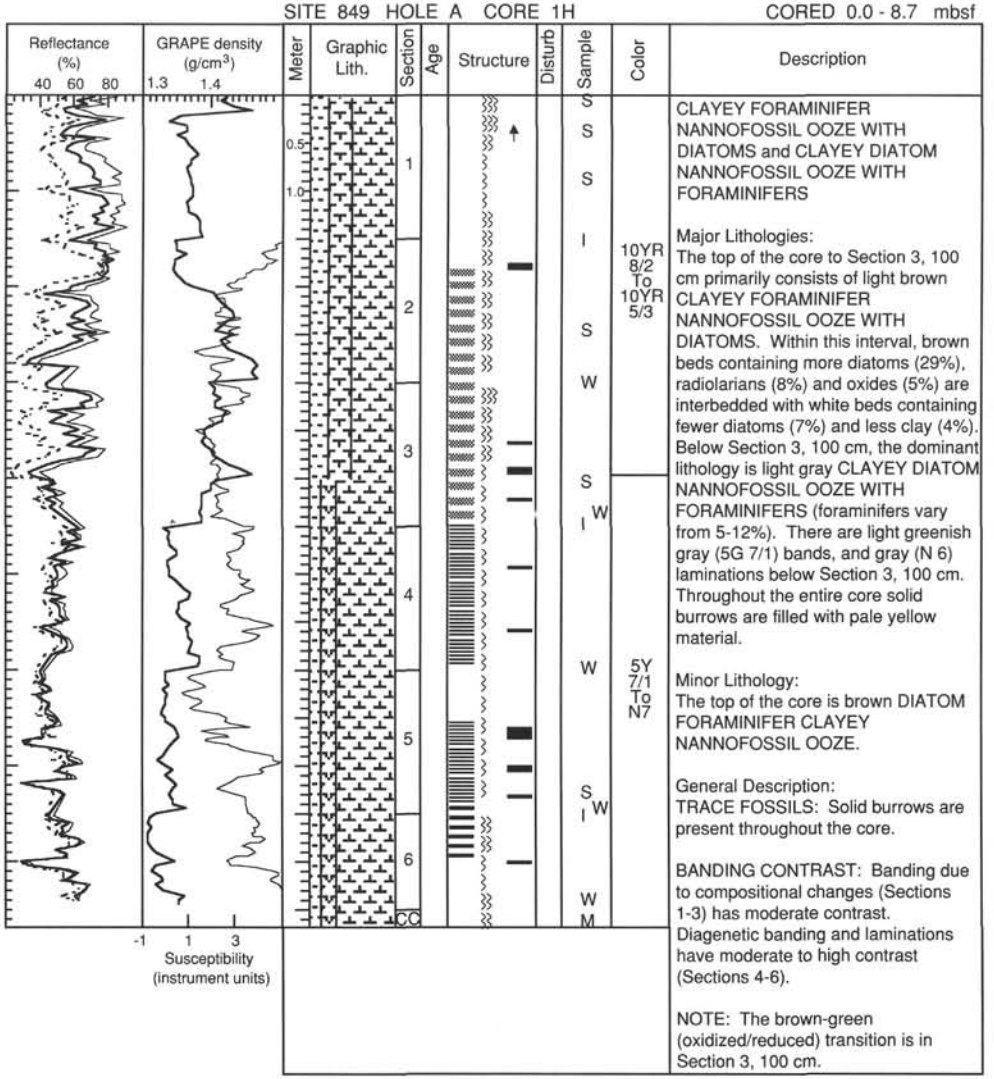
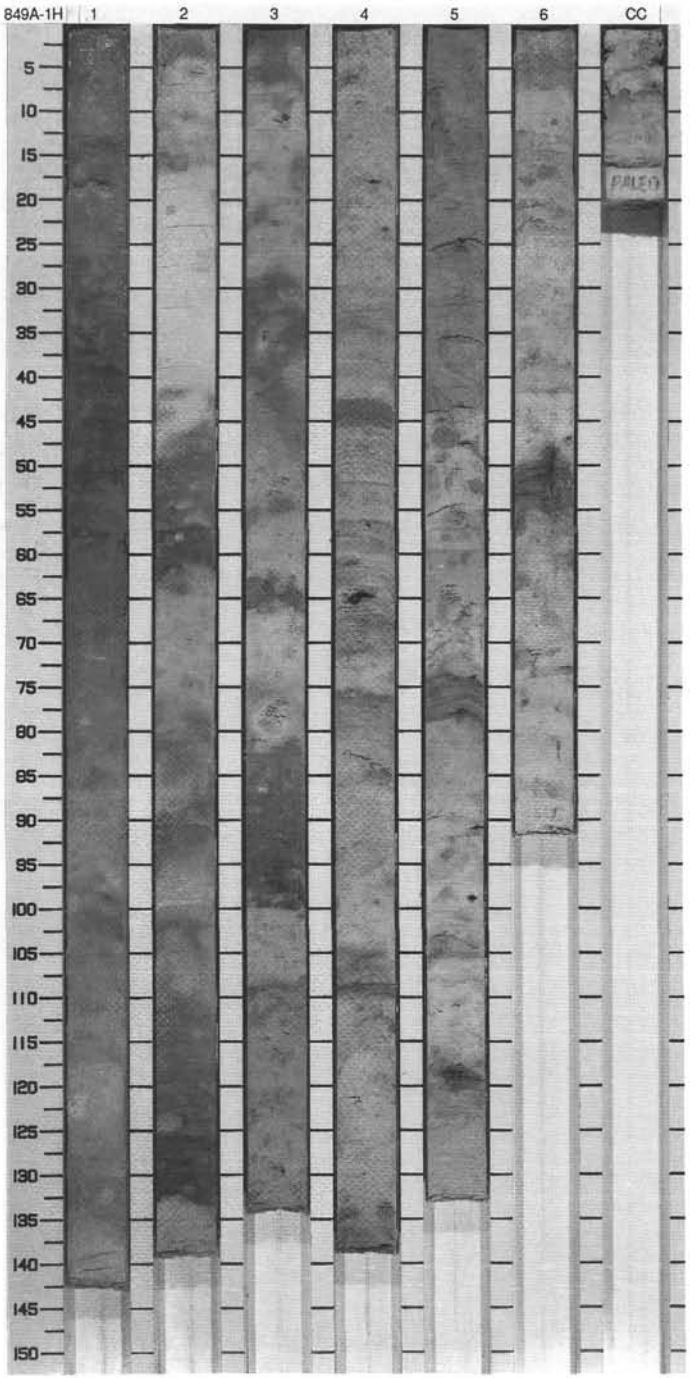
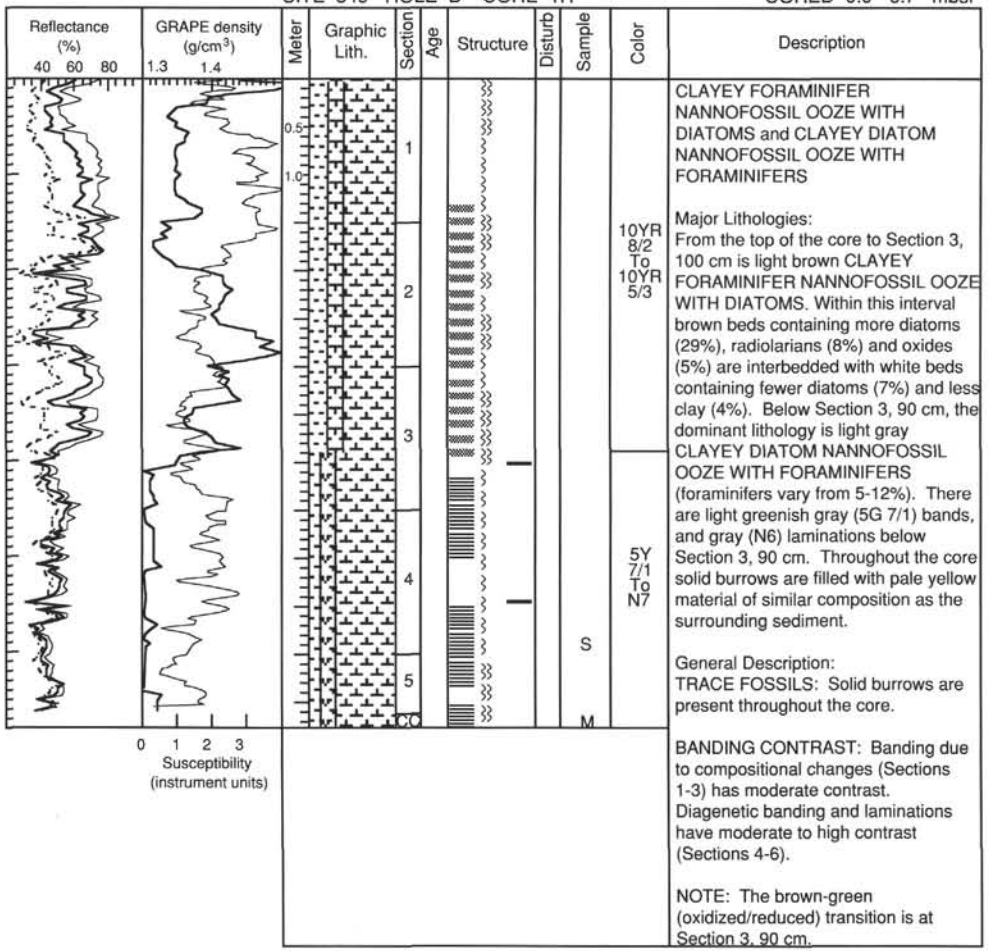
SITE 849 HOLE A CORE 1H CORED 0.0 - 8.7 mbsf





SITE 849 HOLE B CORE 1H CORED 0.0 - 6.7 mbsf



Description

CLAYEY FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS and CLAYEY DIATOM NANNOFOSSIL OOZE WITH FORAMINIFERS

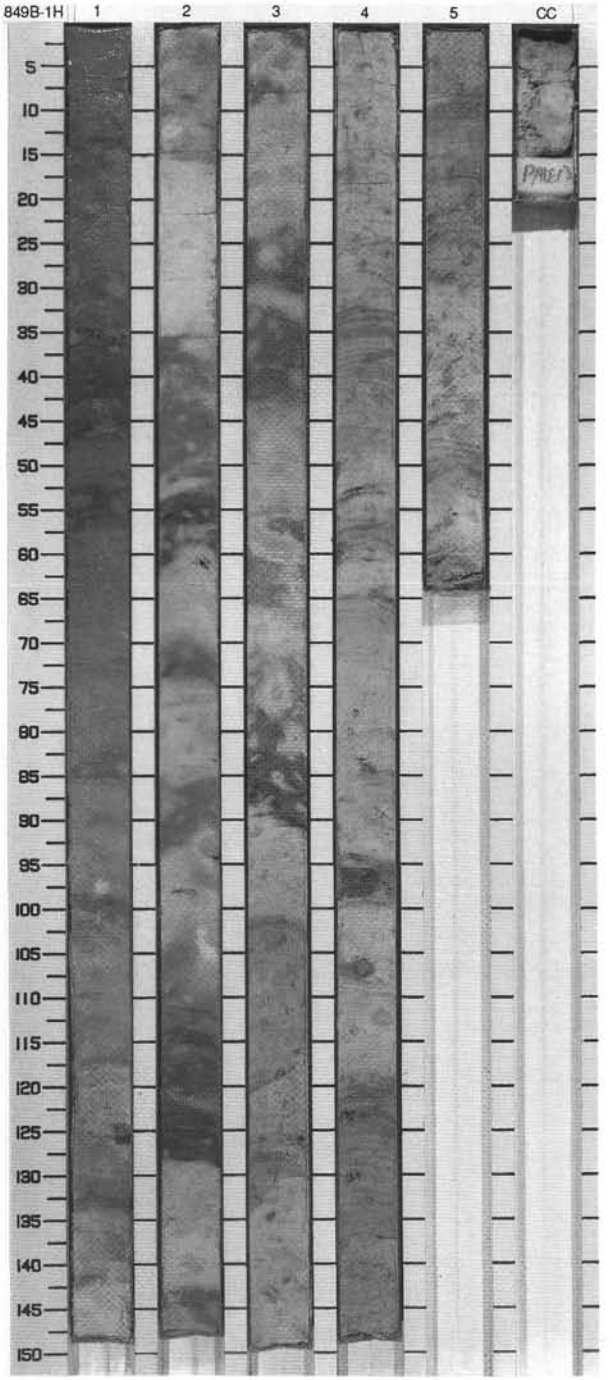
Major Lithologies:
From the top of the core to Section 3, 100 cm is light brown CLAYEY FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS. Within this interval brown beds containing more diatoms (29%), radiolarians (8%) and oxides (5%) are interbedded with white beds containing fewer diatoms (7%) and less clay (4%). Below Section 3, 90 cm, the dominant lithology is light gray CLAYEY DIATOM NANNOFOSSIL OOZE WITH FORAMINIFERS (foraminifers vary from 5-12%). There are light greenish gray (5G 7/1) bands, and gray (N6) laminations below Section 3, 90 cm. Throughout the core solid burrows are filled with pale yellow material of similar composition as the surrounding sediment.

Color: 10YR 8/2 To 10YR 5/3; 5Y 7/1 To N7

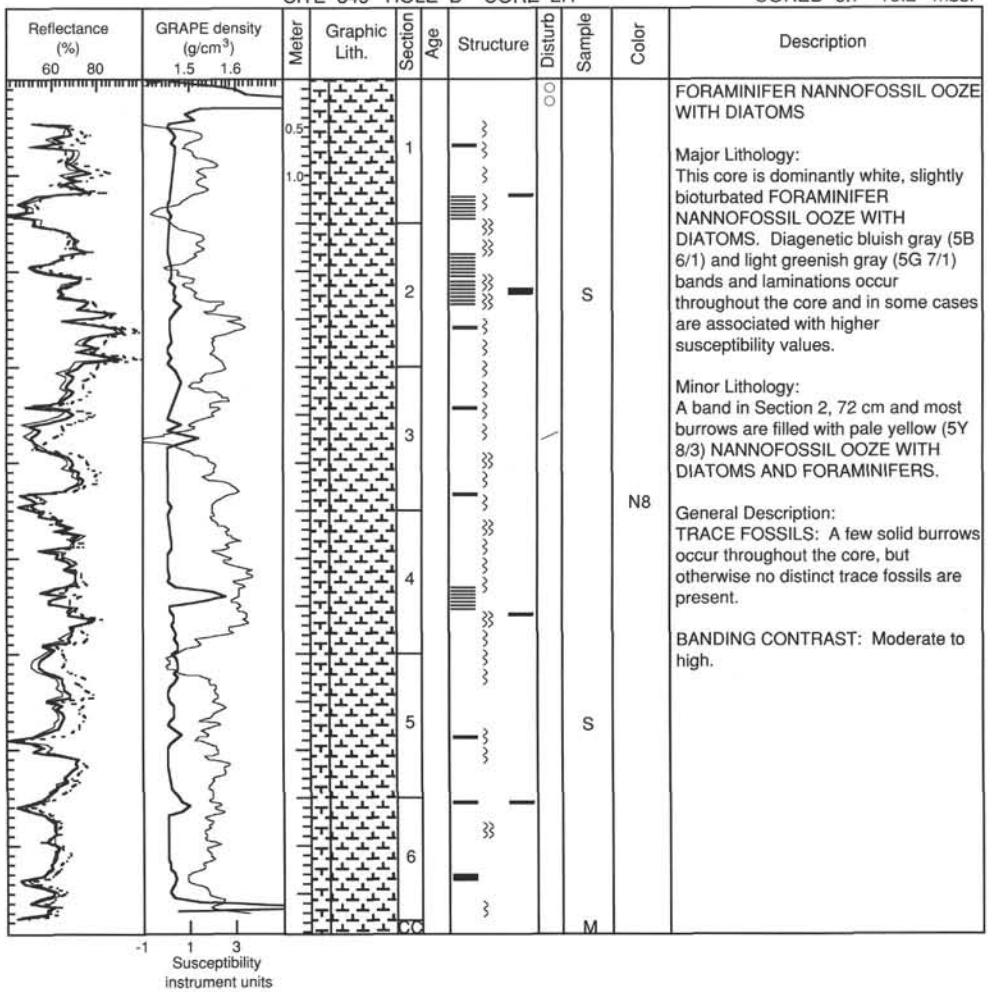
General Description:
TRACE FOSSILS: Solid burrows are present throughout the core.

BANDING CONTRAST: Banding due to compositional changes (Sections 1-3) has moderate contrast. Diagenetic banding and laminations have moderate to high contrast (Sections 4-6).

NOTE: The brown-green (oxidized/reduced) transition is at Section 3, 90 cm.



SITE 849 HOLE B CORE 2H CORED 6.7 - 16.2 mbsf



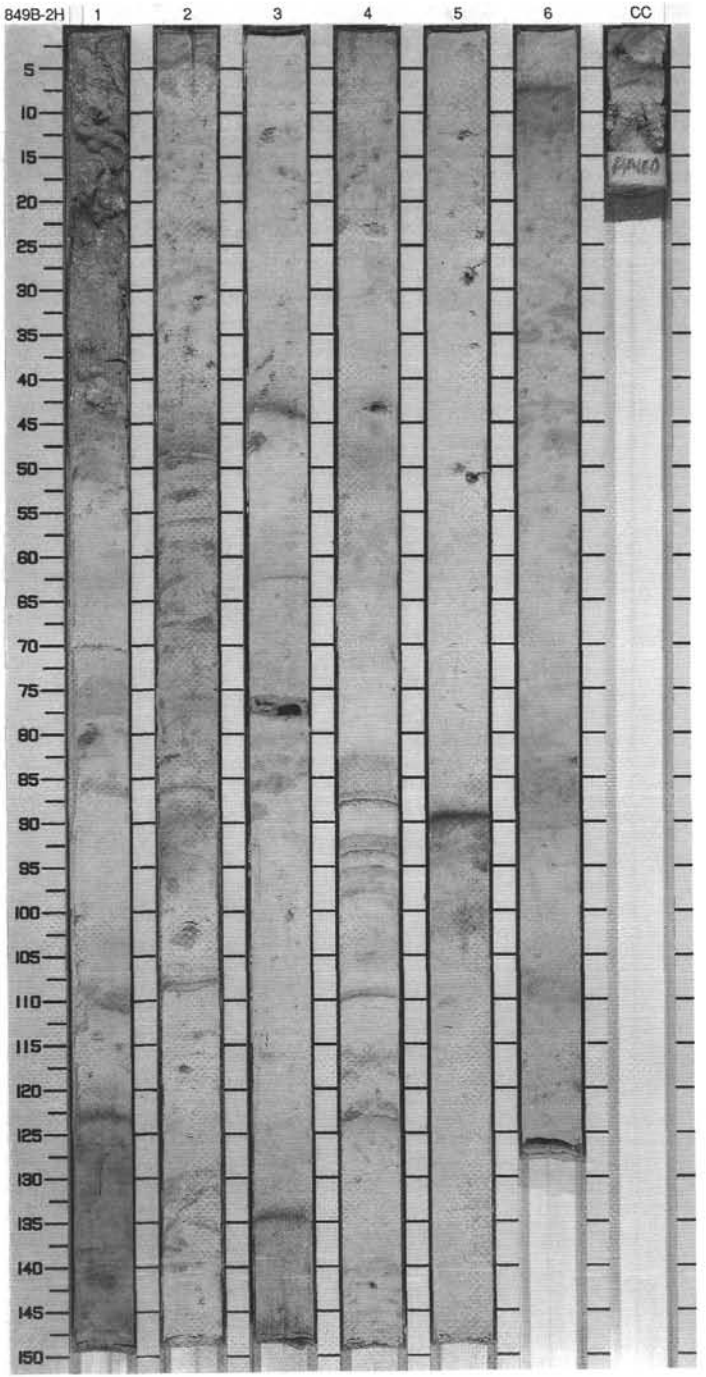
FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS

Major Lithology:
This core is dominantly white, slightly bioturbated FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS. Diagenetic bluish gray (5B 6/1) and light greenish gray (5G 7/1) bands and laminations occur throughout the core and in some cases are associated with higher susceptibility values.

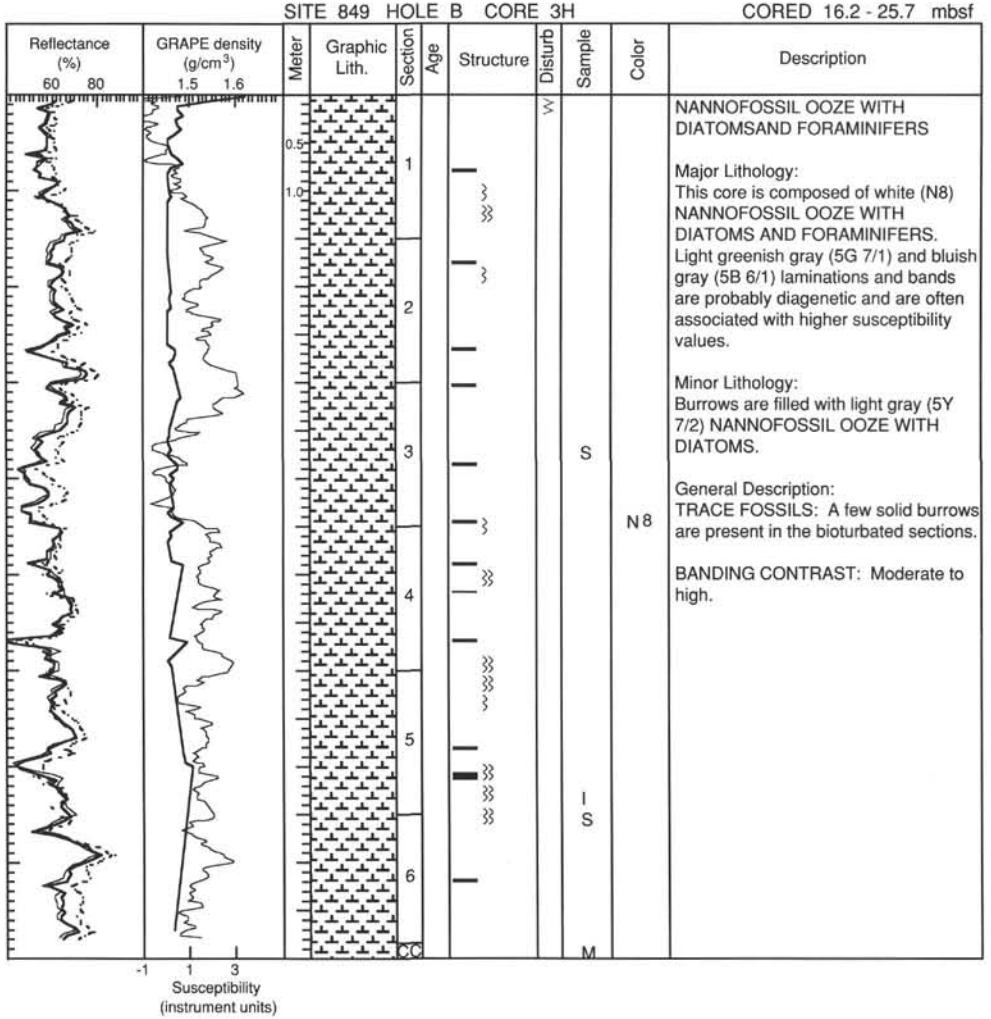
Minor Lithology:
A band in Section 2, 72 cm and most burrows are filled with pale yellow (5Y 8/3) NANNOFOSSIL OOZE WITH DIATOMS AND FORAMINIFERS.

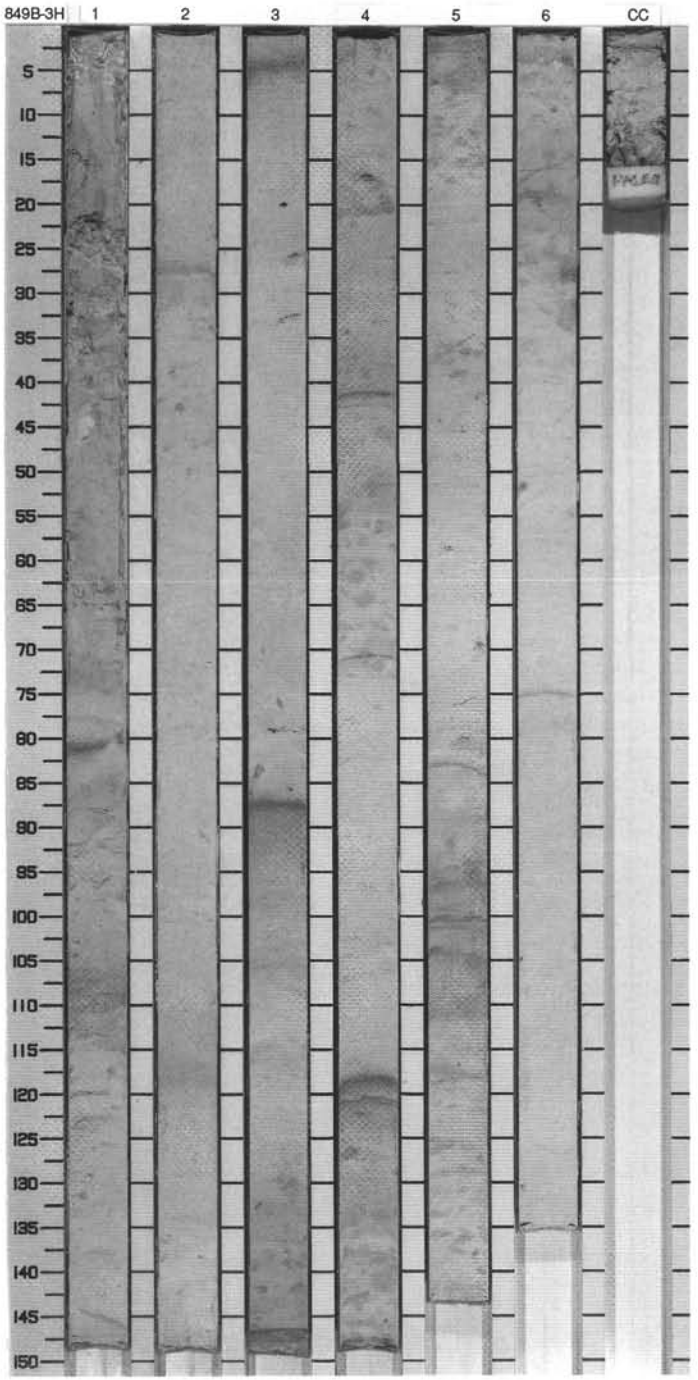
General Description:
TRACE FOSSILS: A few solid burrows occur throughout the core, but otherwise no distinct trace fossils are present.

BANDING CONTRAST: Moderate to high.



SITE 849 HOLE B CORE 3H CORED 16.2 - 25.7 mbsf

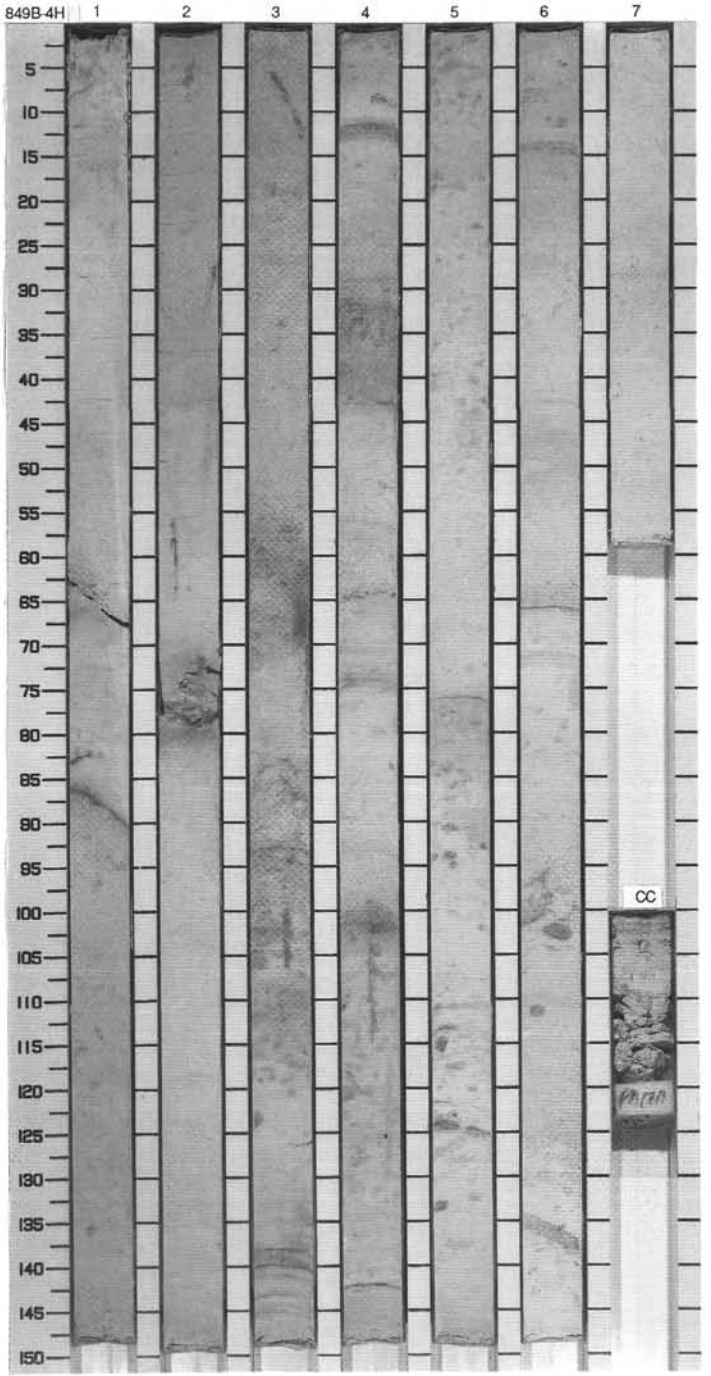




SITE 849 HOLE B CORE 4H CORED 25.7 - 35.2 mbsf

Reflectance (%) 50 60 70	GRAPE density (g/cm³) 1.4 1.5	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5		1						FORAMINIFER NANNOFOSSIL OOZEWITH DIATOMS Major Lithology: This core is composed of white (N8) FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS. Individual bluish gray (5B 6/1) and light greenish gray (5G 7/1) bands and laminations are probably of diagenetic origin. These bands are often associated with higher magnetic susceptibility values. Sections 1 and 3—6 are slightly bioturbated. Minor Lithology: Filled light gray (5Y 7/2) burrows consist of DIATOM NANNOFOSSIL OOZE WITH FORAMINIFERS. General Description: TRACE FOSSILS: Solid burrows are present in the bioturbated sections. BANDING CONTRAST: Moderate.
		1.0		2				S		
				3						
				4				S	N8	
				5						
				6						
				7						
				CC				M		

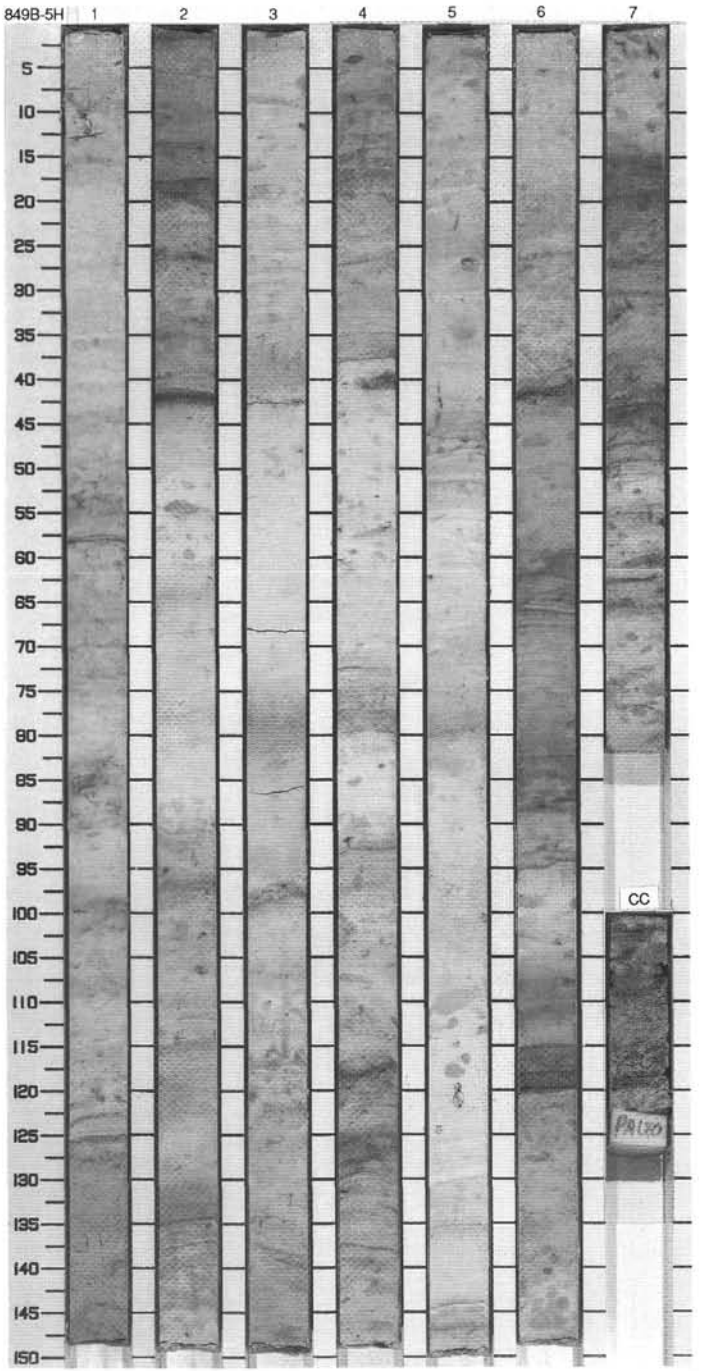
-1 0 1 2
Susceptibility (instrument units)



SITE 849 HOLE B CORE 5H CORED 35.2 - 44.7 mbsf

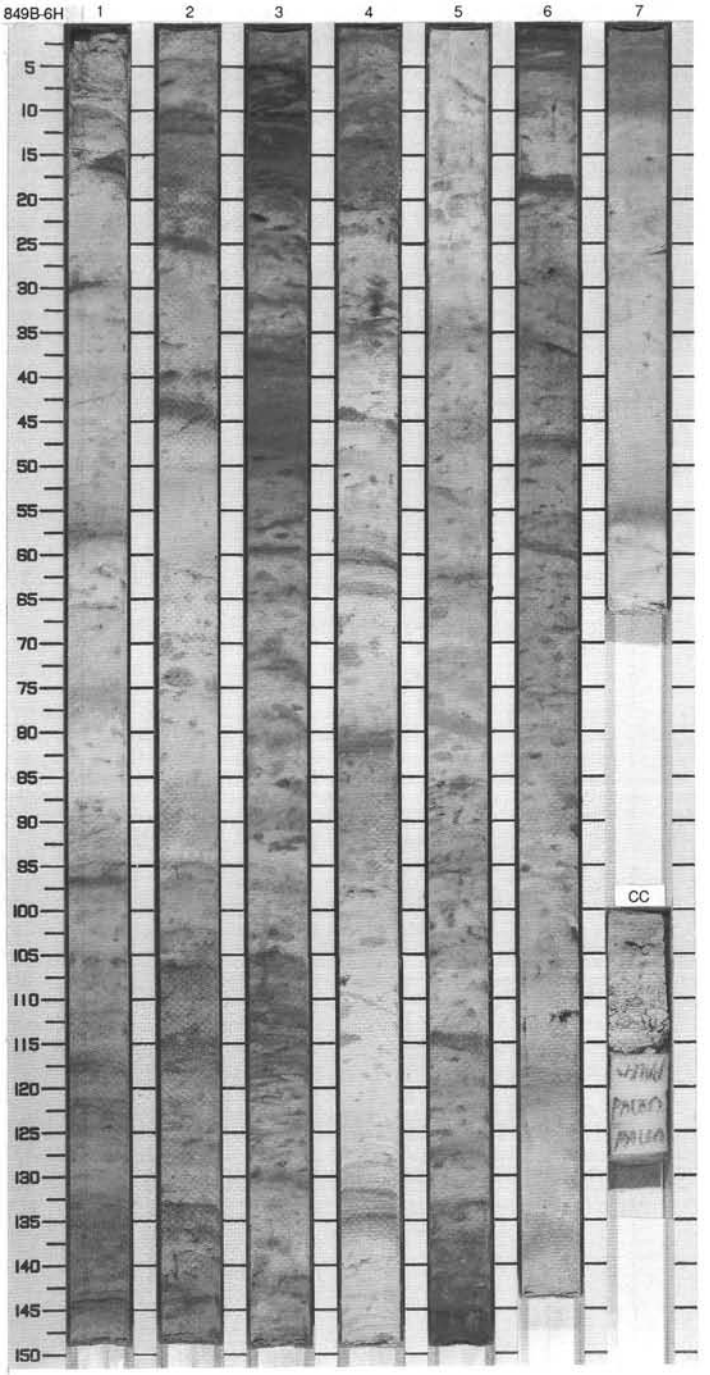
Reflectance (%) 40 50 60	GRAPE density (g/cm³) 1.4 1.5	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				S S M	N8 To N7 N7	FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS and DIATOM FORAMINIFER NANNOFOSSIL OOZE Major Lithologies: A light gray (N 7) FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS is interbedded with a light gray (5Y 7/1) DIATOM FORAMINIFER NANNOFOSSIL OOZE. The colors vary gradually to bluish gray (5B 6/1), light greenish gray (5G 7/1) and very pale purple (5P 8/2) throughout the core. Distinct laminae, probably associated with diagenesis and often crosscutting burrow structures, are common. General Description: TRACE FOSSILS: Solid burrows are present in the bioturbated sections. BANDING CONTRAST: Moderate to high contrast is seen on both the scale of laminations and the thick color bands.

0 1 2
Susceptibility (instrument units)

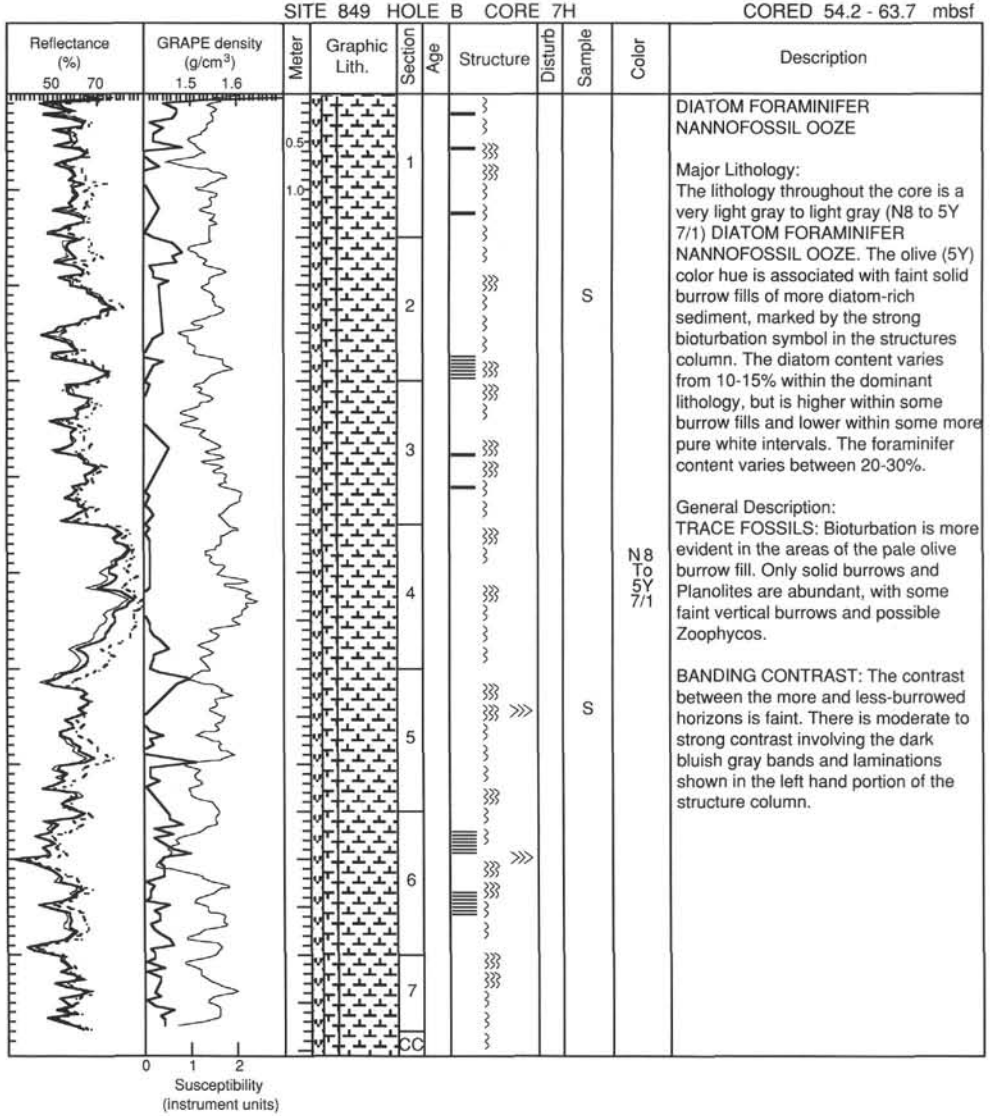


SITE 849 HOLE B CORE 6H CORED 44.7 - 54.2 mbsf

Reflectance (%) 40 60	GRAPE density (g/cm³) 1.3 1.4 1.5	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5		1				S	N8	FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS and DIATOM FORAMINIFER NANNOFOSSIL OOZE
		1.0						S		Major Lithologies: In Section 1, 0-100 cm, and from Section 6, 100 cm, to CC, the dominant lithology is a very light gray (N8) FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS. Between Section 1, 100 cm, and Section 6, 100 cm, the dominant lithology is a very light gray (N8) to light gray (5Y 7/2) DIATOM FORAMINIFER NANNOFOSSIL OOZE with variable diatom content associated with zones of light gray (5Y 7/2) burrow fills.
				2				S		
				3				S		
				4		P		S	N8 To 5Y 7/2	Minor Lithologies: Between Section 1, 132 cm, and Section 6, 5 cm, there are several interbeds, typically about 15 cm thick, of light gray to light olive gray (5Y 7/2 to 5Y 6/2) FORAMINIFER DIATOM NANNOFOSSIL OOZE and two interbeds of olive gray to olive (5Y 5/2 to 5Y 4/3) FORAMINIFER DIATOM OOZE WITH NANNOFOSSILS.
				5						General Description: TRACE FOSSILS: Burrowing is moderate in the more diatom rich intervals and only slightly discernible in the very light gray intervals. Solid burrows and Planolites are abundant and a few horizontal burrows may be Zoophycos.
				6		Ⓟ Ⓟ Ⓟ		S		
				7				I	N8	BANDING CONTRAST: Moderate contrast associated with the variation in diatom content.
				CC				M		



SITE 849 HOLE B CORE 7H CORED 54.2 - 63.7 mbsf

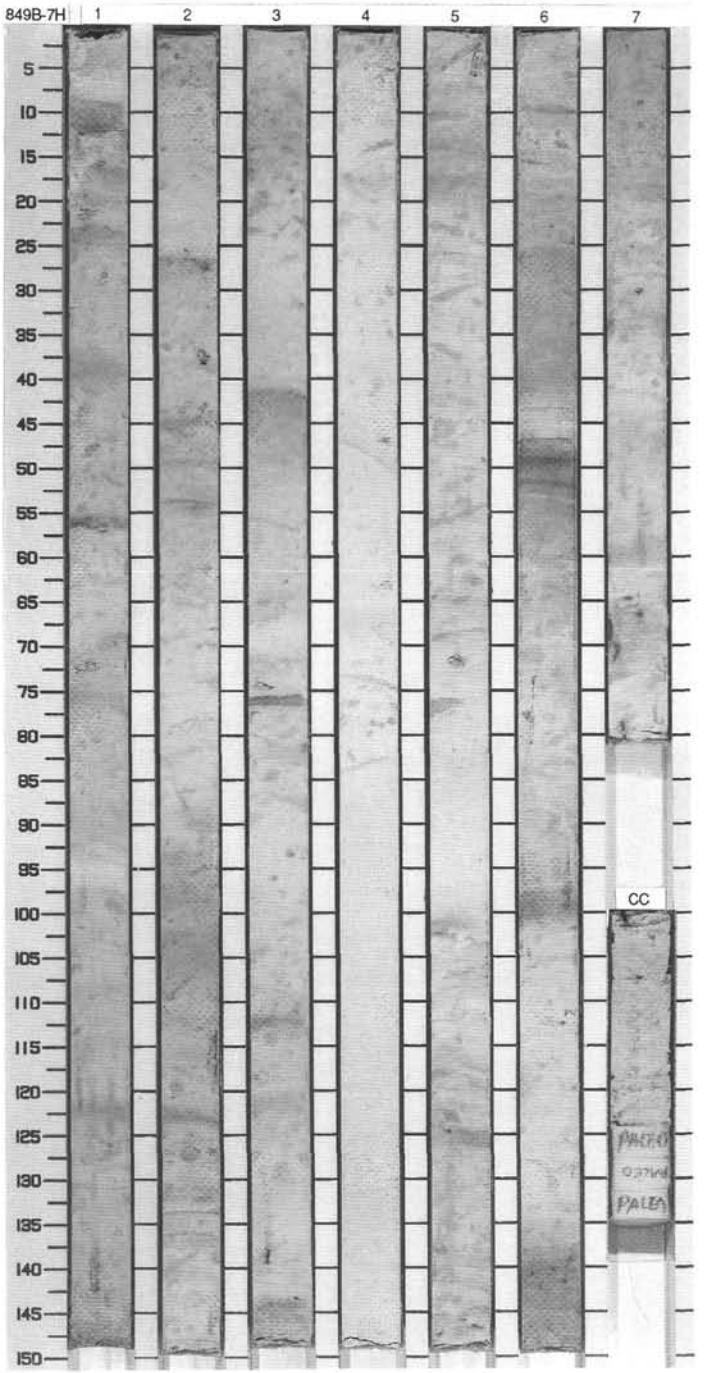


DIATOM FORAMINIFER NANNOFOSSIL OOZE

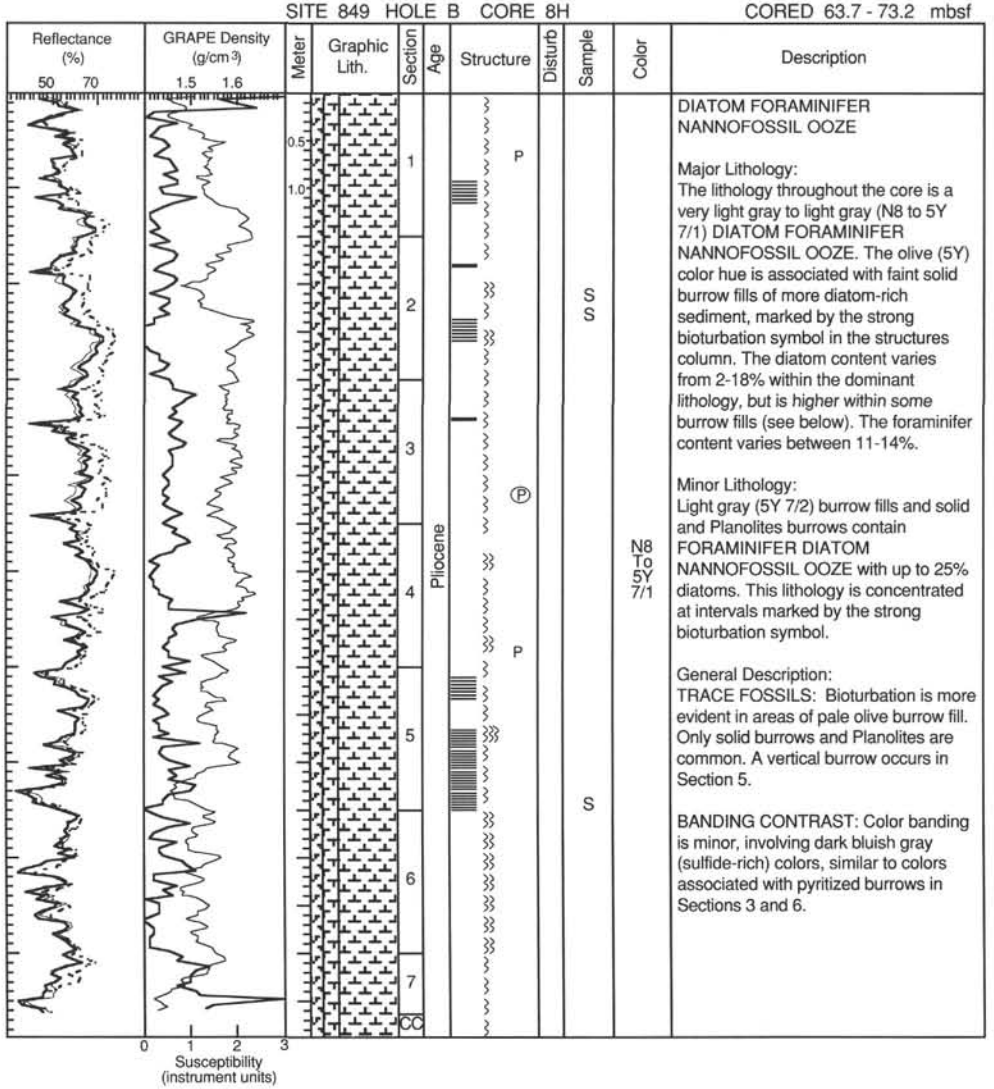
Major Lithology:
The lithology throughout the core is a very light gray to light gray (N8 to 5Y 7/1) DIATOM FORAMINIFER NANNOFOSSIL OOZE. The olive (5Y) color hue is associated with faint solid burrow fills of more diatom-rich sediment, marked by the strong bioturbation symbol in the structures column. The diatom content varies from 10-15% within the dominant lithology, but is higher within some burrow fills and lower within some more pure white intervals. The foraminifer content varies between 20-30%.

