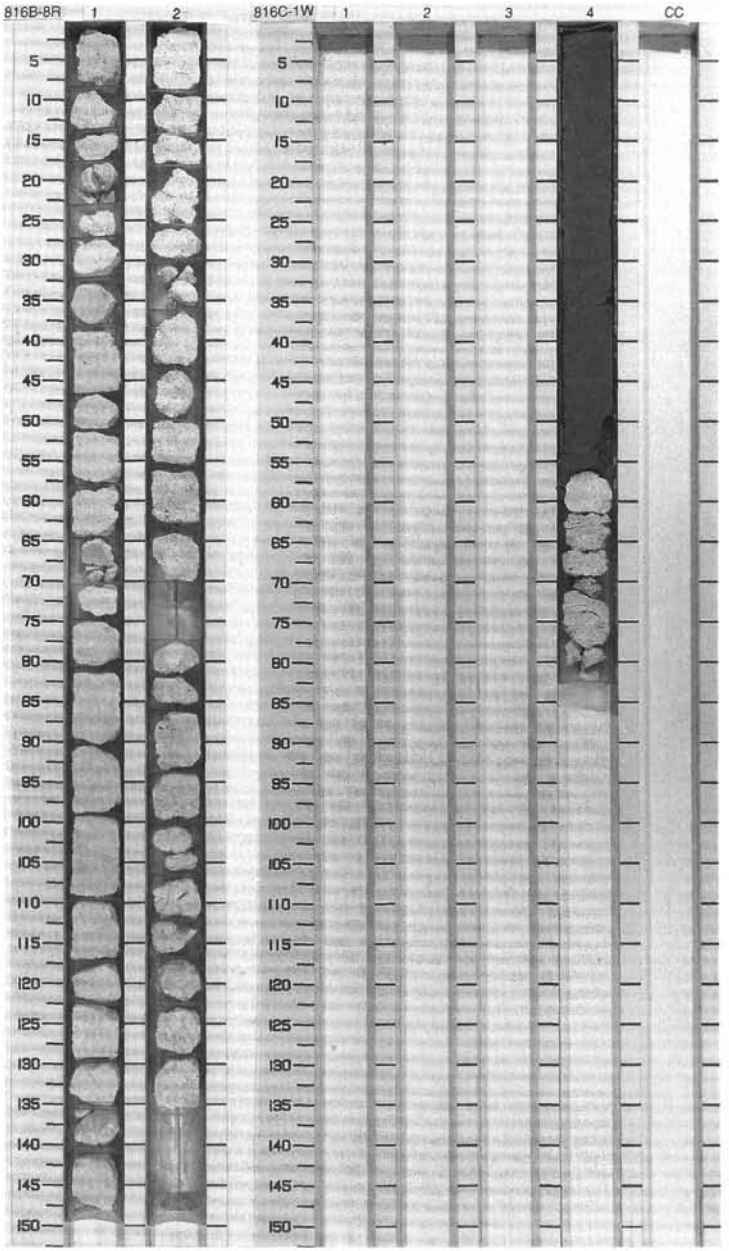


SITE 816 HOLE B CORE 8R CORED INTERVAL 153.6-163.2 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured			1	0.5 1.0		X			CORALLINE ALGAE CORAL RUDSTONE with RHODOLITHS *Major lithology:* White (10YR 8/1) dolomitized *CORALLINE ALGAE CORAL RUDSTONE* with RHODOLITHS and moldic porosity. Rhodoliths are subspherical in shape, 1-5 cm in diameter with either coral or coralline algae nuclei. Geopetal deposits occur in some cavities.
								2			X			

SITE 816 HOLE C CORE 1W CORED INTERVAL 0.0-140.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured			1	0.5 1.0					RHODOLITH-BEARING BIOCLASTIC FLOATSTONE. Section 1 through Section 3: WASHED NANNOFOSSIL OOZE with FORAMS and DOLOMITE. Section 4: RHODOLITH-BEARING BIOCLASTIC FLOATSTONE with MOLDIC POROSITY. Bioclasts include: Algal-encrusted coral fragments. *Halimeda*, gastropods, pelecypods and large benthic foraminifers.
								2						
								3						
								4						