General Description:
TRACE FOSSILS: Bioturbation is more evident in the areas of the pale olive burrow fill. Only solid burrows and Planolites are abundant, with some faint vertical burrows and possible Zoophycos.

BANDING CONTRAST: The contrast between the more and less-burrowed horizons is faint. There is moderate to strong contrast involving the dark bluish gray bands and laminations shown in the left hand portion of the structure column.



SITE 849 HOLE B CORE 8H CORED 63.7 - 73.2 mbsf



Description

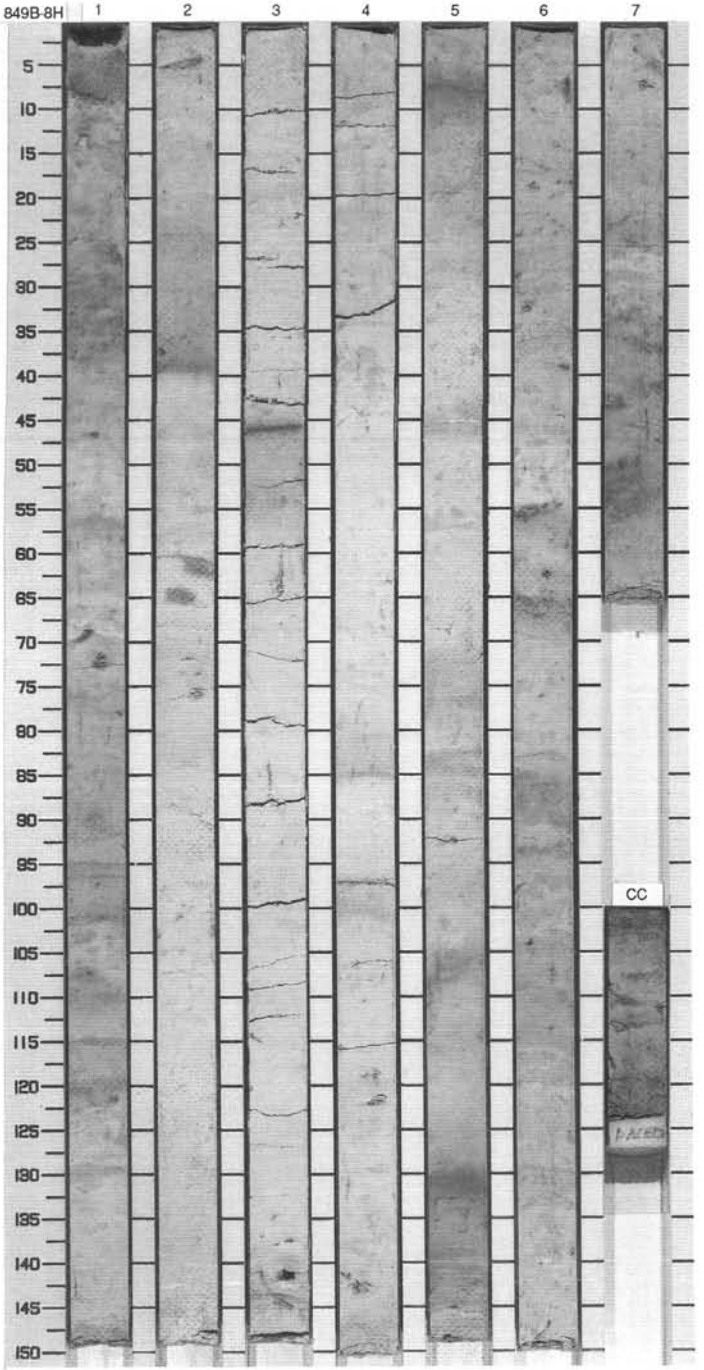
DIATOM FORAMINIFER NANNOFOSSIL OOZE

Major Lithology:
The lithology throughout the core is a very light gray to light gray (N8 to 5Y 7/1) DIATOM FORAMINIFER NANNOFOSSIL OOZE. The olive (5Y) color hue is associated with faint solid burrow fills of more diatom-rich sediment, marked by the strong bioturbation symbol in the structures column. The diatom content varies from 2-18% within the dominant lithology, but is higher within some burrow fills (see below). The foraminifer content varies between 11-14%.

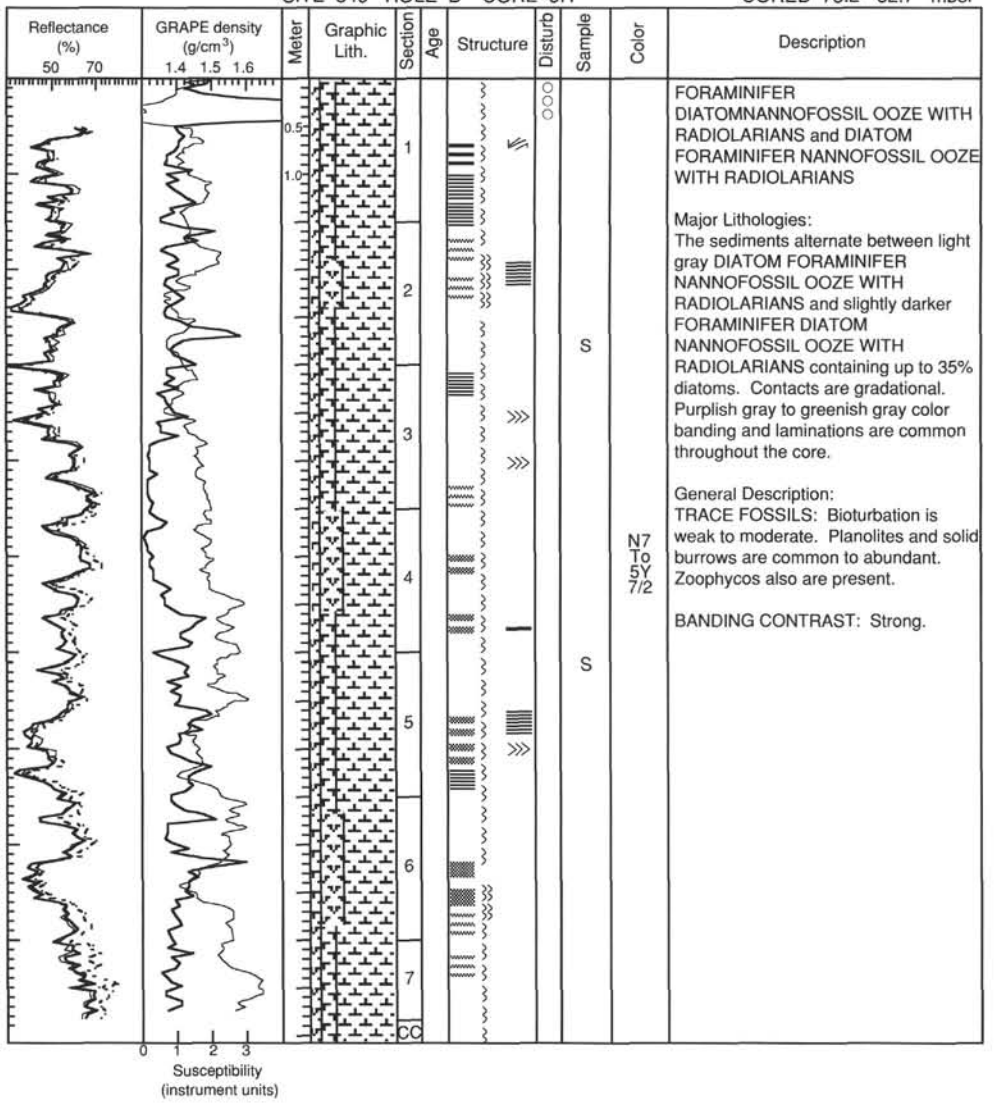
Minor Lithology:
Light gray (5Y 7/2) burrow fills and solid and Planolites burrows contain FORAMINIFER DIATOM NANNOFOSSIL OOZE with up to 25% diatoms. This lithology is concentrated at intervals marked by the strong bioturbation symbol.

General Description:
TRACE FOSSILS: Bioturbation is more evident in areas of pale olive burrow fill. Only solid burrows and Planolites are common. A vertical burrow occurs in Section 5.

BANDING CONTRAST: Color banding is minor, involving dark bluish gray (sulfide-rich) colors, similar to colors associated with pyritized burrows in Sections 3 and 6.



SITE 849 HOLE B CORE 9H CORED 73.2 - 82.7 mbsf

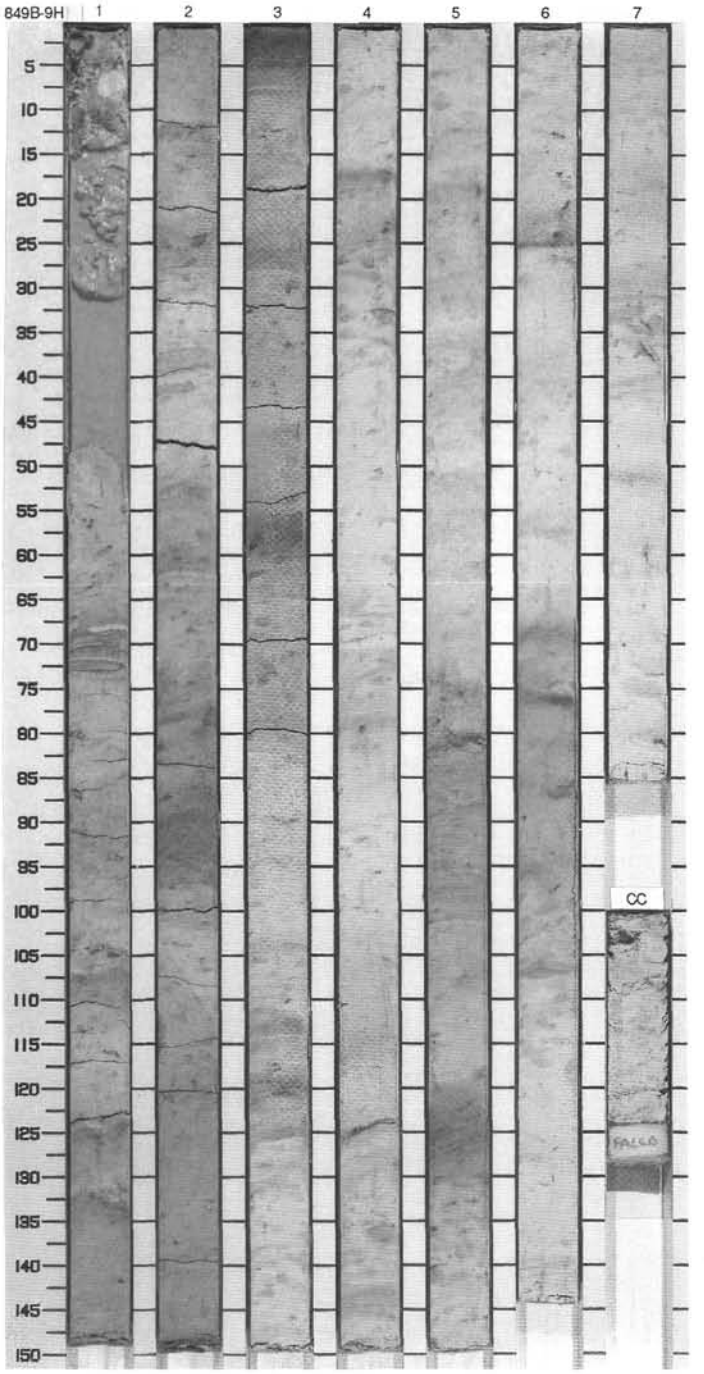


FORAMINIFER DIATOMNANNOFOSSIL OOZE WITH RADIOLARIANS and DIATOM FORAMINIFER NANNOFOSSIL OOZE WITH RADIOLARIANS

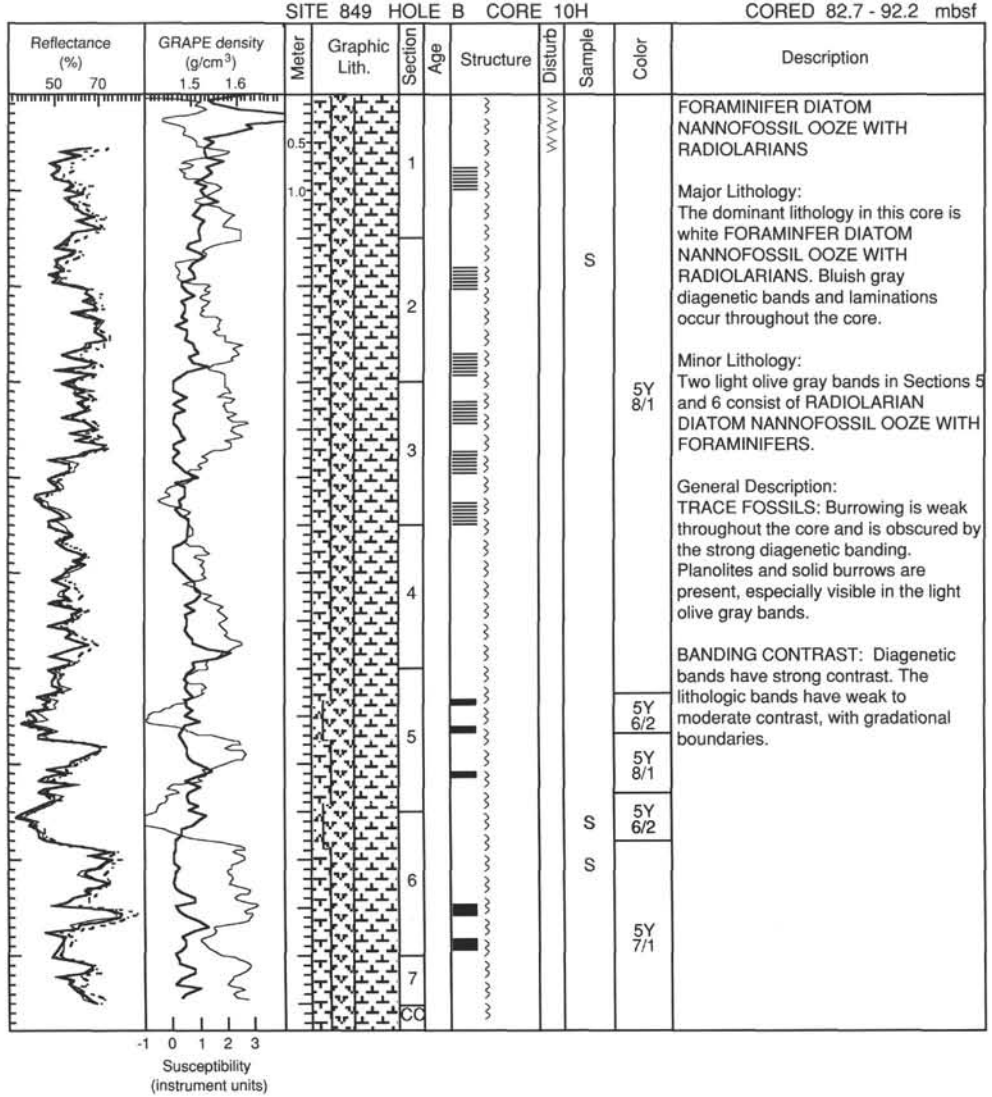
Major Lithologies:
The sediments alternate between light gray DIATOM FORAMINIFER NANNOFOSSIL OOZE WITH RADIOLARIANS and slightly darker FORAMINIFER DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS containing up to 35% diatoms. Contacts are gradational. Purplish gray to greenish gray color banding and laminations are common throughout the core.

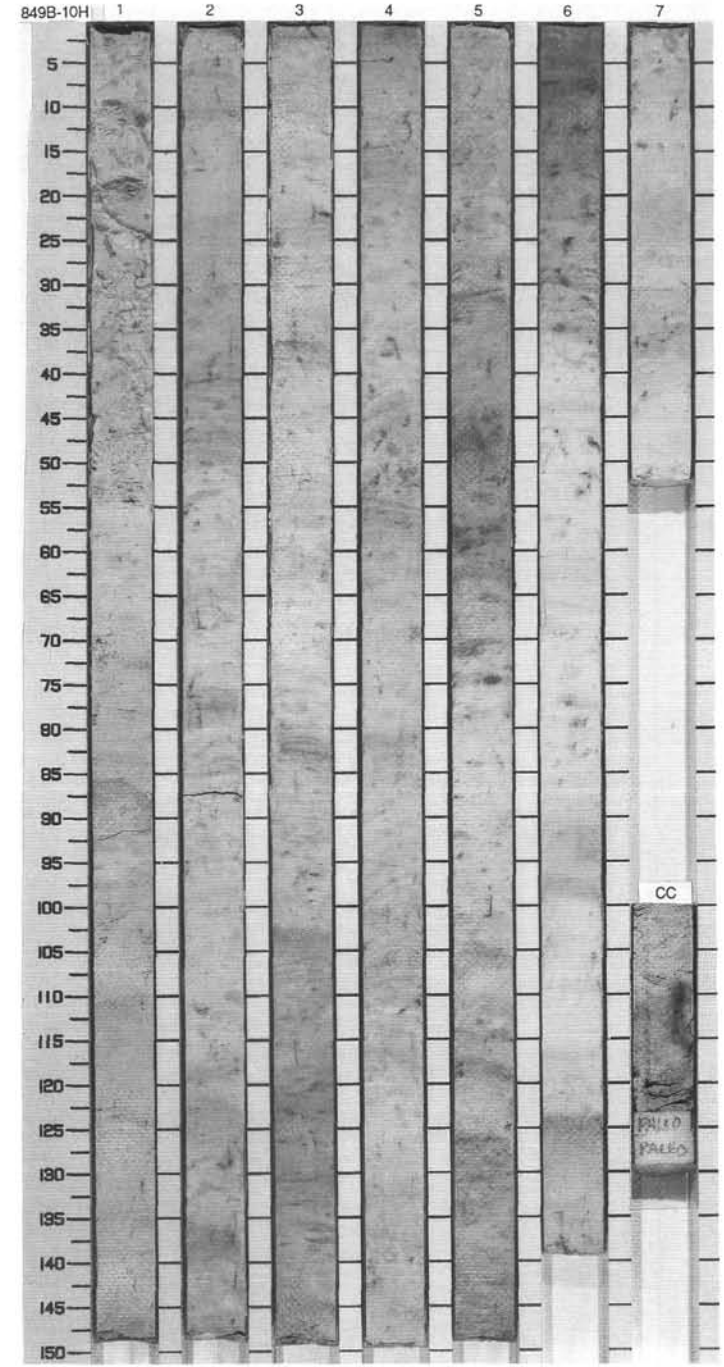
General Description:
TRACE FOSSILS: Bioturbation is weak to moderate. Planolites and solid burrows are common to abundant. Zoophycos also are present.

BANDING CONTRAST: Strong.

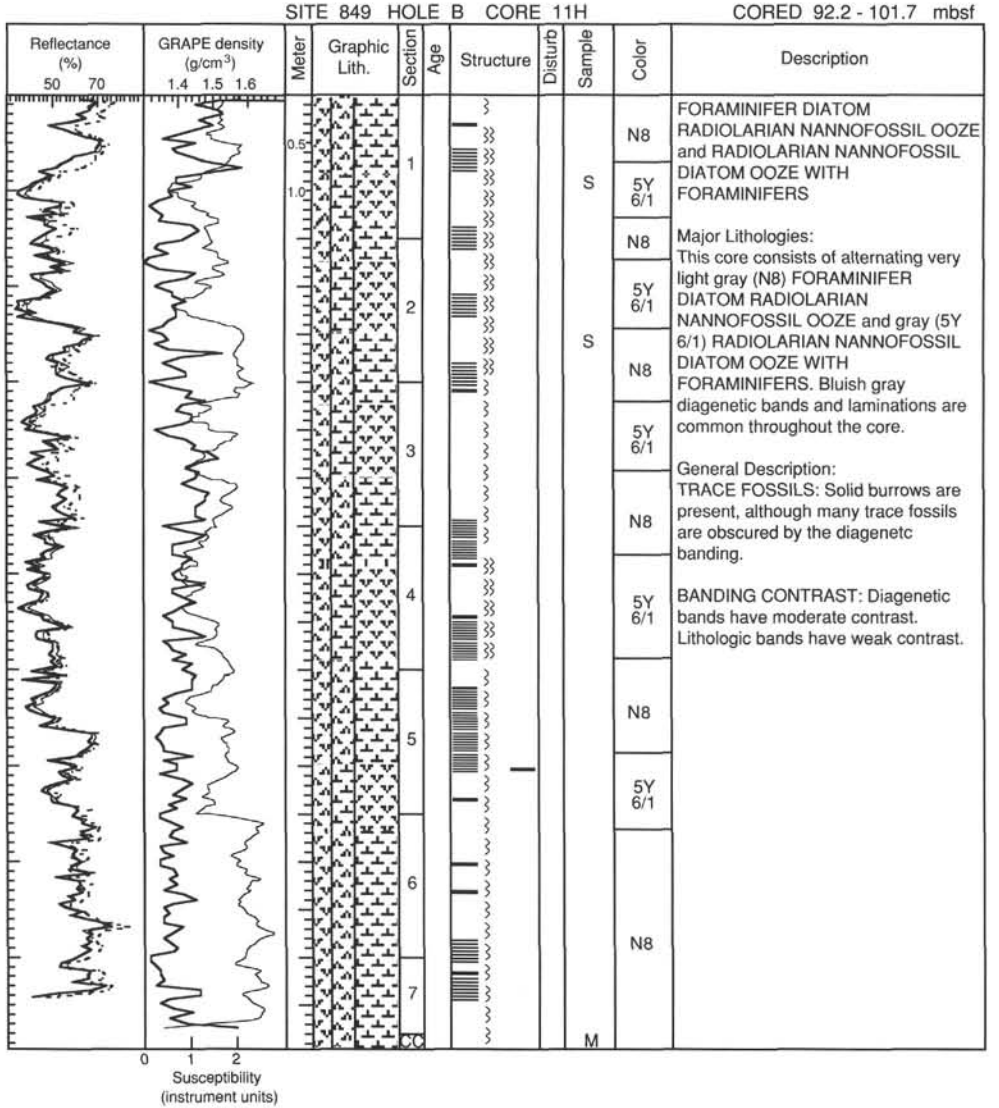


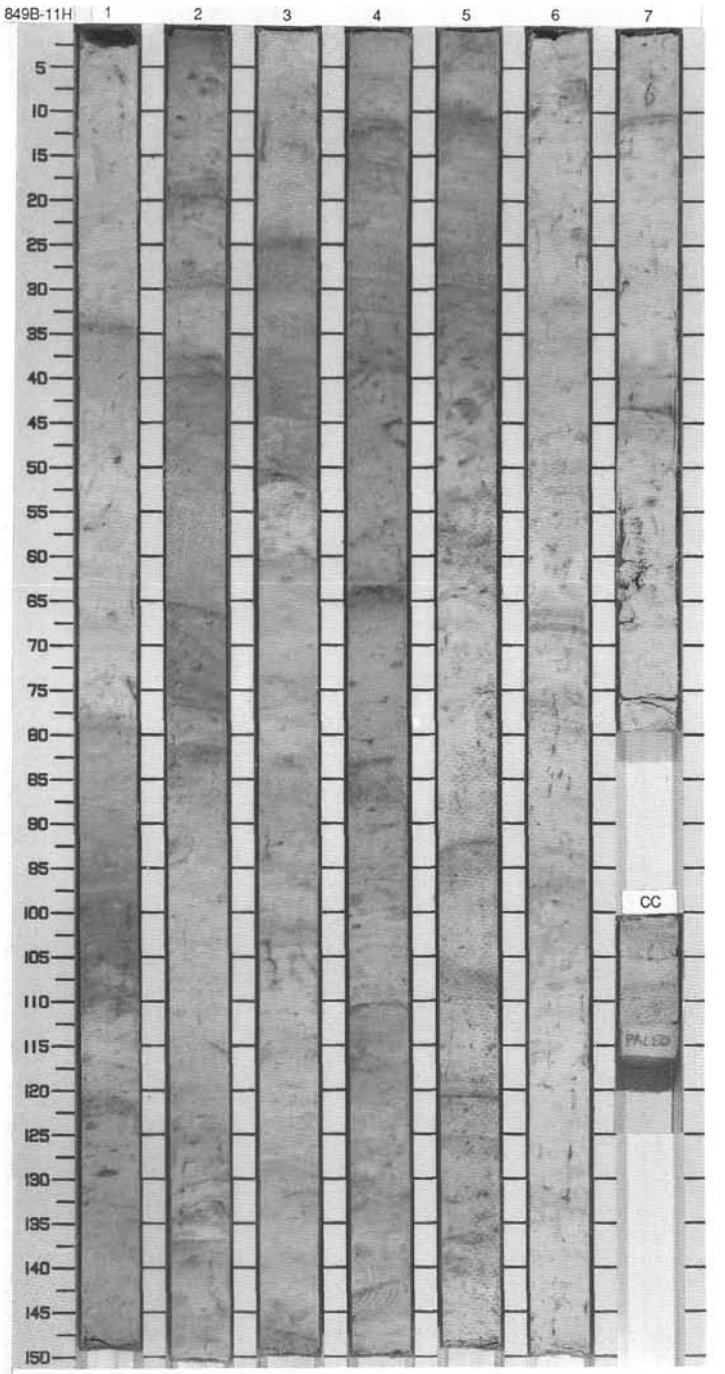
SITE 849 HOLE B CORE 10H CORED 82.7 - 92.2 mbsf



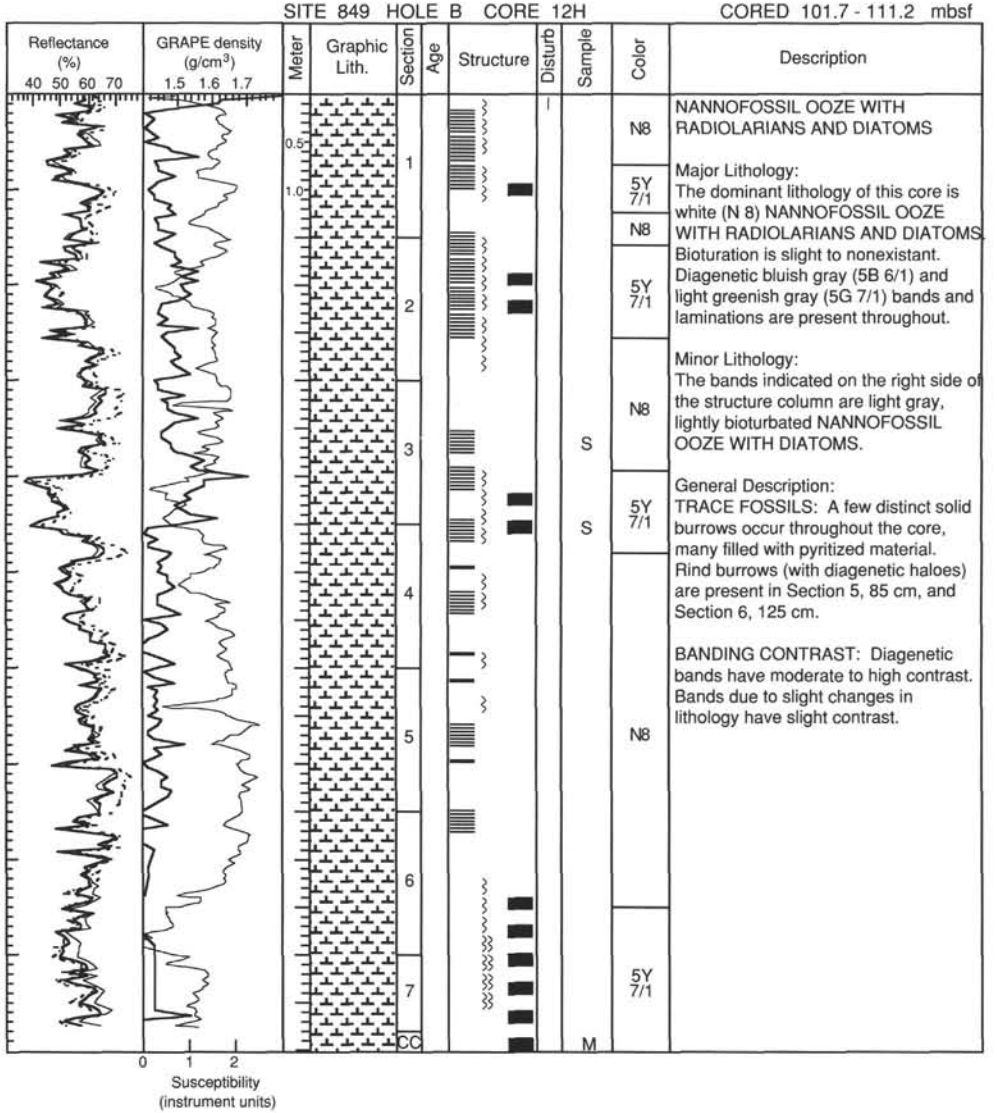


SITE 849 HOLE B CORE 11H CORED 92.2 - 101.7 mbsf





SITE 849 HOLE B CORE 12H CORED 101.7 - 111.2 mbsf



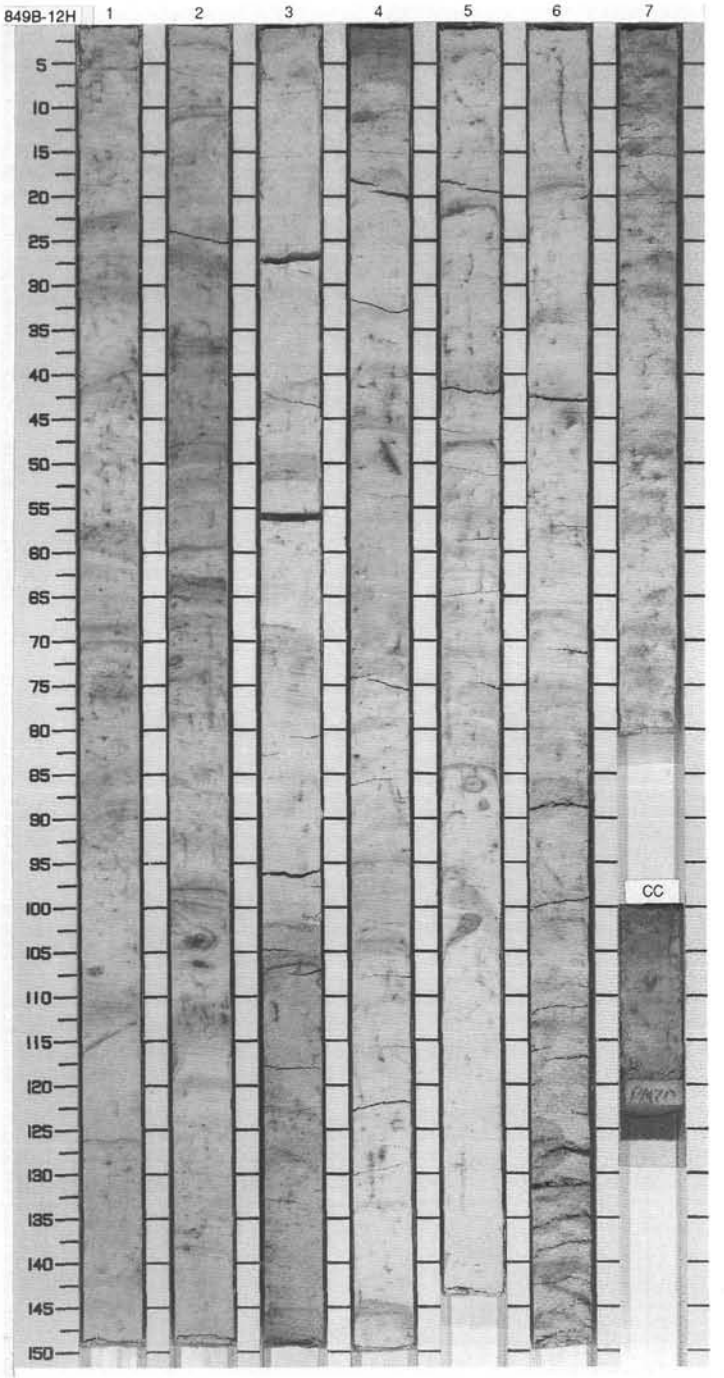
NANNOFOSSIL OOZE WITH RADIOLARIANS AND DIATOMS

Major Lithology:
The dominant lithology of this core is white (N 8) NANNOFOSSIL OOZE WITH RADIOLARIANS AND DIATOMS. Bioturation is slight to nonexistant. Diagenetic bluish gray (5B 6/1) and light greenish gray (5G 7/1) bands and laminations are present throughout.

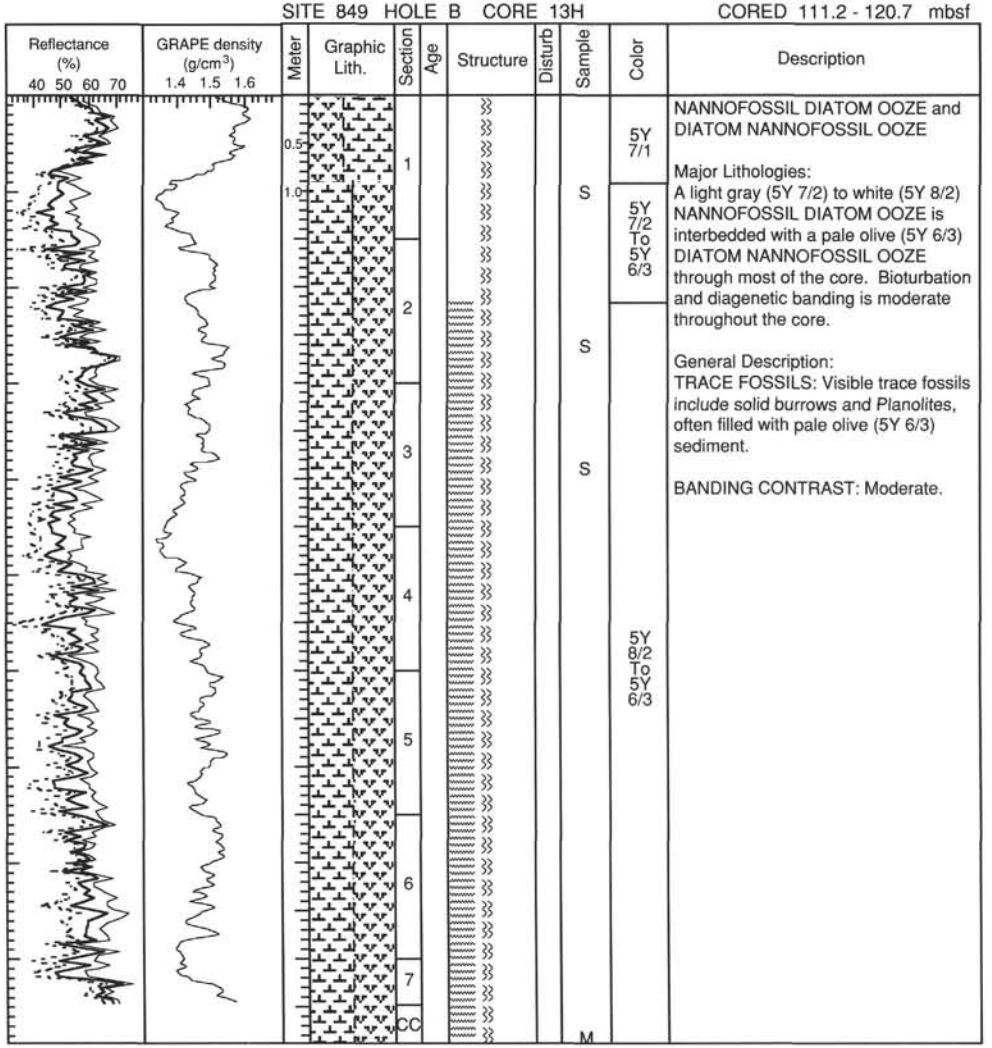
Minor Lithology:
The bands indicated on the right side of the structure column are light gray, lightly bioturbated NANNOFOSSIL OOZE WITH DIATOMS.

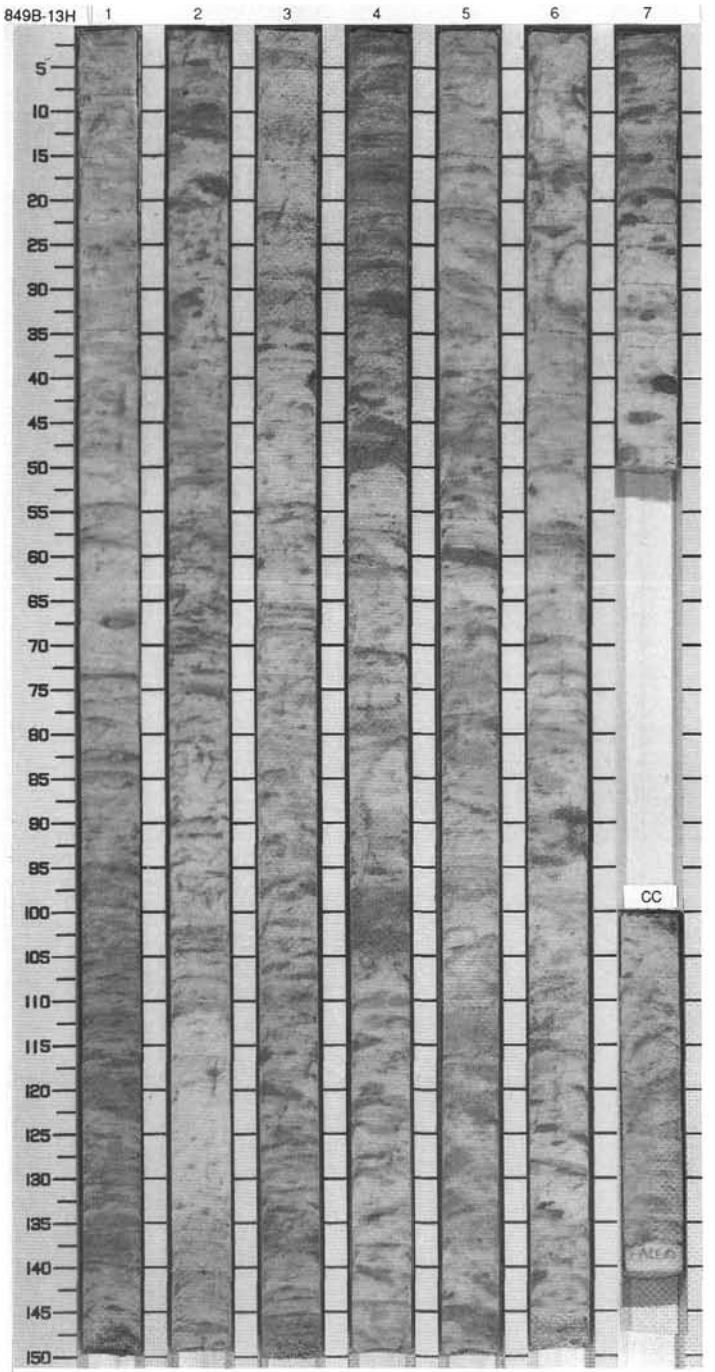
General Description:
TRACE FOSSILS: A few distinct solid burrows occur throughout the core, many filled with pyritized material. Rind burrows (with diagenetic haloes) are present in Section 5, 85 cm, and Section 6, 125 cm.

BANDING CONTRAST: Diagenetic bands have moderate to high contrast. Bands due to slight changes in lithology have slight contrast.

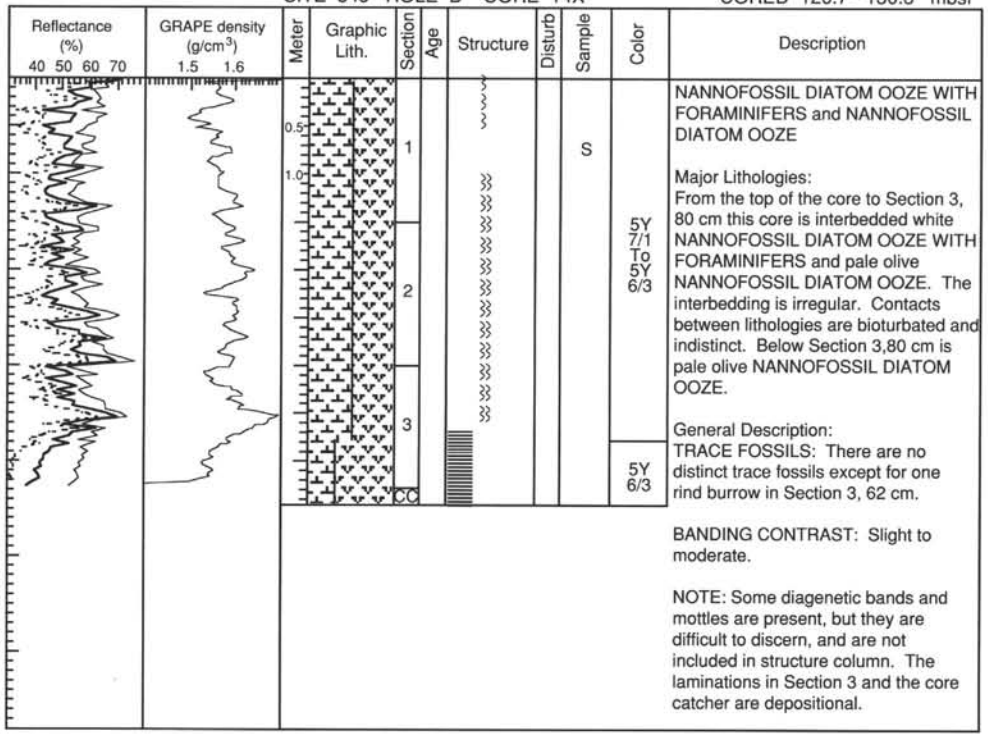


SITE 849 HOLE B CORE 13H CORED 111.2 - 120.7 mbsf





SITE 849 HOLE B CORE 14X CORED 120.7 - 130.3 mbsf



Description

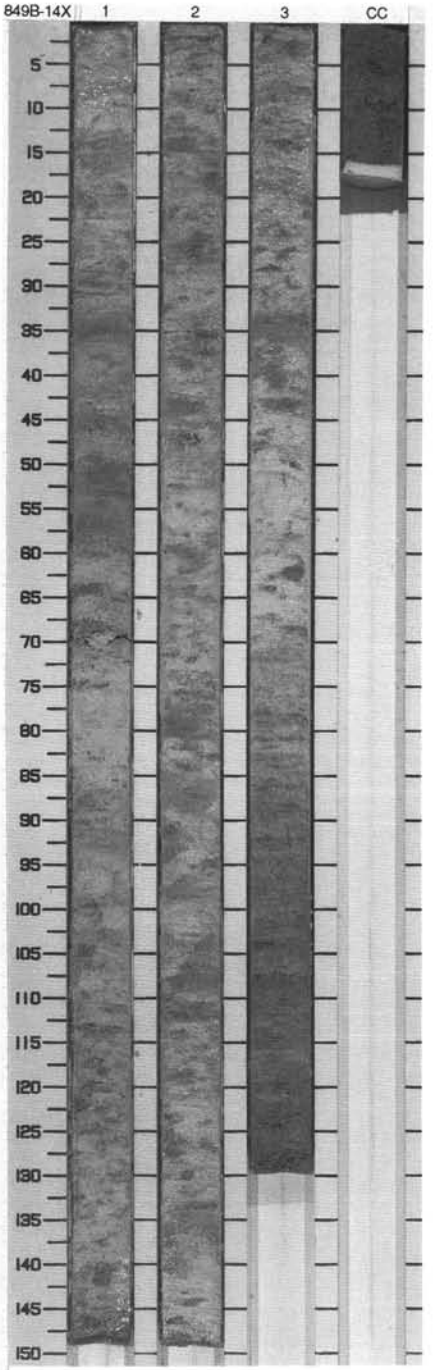
NANNOFOSSIL DIATOM OOZE WITH FORAMINIFERS and NANNOFOSSIL DIATOM OOZE

Major Lithologies:
From the top of the core to Section 3, 80 cm this core is interbedded white NANNOFOSSIL DIATOM OOZE WITH FORAMINIFERS and pale olive NANNOFOSSIL DIATOM OOZE. The interbedding is irregular. Contacts between lithologies are bioturbated and indistinct. Below Section 3,80 cm is pale olive NANNOFOSSIL DIATOM OOZE.

General Description:
TRACE FOSSILS: There are no distinct trace fossils except for one rind burrow in Section 3, 62 cm.

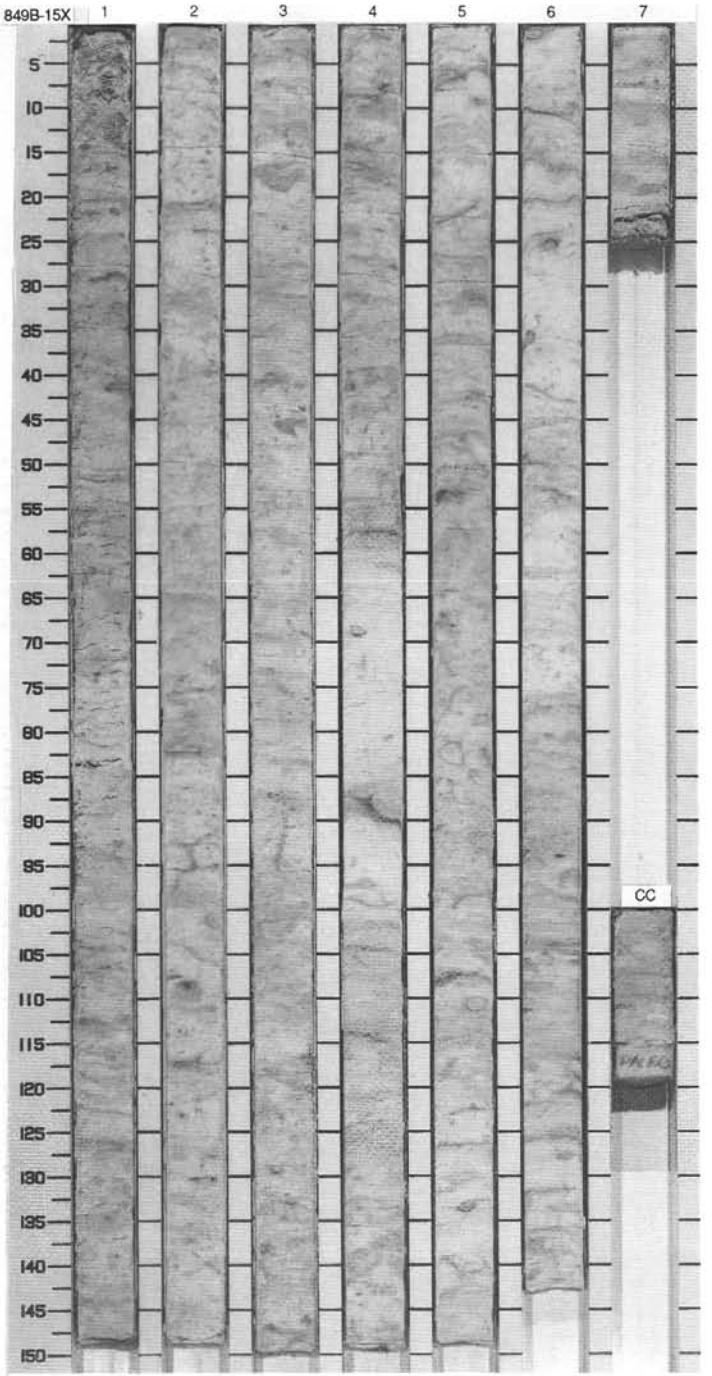
BANDING CONTRAST: Slight to moderate.

NOTE: Some diagenetic bands and mottles are present, but they are difficult to discern, and are not included in structure column. The laminations in Section 3 and the core catcher are depositional.

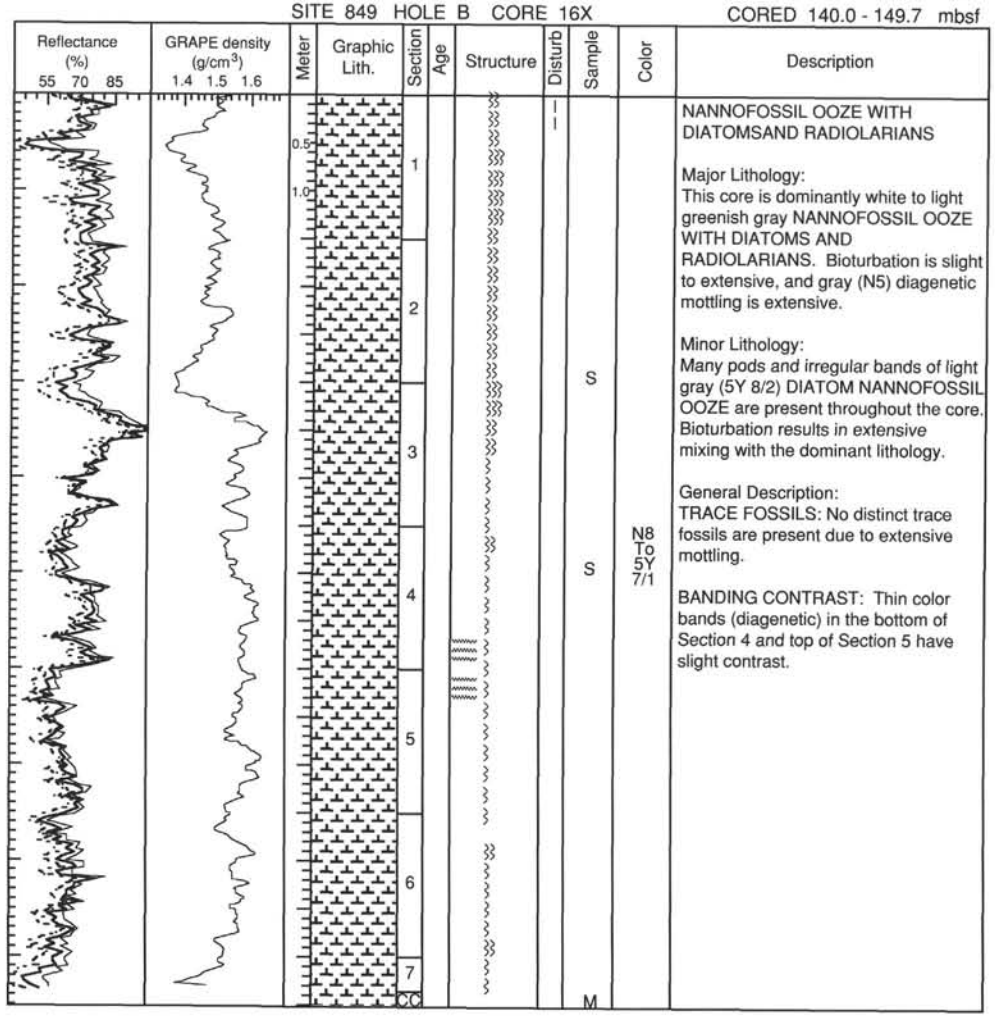


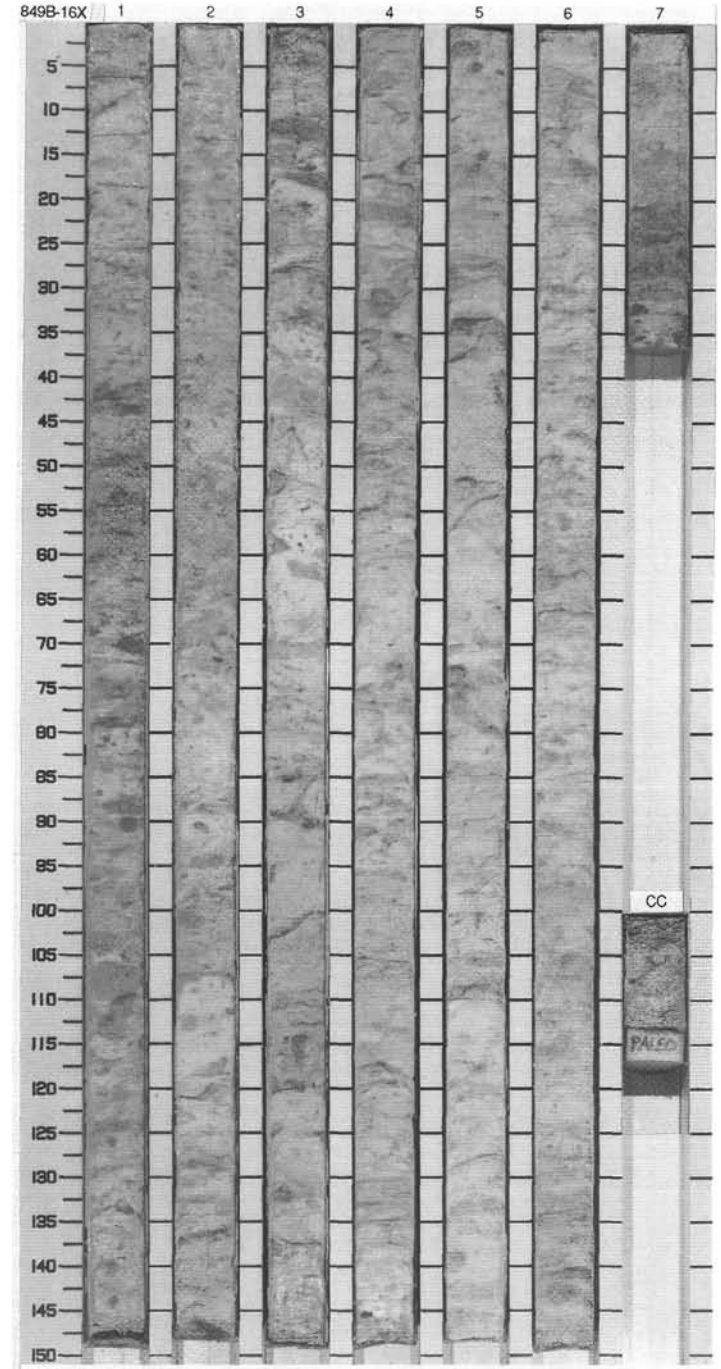
SITE 849 HOLE B CORE 15X CORED 130.3 - 140.0 mbsf

Reflectance (%) 60 70 80	GRAPE density (g/cm³) 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC			I	S S I M	N8 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE Major Lithology: This entire core consists of white to light greenish gray, slightly to moderately bioturbated, DIATOM NANNOFOSSIL OOZE. Some medium gray (N5) mottling and subtle banding is present. Pods and irregular bands of white (5Y 8/2) material are more diatom-rich than surrounding sediment. General Description: TRACE FOSSILS: The mottling is so extensive that few trace fossils are distinguishable. There are rind burrows in Section 4, 70 cm, and Section 5, 80-115 cm. BANDING CONTRAST: Slight to moderate.



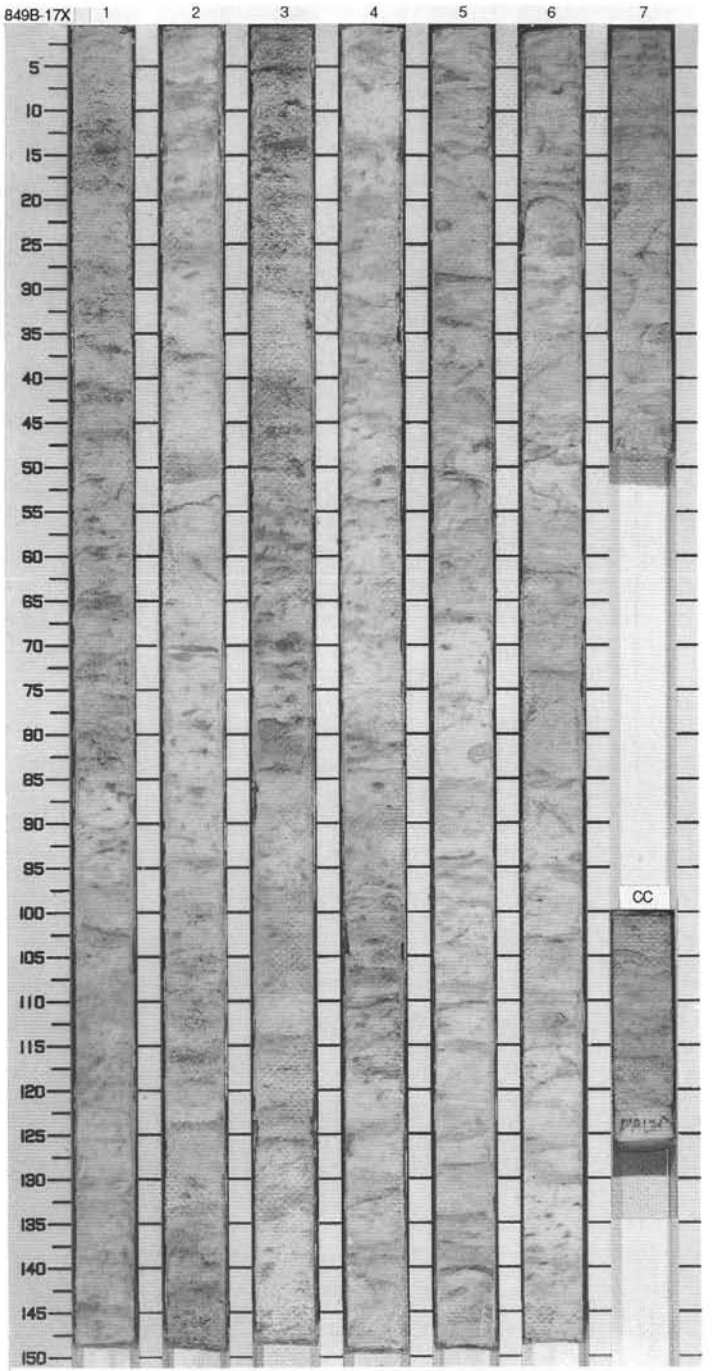
SITE 849 HOLE B CORE 16X CORED 140.0 - 149.7 mbsf





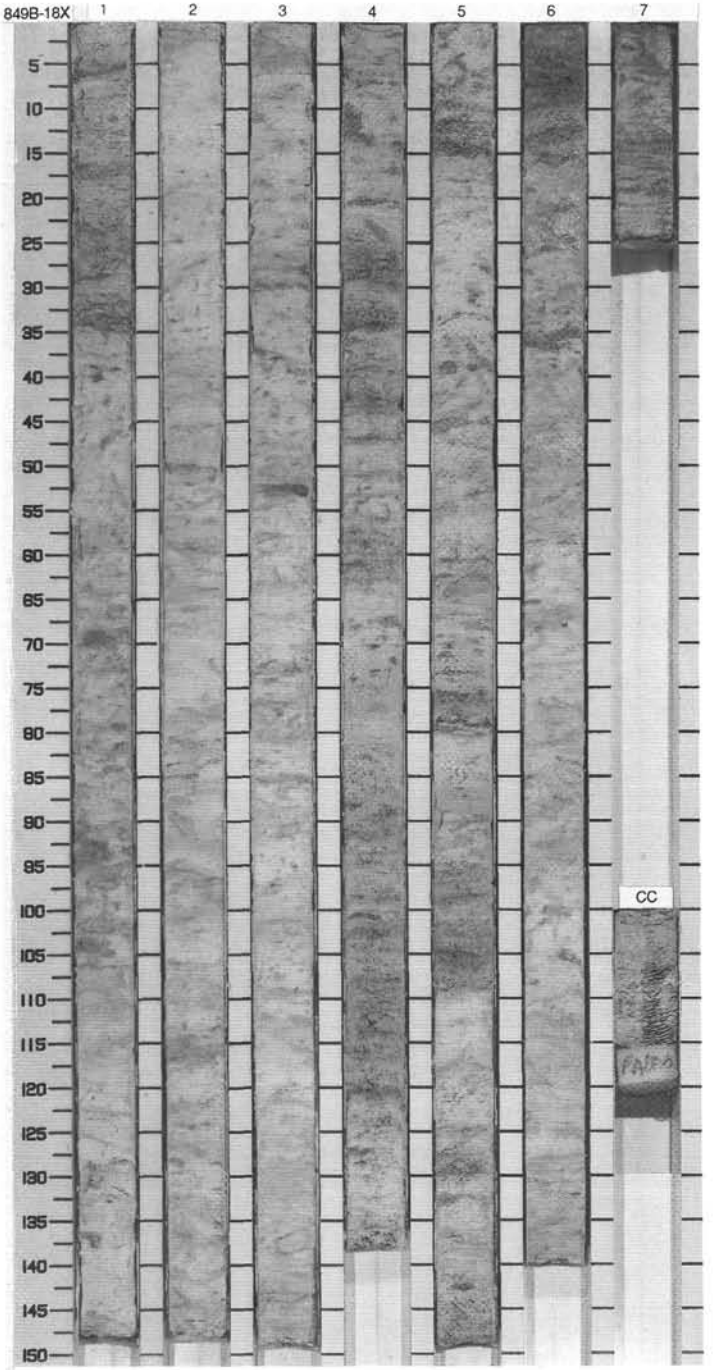
SITE 849 HOLE B CORE 17X CORED 149.7 - 159.3 mbsf

Reflectance (%) 50 60 70 80	GRAPE density (g/cm³) 1.4 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				S S M	N8 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE Major Lithology: This core is composed of white (N8) to light gray (5Y 7/1) DIATOM NANNOFOSSIL OOZE. Bioturbation is moderate and diagenetic gray mottling is extensive. General Description: TRACE FOSSILS: A few rind burrows with gray haloes are visible., but most trace fossils are obscured by mottling. BANDING CONTRAST: Gray diagenetic color bands have moderate contrast.



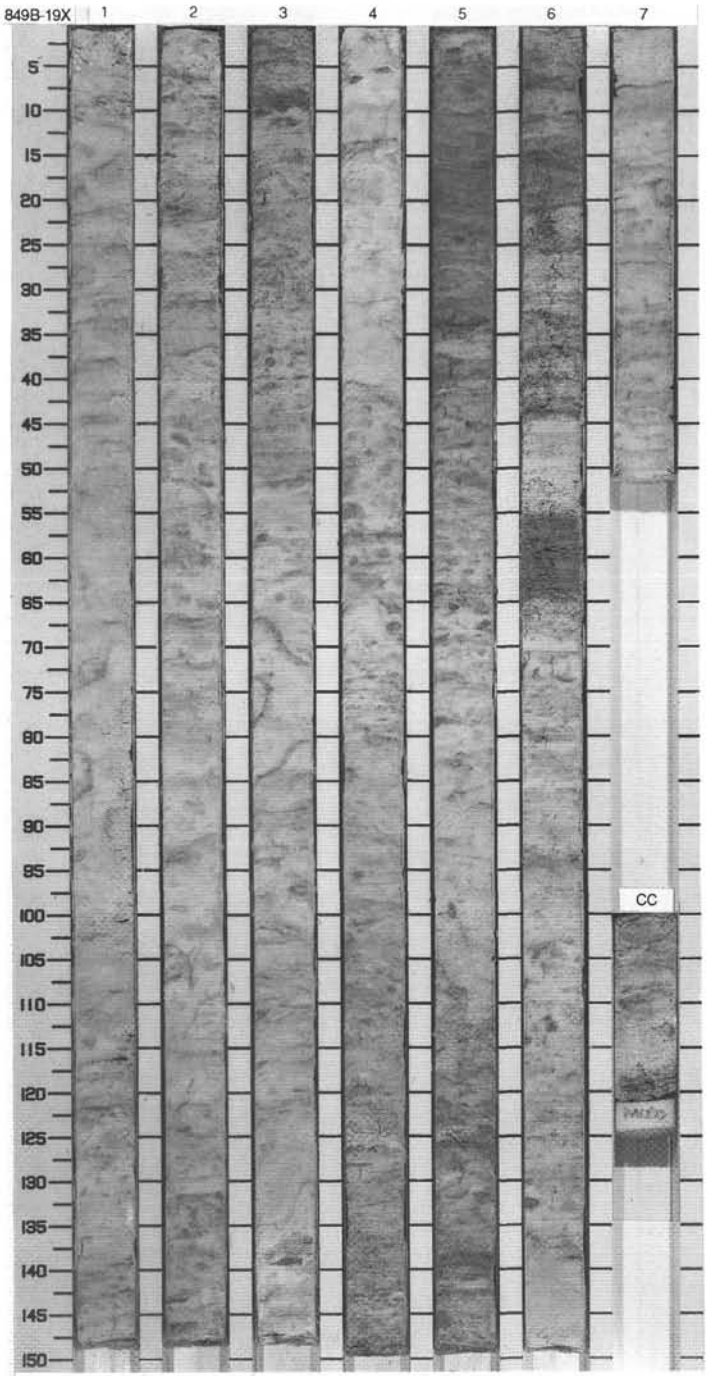
SITE 849 HOLE B CORE 18X CORED 159.3 - 168.5 mbsf

Reflectance (%) 50 60 70 80	GRAPE density (g/cm³) 1.4 1.5 1.6 1.7	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				S S P I	N8 To 5Y 7/1 N8 To 5Y 7/1 5Y 7/1 N8 5Y 7/1 N8 5Y 7/1 N8 5Y 7/1	DIATOM NANNOFOSSIL OOZE and NANNOFOSSIL DIATOM OOZE Major Lithologies: The first three sections of this core are composed of white (N8) to light gray (5Y 7/1) DIATOM NANNOFOSSIL OOZE. Sections 4 through 7 are composed of alternating beds of light gray (5Y 7/1) NANNOFOSSIL DIATOM OOZE and white (N8) to light gray (5Y 7/1) DIATOM NANNOFOSSIL OOZE. Bioturbation and diagenetic banding are moderate throughout the core. General Description: TRACE FOSSILS: Few trace fossils are visible owing to extensive mottling. BANDING CONTRAST: Slight color contrast between the two lithologies.

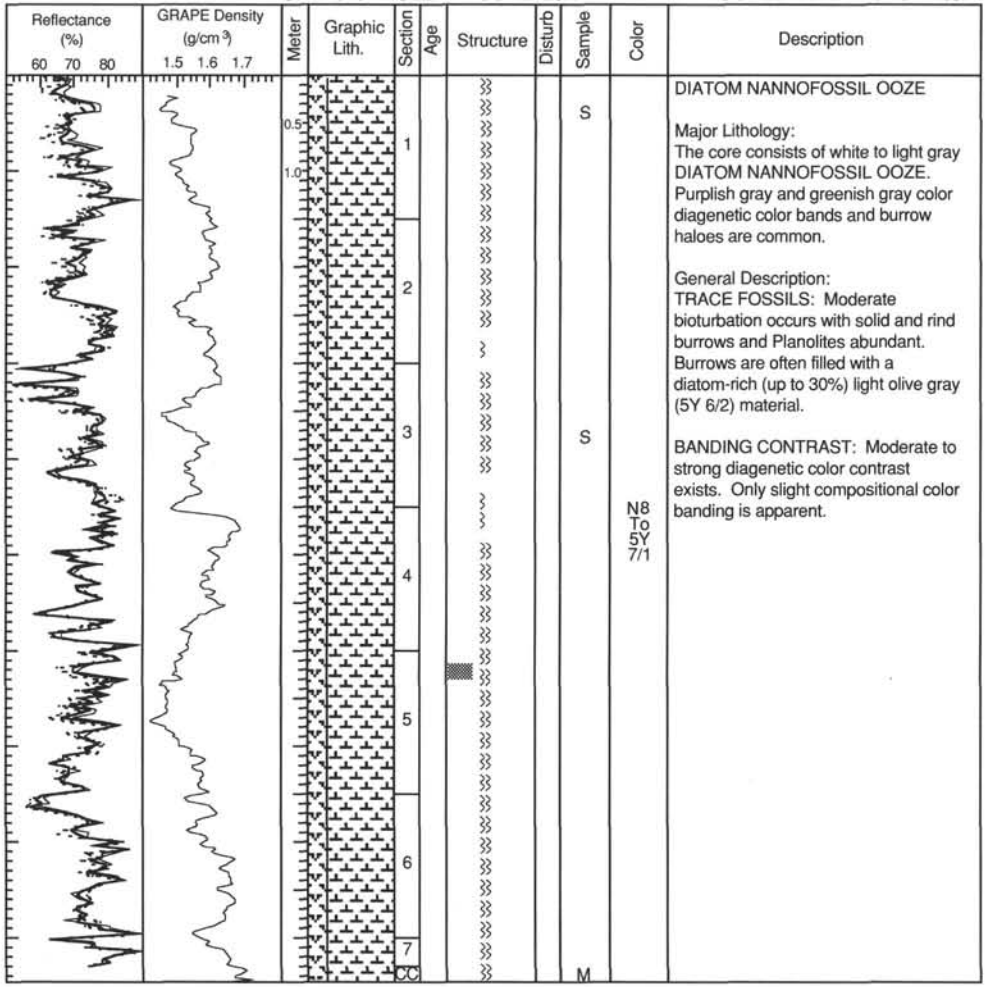


SITE 849 HOLE B CORE 19X CORED 168.5 - 177.7 mbsf

Reflectance (%) 50 60 70 80	GRAPE density (g/cm³) 1.4 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				S S S	N8 To 5Y 7/1 5Y 6/2 To 5Y 5/2 N8 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE Major Lithology: The dominant lithology is a very light gray to light gray (N8 to 5Y 7/1) DIATOM NANNOFOSSIL OOZE with diatom content varying between 20-35%. Dark bluish black mottling is present throughout and some intervals are particularly rich in light olive gray (5Y 6/2) burrows with diatom rich fills. Minor Lithology: Light olive gray to olive gray (5Y 6/2 to 5Y 5/2) NANNOFOSSIL DIATOM OOZE, which contains very fine depositional laminations consisting of monospecific concentrations of T. longissima, is present in Section 3, 7-10 cm, Section 5, 32-35, 38-40, 122-129 and 138-144 cm and Section 6, 14-26, 32-44, and 55-65 cm. General Description: TRACE FOSSILS: In the dominant paler lithology, bioturbation is moderate to strong and only solid burrows and Planolites are easily distinguishable. There is little or no bioturbation in the laminated intervals. COLOR BANDING: Contrast is slight to moderate between the diatom-rich and nannofossil-rich lithologies.



SITE 849 HOLE B CORE 20X CORED 177.7 - 187.3 mbsf



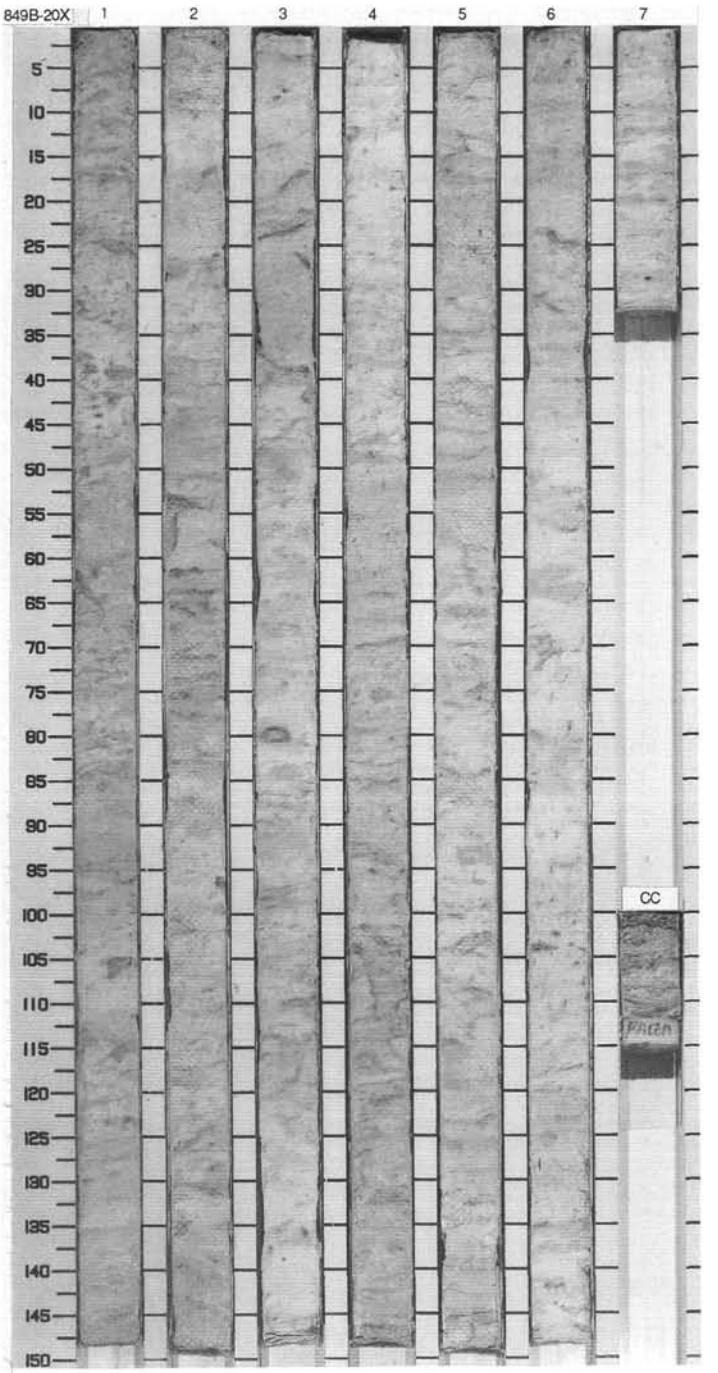
Description

DIATOM NANNOFOSSIL OOZE

Major Lithology:
The core consists of white to light gray DIATOM NANNOFOSSIL OOZE. Purplish gray and greenish gray color diagenetic color bands and burrow haloes are common.

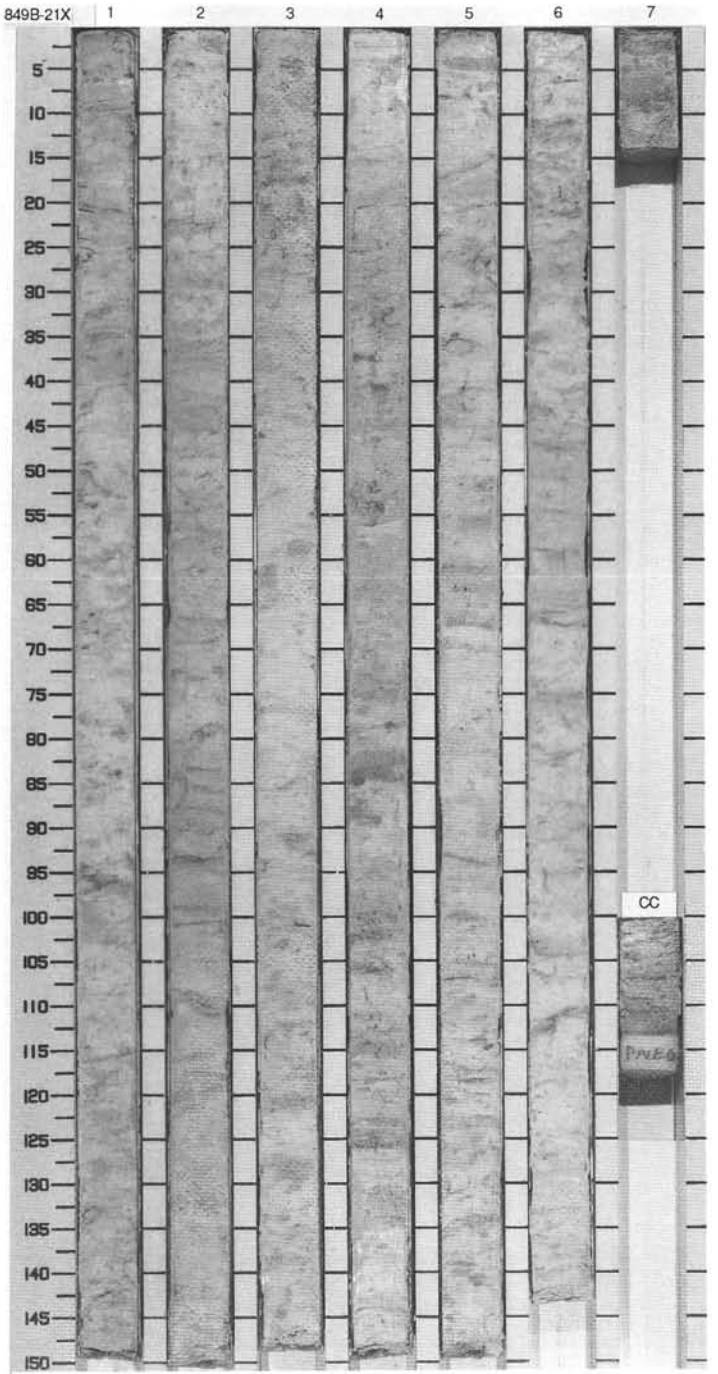
General Description:
TRACE FOSSILS: Moderate bioturbation occurs with solid and rind burrows and Planolites abundant. Burrows are often filled with a diatom-rich (up to 30%) light olive gray (5Y 6/2) material.

BANDING CONTRAST: Moderate to strong diagenetic color contrast exists. Only slight compositional color banding is apparent.

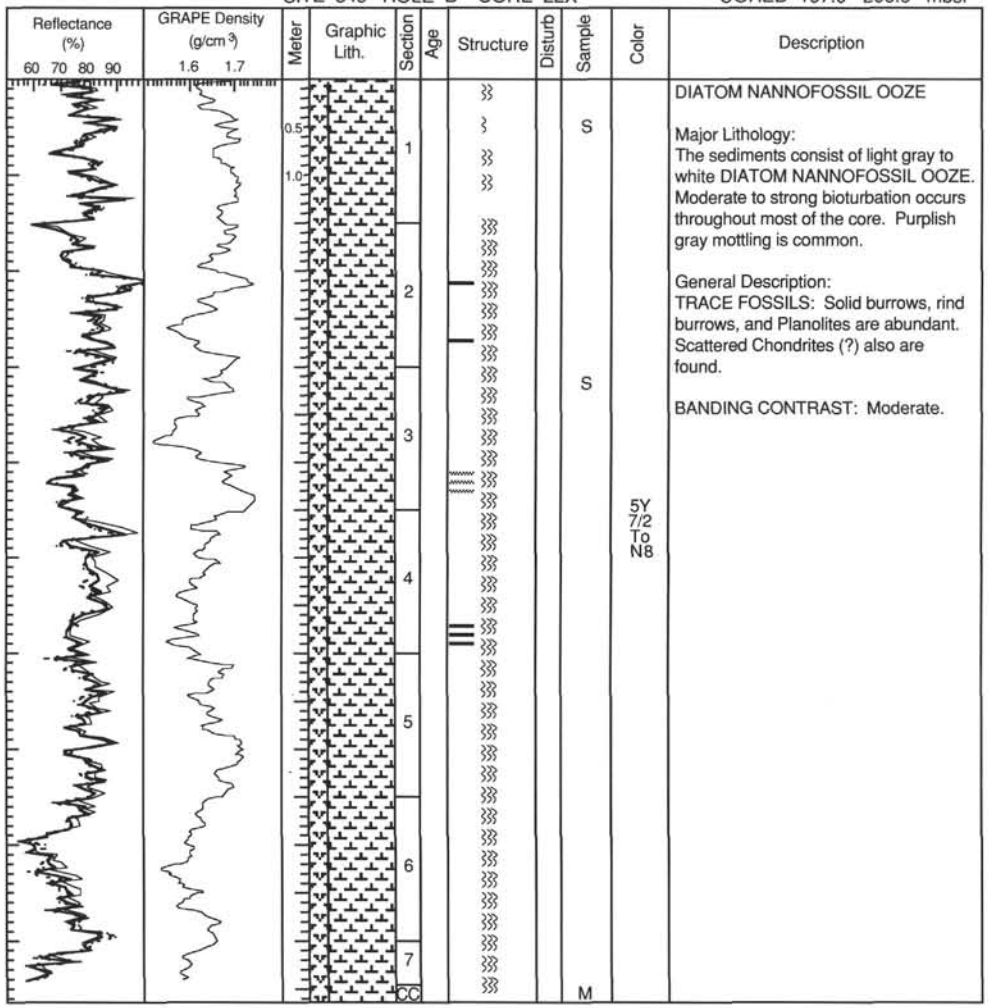


SITE 849 HOLE B CORE 21X CORED 187.3 - 197.0 mbsf

Reflectance (%) 60 80	GRAPE Density (g/cm³) 1.5 1.6 1.7	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				S S S	N8 To 5Y 7/1 5Y 6/2 To 5Y 7/1 N8 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE Major Lithology: The dominant lithology is light gray to very light gray (5Y 7/1 to N8) DIATOM NANNOFOSSIL OOZE in which the diatom content varies from 10-20%. Dark bluish black mottling occurs throughout the core. Minor Lithologies: In Sections 4 and 5, light gray to light olive gray (5Y 7/1 to 5Y 6/2) DIATOM NANNOFOSSIL OOZE, with over 30% diatoms (and more rarely NANNOFOSSIL DIATOM OOZE) is interbedded with the major lithology. Some intervals are laminated. General Description: TRACE FOSSILS: Bioturbation is moderate throughout and only solid burrows and Planolites are readily visible. Faint Chondrites are visible in places. BANDING CONTRAST: None, except for that between the lithologies with varying diatom content.



SITE 849 HOLE B CORE 22X CORED 197.0 - 206.6 mbsf



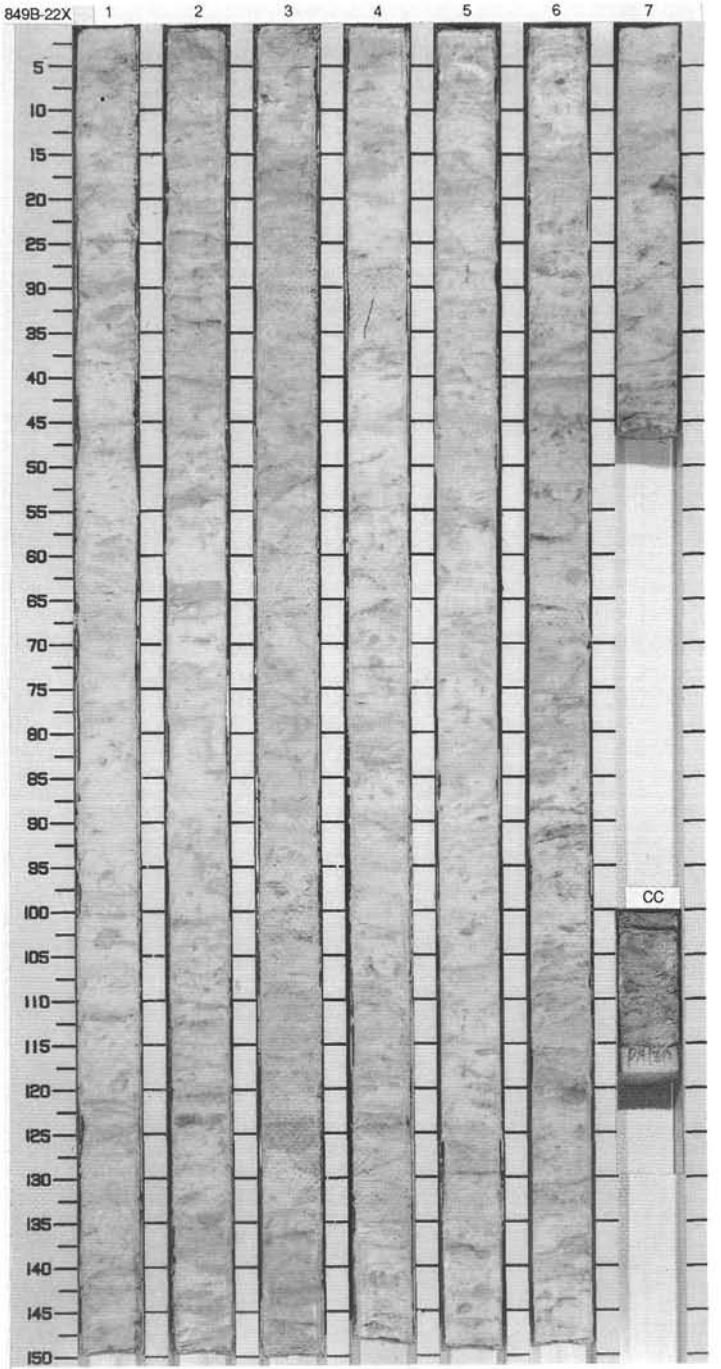
Description

DIATOM NANNOFOSSIL OOZE

Major Lithology:
The sediments consist of light gray to white DIATOM NANNOFOSSIL OOZE. Moderate to strong bioturbation occurs throughout most of the core. Purplish gray mottling is common.

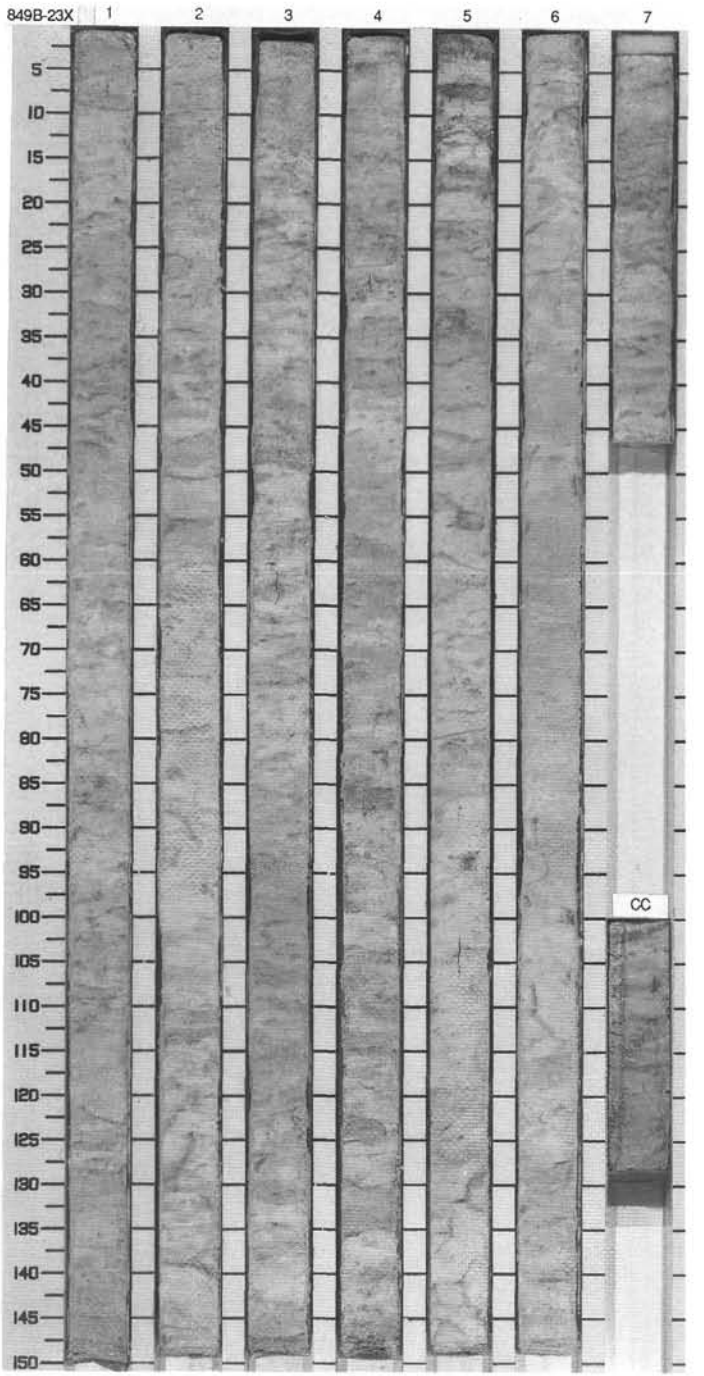
General Description:
TRACE FOSSILS: Solid burrows, rind burrows, and Planolites are abundant. Scattered Chondrites (?) also are found.

BANDING CONTRAST: Moderate.

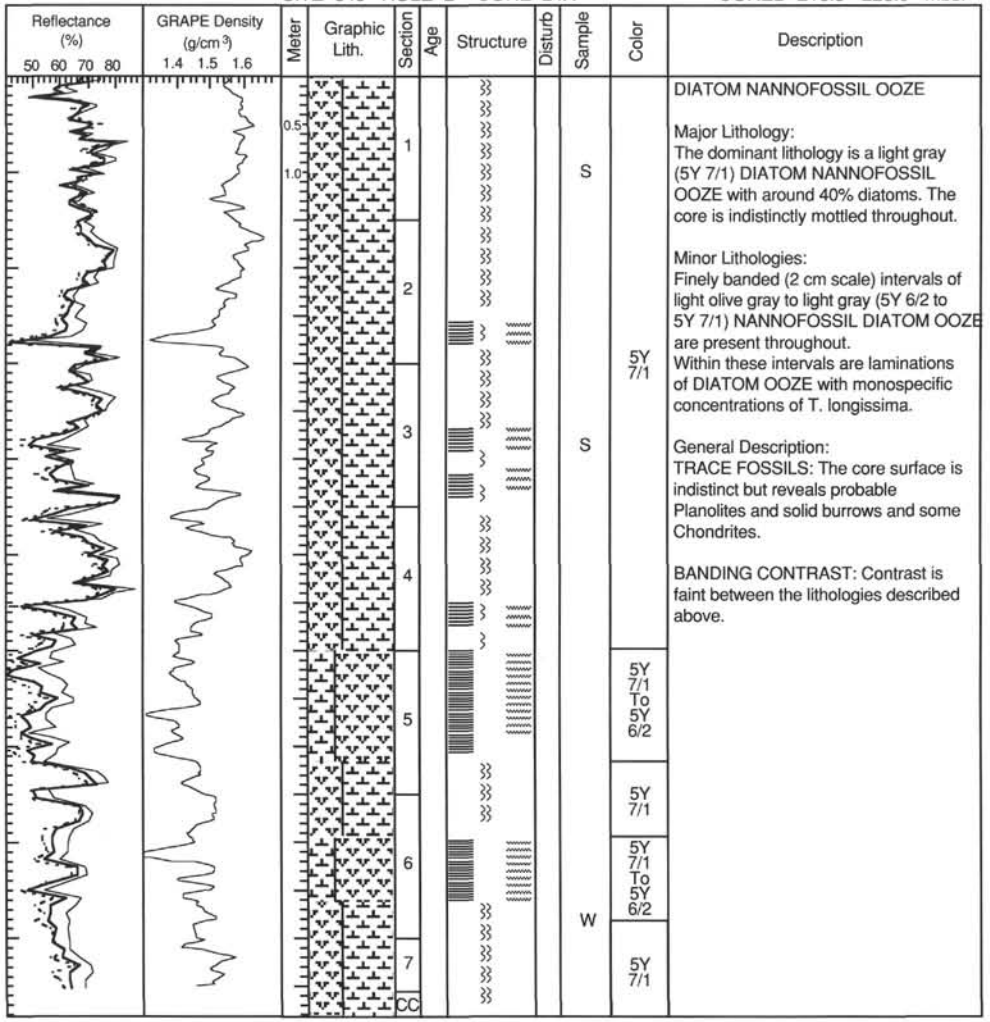


SITE 849 HOLE B CORE 23X CORED 206.6 - 216.3 mbsf

Reflectance (%) 50 60 70 80	GRAPE Density (g/cm³) 1.4 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				S S M	5Y 7/2	DIATOM NANNOFOSSIL OOZE Major Lithology: The sediments consists of white to light gray DIATOM NANNOFOSSIL OOZE. Diagenetic purplish gray color bands and haloes are common throughout the core. Minor Lithologies: Section 4, 85 cm through Section 5, 25 cm is interbedded with thin, light olive gray (5Y 6/2) diatom-rich layers. General Description: TRACE FOSSILS: Moderate to strong bioturbation occurs with solid burrows and Planolites abundant. BANDING CONTRAST: Moderate.



SITE 849 HOLE B CORE 24X CORED 216.3 - 226.0 mbsf



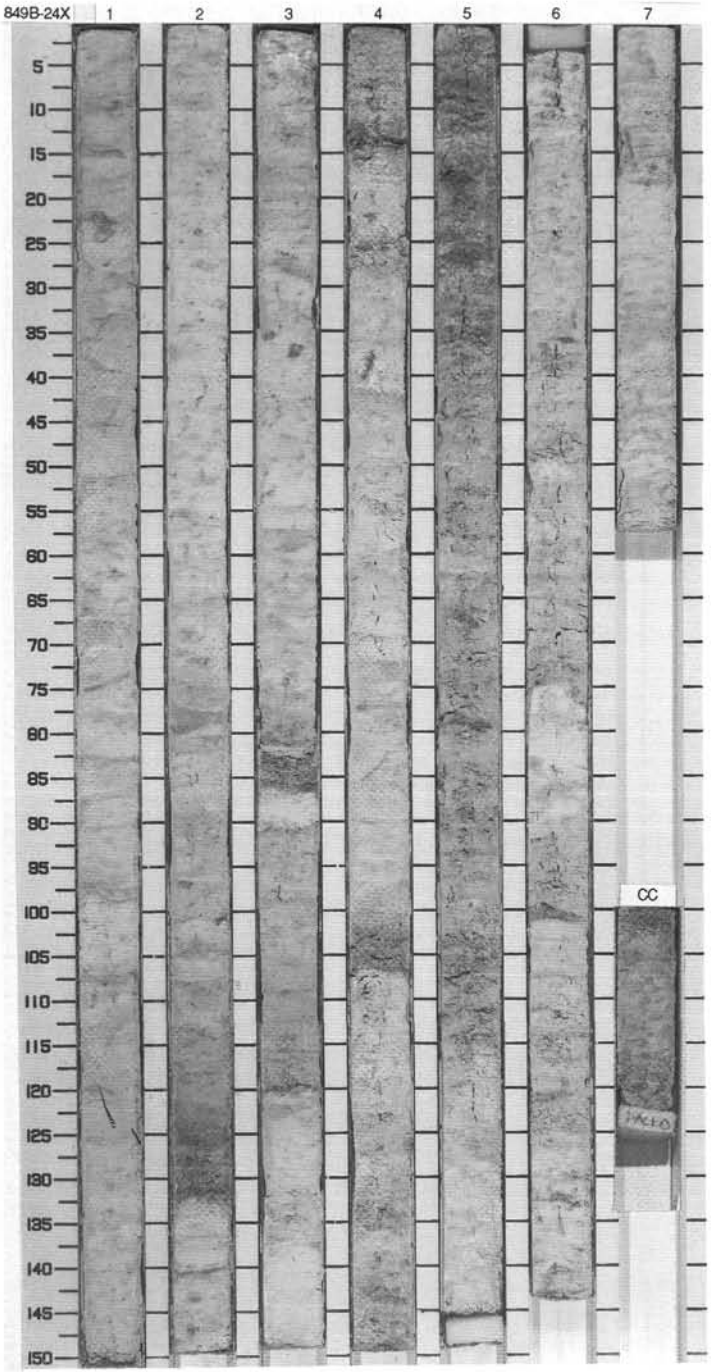
DIATOM NANNOFOSSIL OOZE

Major Lithology:
The dominant lithology is a light gray (5Y 7/1) DIATOM NANNOFOSSIL OOZE with around 40% diatoms. The core is indistinctly mottled throughout.

Minor Lithologies:
Finely banded (2 cm scale) intervals of light olive gray to light gray (5Y 6/2 to 5Y 7/1) NANNOFOSSIL DIATOM OOZE are present throughout.
Within these intervals are laminations of DIATOM OOZE with monospecific concentrations of T. longissima.