SITE 816 HOLE C CORE 2R CORED INTERVAL 140.4-144.4 mbsf

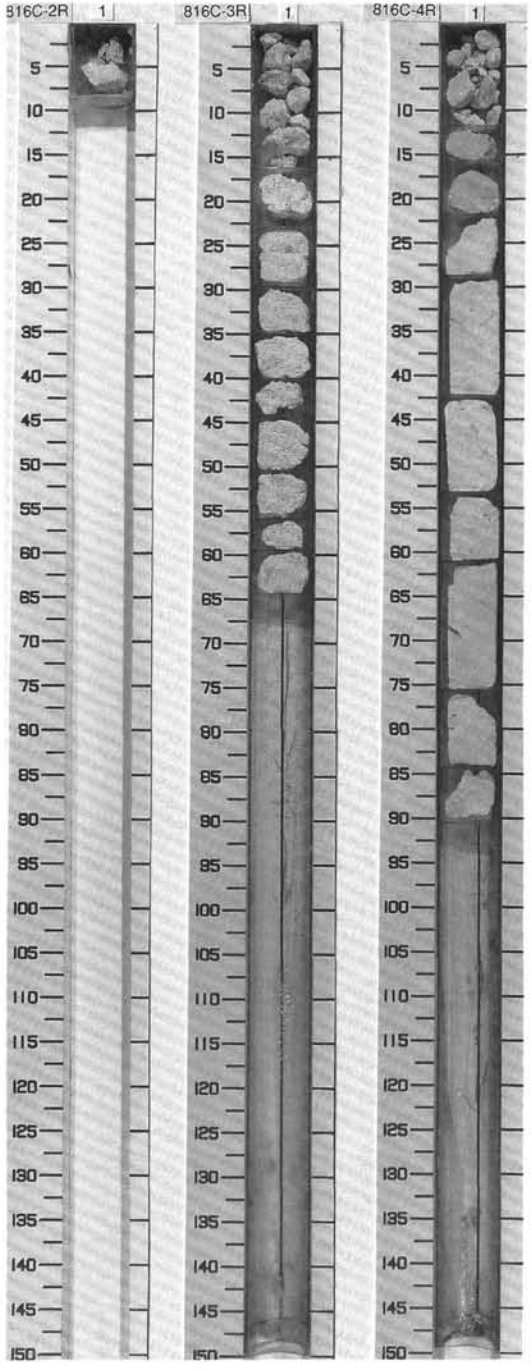
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE							106.5%	1						RHODOLITH-BEARING BIOCLASTIC RUDSTONE. Pieces include *Porites*, nonarticulate coralline algae and bioclastic rudstone.

SITE 816 HOLE C CORE 3R CORED INTERVAL 144.4-154.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured			1	0.5				PAL	Partially dolomitized RHODOLITHS, RUDSTONE AND PACKSTONE. Piece 1:CORAL RUDSSTONE with BIOCLASTIC GRAINSTONE matrix (coralline algae, molluscs and foraminifers). Piece 2: Rhodolith-bearing RUDSTONE to PACKSTONE with horn coral. Piece 3: Rhodolith-bearing RUDSTONE to PACKSTONE with horn coral. Pieces 4 to 8: Coralgal RUDSTONE with *Halimeda* and coralline algae with bioclastic GRAINSTONE/PACKSTONE matrix. Pieces 9 and 10: Well-cemented rhodolith-bearing *Halimeda* PACKSTONE.

SITE 816 HOLE C CORE 4R CORED INTERVAL 154.0-163.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured		106.5%	1	0.5					RHODOLITH FLOATSTONE and CORALGAL BOUNDSTONE. Piece 1: Red-stained mixed lithologies. Pale red color suggests staining in paleosol. Sequence appears dolomitized. Piece 2 and Piece 3: White rhodolith-bearing Coralline debris; FLOATSTONE with recrystallized matrix. Pieces 5-8: RHODOLITH FLOATSTONE with granular to pebbly matrix. Moldic to intergranular porosity. Piece 9: RUDSTONE with layered rhodoliths; one with *Acropora* fragment. Piece 10: CORALGAL BOUNDSTONE. Coralgal rhodoliths in a matrix of corals. Similar to Core 5R. PIECE 9 is transitional to piece 10 and cores below.