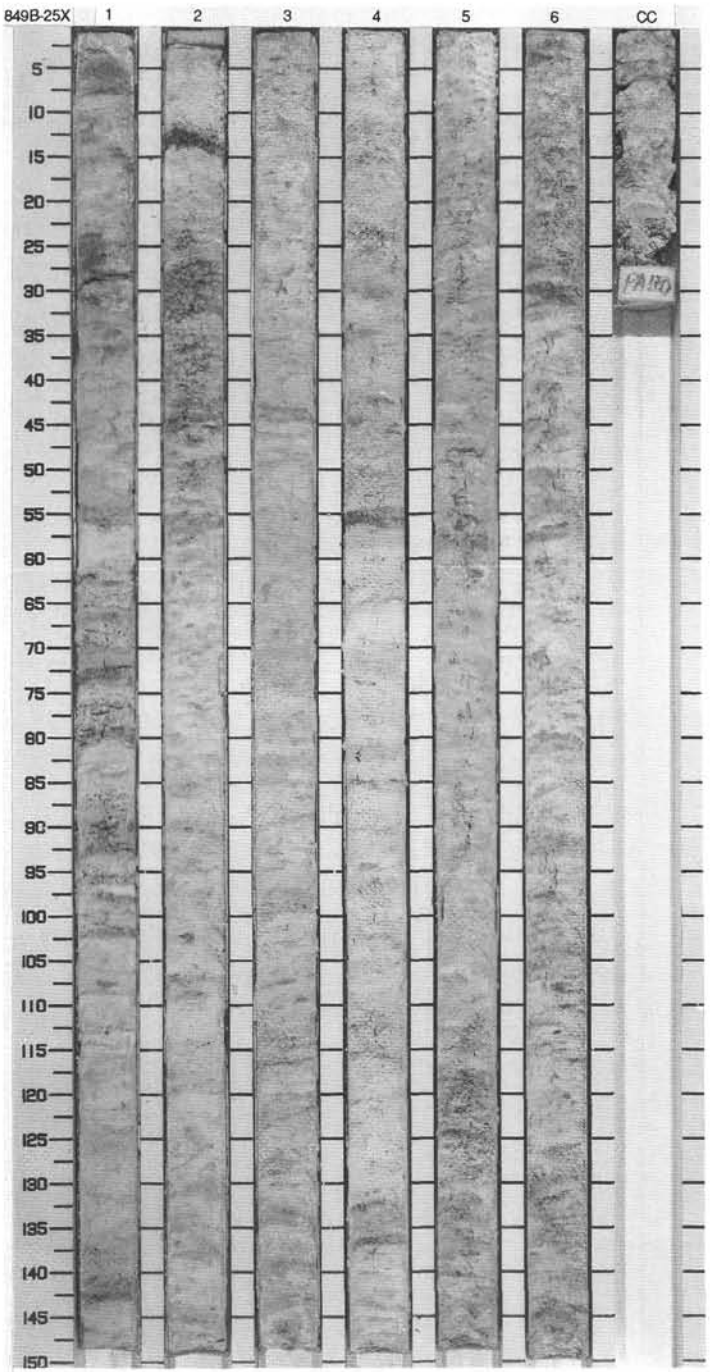
General Description:
TRACE FOSSILS: The core surface is indistinct but reveals probable Planolites and solid burrows and some Chondrites.

BANDING CONTRAST: Contrast is faint between the lithologies described above.

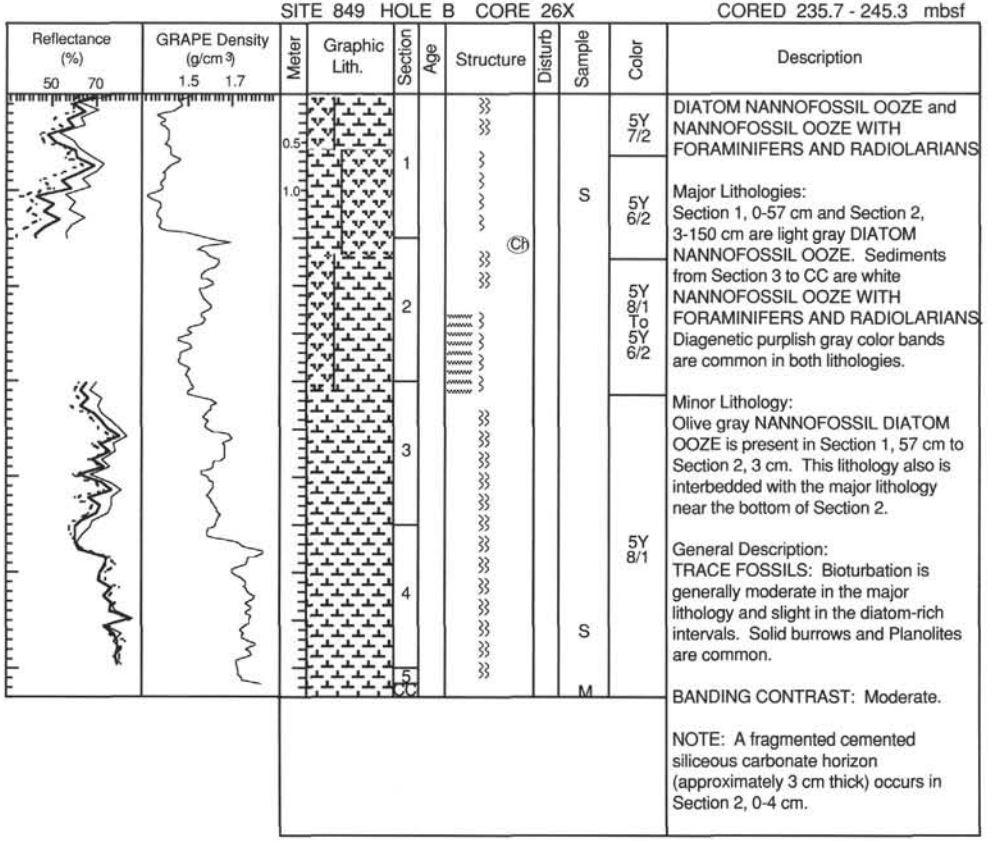


SITE 849 HOLE B CORE 25X CORED 226.0 - 235.7 mbsf

Reflectance (%) 50 70	GRAPE Density (g/cm3) 1.4 1.5	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1					5Y 8/1	DIATOM NANNOFOSSIL OOZE Major Lithology: The major lithology is white to light gray DIATOM NANNOFOSSIL OOZE. Gray diagenetic bands are present throughout the core.
									5Y 6/2	
				2				S	5Y 8/1	
									5Y 6/2	Minor Lithology: Interbedded with the major lithology is light olive gray NANNOFOSSIL DIATOM OOZE, which is most abundant, and laminated, in Sections 1, 2, 4, and 5. Where the core is not laminated, the diatom-rich layers appear as burrow fill within the major lithology. Thin, pure, diatom ooze laminations occur within the laminated intervals. General Description: TRACE FOSSILS: Bioturbation is generally weak in the nannofossil ooze intervals, and weak to absent in the diatom-rich layers. Solid burrows and Planolites are present. BANDING CONTRAST: Slight.
				3						
				4					5Y 8/1 To 5Y 6/2	
				5				S		
				6						
				CC				M		



SITE 849 HOLE B CORE 26X CORED 235.7 - 245.3 mbsf



Description

DIATOM NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH FORAMINIFERS AND RADIOLARIANS

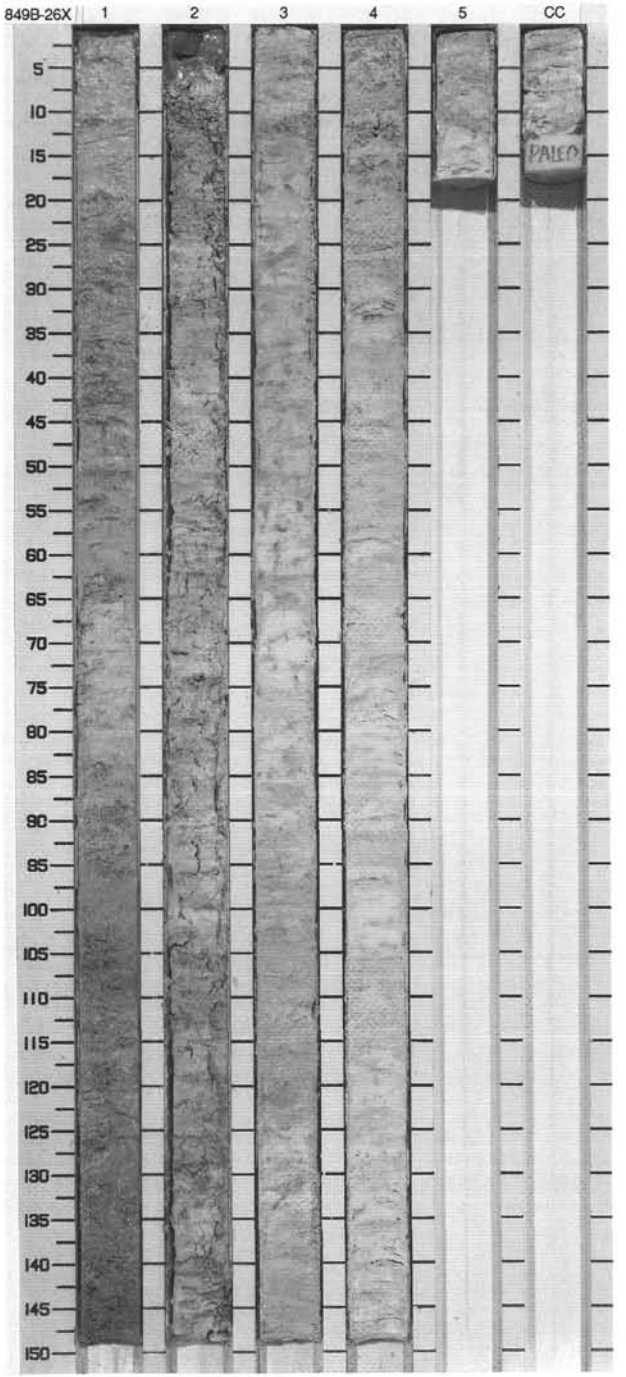
Major Lithologies:
Section 1, 0-57 cm and Section 2, 3-150 cm are light gray DIATOM NANNOFOSSIL OOZE. Sediments from Section 3 to CC are white NANNOFOSSIL OOZE WITH FORAMINIFERS AND RADIOLARIANS. Diagenetic purplish gray color bands are common in both lithologies.

Minor Lithology:
Olive gray NANNOFOSSIL DIATOM OOZE is present in Section 1, 57 cm to Section 2, 3 cm. This lithology also is interbedded with the major lithology near the bottom of Section 2.

General Description:
TRACE FOSSILS: Bioturbation is generally moderate in the major lithology and slight in the diatom-rich intervals. Solid burrows and Planolites are common.

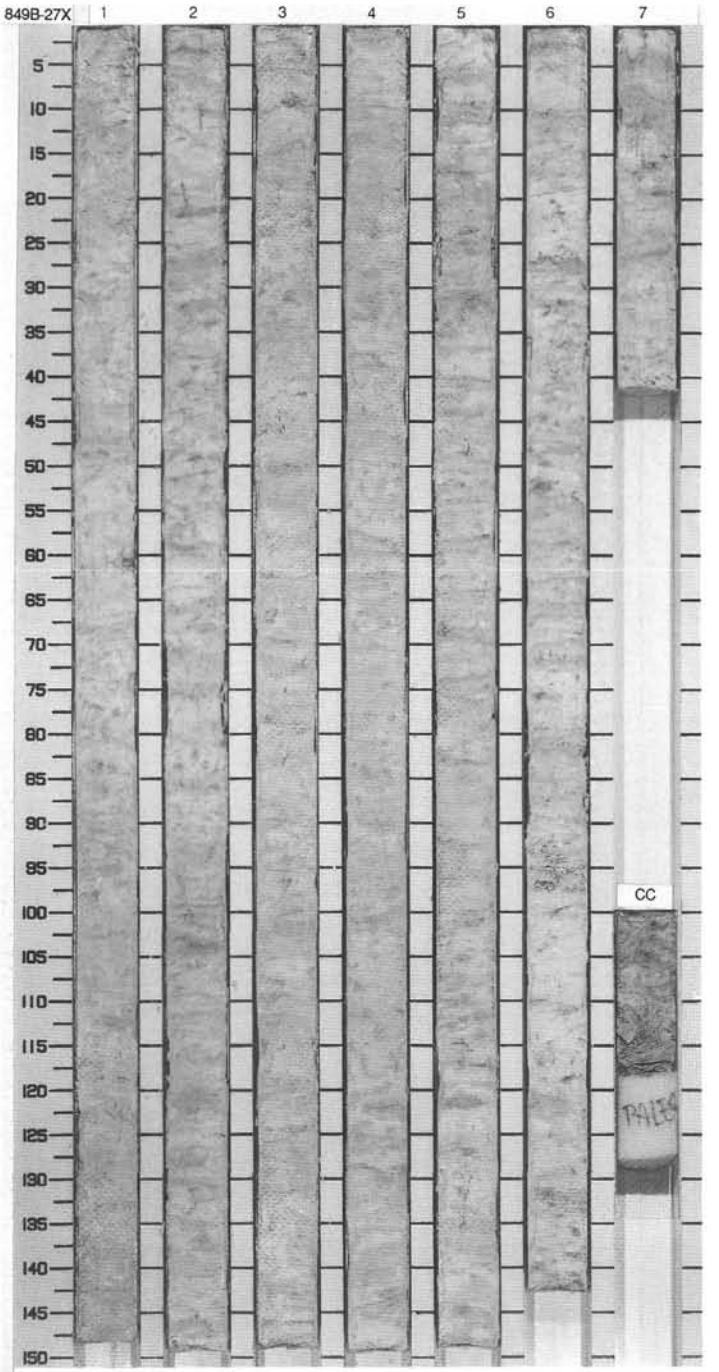
BANDING CONTRAST: Moderate.

NOTE: A fragmented cemented siliceous carbonate horizon (approximately 3 cm thick) occurs in Section 2, 0-4 cm.



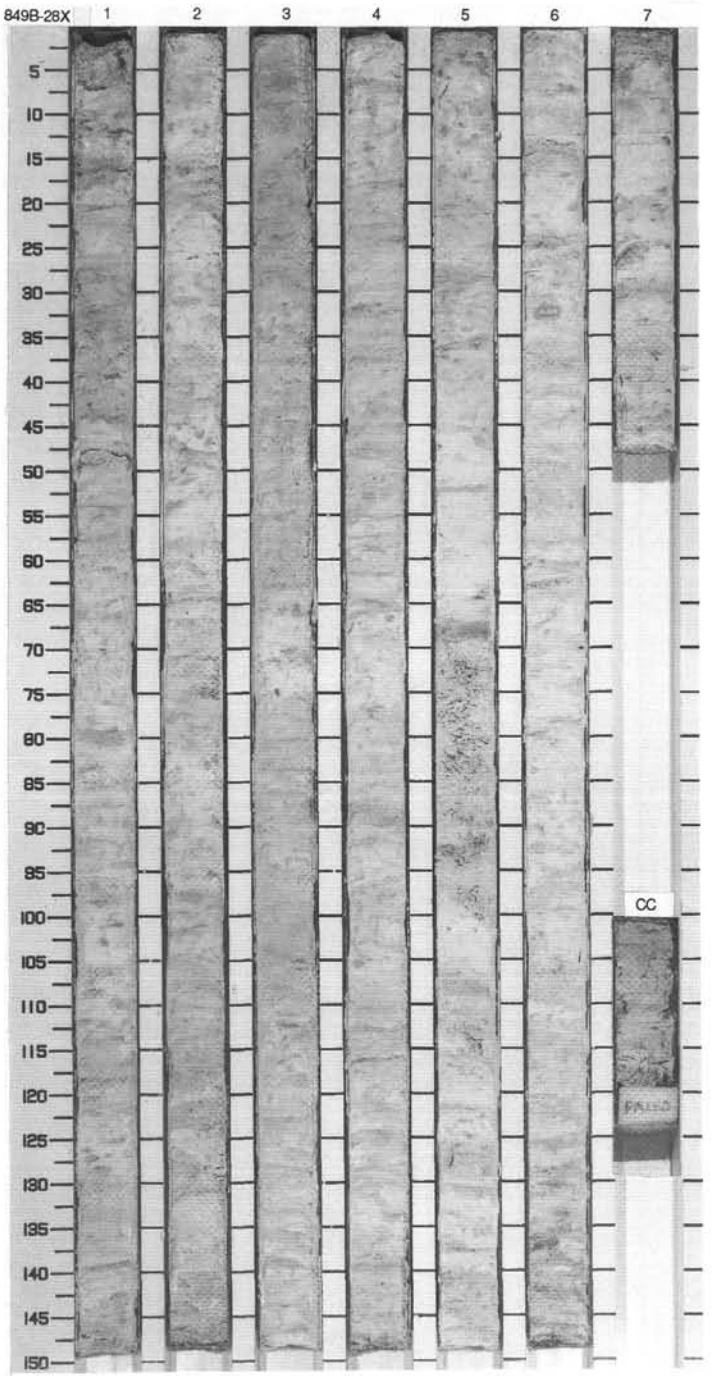
SITE 849 HOLE B CORE 27X CORED 245.3 - 255.0 mbsf

Reflectance (%) 70 80 90	GRAPE Density (g/cm³) 1.6 1.7	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				S S M	5Y 8/1 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE Major Lithology: This core contains white to light gray DIATOM NANNOFOSSIL OOZE. Puplish gray diagenetic color banding and mottling is present throughout. General Description: TRACE FOSSILS: Moderate bioturbation occurs throughout the core with solid burrows and Planolites abundant. BANDING CONTRAST: Moderate diagenetic color banding contrast occurs; no compositional banding is present.



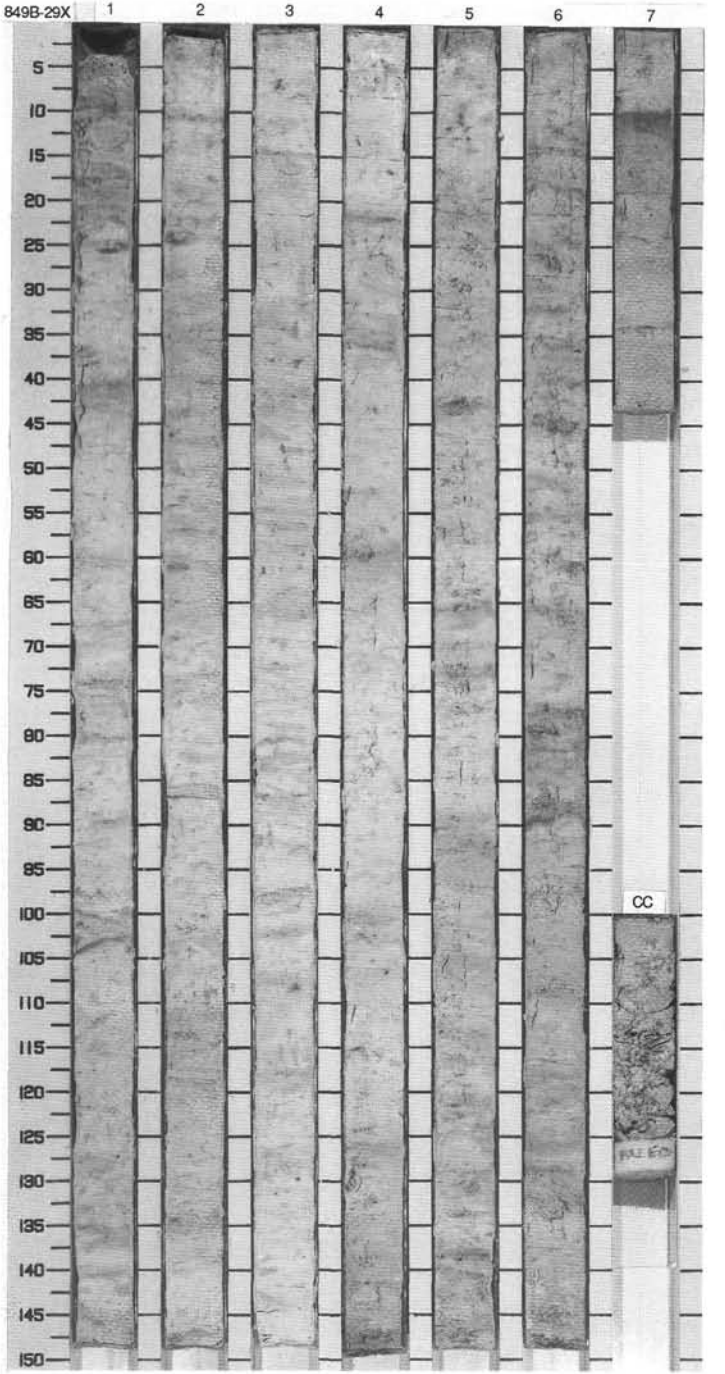
SITE 849 HOLE B CORE 28X CORED 255.0 - 264.7 mbsf

Reflectance (%) 50 60 70 80	GRAPE Density (g/cm³) 1.4 1.5 1.6 1.7	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				S S M	5Y 8/1 To 5Y 7/1 5Y 7/1 5Y 8/1 5Y 8/1 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS Major Lithology: This core contains white (5Y 8/1) to light gray (5Y 7/1) DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS. Bioturbation and mottling is moderate throughout the core. Slight color banding of light gray (5Y 7/1) color is present. Minor Lithology: The minor lithology, represented by color bands, is composed of light gray NANNOFOSSIL OOZE WITH DIATOMS. General Description: TRACE FOSSILS: Solid burrows and Planolites are present. A few rind burrows are visible. BANDING CONTRAST: Slight to moderate diagenetic banding contrast is present. Banding contrast between lithologies is slight.

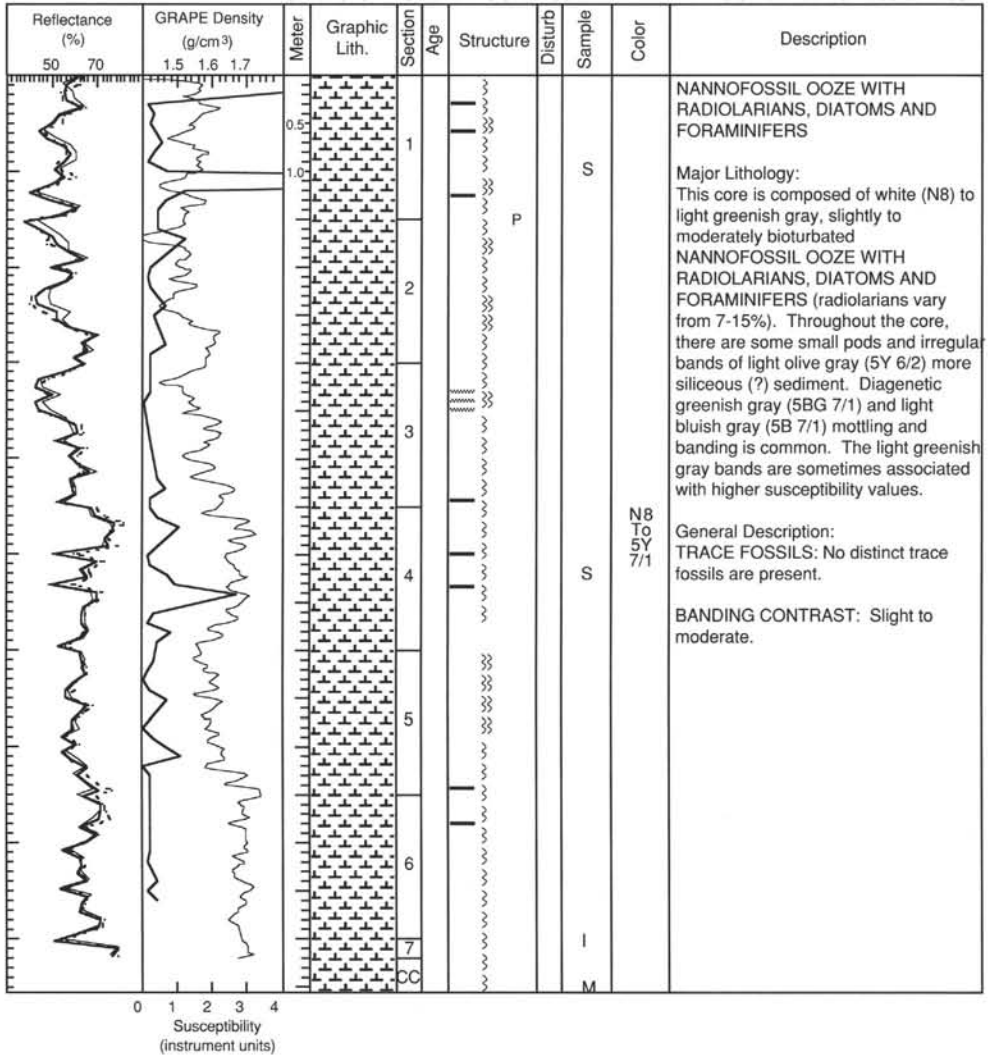


SITE 849 HOLE B CORE 29X CORED 264.7 - 274.3 mbsf

Reflectance (%) 50 60 70 80	GRAPE Density (g/cm³) 1.5 1.6 1.7	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				S S M	5Y 8/1 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE Major Lithology: The sediments in this core consist of a light gray to white DIATOM NANNOFOSSIL OOZE. Diatom content ranges from 8% to 15%. Bioturbation and mottling are moderate to strong. Diagenetic color banding and laminations are common. General Description: TRACE FOSSILS: A few rind burrows and solid burrows are present, but most trace fossils are obscured by intense mottling. BANDING CONTRAST: Slight to moderate banding contrast is present with the diagenetic color bands and laminations.



SITE 849 HOLE B CORE 30X CORED 274.3 - 283.9 mbsf



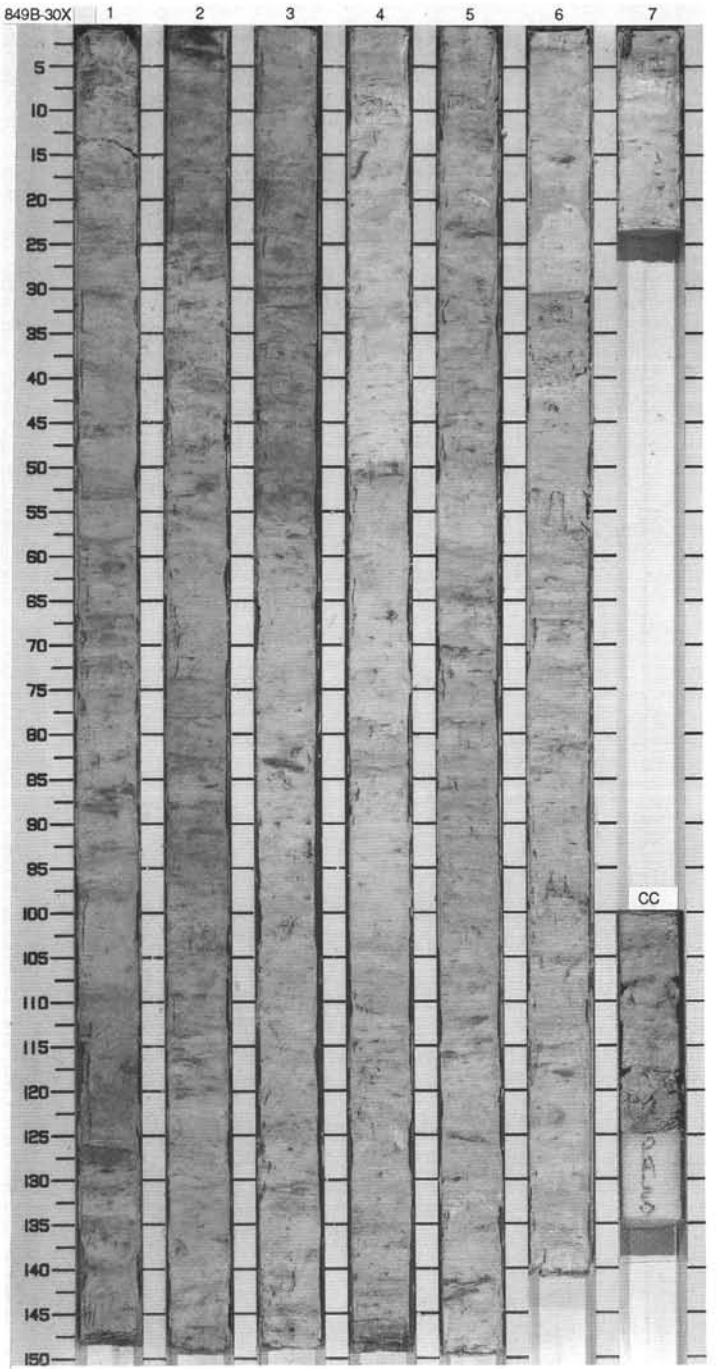
Description

NANNOFOSSIL OOZE WITH RADIOLARIANS, DIATOMS AND FORAMINIFERS

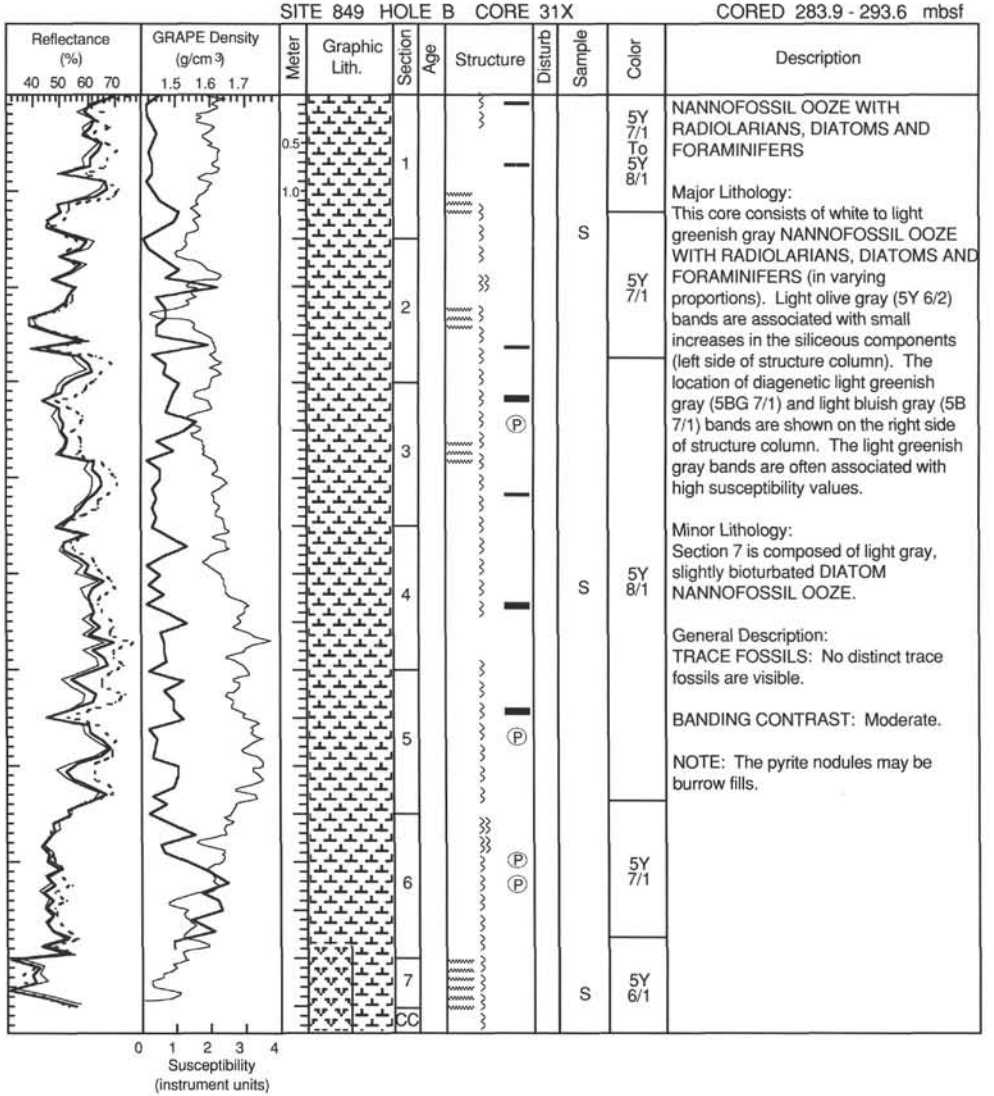
Major Lithology:
This core is composed of white (N8) to light greenish gray, slightly to moderately bioturbated NANNOFOSSIL OOZE WITH RADIOLARIANS, DIATOMS AND FORAMINIFERS (radiolarians vary from 7-15%). Throughout the core, there are some small pods and irregular bands of light olive gray (5Y 6/2) more siliceous (?) sediment. Diagenetic greenish gray (5BG 7/1) and light bluish gray (5B 7/1) mottling and banding is common. The light greenish gray bands are sometimes associated with higher susceptibility values.

General Description:
TRACE FOSSILS: No distinct trace fossils are present.

BANDING CONTRAST: Slight to moderate.



SITE 849 HOLE B CORE 31X CORED 283.9 - 293.6 mbsf



NANNOFOSSIL OOZE WITH RADIOLARIANS, DIATOMS AND FORAMINIFERS

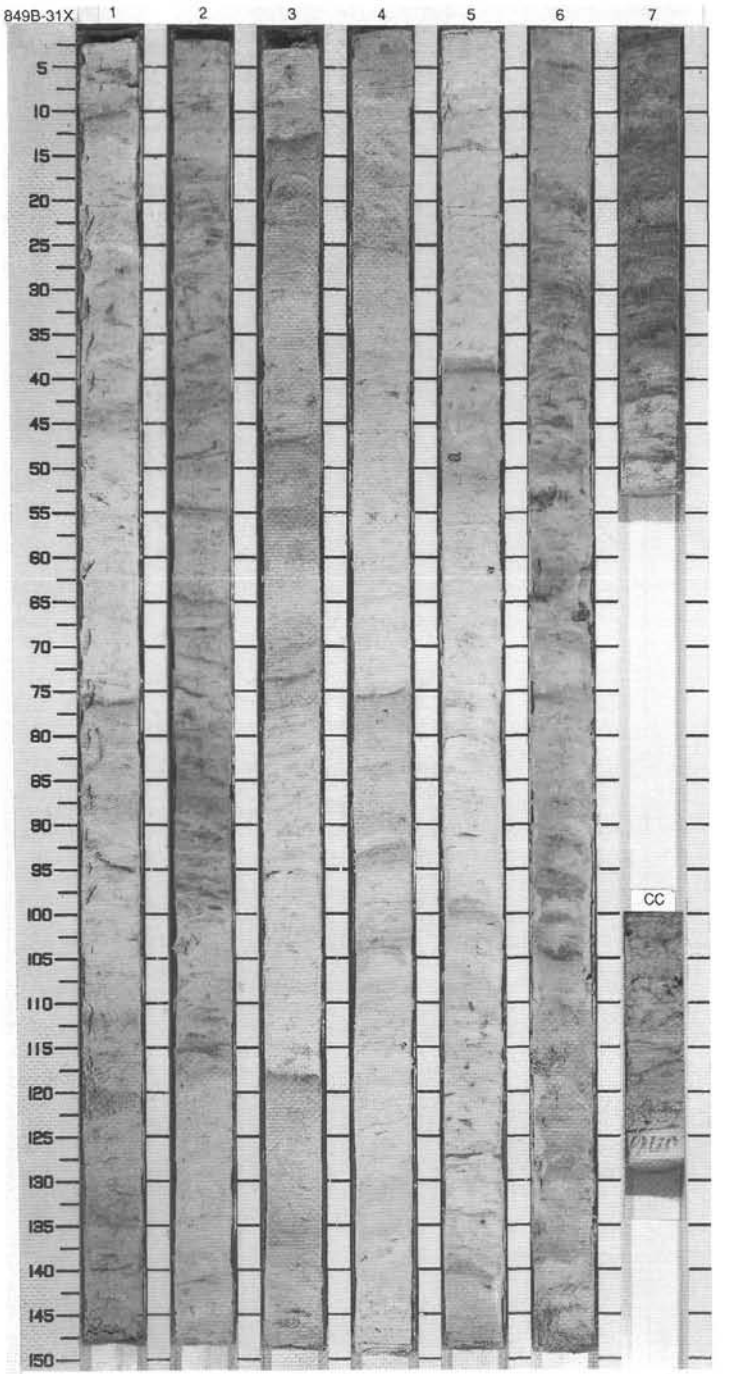
Major Lithology:
This core consists of white to light greenish gray NANNOFOSSIL OOZE WITH RADIOLARIANS, DIATOMS AND FORAMINIFERS (in varying proportions). Light olive gray (5Y 6/2) bands are associated with small increases in the siliceous components (left side of structure column). The location of diagenetic light greenish gray (5BG 7/1) and light bluish gray (5B 7/1) bands are shown on the right side of structure column. The light greenish gray bands are often associated with high susceptibility values.

Minor Lithology:
Section 7 is composed of light gray, slightly bioturbated DIATOM NANNOFOSSIL OOZE.

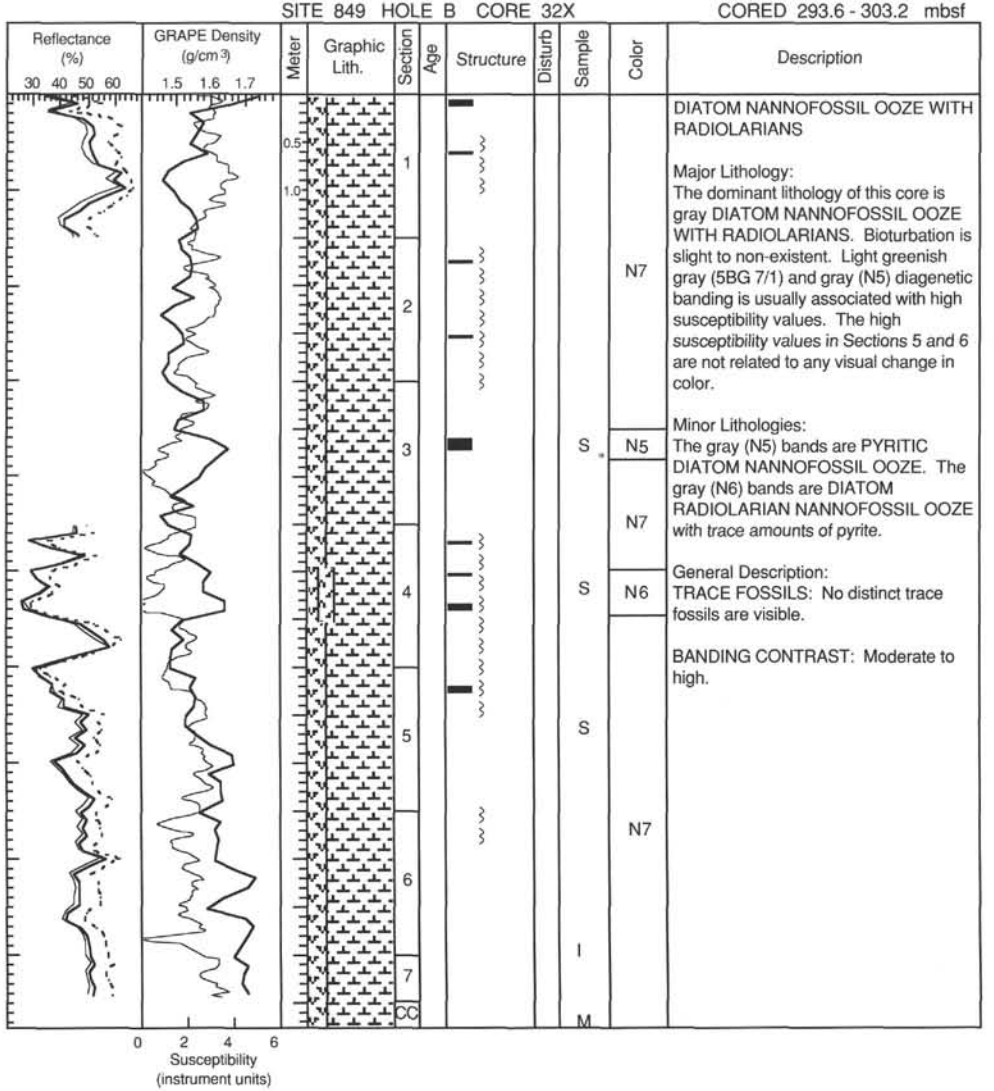
General Description:
TRACE FOSSILS: No distinct trace fossils are visible.

BANDING CONTRAST: Moderate.

NOTE: The pyrite nodules may be burrow fills.



SITE 849 HOLE B CORE 32X CORED 293.6 - 303.2 mbsf



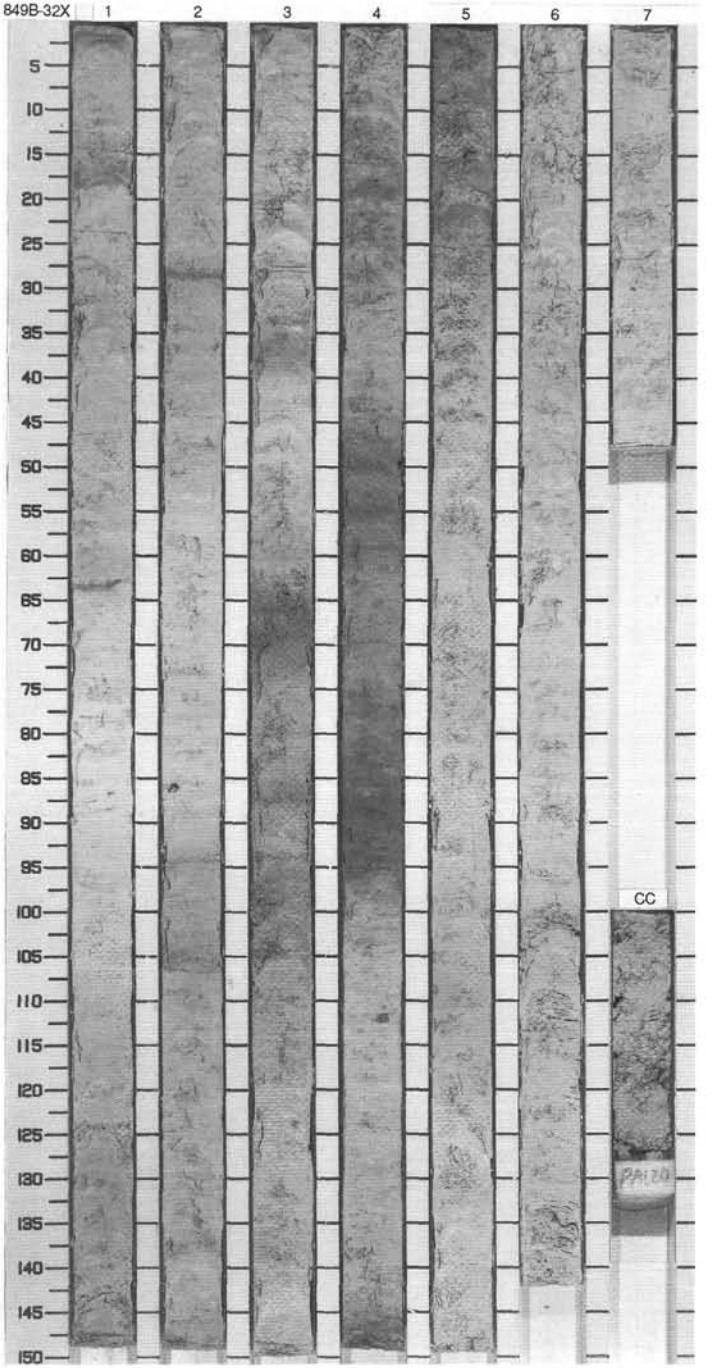
DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS

Major Lithology:
The dominant lithology of this core is gray DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS. Bioturbation is slight to non-existent. Light greenish gray (5BG 7/1) and gray (N5) diagenetic banding is usually associated with high susceptibility values. The high *susceptibility values in Sections 5 and 6* are not related to any visual change in color.

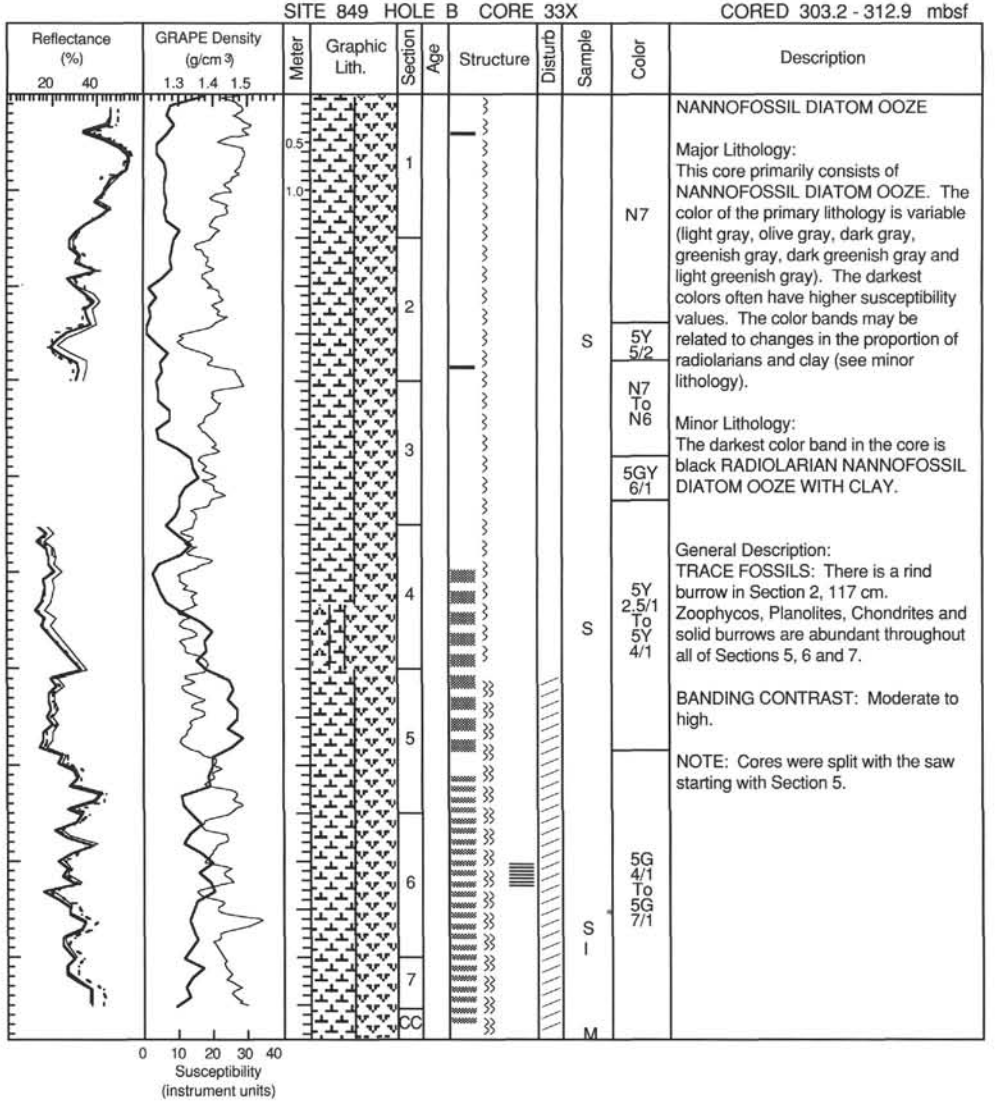
Minor Lithologies:
The gray (N5) bands are PYRITIC DIATOM NANNOFOSSIL OOZE. The gray (N6) bands are DIATOM RADIOLARIAN NANNOFOSSIL OOZE *with trace amounts of pyrite.*

General Description:
TRACE FOSSILS: No distinct trace fossils are visible.

BANDING CONTRAST: Moderate to high.



SITE 849 HOLE B CORE 33X CORED 303.2 - 312.9 mbsf



Description

NANNOFOSSIL DIATOM OOZE

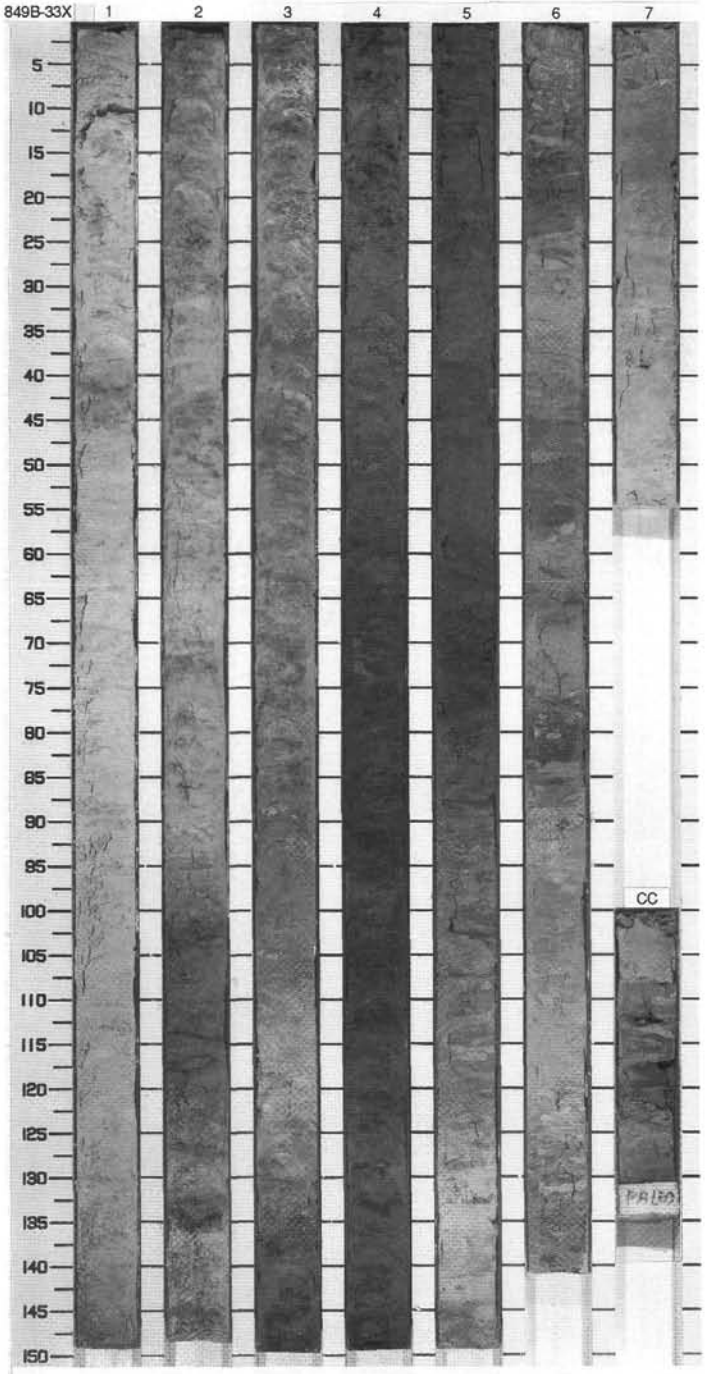
Major Lithology:
This core primarily consists of NANNOFOSSIL DIATOM OOZE. The color of the primary lithology is variable (light gray, olive gray, dark gray, greenish gray, dark greenish gray and light greenish gray). The darkest colors often have higher susceptibility values. The color bands may be related to changes in the proportion of radiolarians and clay (see minor lithology).

Minor Lithology:
The darkest color band in the core is black RADIOLARIAN NANNOFOSSIL DIATOM OOZE WITH CLAY.

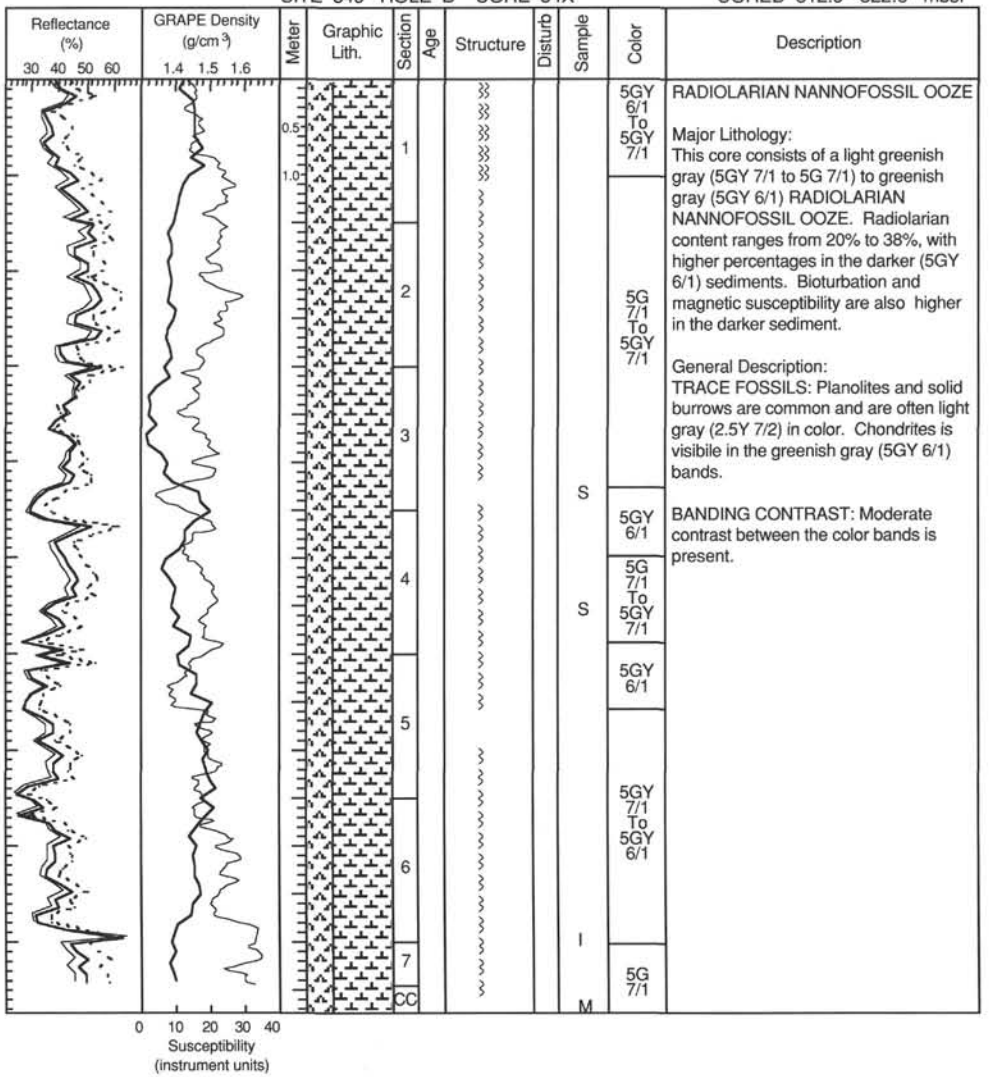
General Description:
TRACE FOSSILS: There is a rind burrow in Section 2, 117 cm. Zoophycos, Planolites, Chondrites and solid burrows are abundant throughout all of Sections 5, 6 and 7.

BANDING CONTRAST: Moderate to high.

NOTE: Cores were split with the saw starting with Section 5.



SITE 849 HOLE B CORE 34X CORED 312.9 - 322.6 mbsf



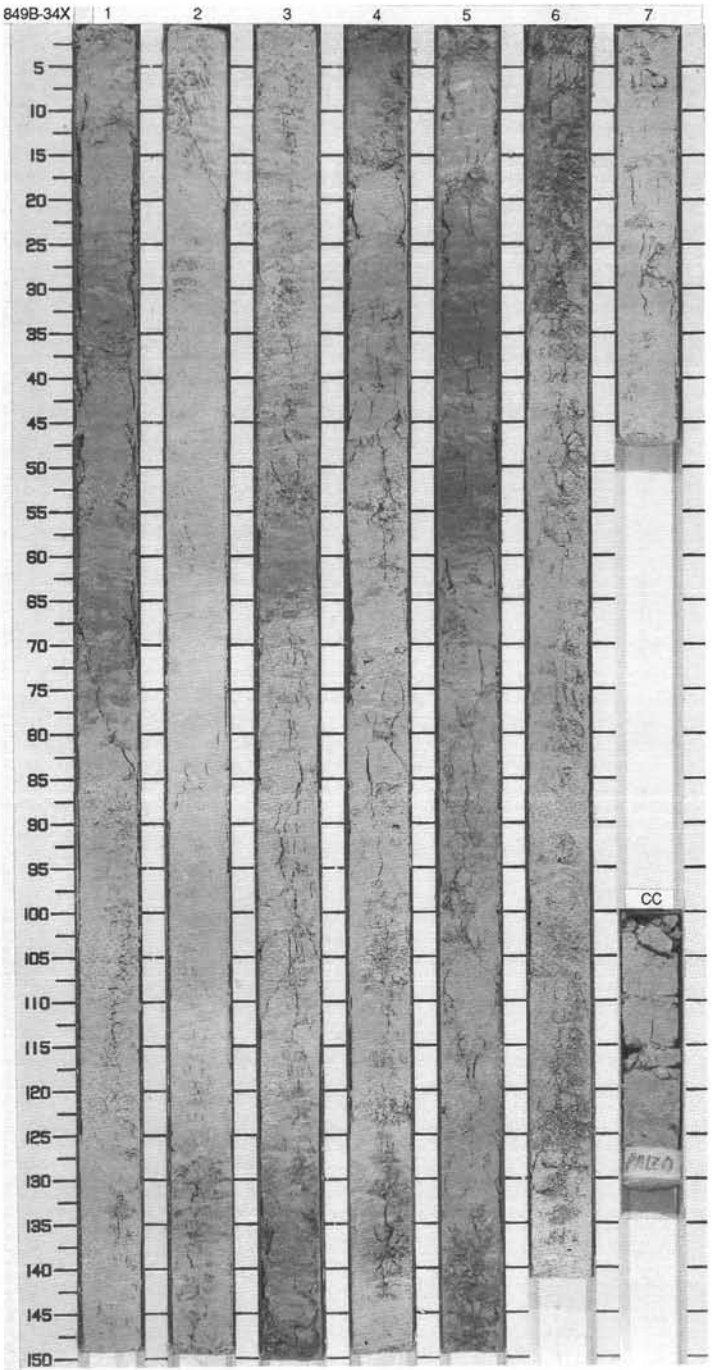
Description

RADIOLARIAN NANNOFOSSIL OOZE

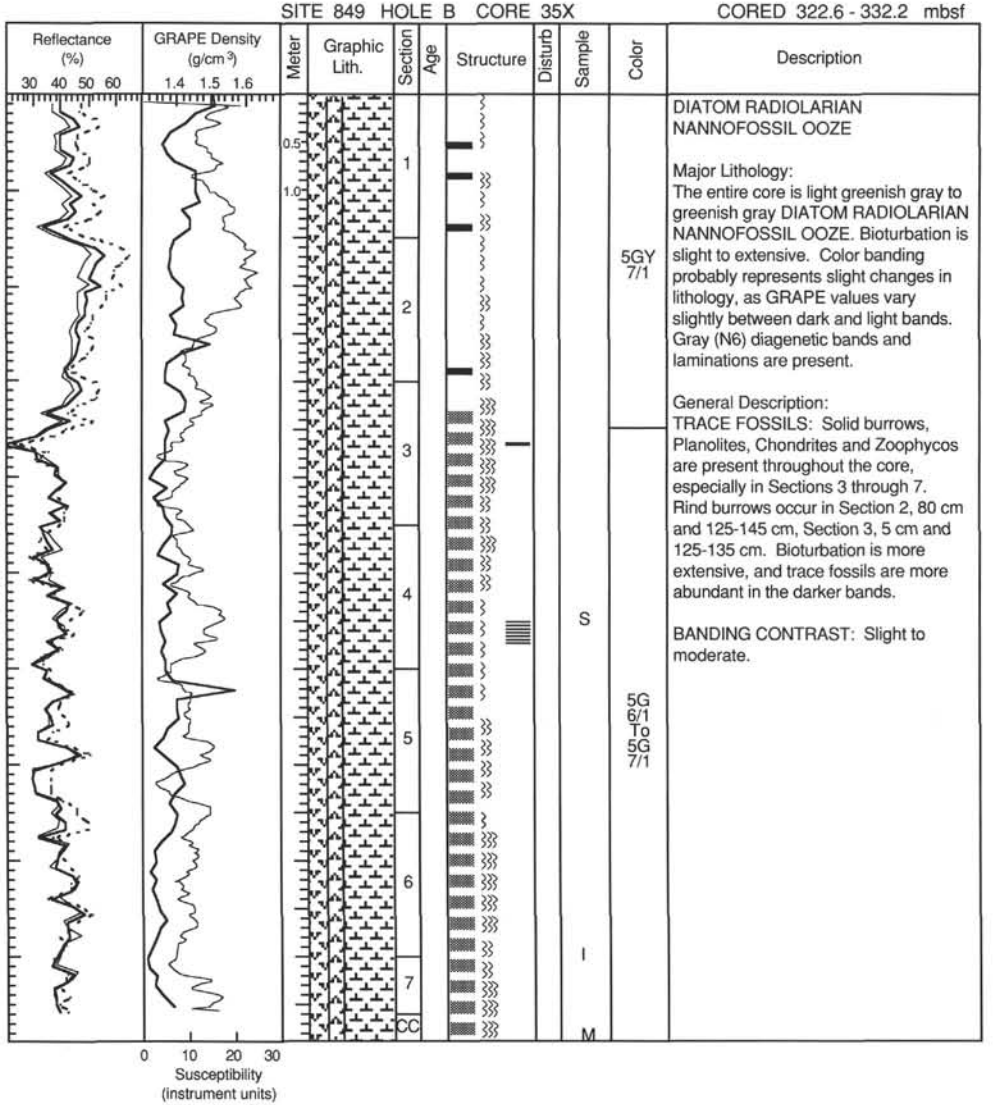
Major Lithology:
This core consists of a light greenish gray (5GY 7/1 to 5G 7/1) to greenish gray (5GY 6/1) RADIOLARIAN NANNOFOSSIL OOZE. Radiolarian content ranges from 20% to 38%, with higher percentages in the darker (5GY 6/1) sediments. Bioturbation and magnetic susceptibility are also higher in the darker sediment.

General Description:
TRACE FOSSILS: Planolites and solid burrows are common and are often light gray (2.5Y 7/2) in color. Chondrites is visibile in the greenish gray (5GY 6/1) bands.

BANDING CONTRAST: Moderate contrast between the color bands is present.



SITE 849 HOLE B CORE 35X CORED 322.6 - 332.2 mbsf



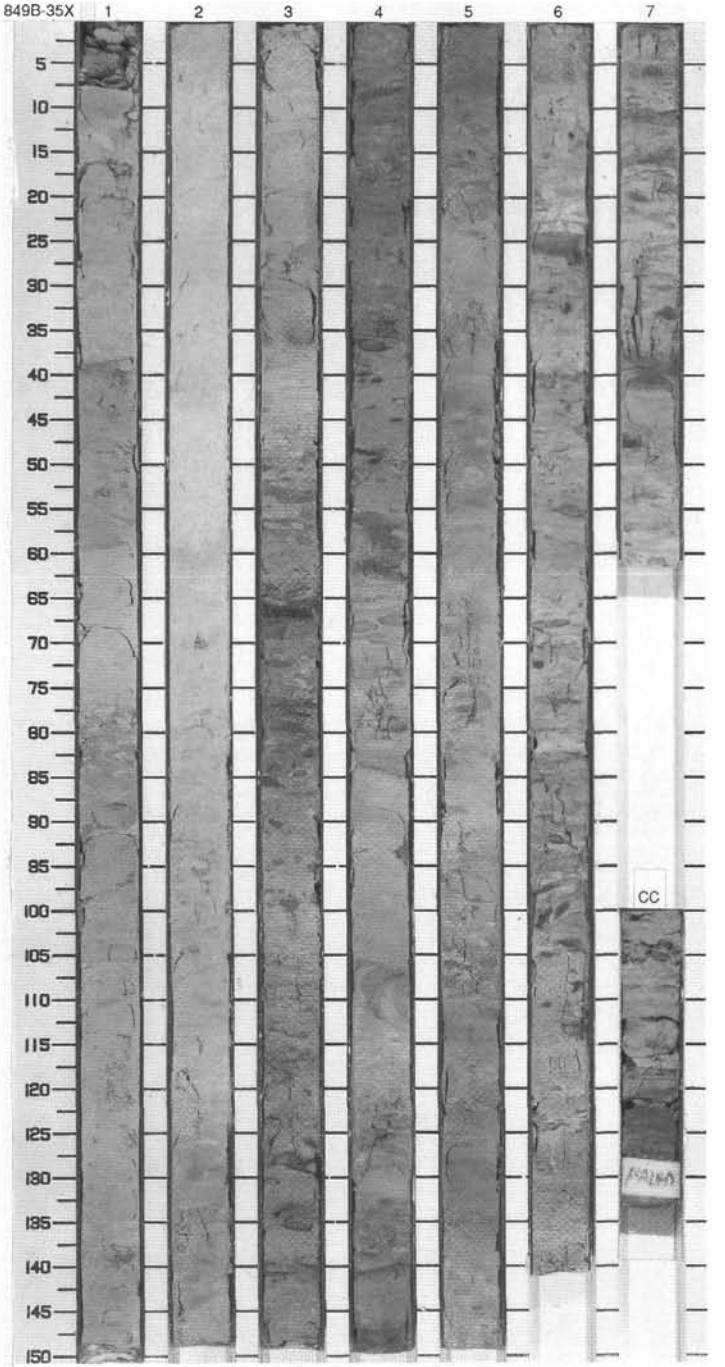
Description

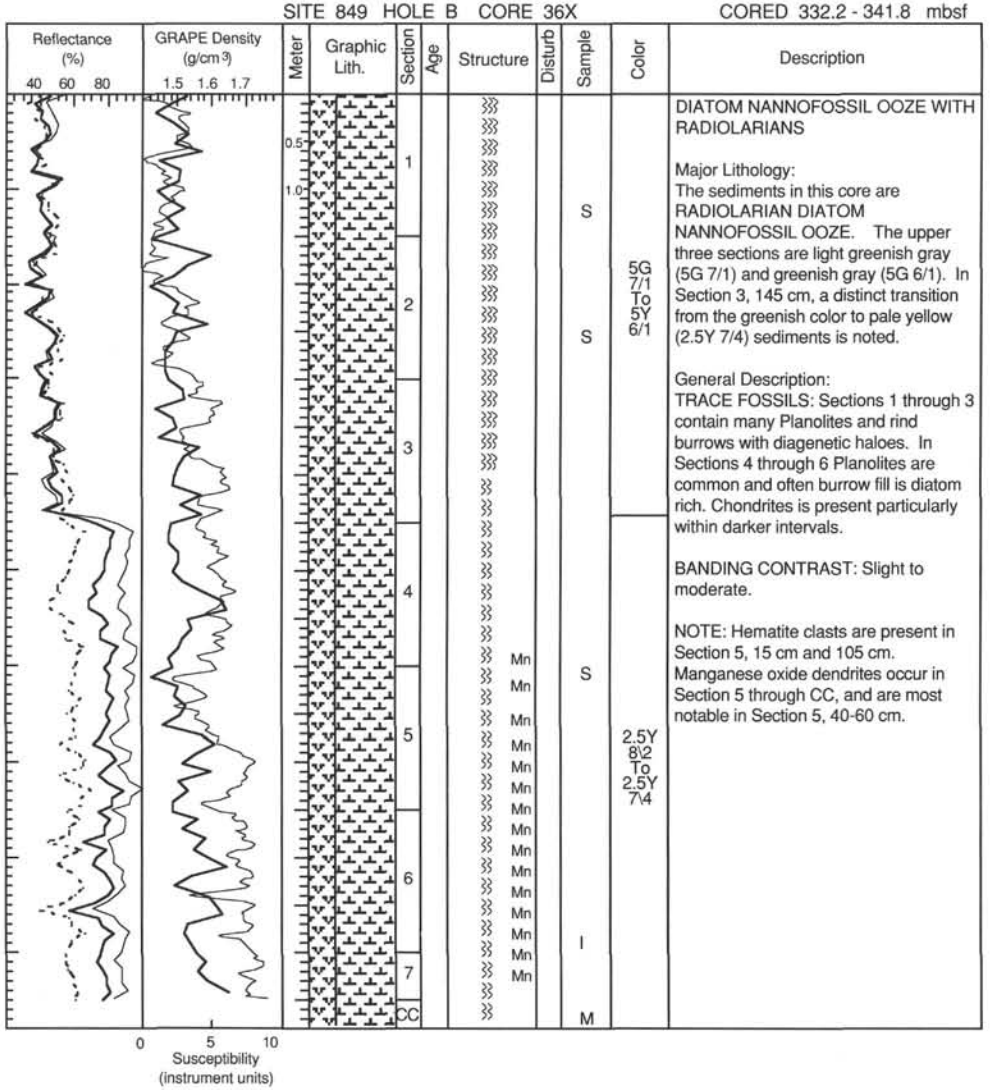
DIATOM RADIOLARIAN NANNOFOSSIL OOZE

Major Lithology:
The entire core is light greenish gray to greenish gray DIATOM RADIOLARIAN NANNOFOSSIL OOZE. Bioturbation is slight to extensive. Color banding probably represents slight changes in lithology, as GRAPE values vary slightly between dark and light bands. Gray (N6) diagenetic bands and laminations are present.

General Description:
TRACE FOSSILS: Solid burrows, Planolites, Chondrites and Zoophycos are present throughout the core, especially in Sections 3 through 7. Rind burrows occur in Section 2, 80 cm and 125-145 cm, Section 3, 5 cm and 125-135 cm. Bioturbation is more extensive, and trace fossils are more abundant in the darker bands.

BANDING CONTRAST: Slight to moderate.





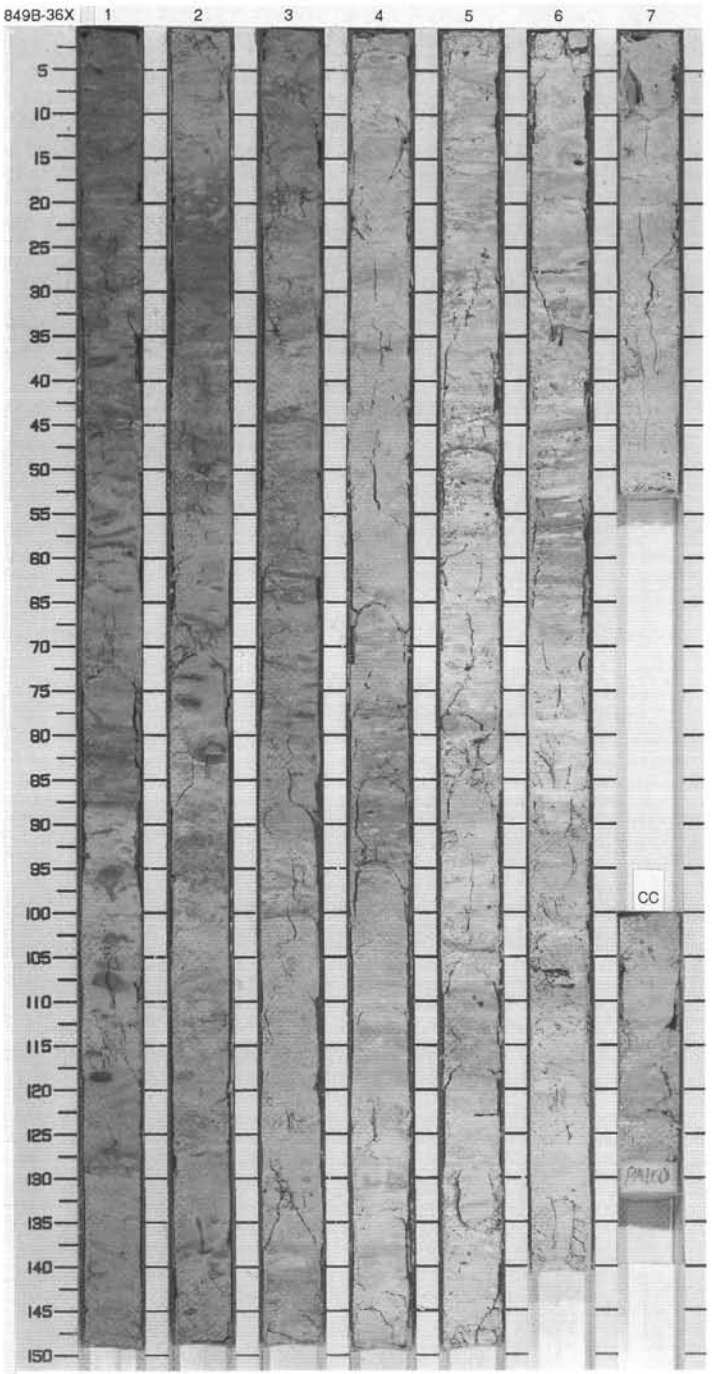
DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS

Major Lithology:
The sediments in this core are RADIOLARIAN DIATOM NANNOFOSSIL OOZE. The upper three sections are light greenish gray (5G 7/1) and greenish gray (5G 6/1). In Section 3, 145 cm, a distinct transition from the greenish color to pale yellow (2.5Y 7/4) sediments is noted.

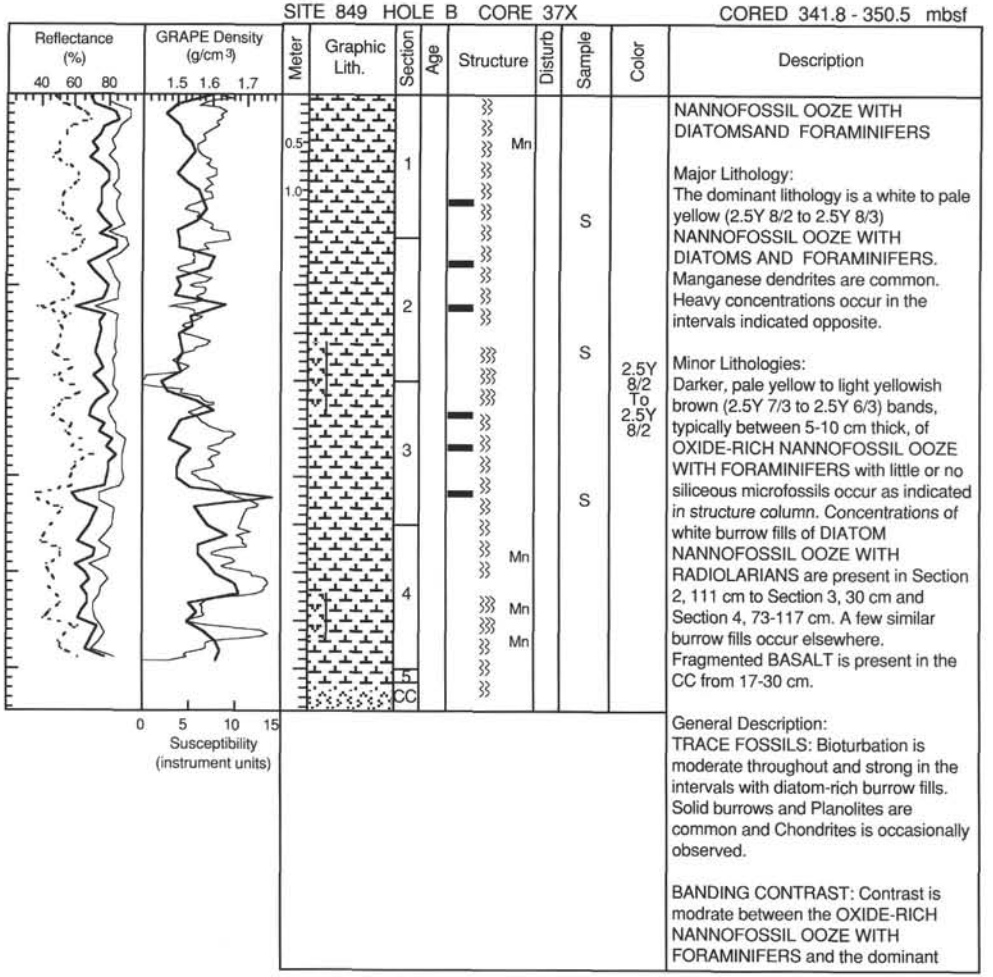
General Description:
TRACE FOSSILS: Sections 1 through 3 contain many Planolites and rind burrows with diagenetic haloes. In Sections 4 through 6 Planolites are common and often burrow fill is diatom rich. Chondrites is present particularly within darker intervals.

BANDING CONTRAST: Slight to moderate.

NOTE: Hematite clasts are present in Section 5, 15 cm and 105 cm. Manganese oxide dendrites occur in Section 5 through CC, and are most notable in Section 5, 40-60 cm.



SITE 849 HOLE B CORE 37X CORED 341.8 - 350.5 mbsf



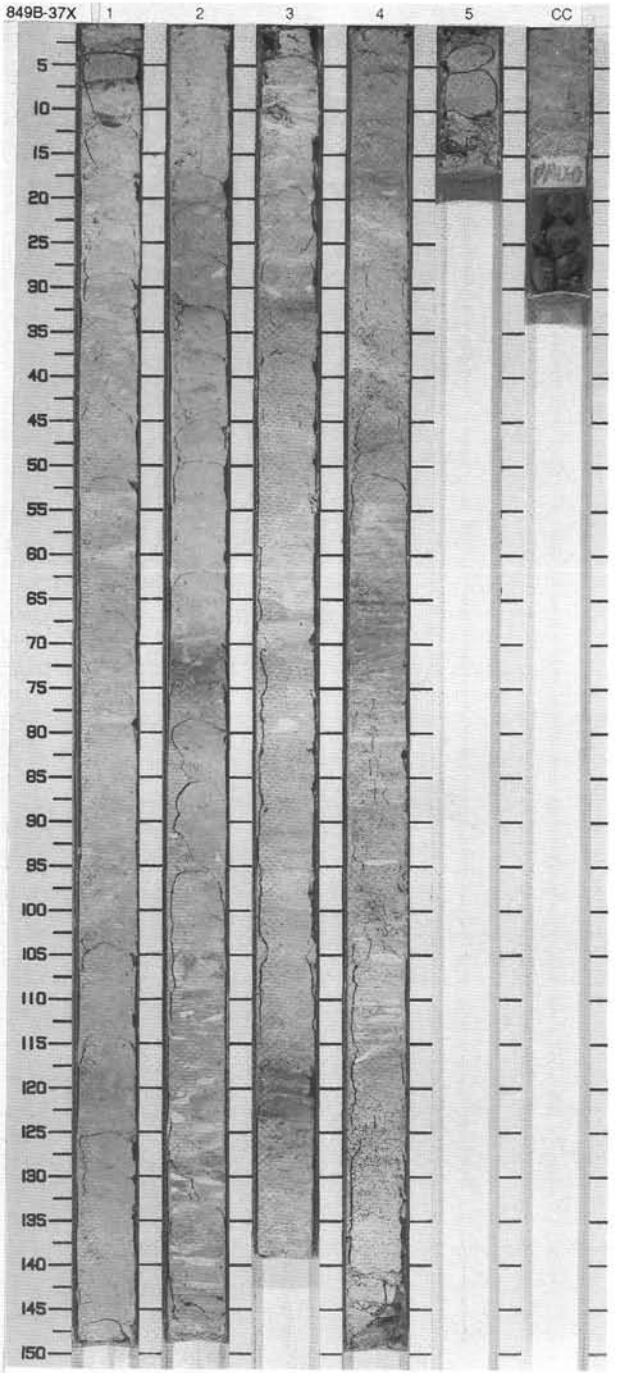
NANNOFOSSIL OOZE WITH DIATOMSAND FORAMINIFERS

Major Lithology:
The dominant lithology is a white to pale yellow (2.5Y 8/2 to 2.5Y 8/3) NANNOFOSSIL OOZE WITH DIATOMS AND FORAMINIFERS. Manganese dendrites are common. Heavy concentrations occur in the intervals indicated opposite.

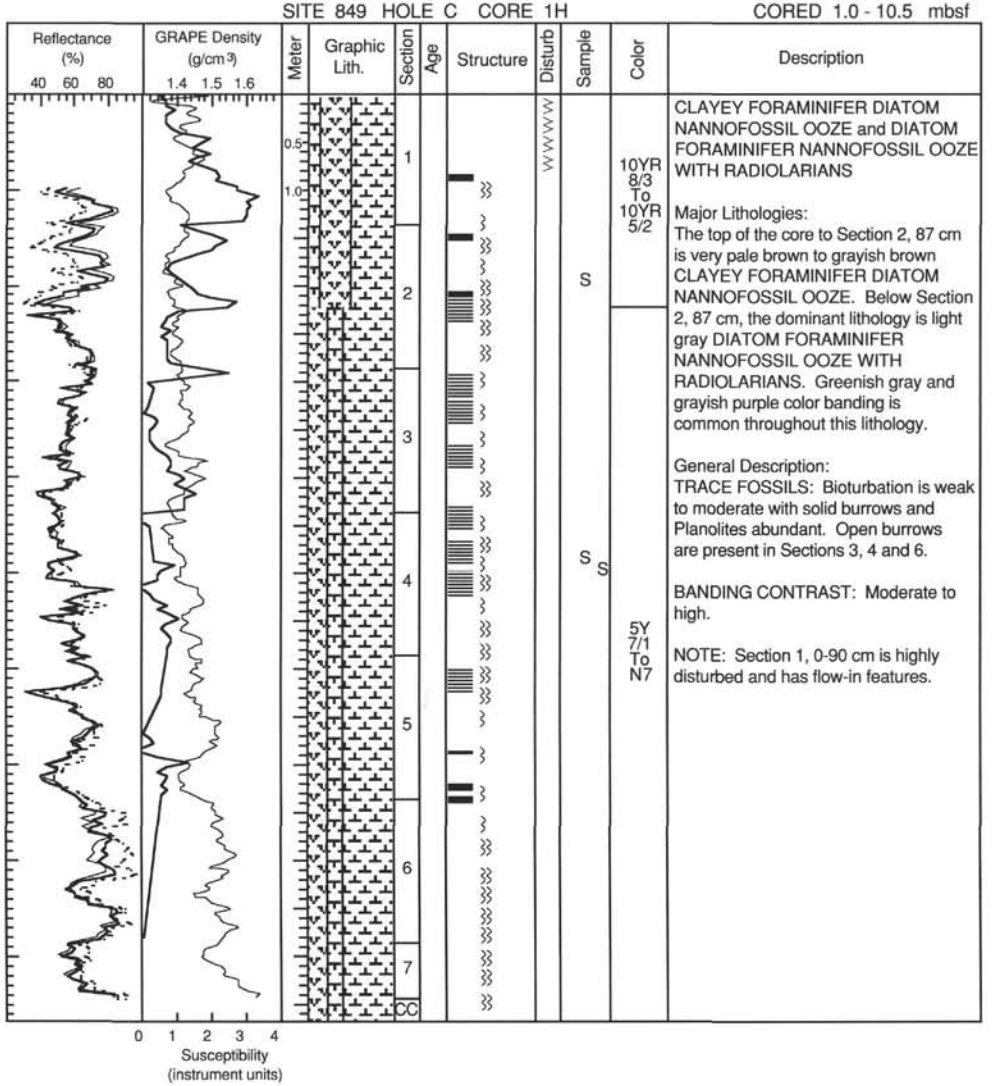
Minor Lithologies:
Darker, pale yellow to light yellowish brown (2.5Y 7/3 to 2.5Y 6/3) bands, typically between 5-10 cm thick, of OXIDE-RICH NANNOFOSSIL OOZE WITH FORAMINIFERS with little or no siliceous microfossils occur as indicated *in structure column*. Concentrations of white burrow fills of DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS are present in Section 2, 111 cm to Section 3, 30 cm and Section 4, 73-117 cm. A few similar burrow fills occur elsewhere. Fragmented BASALT is present in the CC from 17-30 cm.

General Description:
TRACE FOSSILS: Bioturbation is moderate throughout and strong in the intervals with diatom-rich burrow fills. Solid burrows and Planolites are common and Chondrites is occasionally observed.

BANDING CONTRAST: Contrast is modrate between the OXIDE-RICH NANNOFOSSIL OOZE WITH FORAMINIFERS and the dominant



SITE 849 HOLE C CORE 1H CORED 1.0 - 10.5 mbsf



Description

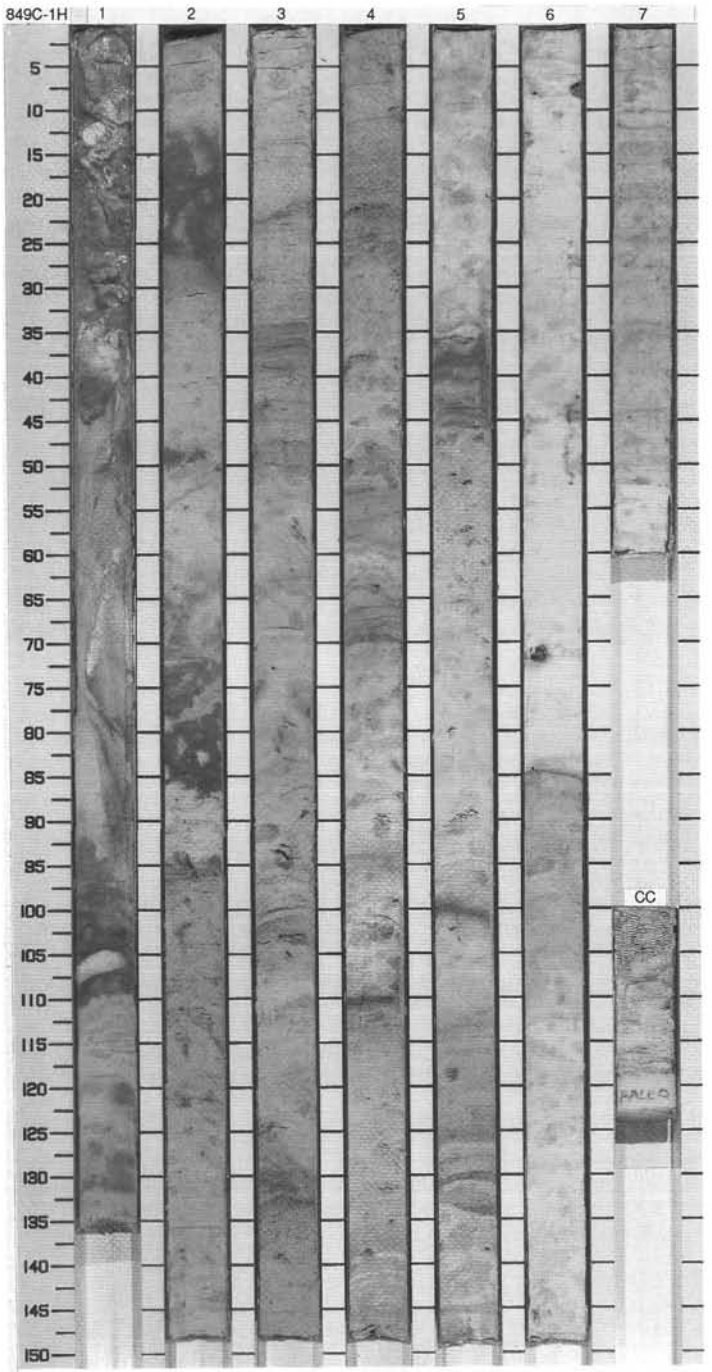
CLAYEY FORAMINIFER DIATOM NANNOFOSSIL OOZE and DIATOM FORAMINIFER NANNOFOSSIL OOZE WITH RADIOLARIANS

Major Lithologies:
The top of the core to Section 2, 87 cm is very pale brown to grayish brown CLAYEY FORAMINIFER DIATOM NANNOFOSSIL OOZE. Below Section 2, 87 cm, the dominant lithology is light gray DIATOM FORAMINIFER NANNOFOSSIL OOZE WITH RADIOLARIANS. Greenish gray and grayish purple color banding is common throughout this lithology.

General Description:
TRACE FOSSILS: Bioturbation is weak to moderate with solid burrows and Planolites abundant. Open burrows are present in Sections 3, 4 and 6.

BANDING CONTRAST: Moderate to high.

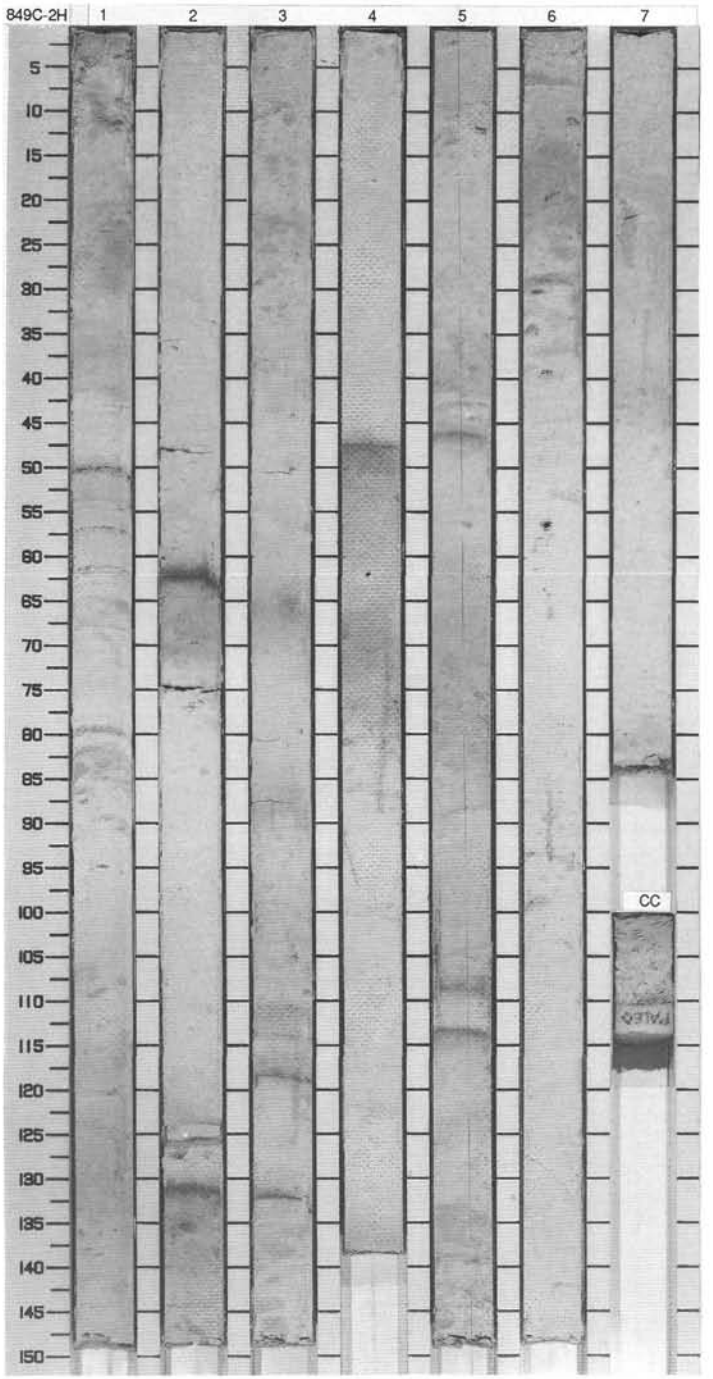
NOTE: Section 1, 0-90 cm is highly disturbed and has flow-in features.