SITE 816 HOLE C CORE 5R CORED INTERVAL 163.7-173.4 mbsf

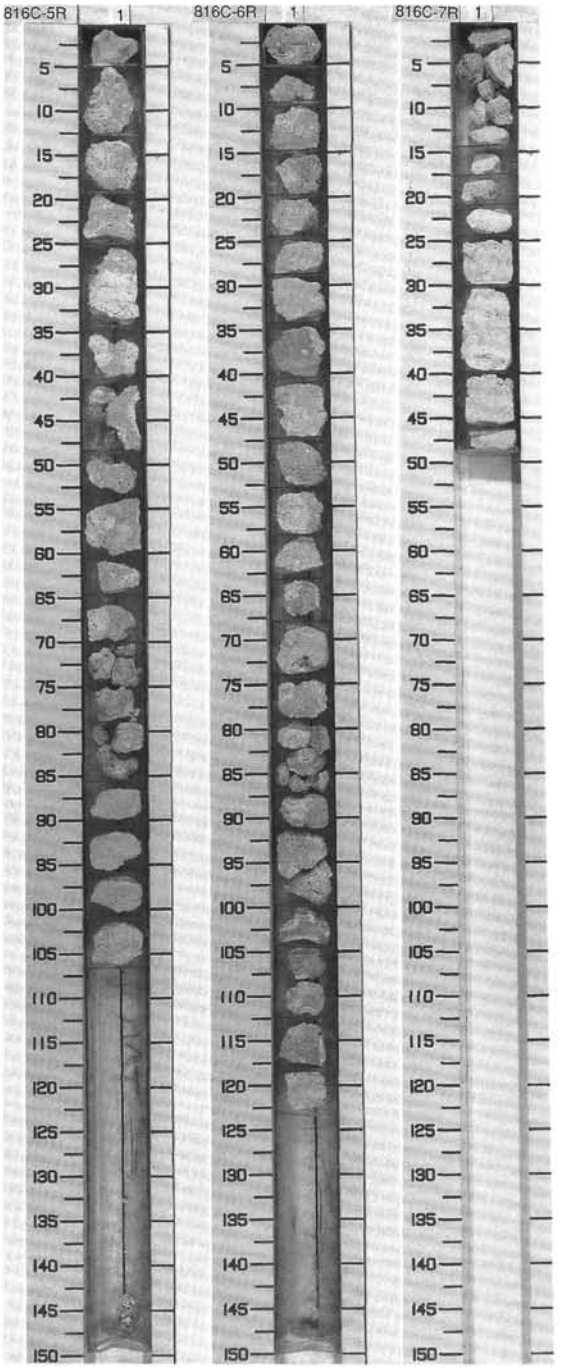
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured		106.3%	1	0.5 1.0				PAL	CORALGAL BOUNDSTONE,POSSIBLY DOLOMITIC. Large white coralgal encrustations in a brownish matrix. Well-developed moldic and possible intraparticle porosities. *The large "coralgal encrustations" are very irregular to round and are a complex* intergrowth of corals and coralline algae, commonly with a nuclei of coral branches or fragments. The "matrix" has considerable moldic and interparticle porosity. Possible interparticle porosity between encrusting layers. Fine crystalline, possibly dolomitic cement lines pores.

SITE 816 HOLE C CORE 6R CORED INTERVAL 173.4-183.1 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured		106.2%	1	0.5 1.0				# PAL	CORALGAL BOUNDSTONE with MINOR RHODOLITHS. Possibly dolomitic. Coralline algal growth includes rhodoliths and encrustations on branching corals locally interlaminated with coral growths. Relatively brownish grey porous matrix is similar to core 5 and contains grains of coralline algae and other bioclasts including molluscs.

SITE 816 HOLE C CORE 7R CORED INTERVAL 183.1-192.4 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured		107.0%	1						BIOCLASTIC and CORALGAL RUDSTONES and CORALGAL BOUNDSTONES with rhodolith debris.