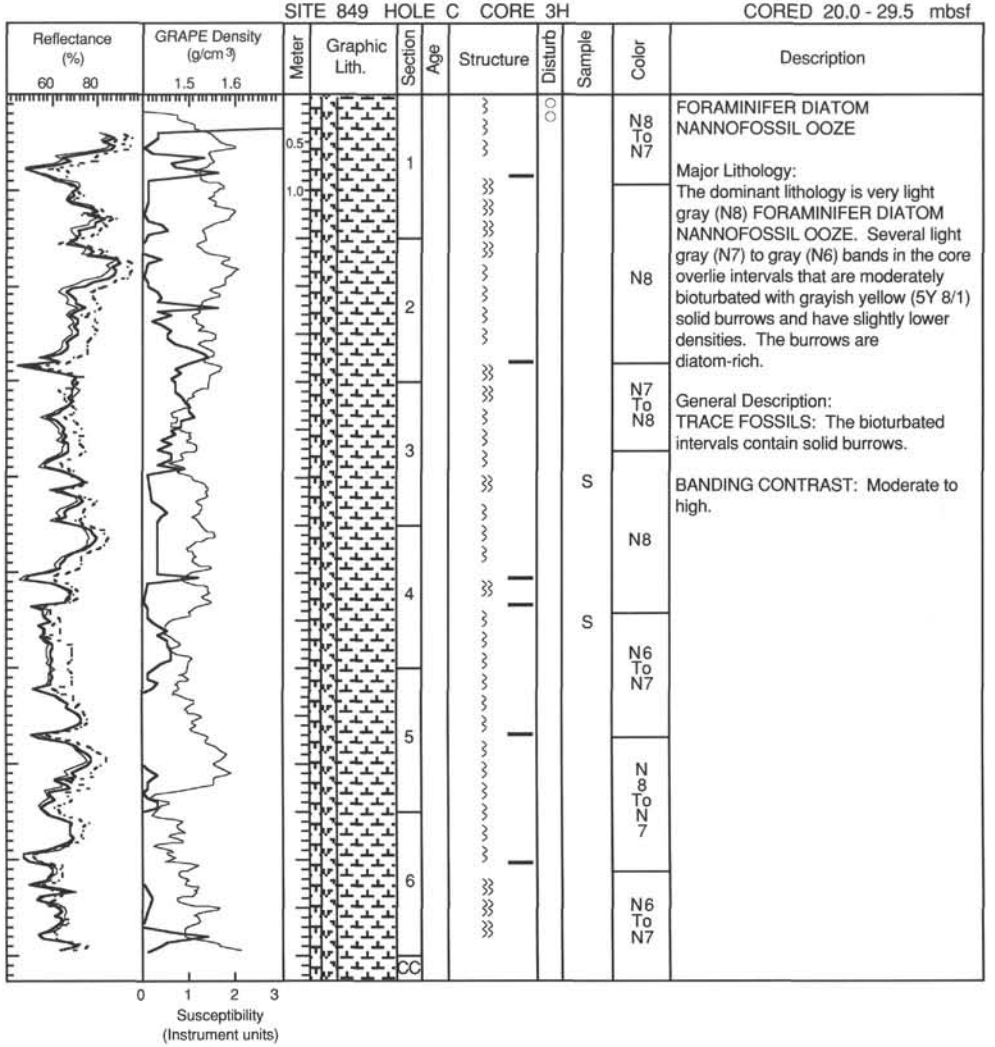
SITE 849 HOLE C CORE 2H CORED 10.5 - 20.0 mbsf

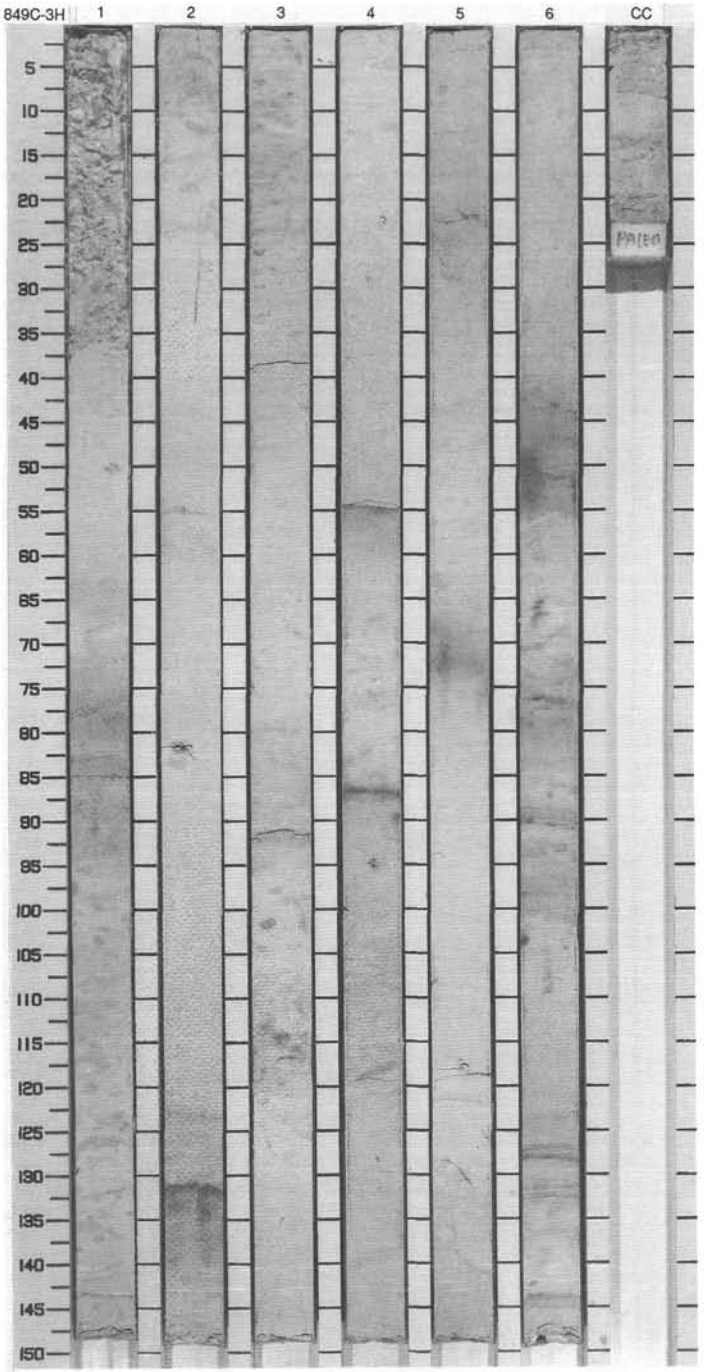
Reflectance (%) 60 80	GRAPE Density (g/cm³) 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1				S	N8	FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS Major Lithology: The dominant lithology is a very light gray (N8) FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS. Minor Lithology: There are concentrations of burrow fills (marked by the strong bioturbation symbol opposite) in which the lithology is a light gray (5Y 7/1) DIATOM FORAMINIFER NANNOFOSSIL OOZE General Description: TRACE FOSSILS: Bioturbation is not evident other than in zones of light gray burrow fill (as marked opposite), where solid burrows and Planolites , and Skolithos burrows are observed. Open burrows and some pyrite-filled burrows are also present. BANDING CONTRAST: Contrast is very faint between the light gray burrow-fill zones and the dominant lithology. Dark blue thin bands and some green laminations are present throughout.
				2						
				3						
				4						
				5				S		
				6				S		
				7						
				CC						

0 1 2
Susceptibility (10^{-5}SI)

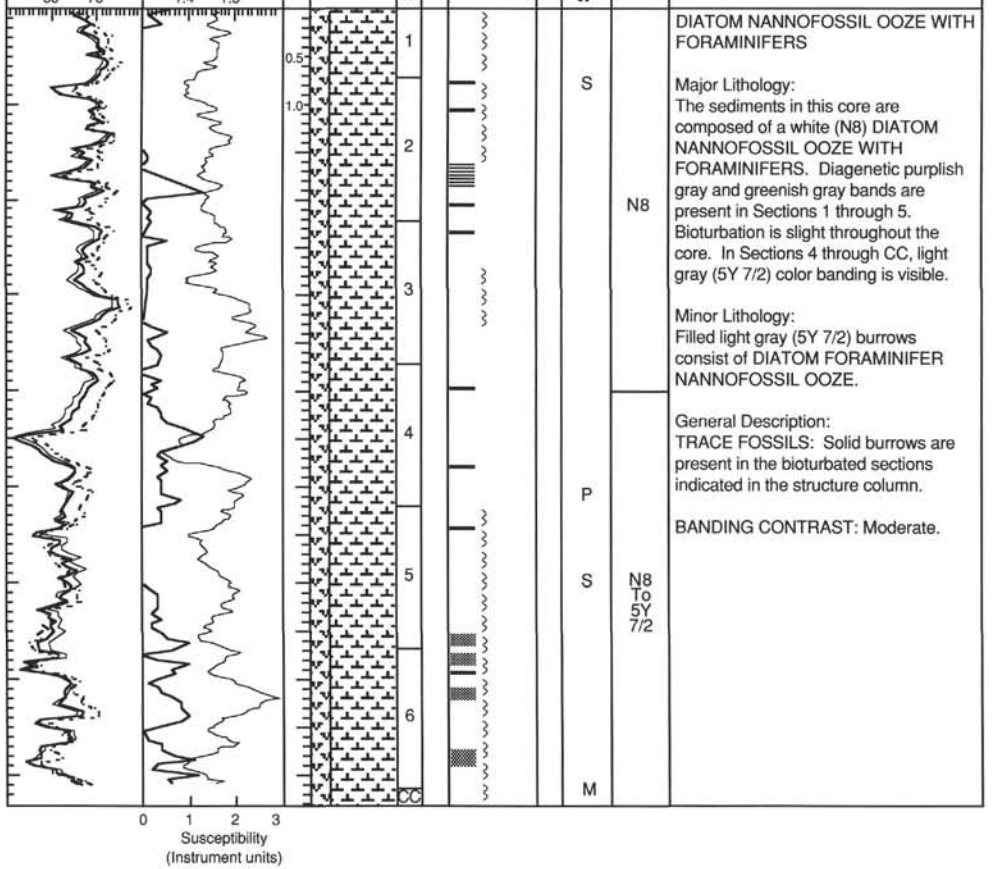


SITE 849 HOLE C CORE 3H CORED 20.0 - 29.5 mbsf





SITE 849 HOLE C CORE 4H CORED 29.5 - 39.0 mbsf



Description

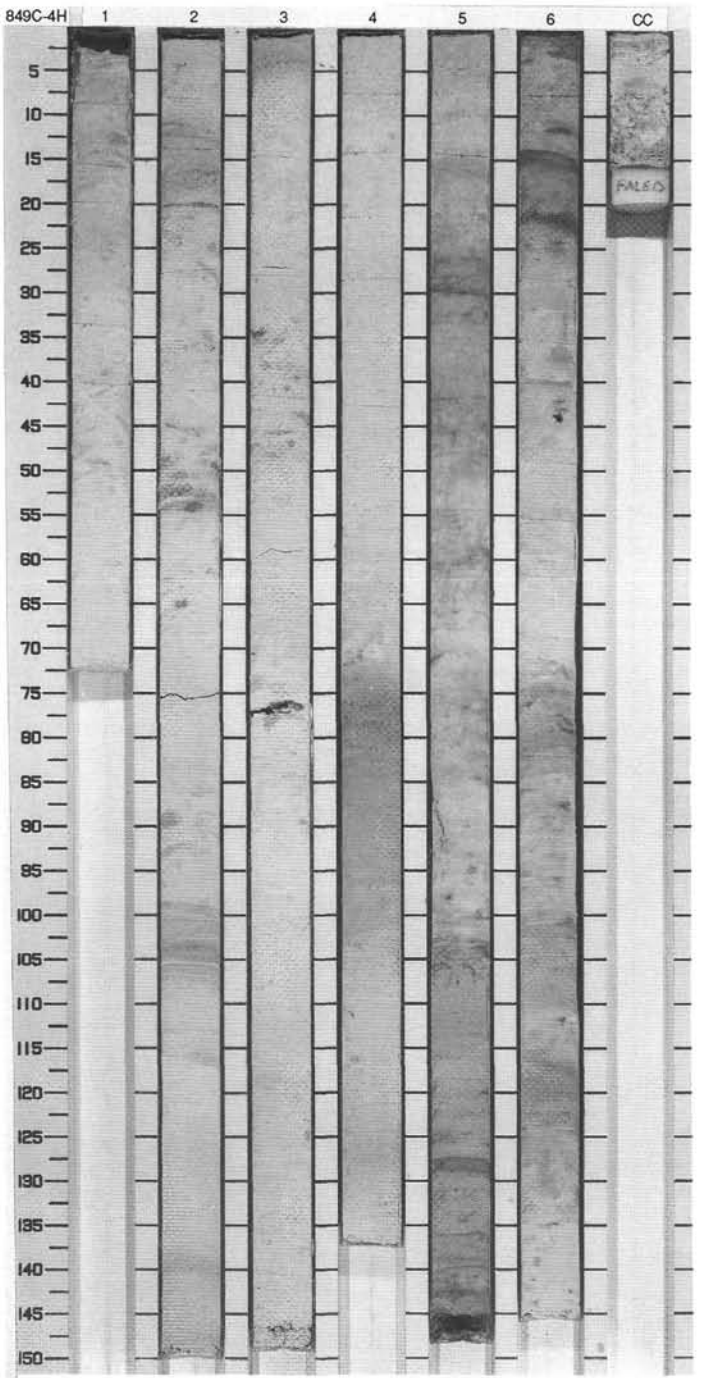
DIATOM NANNOFOSSIL OOZE WITH FORAMINIFERS

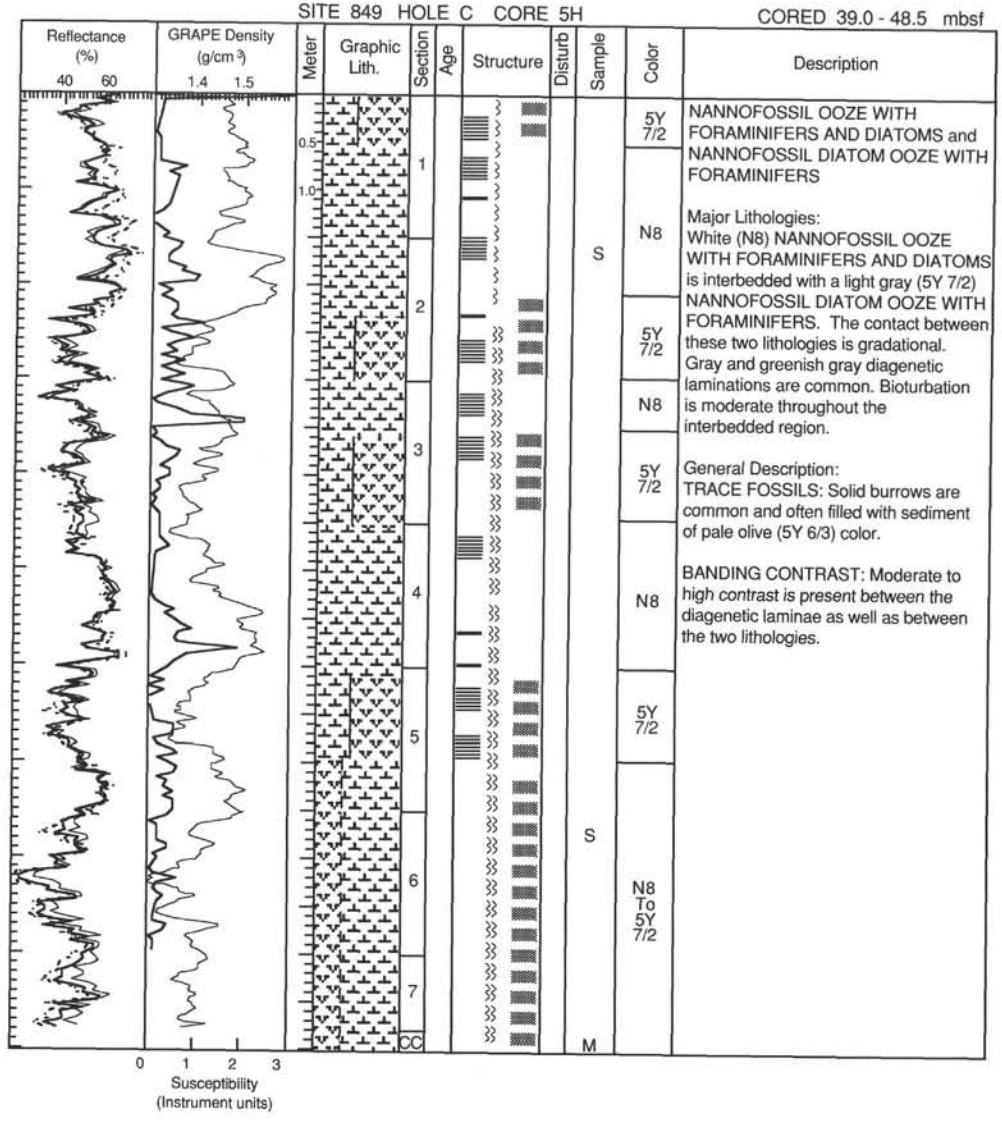
Major Lithology:
The sediments in this core are composed of a white (N8) DIATOM NANNOFOSSIL OOZE WITH FORAMINIFERS. Diagenetic purplish gray and greenish gray bands are present in Sections 1 through 5. Bioturbation is slight throughout the core. In Sections 4 through CC, light gray (5Y 7/2) color banding is visible.

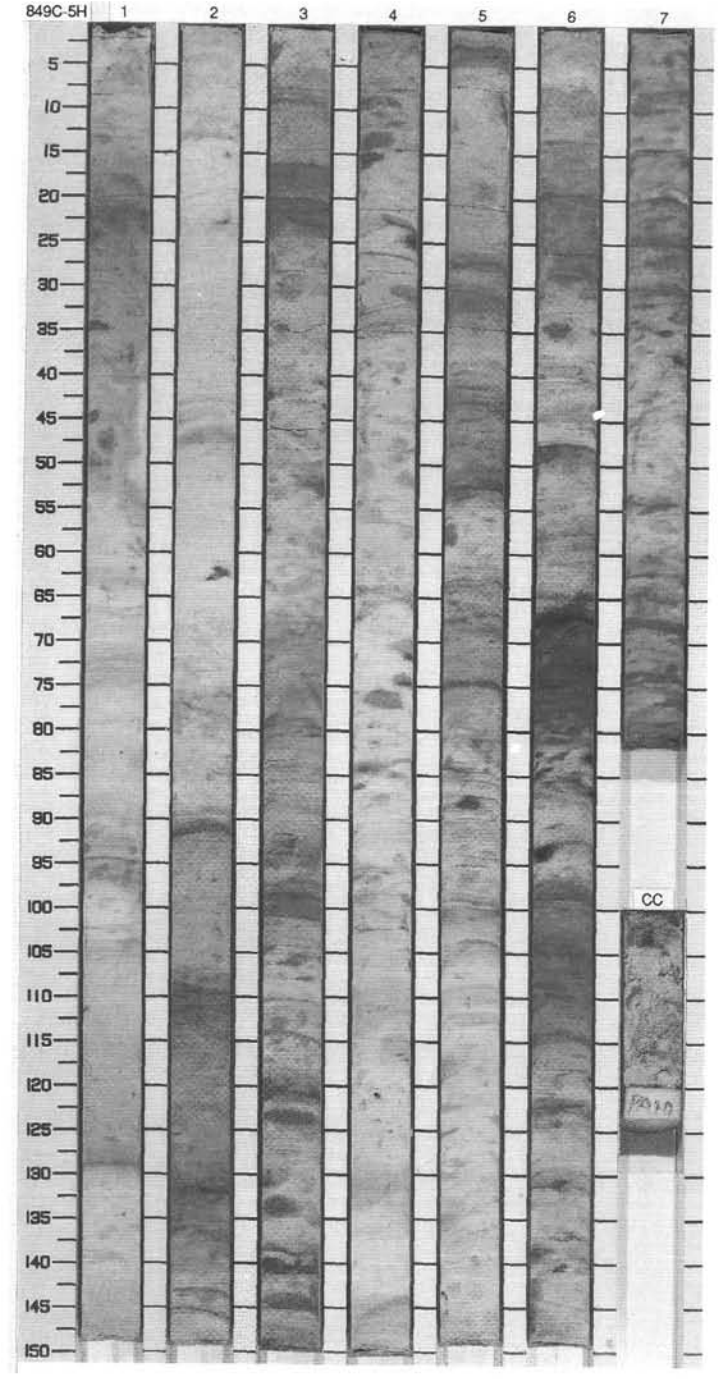
Minor Lithology:
Filled light gray (5Y 7/2) burrows consist of DIATOM FORAMINIFER NANNOFOSSIL OOZE.

General Description:
TRACE FOSSILS: Solid burrows are present in the bioturbated sections indicated in the structure column.

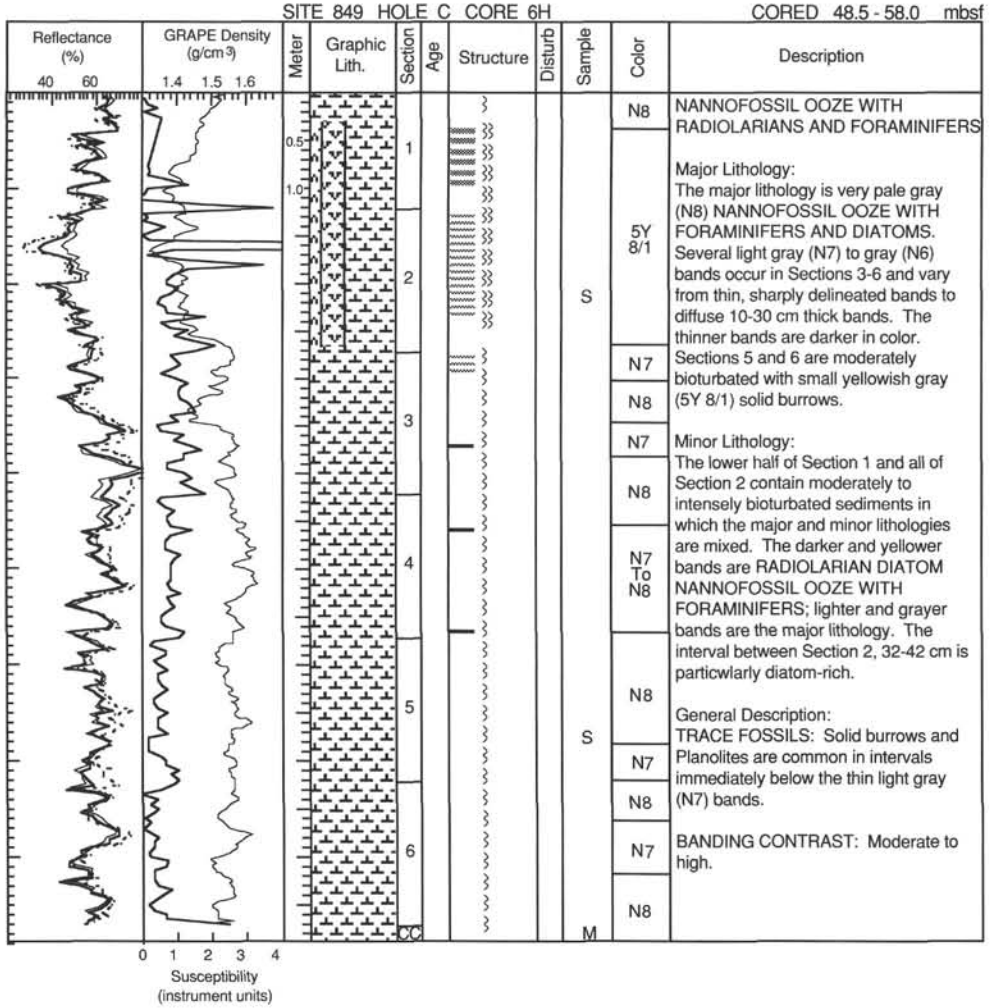
BANDING CONTRAST: Moderate.



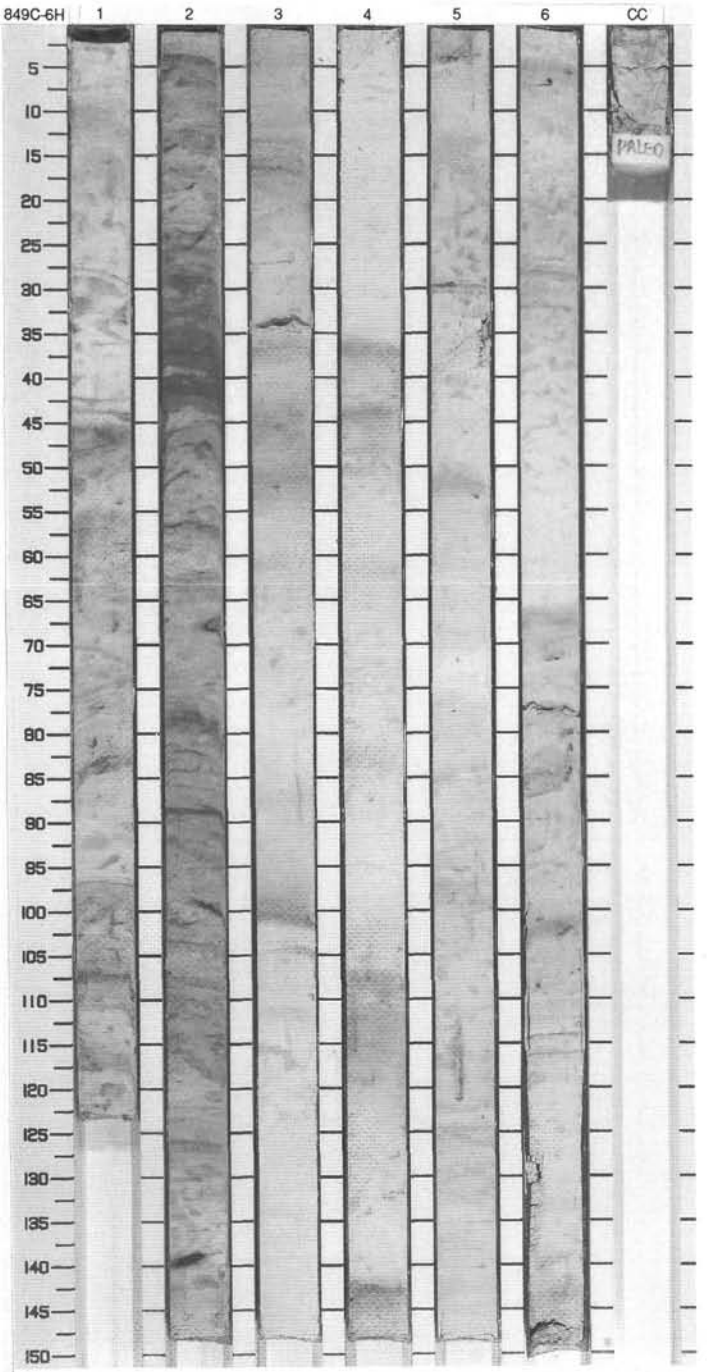

SITE 849 HOLE C CORE 5H
CORED 39.0 - 48.5 mbsf
Reflectance (%)
40 60
GRAPE Density (g/cm³)
1.4 1.5
Meter
Graphic Lith.
Section
Age
Structure
Disturb
Sample
Color
Description
0.5
1.0
1
2
3
4
5
6
7
CC
S
S
M
5Y 7/2
N8
5Y 7/2
N8
5Y 7/2
N8
5Y 7/2
N8 To 5Y 7/2
NANNOFOSSIL OOZE WITH FORAMINIFERS AND DIATOMS and NANNOFOSSIL DIATOM OOZE WITH FORAMINIFERS
Major Lithologies:
White (N8) NANNOFOSSIL OOZE WITH FORAMINIFERS AND DIATOMS is interbedded with a light gray (5Y 7/2) NANNOFOSSIL DIATOM OOZE WITH FORAMINIFERS. The contact between these two lithologies is gradational. Gray and greenish gray diagenetic laminations are common. Bioturbation is moderate throughout the interbedded region.
General Description:
TRACE FOSSILS: Solid burrows are common and often filled with sediment of pale olive (5Y 6/3) color.
BANDING CONTRAST: Moderate to high contrast is present between the diagenetic laminae as well as between the two lithologies.
0 1 2 3
Susceptibility (Instrument units)


849C-5H
1
2
3
4
5
6
7
CC

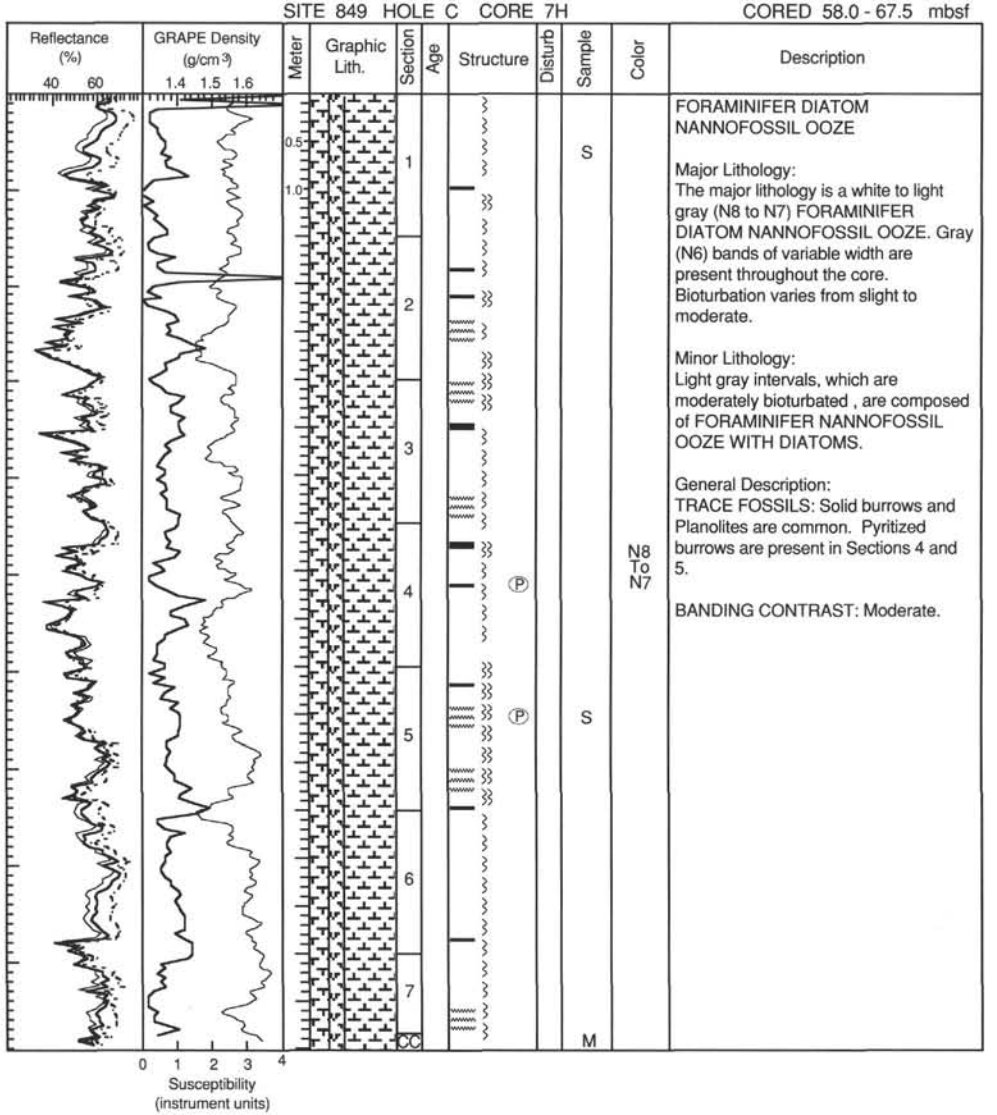
SITE 849 HOLE C CORE 6H CORED 48.5 - 58.0 mbsf



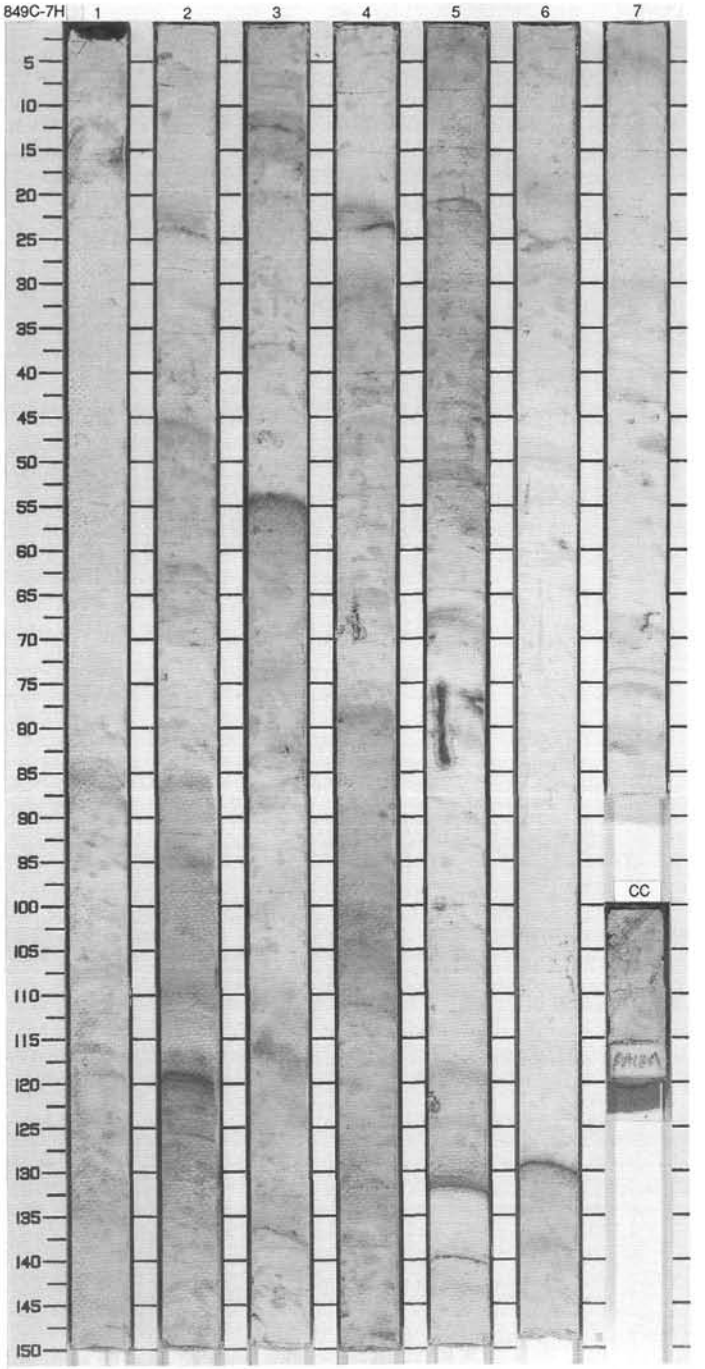
Color	Description
N8	NANNOFOSSIL OOZE WITH RADIOLARIANS AND FORAMINIFERS Major Lithology: The major lithology is very pale gray (N8) NANNOFOSSIL OOZE WITH FORAMINIFERS AND DIATOMS. Several light gray (N7) to gray (N6) bands occur in Sections 3-6 and vary from thin, sharply delineated bands to diffuse 10-30 cm thick bands. The thinner bands are darker in color. Sections 5 and 6 are moderately bioturbated with small yellowish gray (5Y 8/1) solid burrows. Minor Lithology: The lower half of Section 1 and all of Section 2 contain moderately to intensely bioturbated sediments in which the major and minor lithologies are mixed. The darker and yellower bands are RADIOLARIAN DIATOM NANNOFOSSIL OOZE WITH FORAMINIFERS; lighter and grayer bands are the major lithology. The interval between Section 2, 32-42 cm is particwlarly diatom-rich. General Description: TRACE FOSSILS: Solid burrows and Planolites are common in intervals immediately below the thin light gray (N7) bands. BANDING CONTRAST: Moderate to high.
5Y 8/1	
N7	
N8	
N7	
N8	
N7 To N8	
N8	
N7	
N8	
N7	
N8	



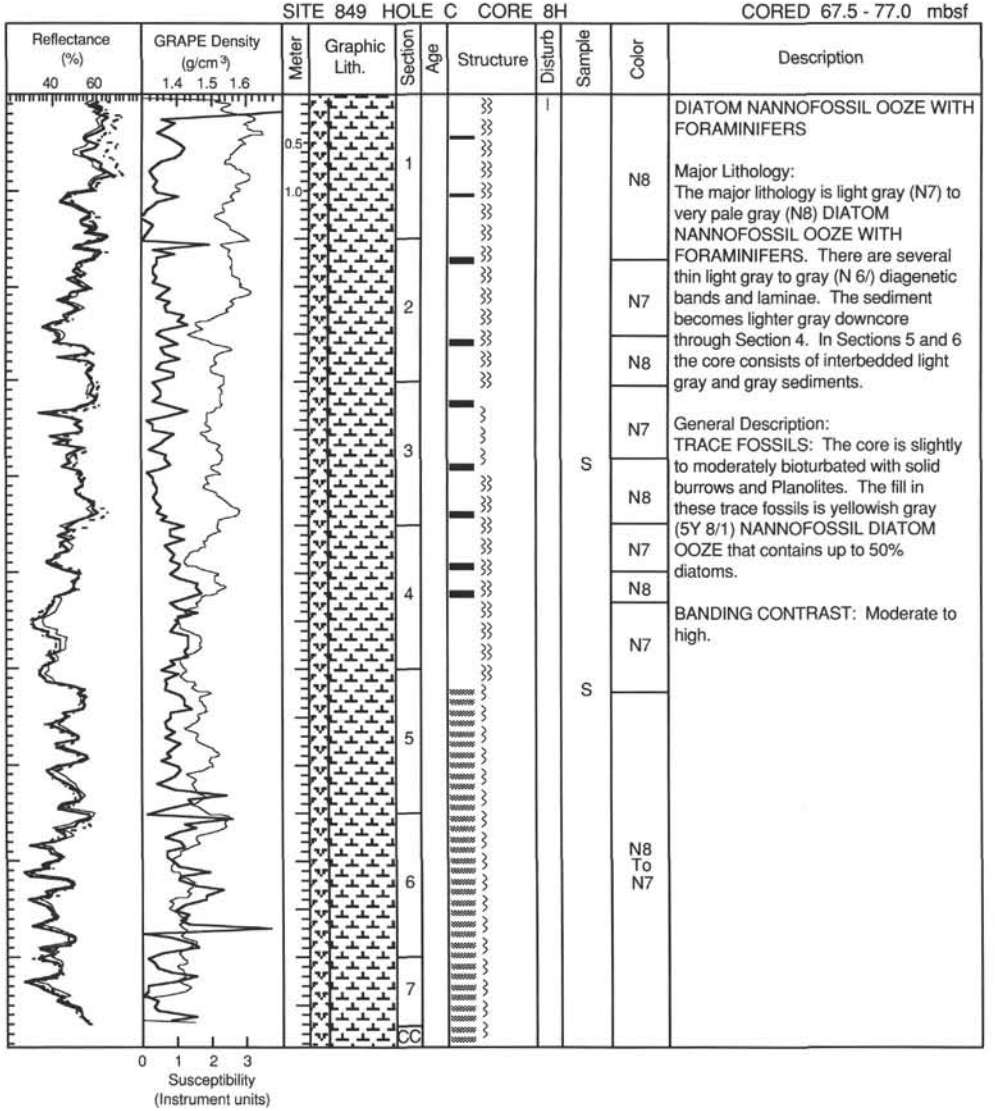
SITE 849 HOLE C CORE 7H CORED 58.0 - 67.5 mbsf



Description
FORAMINIFER DIATOM NANNOFOSSIL OOZE Major Lithology: The major lithology is a white to light gray (N8 to N7) FORAMINIFER DIATOM NANNOFOSSIL OOZE. Gray (N6) bands of variable width are present throughout the core. Bioturbation varies from slight to moderate. Minor Lithology: Light gray intervals, which are moderately bioturbated , are composed of FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS. General Description: TRACE FOSSILS: Solid burrows and Planolites are common. Pyritized burrows are present in Sections 4 and 5. BANDING CONTRAST: Moderate.



SITE 849 HOLE C CORE 8H CORED 67.5 - 77.0 mbsf

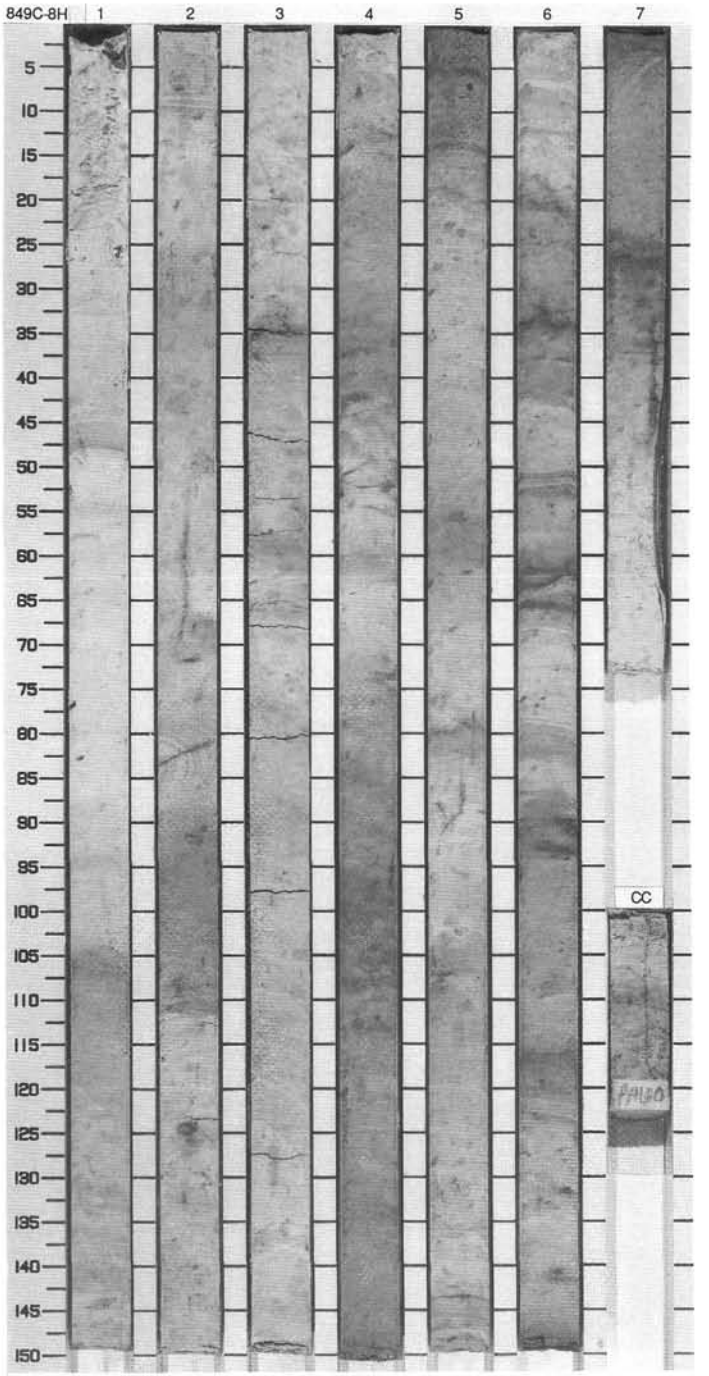


DIATOM NANNOFOSSIL OOZE WITH FORAMINIFERS

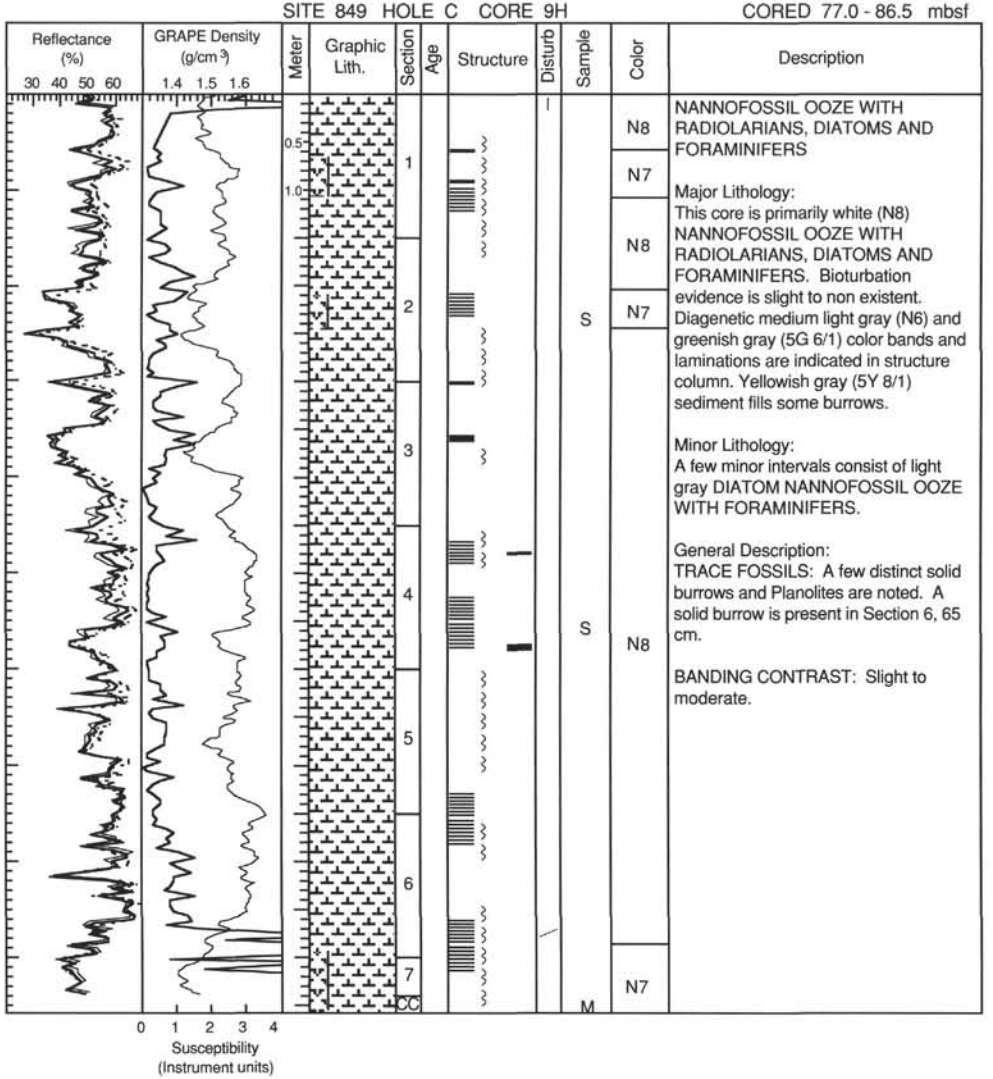
Major Lithology:
The major lithology is light gray (N7) to very pale gray (N8) DIATOM NANNOFOSSIL OOZE WITH FORAMINIFERS. There are several thin light gray to gray (N 6/) diagenetic bands and laminae. The sediment becomes lighter gray downcore through Section 4. In Sections 5 and 6 the core consists of interbedded light gray and gray sediments.

General Description:
TRACE FOSSILS: The core is slightly to moderately bioturbated with solid burrows and Planolites. The fill in these trace fossils is yellowish gray (5Y 8/1) NANNOFOSSIL DIATOM OOZE that contains up to 50% diatoms.

BANDING CONTRAST: Moderate to high.



SITE 849 HOLE C CORE 9H CORED 77.0 - 86.5 mbsf



Description

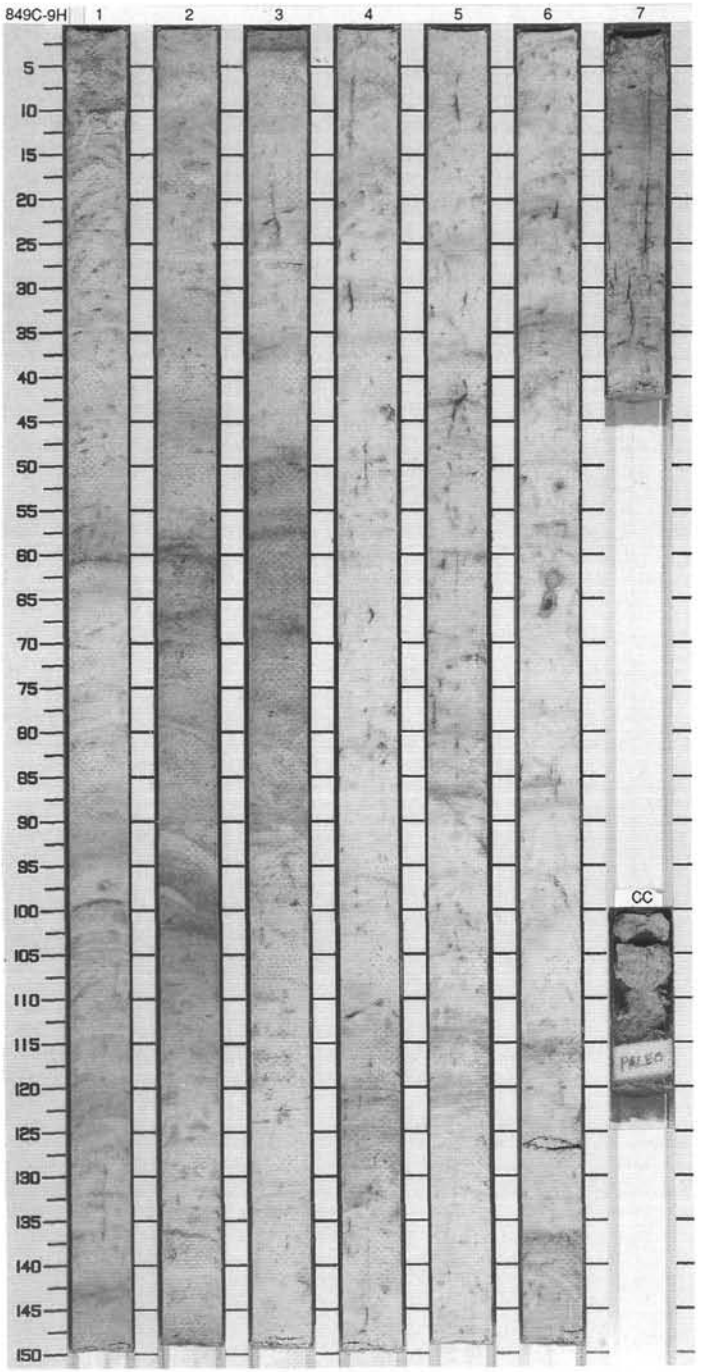
NANNOFOSSIL OOZE WITH RADIOLARIANS, DIATOMS AND FORAMINIFERS

Major Lithology:
This core is primarily white (N8) NANNOFOSSIL OOZE WITH RADIOLARIANS, DIATOMS AND FORAMINIFERS. Bioturbation evidence is slight to non existent. Diagenetic medium light gray (N6) and greenish gray (5G 6/1) color bands and laminations are indicated in structure column. Yellowish gray (5Y 8/1) sediment fills some burrows.

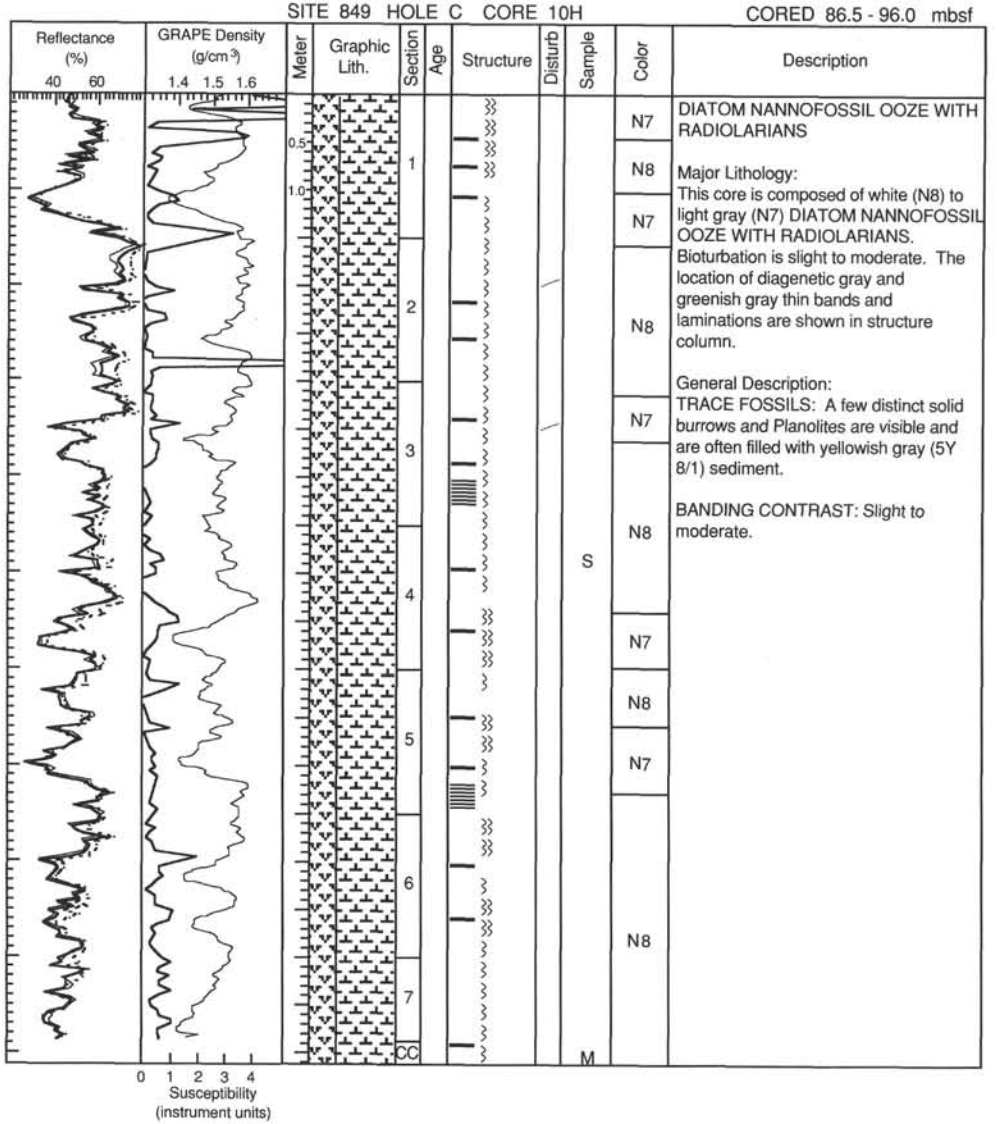
Minor Lithology:
A few minor intervals consist of light gray DIATOM NANNOFOSSIL OOZE WITH FORAMINIFERS.

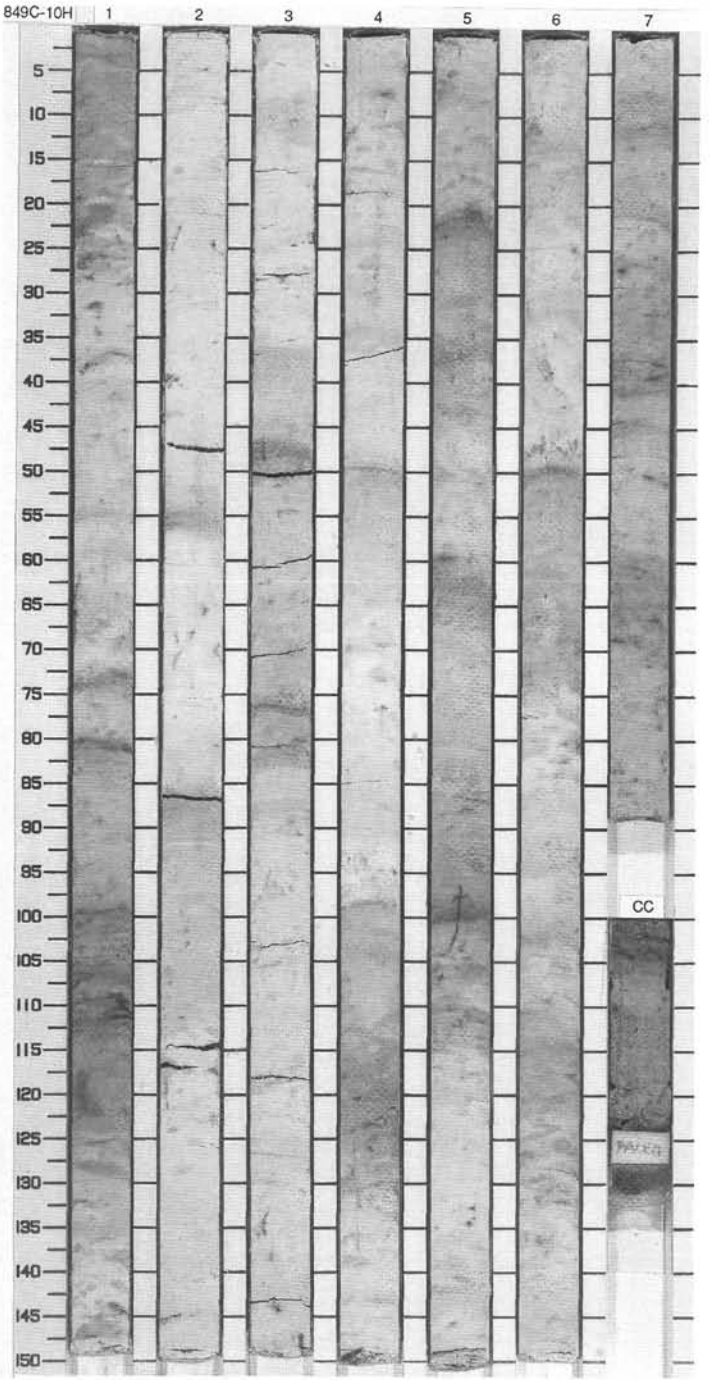
General Description:
TRACE FOSSILS: A few distinct solid burrows and Planolites are noted. A solid burrow is present in Section 6, 65 cm.

BANDING CONTRAST: Slight to moderate.

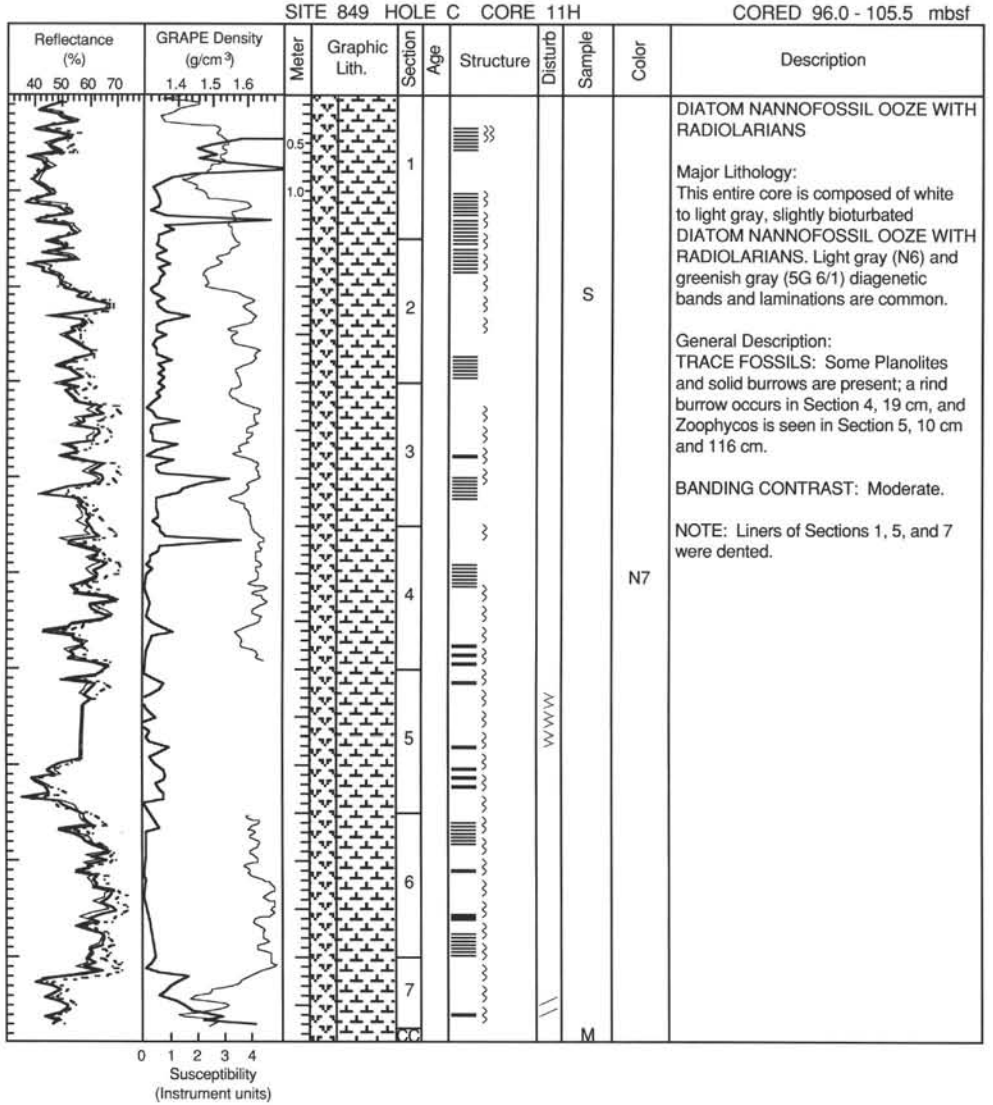


SITE 849 HOLE C CORE 10H CORED 86.5 - 96.0 mbsf





SITE 849 HOLE C CORE 11H CORED 96.0 - 105.5 mbsf



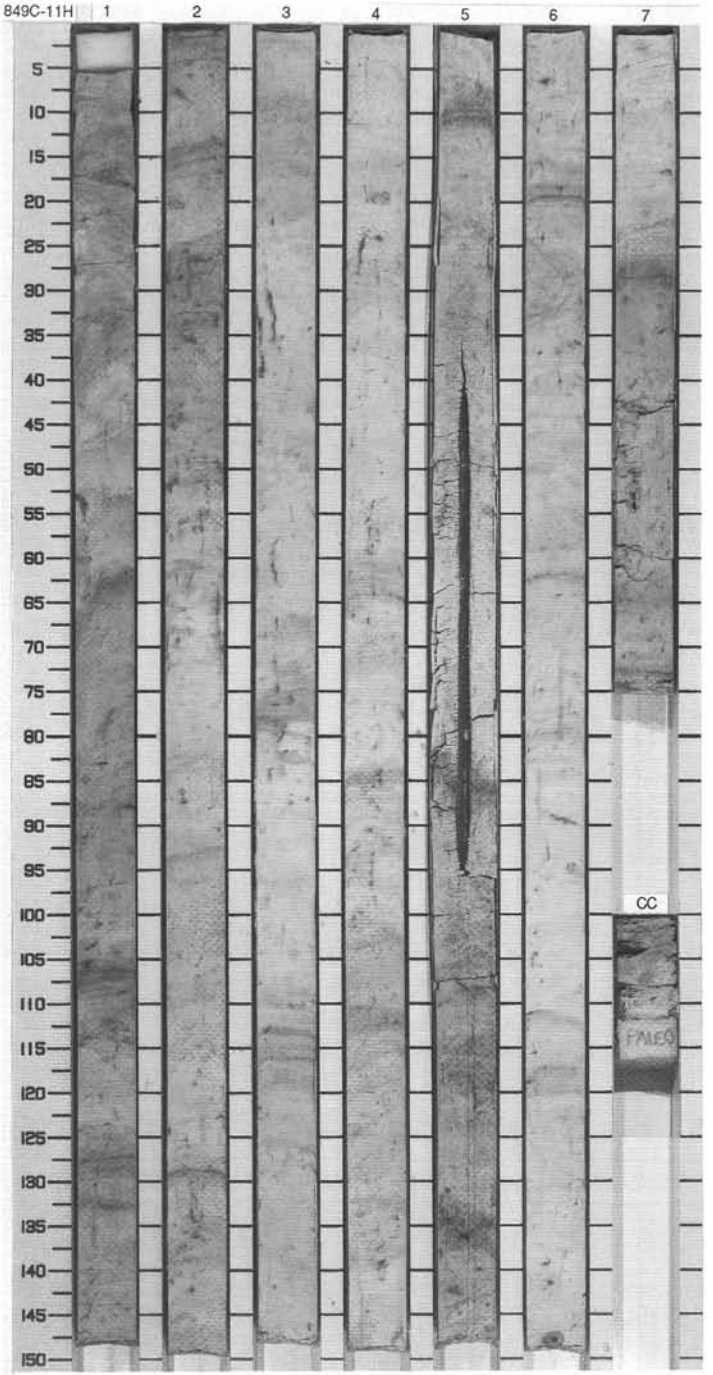
DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS

Major Lithology:
This entire core is composed of white to light gray, slightly bioturbated DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS. Light gray (N6) and greenish gray (5G 6/1) diagenetic bands and laminations are common.

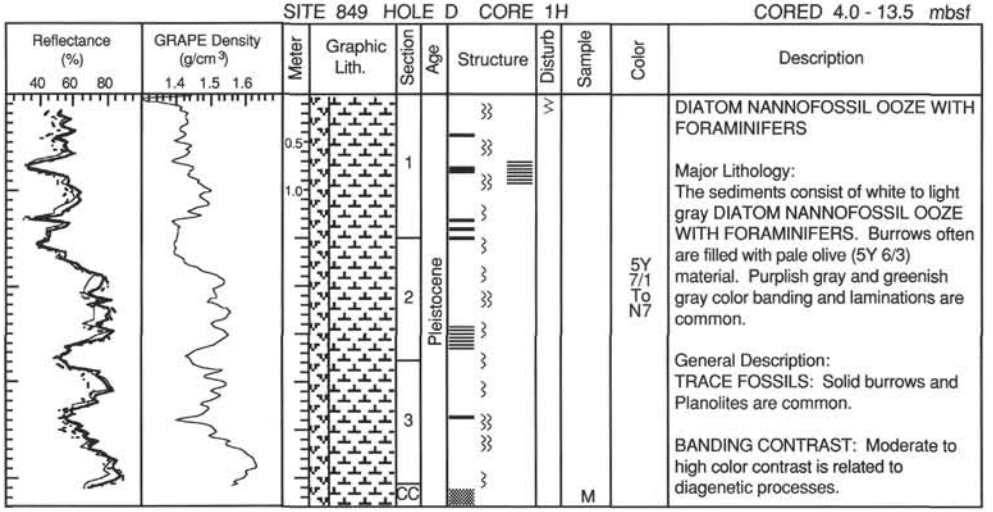
General Description:
TRACE FOSSILS: Some Planolites and solid burrows are present; a rind burrow occurs in Section 4, 19 cm, and Zoophycos is seen in Section 5, 10 cm and 116 cm.

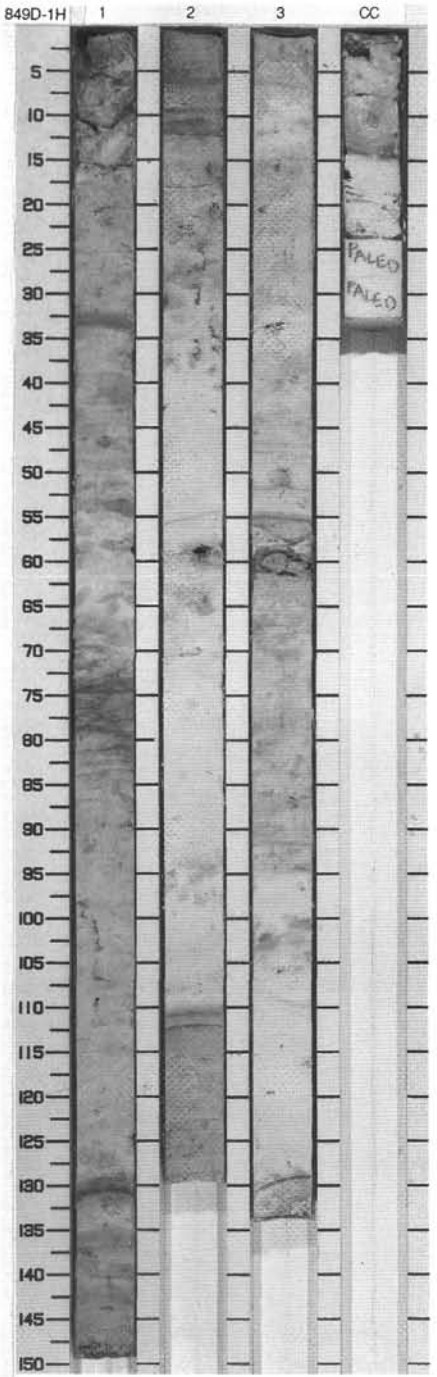
BANDING CONTRAST: Moderate.

NOTE: Liners of Sections 1, 5, and 7 were dented.



SITE 849 HOLE D CORE 1H CORED 4.0 - 13.5 *mbsf*

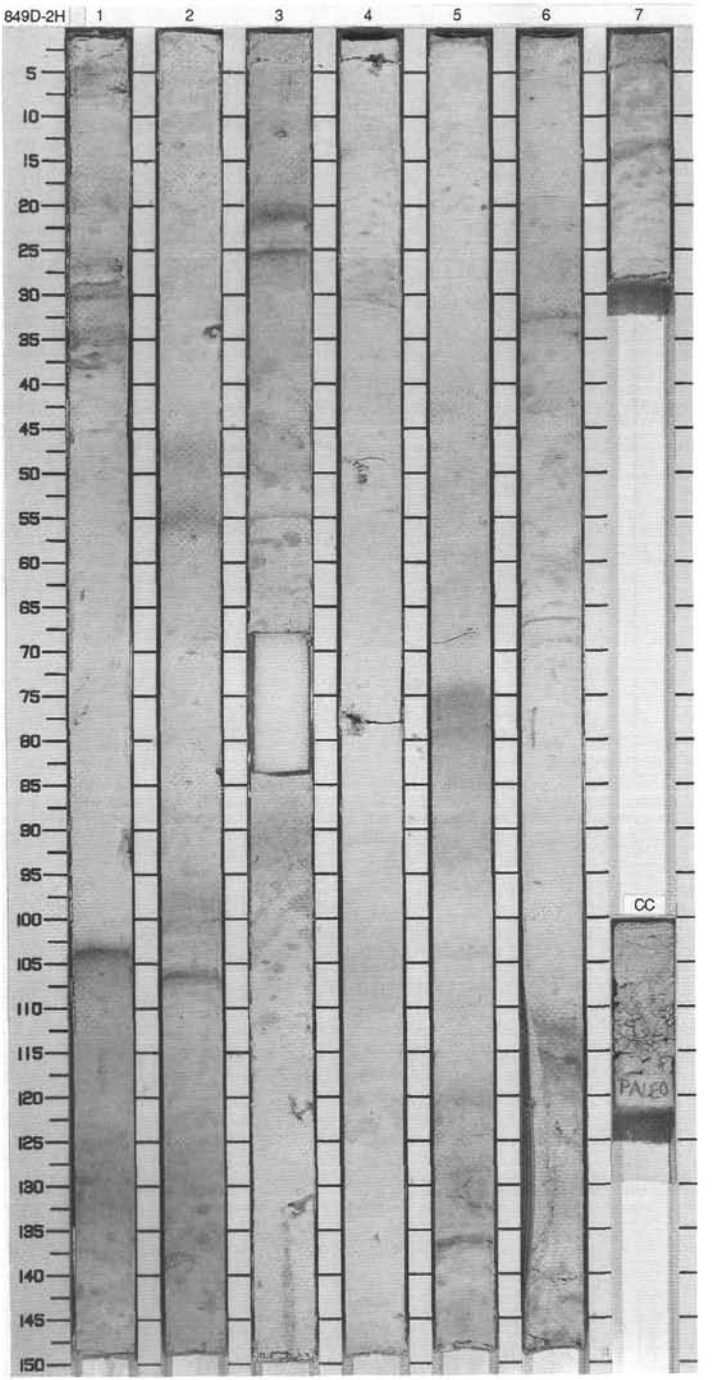




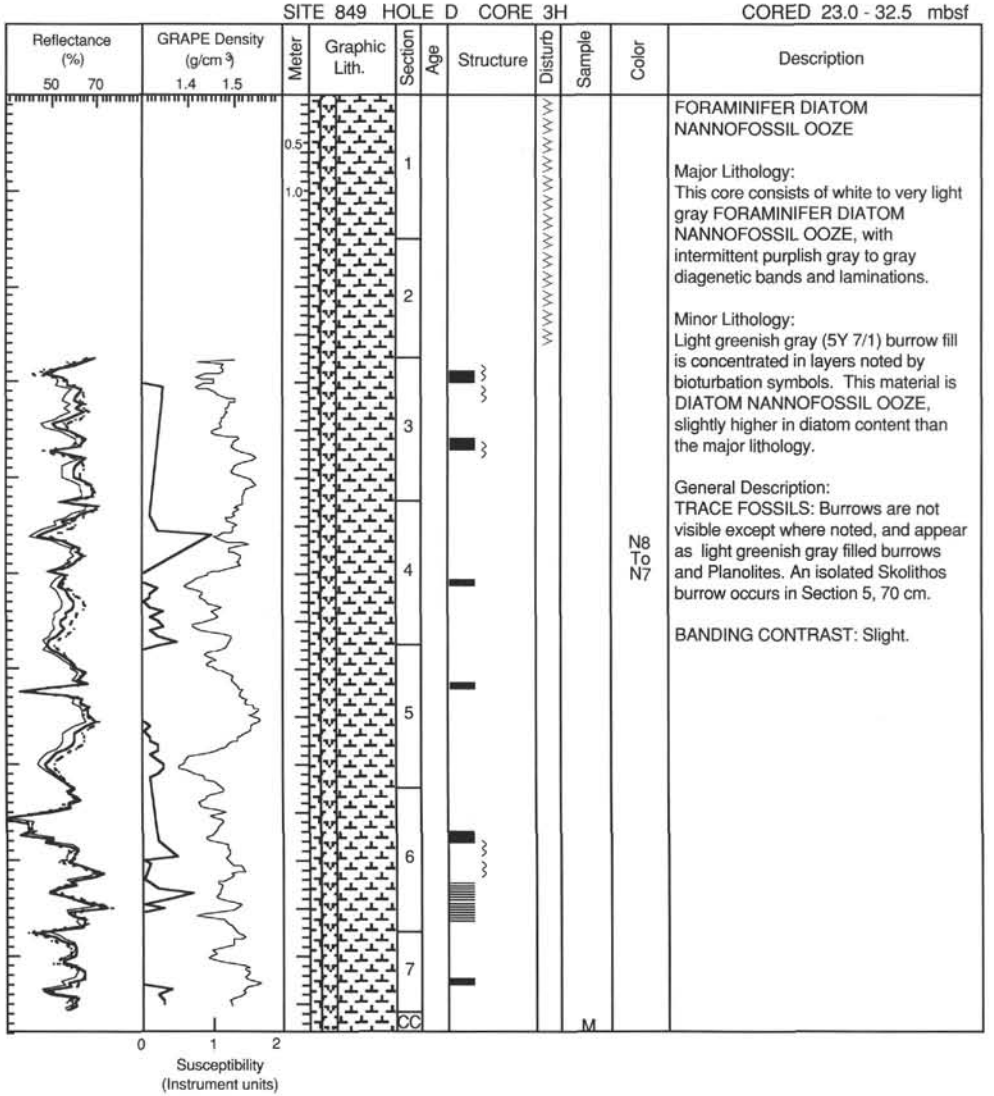
SITE 849 HOLE D CORE 2H CORED 13.5 - 23.0 mbsf

Reflectance (%) 50 70	GRAPE Density (g/cm³) 1.4 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC					N8	FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS Major Lithology: The sediments are predominantly white FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS. Burrows are filled with a light gray (5Y 7/1) diatom-rich material. Purplish gray diagenetic color bands are common throughout. General Description: TRACE FOSSILS: Bioturbation is slight throughout most of the core. However, several short intervals are moderately bioturbated and contain solid burrows and Planolites. BANDING CONTRAST: Slight to moderate.

Void



SITE 849 HOLE D CORE 3H CORED 23.0 - 32.5 mbsf



Description

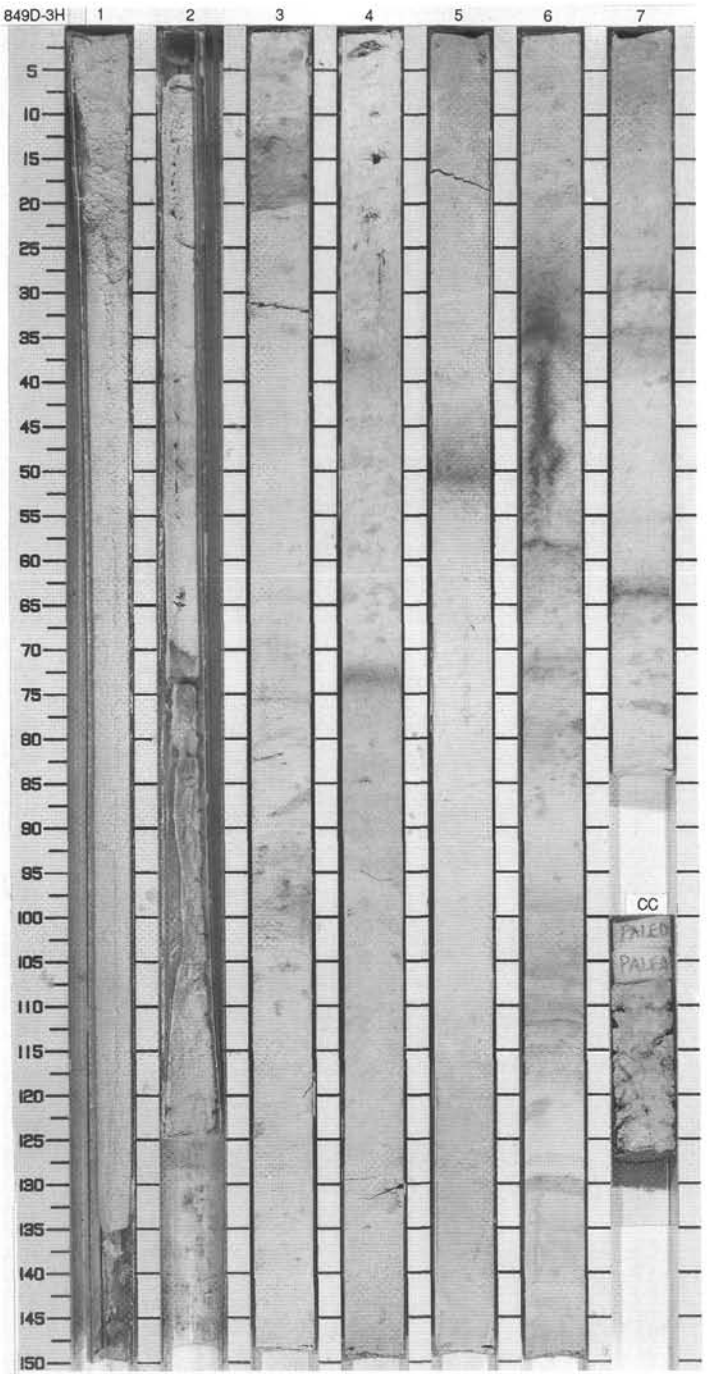
FORAMINIFER DIATOM NANNOFOSSIL OOZE

Major Lithology:
This core consists of white to very light gray FORAMINIFER DIATOM NANNOFOSSIL OOZE, with intermittent purplish gray to gray diagenetic bands and laminations.

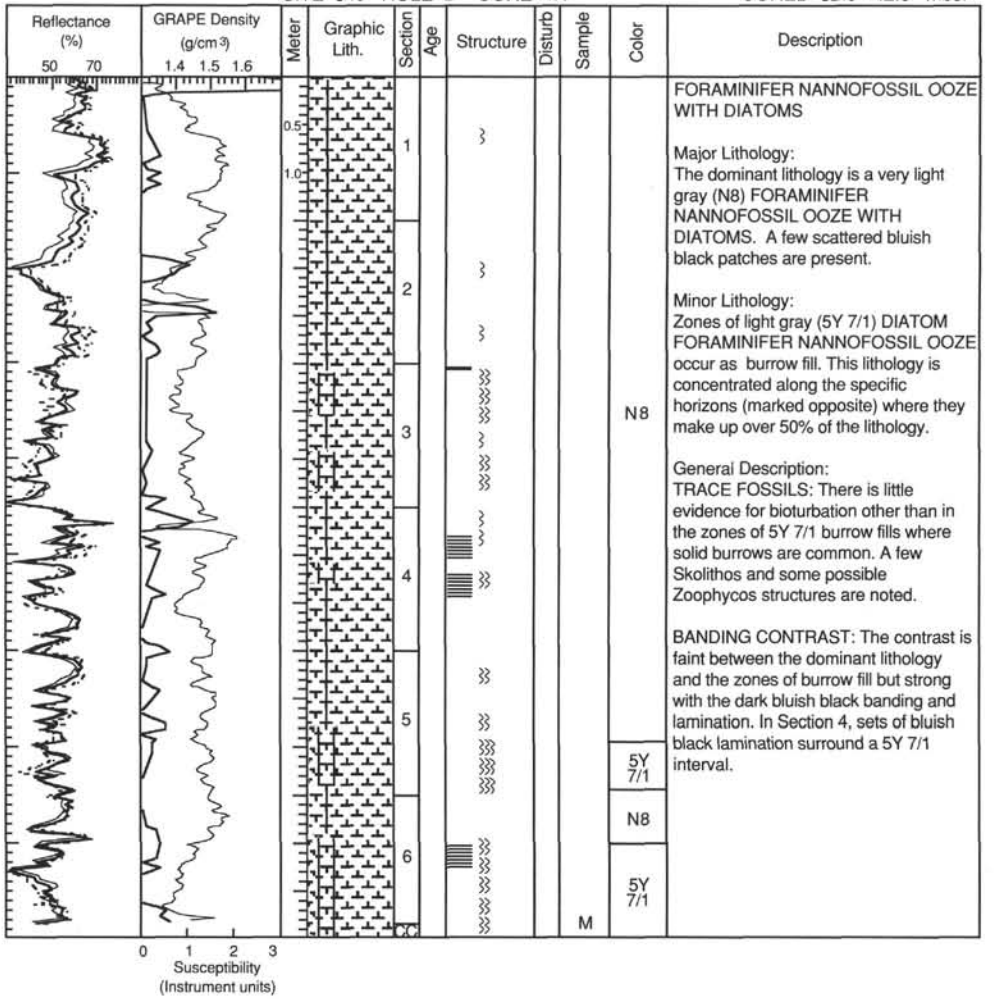
Minor Lithology:
Light greenish gray (5Y 7/1) burrow fill is concentrated in layers noted by bioturbation symbols. This material is DIATOM NANNOFOSSIL OOZE, slightly higher in diatom content than the major lithology.

General Description:
TRACE FOSSILS: Burrows are not visible except where noted, and appear as light greenish gray filled burrows and Planolites. An isolated Skolithos burrow occurs in Section 5, 70 cm.

BANDING CONTRAST: Slight.



SITE 849 HOLE D CORE 4H CORED 32.5 - 42.0 mbsf



Description

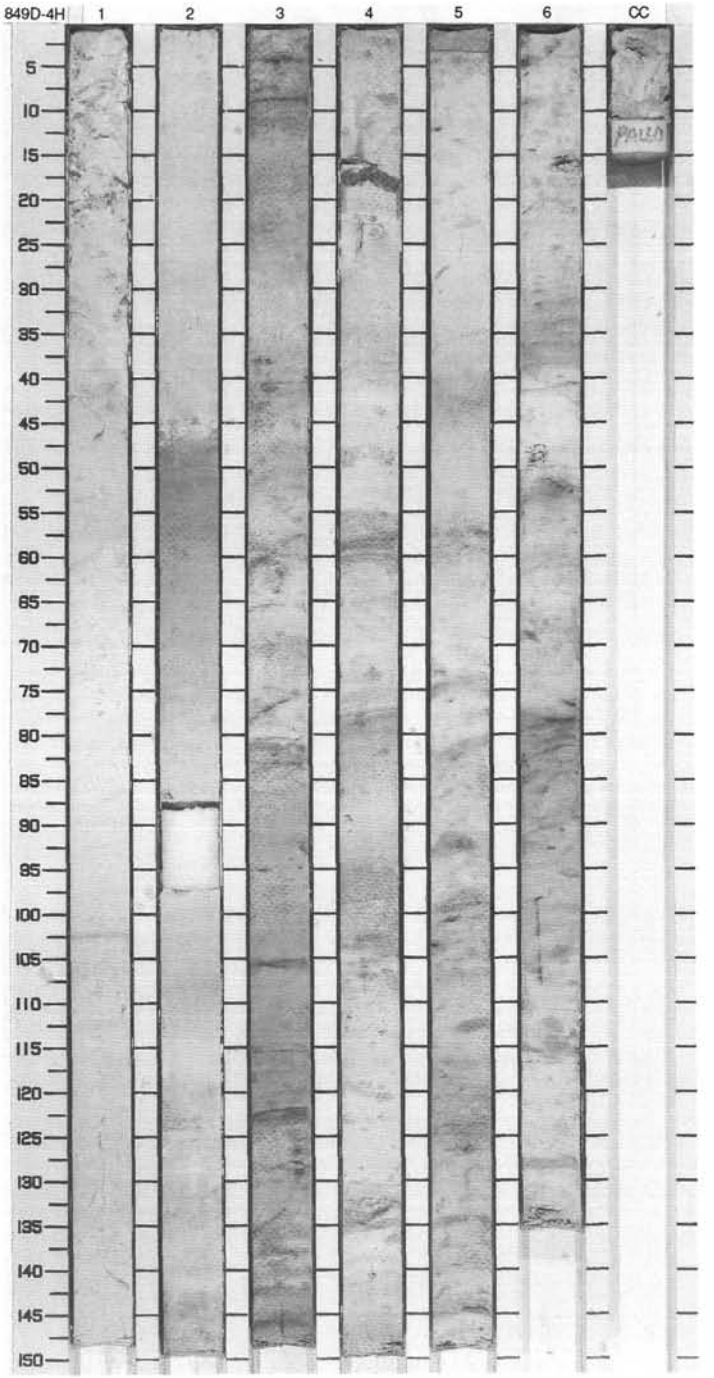
FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS

Major Lithology:
The dominant lithology is a very light gray (N8) FORAMINIFER NANNOFOSSIL OOZE WITH DIATOMS. A few scattered bluish black patches are present.

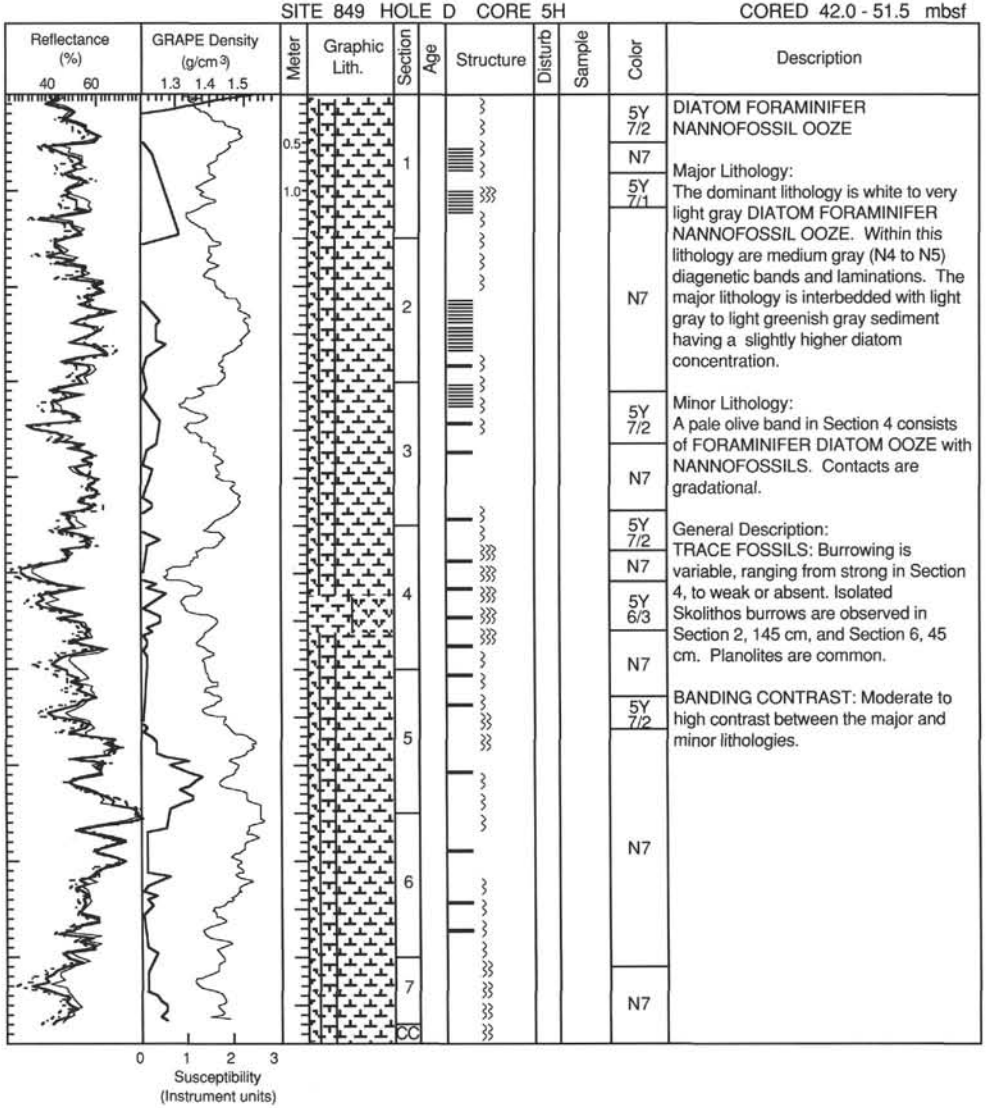
Minor Lithology:
Zones of light gray (5Y 7/1) DIATOM FORAMINIFER NANNOFOSSIL OOZE occur as burrow fill. This lithology is concentrated along the specific horizons (marked opposite) where they make up over 50% of the lithology.

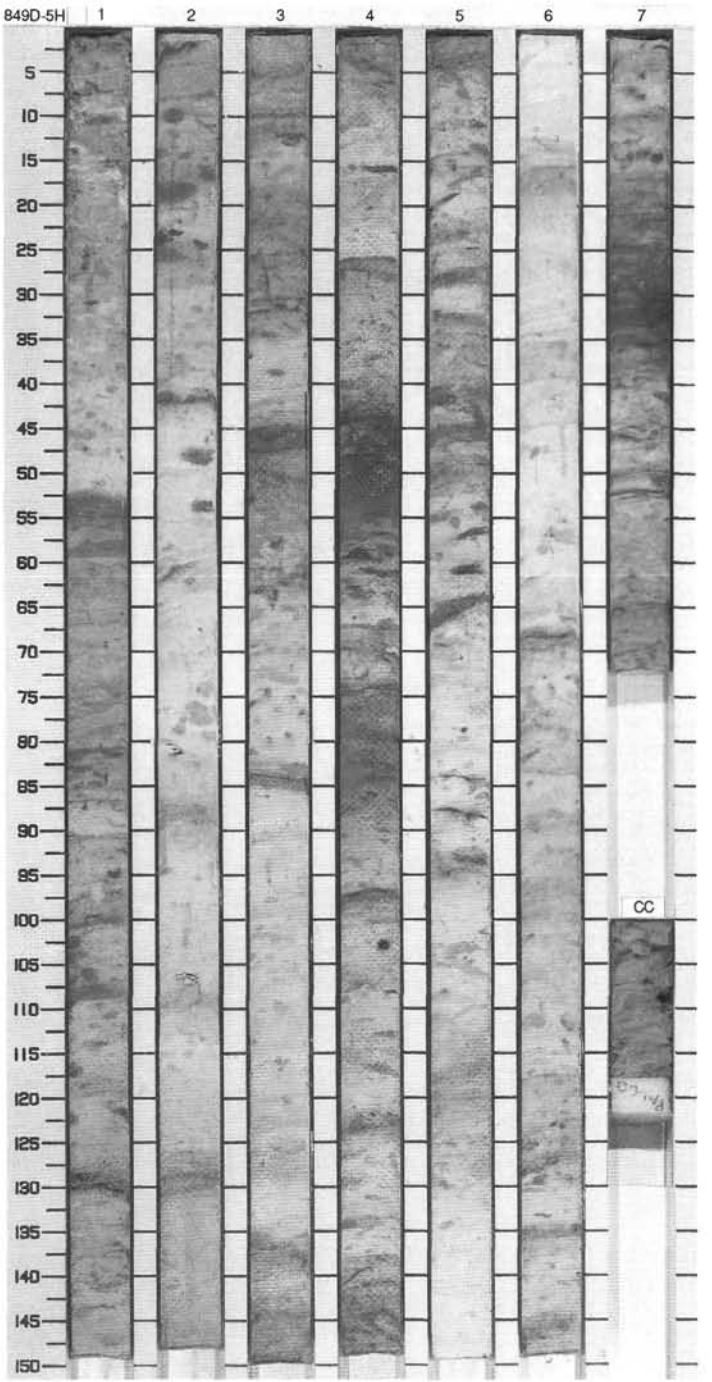
General Description:
TRACE FOSSILS: There is little evidence for bioturbation other than in the zones of 5Y 7/1 burrow fills where solid burrows are common. A few Skolithos and some possible Zoophycos structures are noted.

BANDING CONTRAST: The contrast is faint between the dominant lithology and the zones of burrow fill but strong with the dark bluish black banding and lamination. In Section 4, sets of bluish black lamination surround a 5Y 7/1 interval.

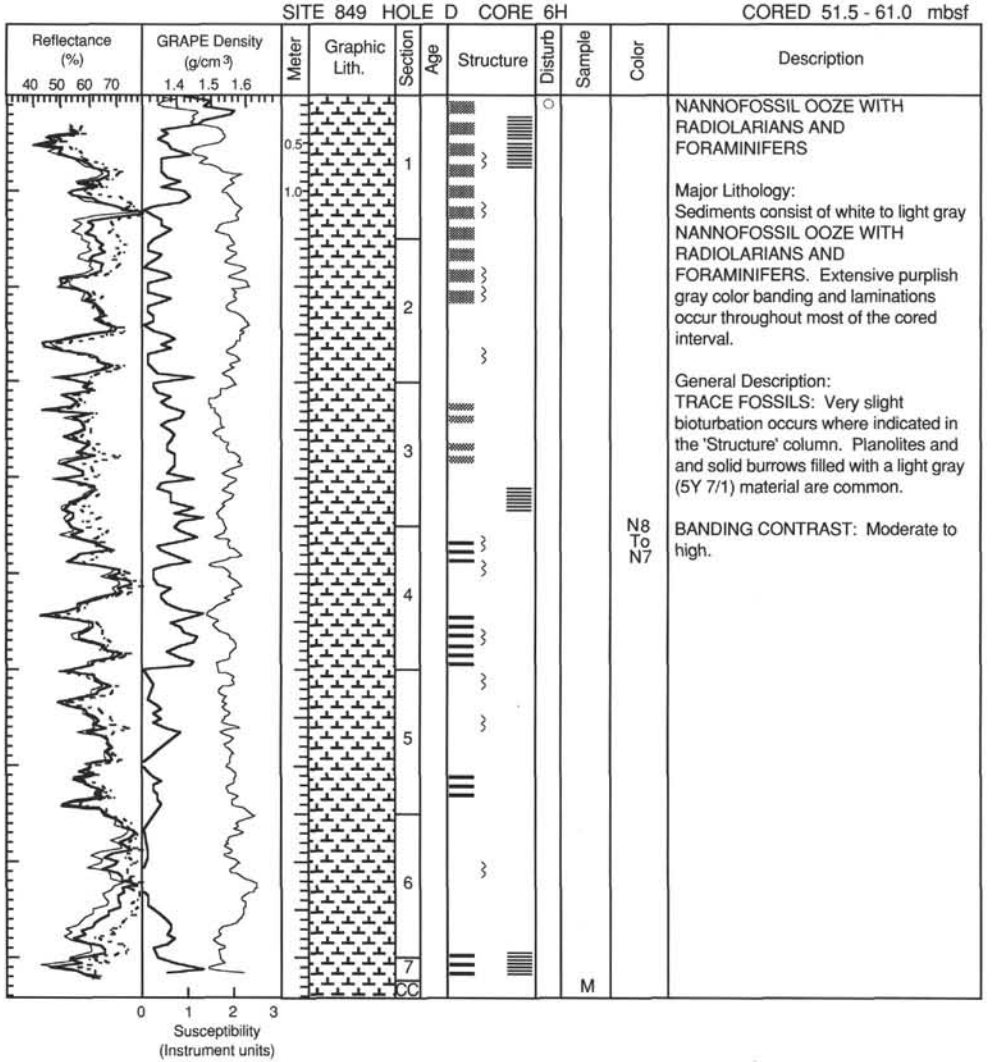


SITE 849 HOLE D CORE 5H CORED 42.0 - 51.5 mbsf





SITE 849 HOLE D CORE 6H CORED 51.5 - 61.0 mbsf



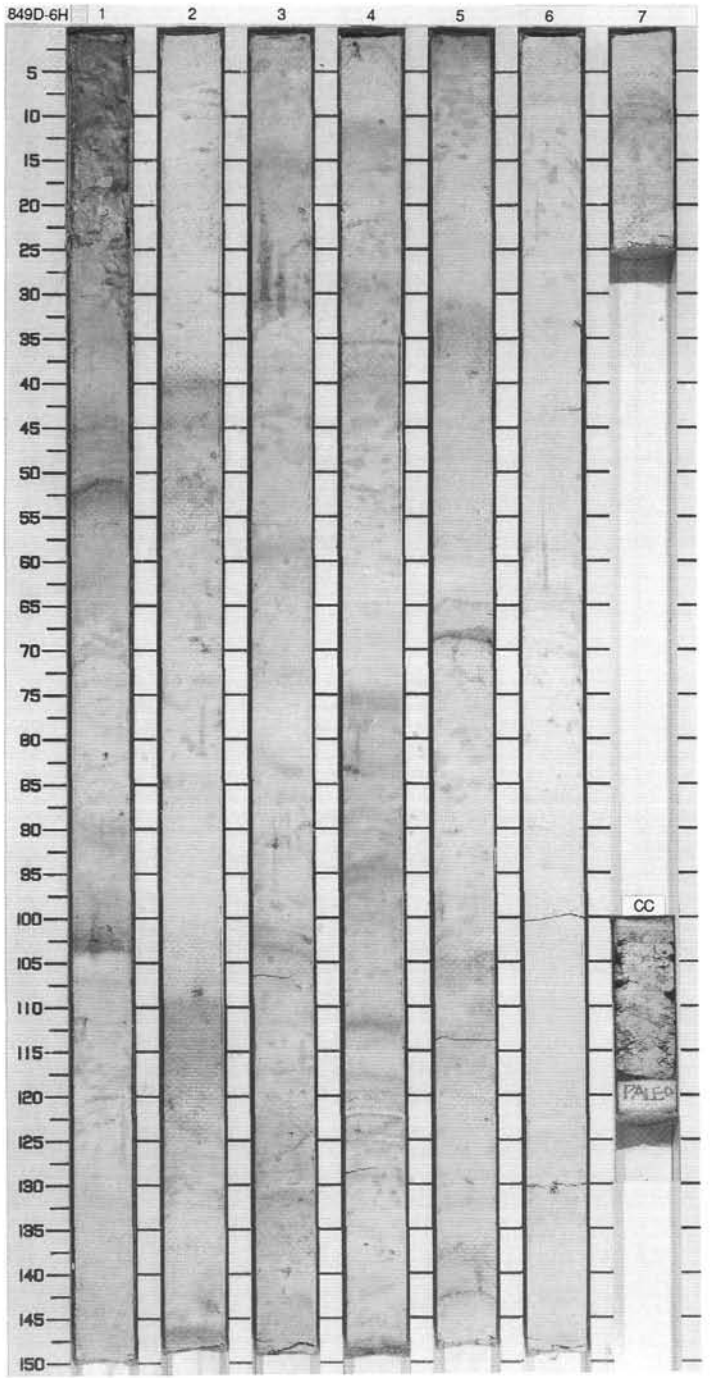
Description

NANNOFOSSIL OOZE WITH RADIOLARIANS AND FORAMINIFERS

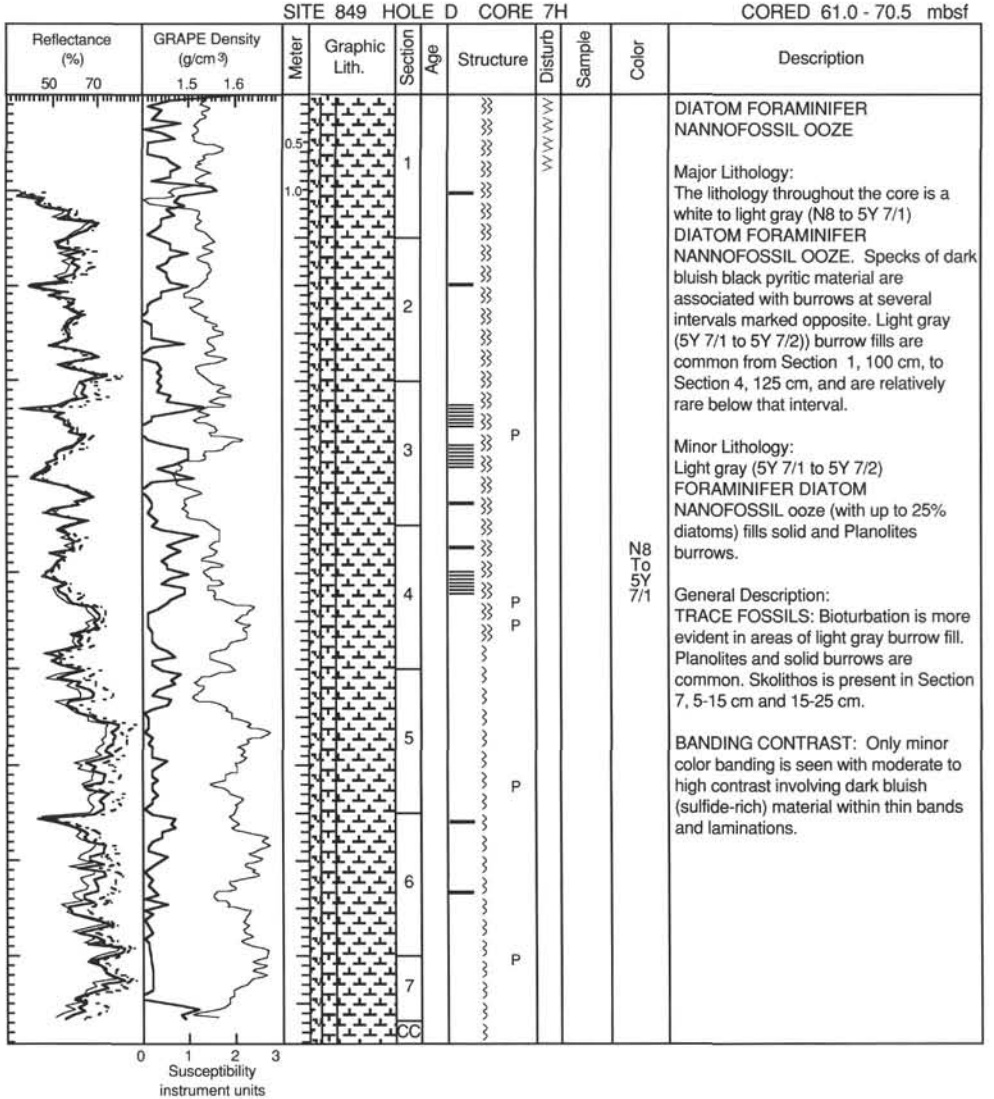
Major Lithology:
Sediments consist of white to light gray NANNOFOSSIL OOZE WITH RADIOLARIANS AND FORAMINIFERS. Extensive purplish gray color banding and laminations occur throughout most of the cored interval.