SITE 816 HOLE C CORE 8R CORED INTERVAL 192.4-202.0 mbsf

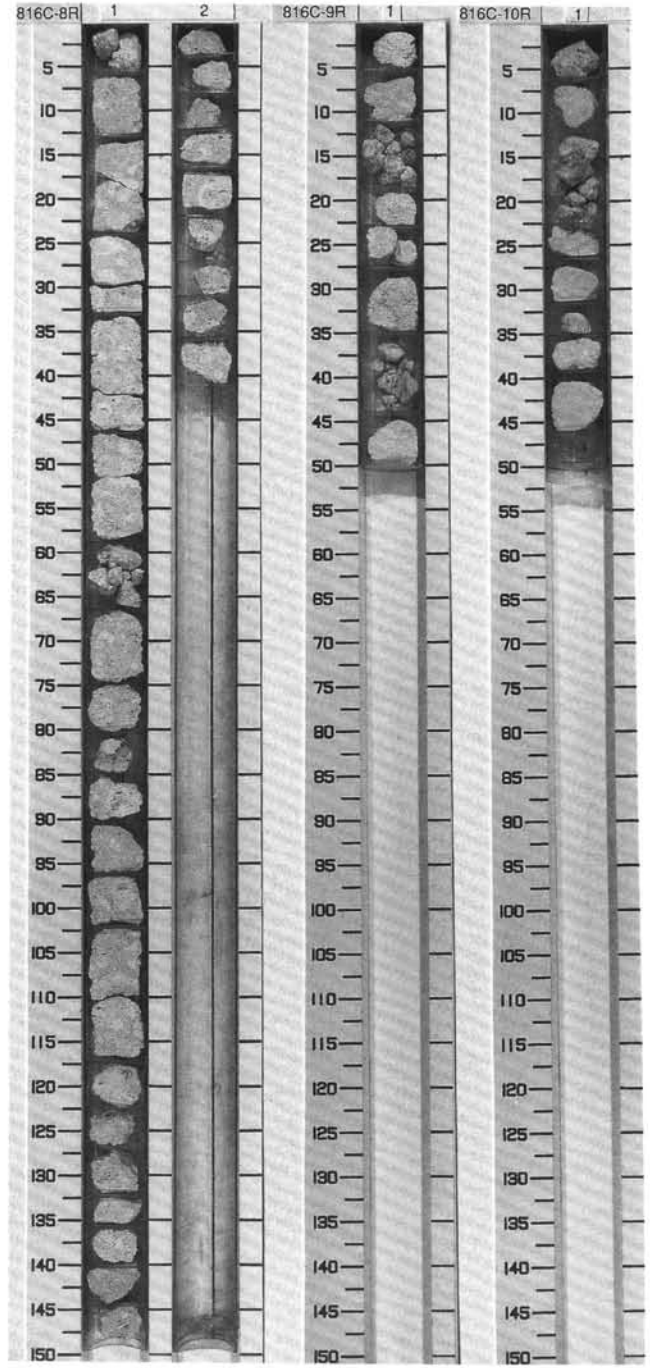
TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured		● 107.1%	1	0.5 1.0				PAL	RHODOLITH, CORAL and RED ALGAL BOUNDSTONE. Coral is *Porites* and *Acropora*. Geopetal textures in pieces 5,6,11 and 14. Rhodolith diameter up to 5 cm. Similar to core 7R above.

SITE 816 HOLE C CORE 9R CORED INTERVAL 202.0-211.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured		● 106.7%	1	CC 0.3				# PAL	White to gray CORALGAL BOUNDSTONE with well developed laminar fabric of coral and algae. Some rhodoliths.

SITE 816 HOLE C CORE 10R CORED INTERVAL 211.3-221.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured		● 107.8%	1					PAL	RHODOLITH, CORAL AND CORALGAL BOUNDSTONES with moldic porosity. Appears dolomitic. Laminar fabric in places.



SITE 816 HOLE C CORE 11R CORED INTERVAL 221.0-230.7 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured		● 107.3%	1	0.5				PAL	CORAL RHODOLITH and CORALGAL BOUNDSTONES with MOLDIC POROSITY. Probably DOLOMITIZED. *Halimeda* present in section 2. Corals include well-preserved *Millepora* and *Acropora*. Densely cemented with spotty high porosity.
									1.0					
								2						
								3						

SITE 816 HOLE C CORE 12R CORED INTERVAL 230.7-240.3 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured		107.0% ●	1	0.5				PAL	CORALGAL BOUNDSTONE. Similar to core 11R.

SITE 816 HOLE C CORE 13R CORED INTERVAL 240.3-250.0 mbsf

TIME-ROCK UNIT	BIOSTRAT. ZONE/ FOSSIL CHARACTER: FORAMINIFERS	NANNOFOSSILS	RADIOLARIANS	DIATOMS	PALEOMAGNETICS	PHYS. PROPERTIES	CHEMISTRY	SECTION	METERS	GRAPHIC LITHOLOGY	DRILLING DISTURB.	SED. STRUCTURES	SAMPLES	LITHOLOGIC DESCRIPTION
MIDDLE MIOCENE					not measured		107.0% ●	1	0.5				PAL	Slightly dolomitized CORALGAL BOUNDSTONE with minor bioclastic RUDSTONE. More porous at base of section.