General Description:
TRACE FOSSILS: Very slight bioturbation occurs where indicated in the 'Structure' column. Planolites and and solid burrows filled with a light gray (5Y 7/1) material are common.

BANDING CONTRAST: Moderate to high.



SITE 849 HOLE D CORE 7H CORED 61.0 - 70.5 mbsf



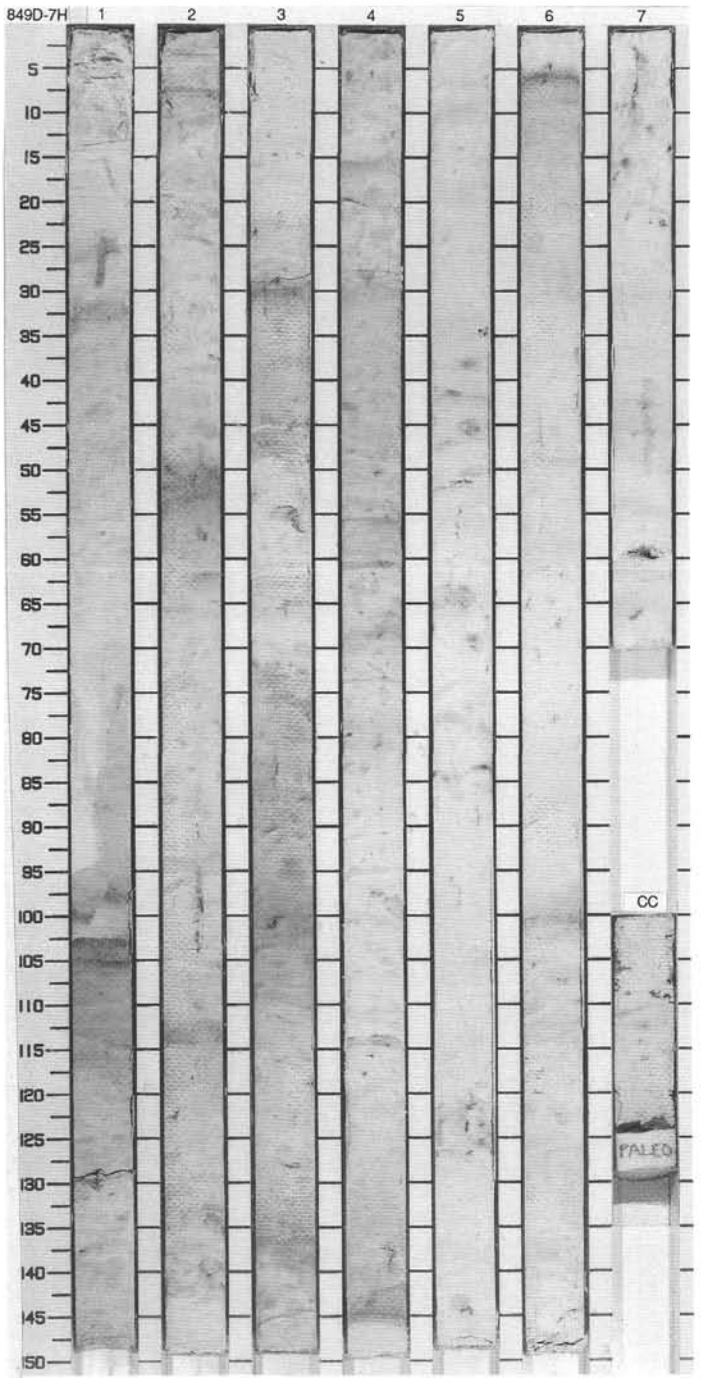
DIATOM FORAMINIFER NANNOFOSSIL OOZE

Major Lithology:
The lithology throughout the core is a white to light gray (N8 to 5Y 7/1) DIATOM FORAMINIFER NANNOFOSSIL OOZE. Specks of dark bluish black pyritic material are associated with burrows at several intervals marked opposite. Light gray (5Y 7/1 to 5Y 7/2)) burrow fills are common from Section 1, 100 cm, to Section 4, 125 cm, and are relatively rare below that interval.

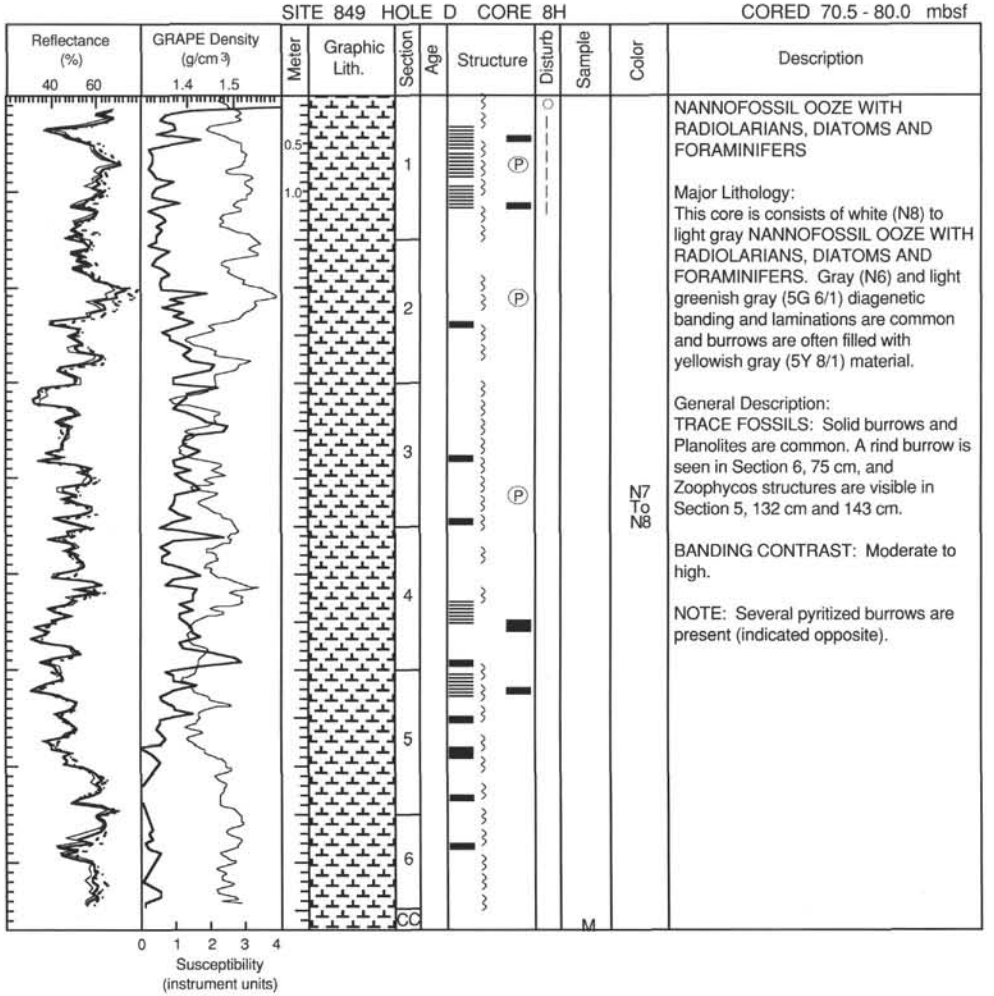
Minor Lithology:
Light gray (5Y 7/1 to 5Y 7/2) FORAMINIFER DIATOM NANOFOSSIL ooze (with up to 25% diatoms) fills solid and Planolites burrows.

General Description:
TRACE FOSSILS: Bioturbation is more evident in areas of light gray burrow fill. Planolites and solid burrows are common. Skolithos is present in Section 7, 5-15 cm and 15-25 cm.

BANDING CONTRAST: Only minor color banding is seen with moderate to high contrast involving dark bluish (sulfide-rich) material within thin bands and laminations.



SITE 849 HOLE D CORE 8H CORED 70.5 - 80.0 mbsf



Description

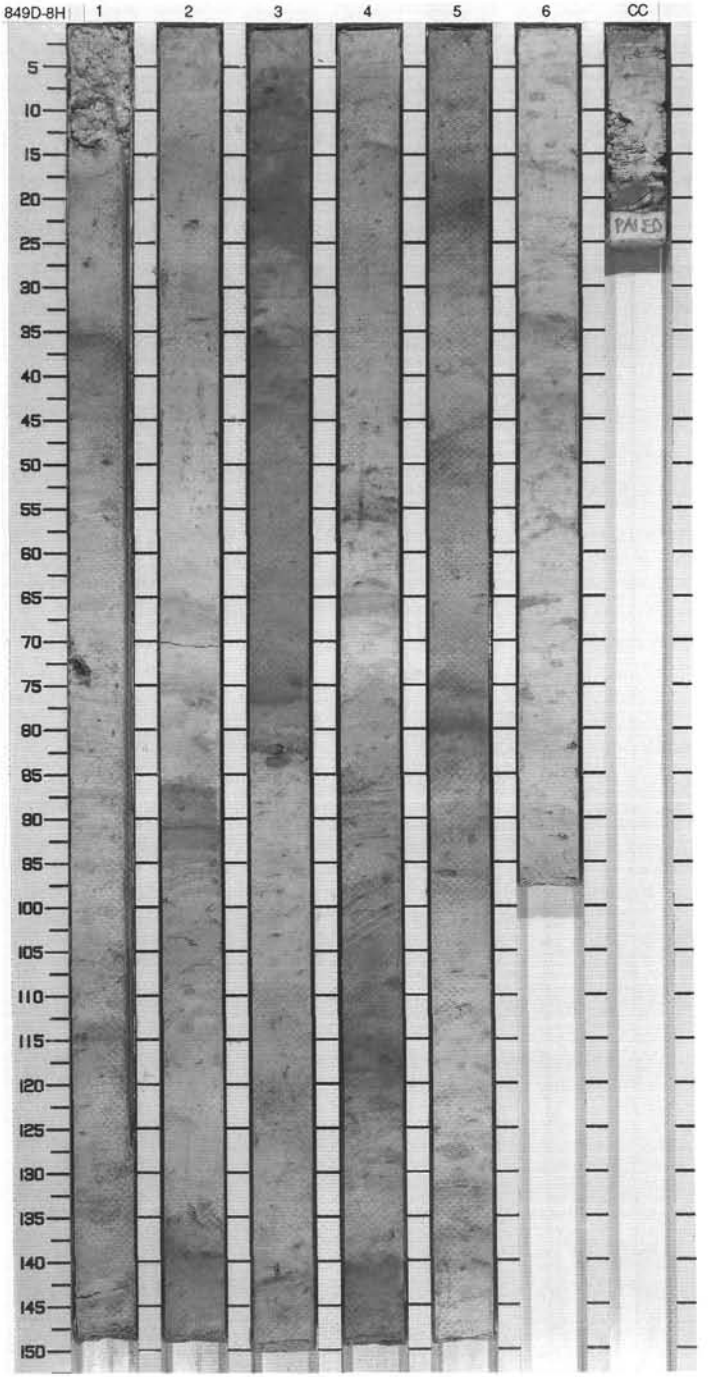
NANNOFOSSIL OOZE WITH RADIOLARIANS, DIATOMS AND FORAMINIFERS

Major Lithology:
This core is consists of white (N8) to light gray NANNOFOSSIL OOZE WITH RADIOLARIANS, DIATOMS AND FORAMINIFERS. Gray (N6) and light greenish gray (5G 6/1) diagenetic banding and laminations are common and burrows are often filled with yellowish gray (5Y 8/1) material.

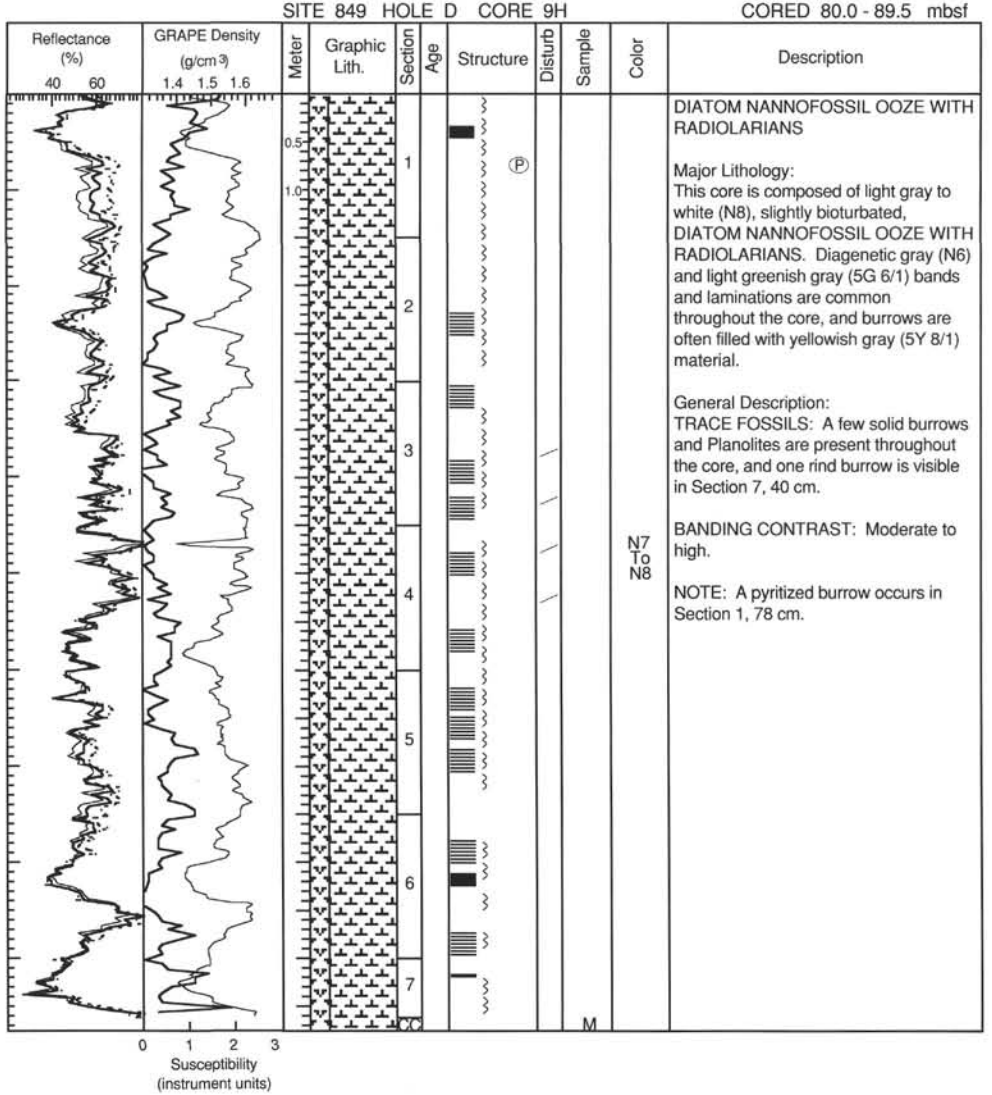
General Description:
TRACE FOSSILS: Solid burrows and Planolites are common. A rind burrow is seen in Section 6, 75 cm, and Zoophycos structures are visible in Section 5, 132 cm and 143 cm.

BANDING CONTRAST: Moderate to high.

NOTE: Several pyritized burrows are present (indicated opposite).



SITE 849 HOLE D CORE 9H CORED 80.0 - 89.5 mbsf



Description

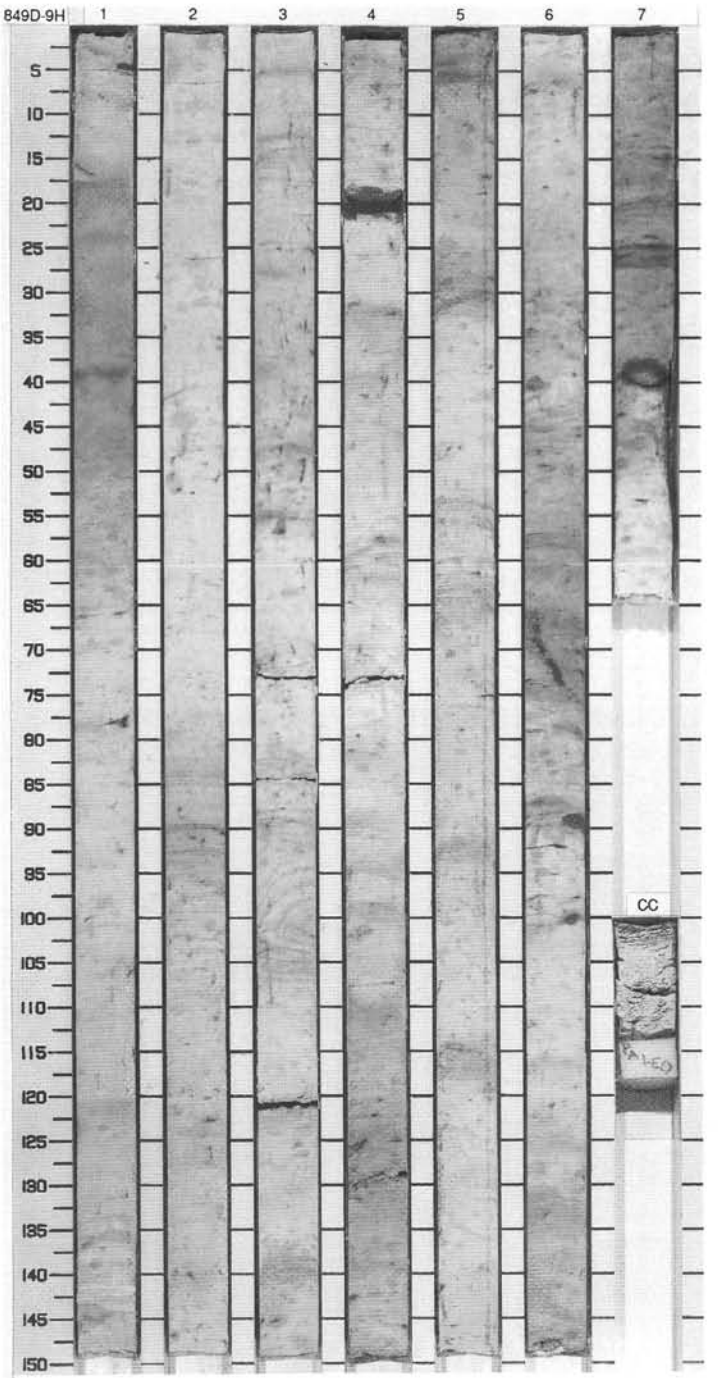
DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS

Major Lithology:
This core is composed of light gray to white (N8), slightly bioturbated, DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS. Diagenetic gray (N6) and light greenish gray (5G 6/1) bands and laminations are common throughout the core, and burrows are often filled with yellowish gray (5Y 8/1) material.

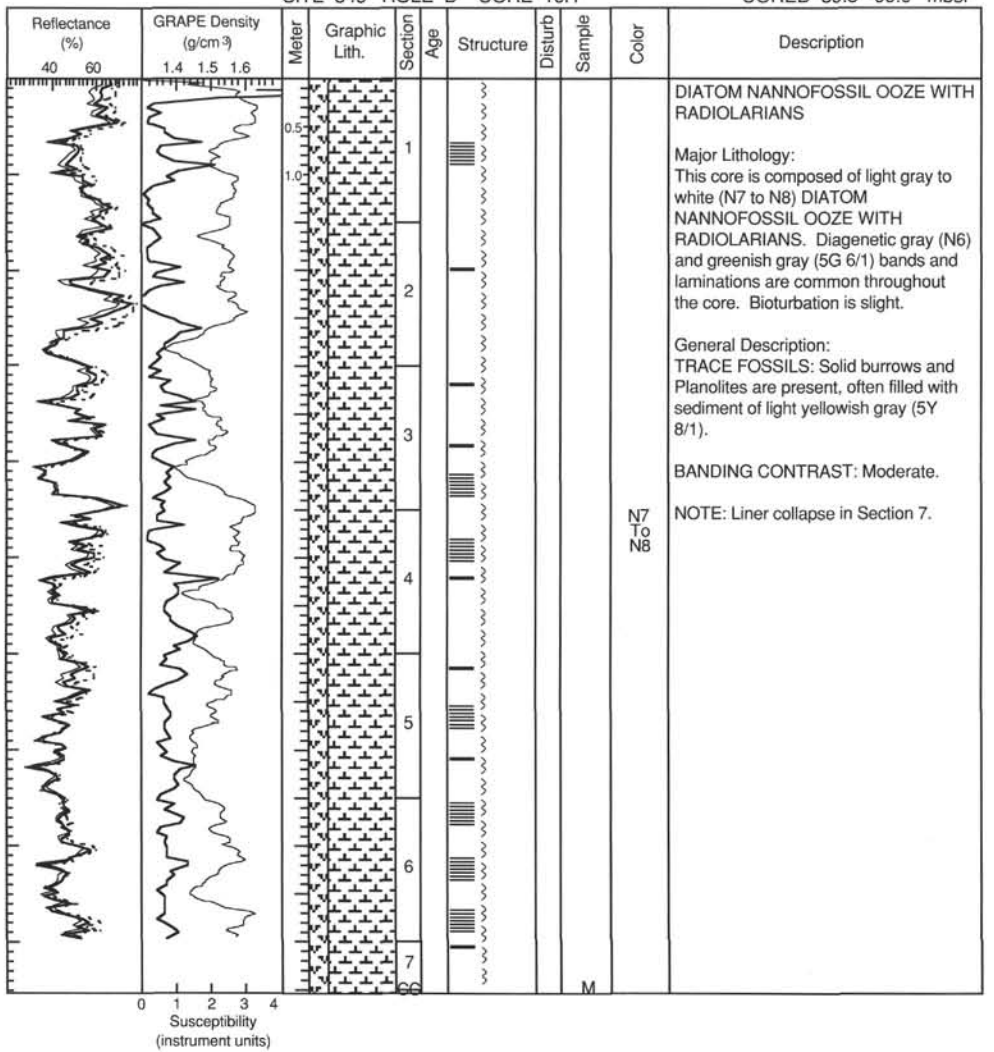
General Description:
TRACE FOSSILS: A few solid burrows and Planolites are present throughout the core, and one rind burrow is visible in Section 7, 40 cm.

BANDING CONTRAST: Moderate to high.

NOTE: A pyritized burrow occurs in Section 1, 78 cm.



SITE 849 HOLE D CORE 10H CORED 89.5 - 99.0 mbsf



Description

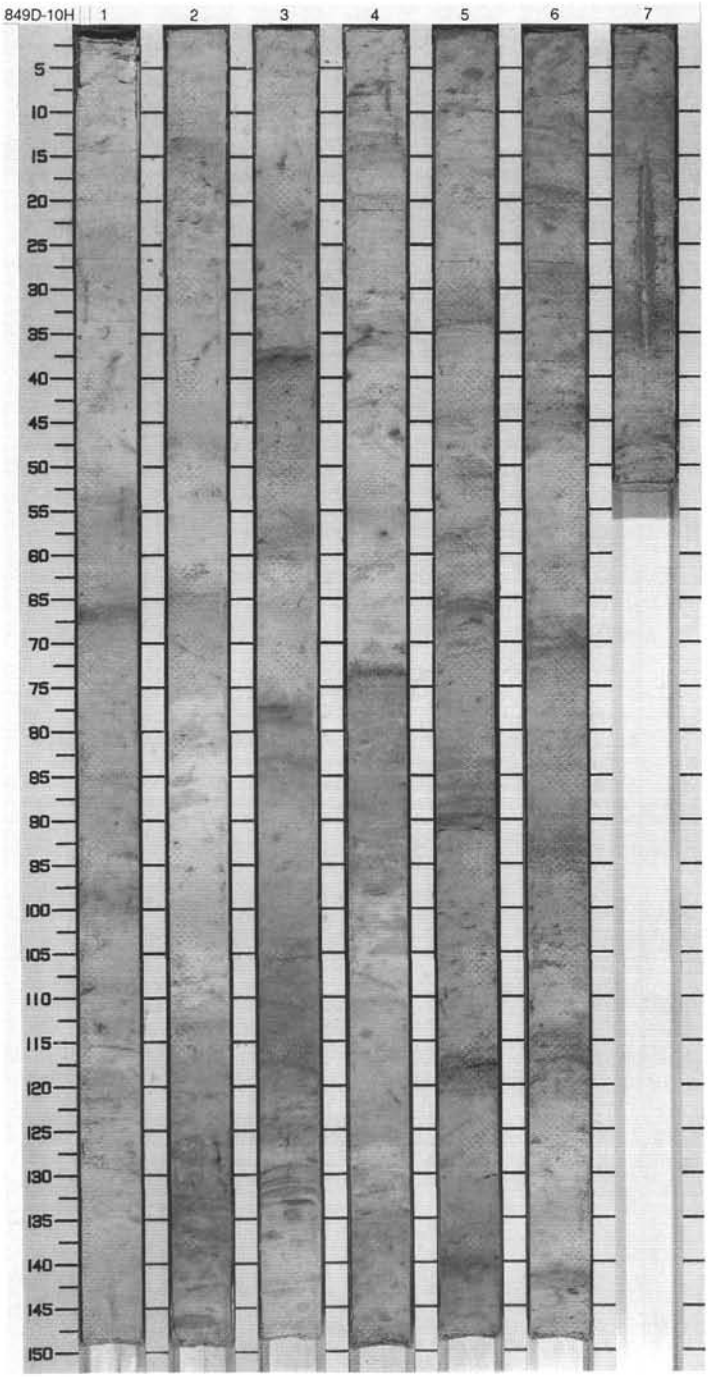
DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS

Major Lithology:
This core is composed of light gray to white (N7 to N8) DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS. Diagenetic gray (N6) and greenish gray (5G 6/1) bands and laminations are common throughout the core. Bioturbation is slight.

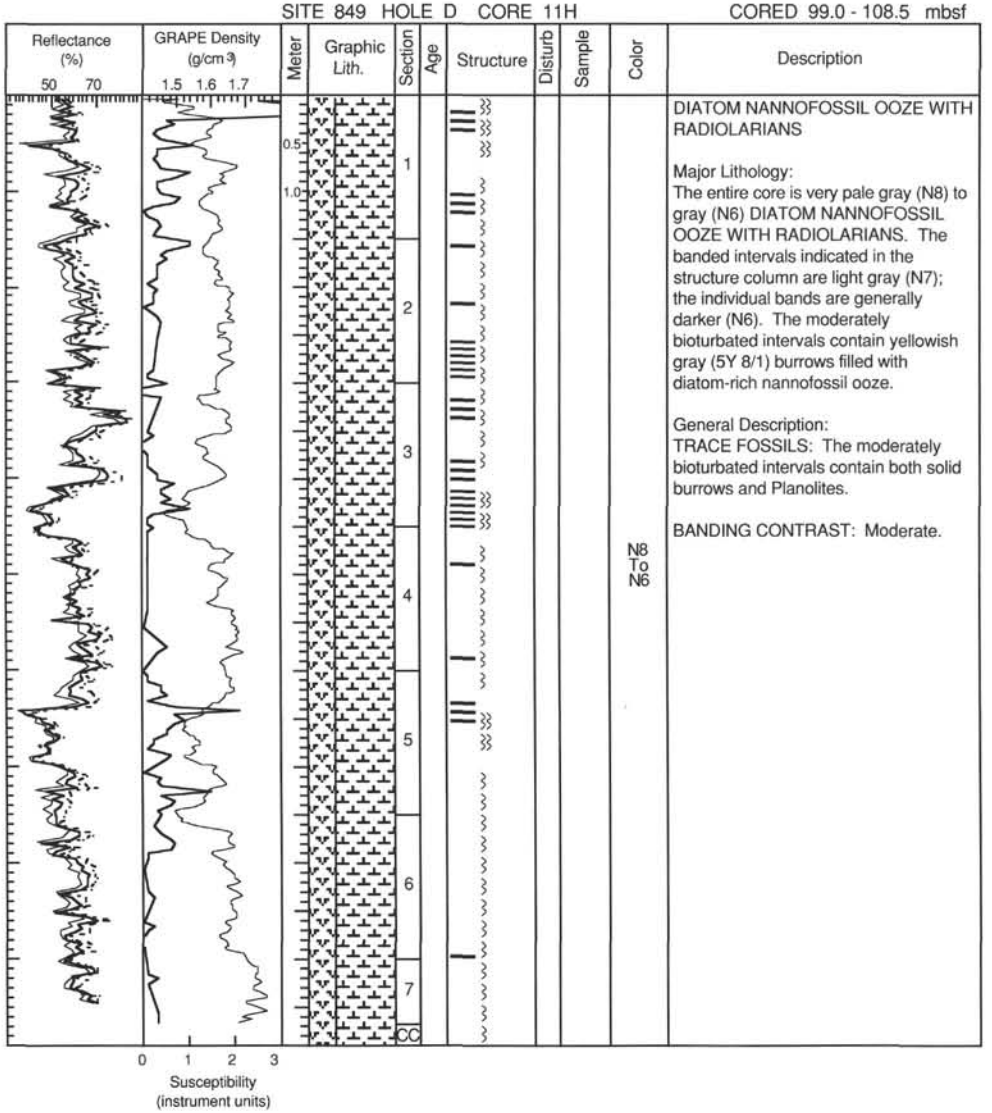
General Description:
TRACE FOSSILS: Solid burrows and Planolites are present, often filled with sediment of light yellowish gray (5Y 8/1).

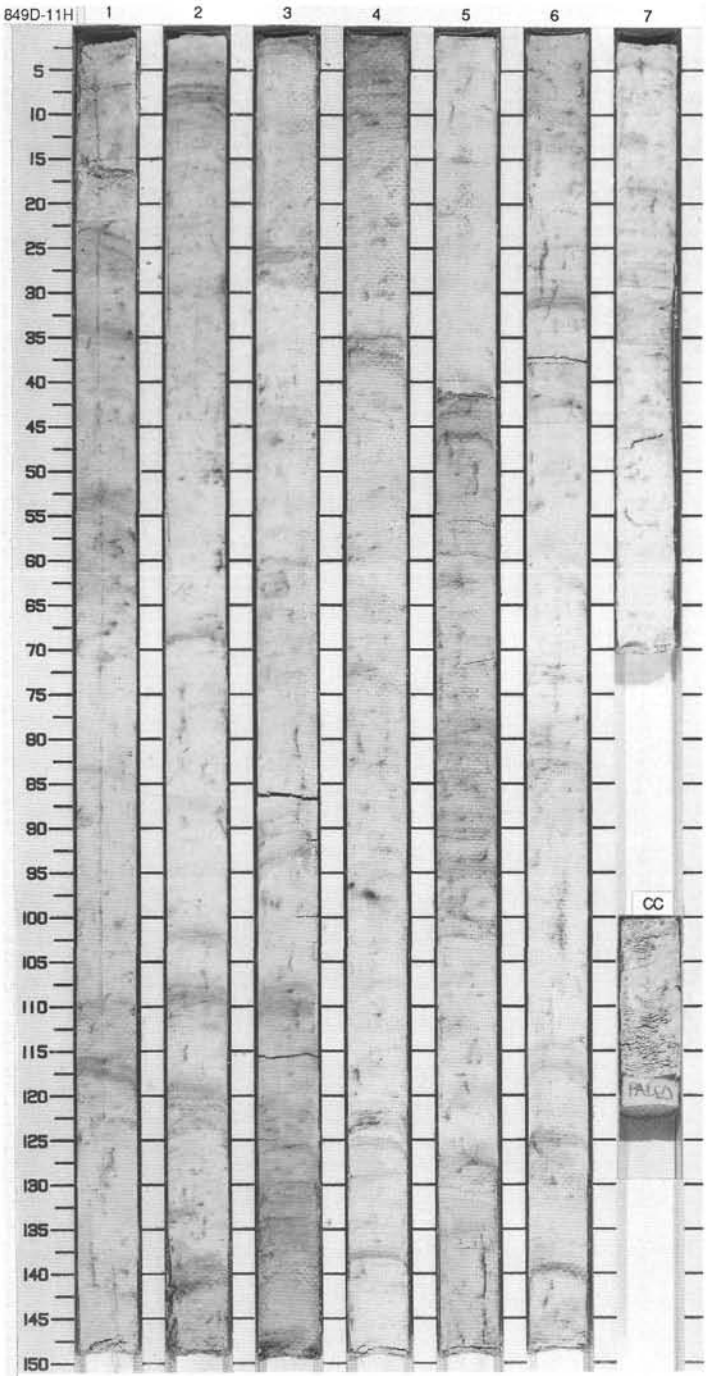
BANDING CONTRAST: Moderate.

NOTE: Liner collapse in Section 7.



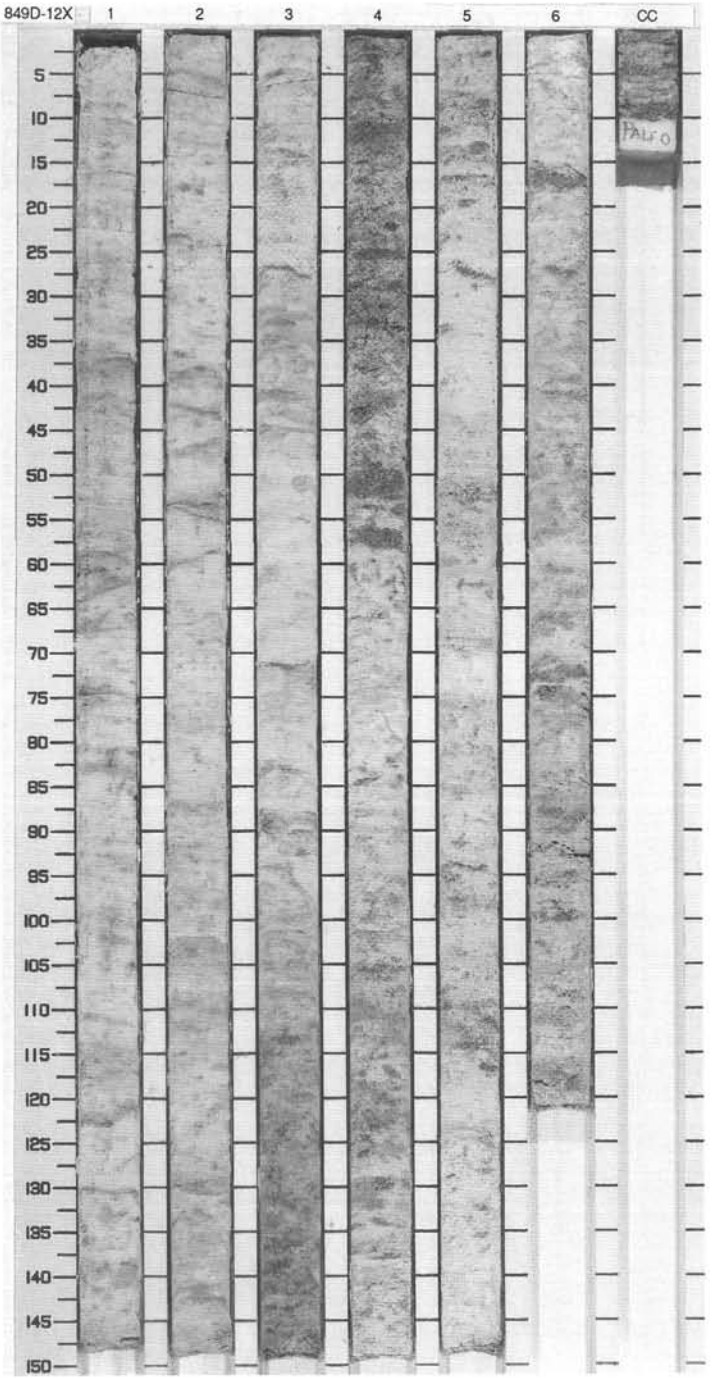
SITE 849 HOLE D CORE 11H CORED 99.0 - 108.5 mbsf





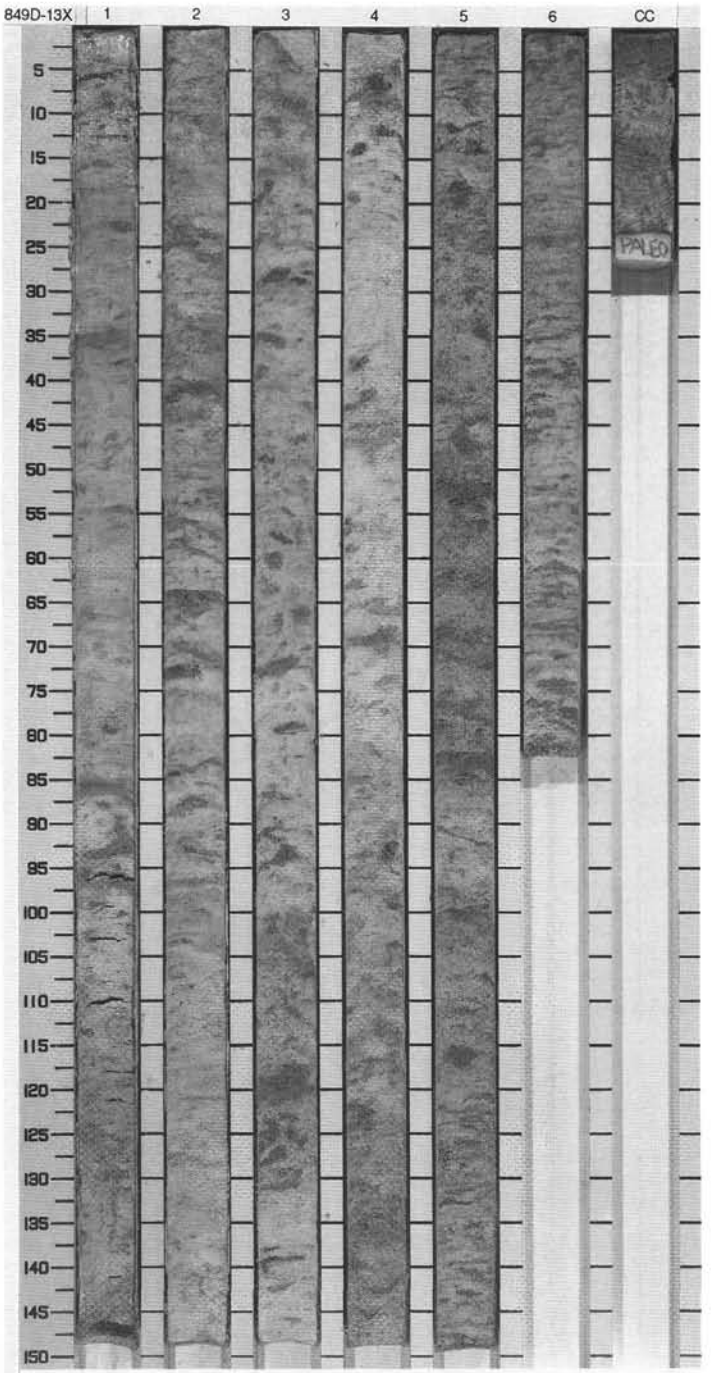
SITE 849 HOLE D CORE 12X CORED 108.5 - 115.5 mbsf

Reflectance (%) 40 60	GRAPE Density (g/cm³) 1.4 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 CC				S S M	N8 To 5Y 8/1 5Y 8/1 N8 To 5Y 8/1 5Y 7/1	DIATOM NANNOFOSSIL OOZE WITH FORAMINIFERS Major Lithology: The dominant lithology in this core is very pale gray (N8) DIATOM NANNOFOSSIL OOZE WITH FORAMINIFERS. From the top of the core to Section 3, 110 cm this lithology is burrowed with the diatom-rich minor lithology. The minor lithology increases in importance gradationally in the lower part of Section 3. Between Section 4, 58 cm, and Section 6, 70 cm, the dominant lithology is interbedded with the minor lithology. Minor Lithology: The minor lithology is NANNOFOSSIL DIATOM OOZE. This lithology varies in color from yellowish gray (5Y 8/1) to pale olive (5Y 6/3) as the diatom content increases. General Description: TRACE FOSSILS: The entire core is moderately to intensely bioturbated; most trace fossils are indistinct solid burrows. BANDING CONTRAST: Moderate.

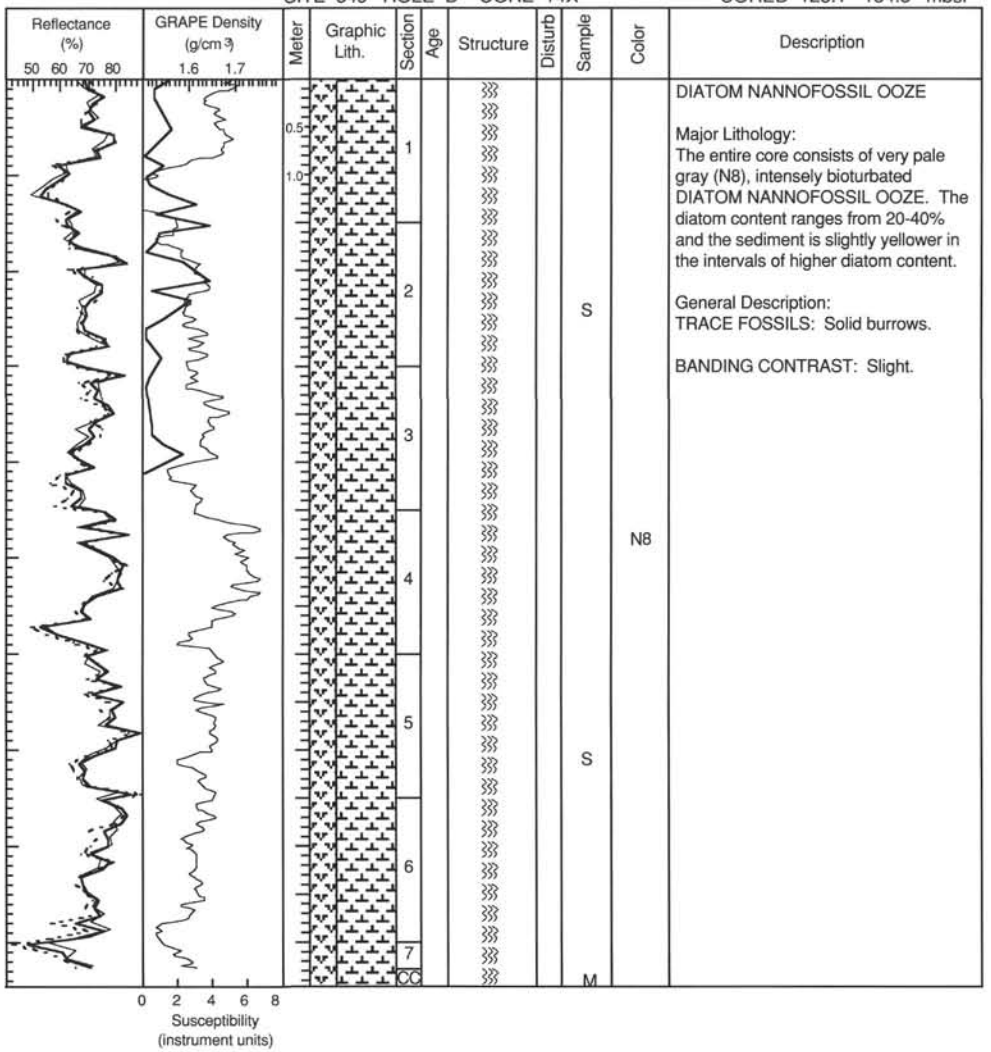


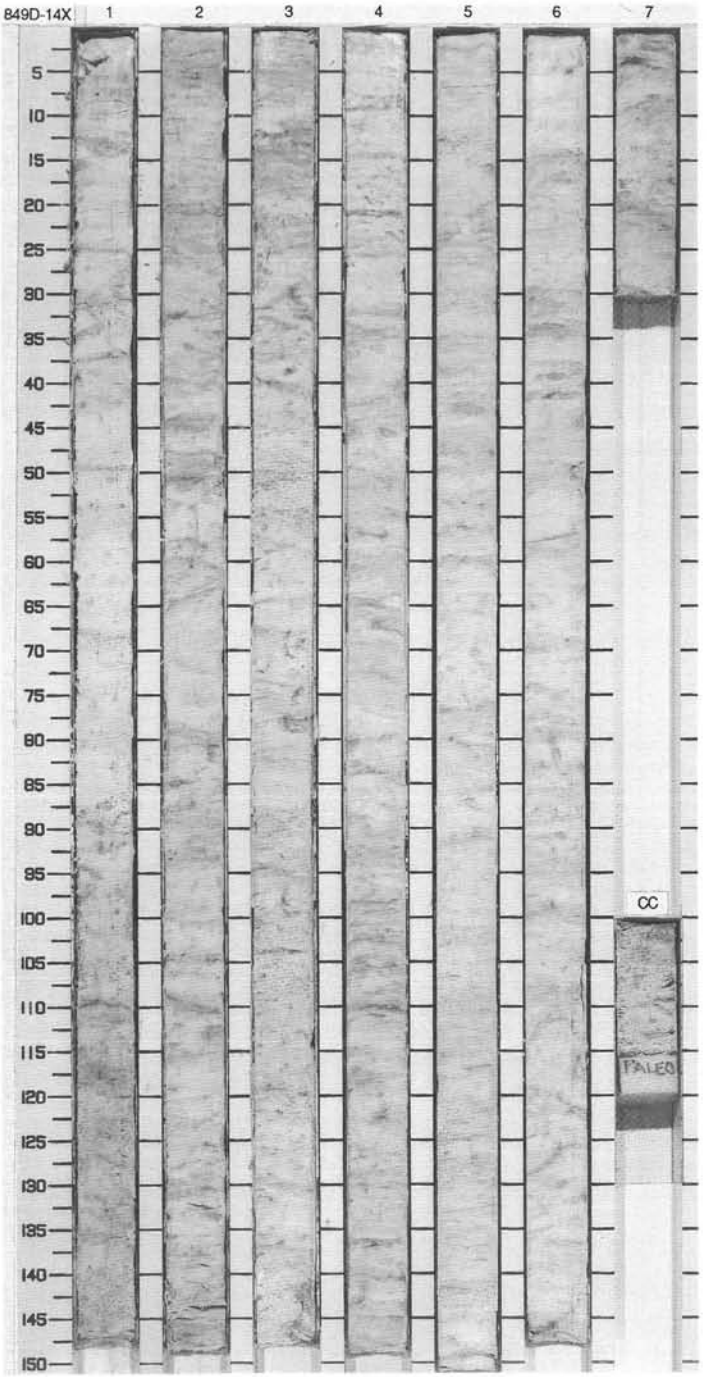
SITE 849 HOLE D CORE 13X CORED 115.5 - 125.1 mbsf

Reflectance (%) 40 50 60 70	GRAPE Density (g/cm³) 1.4 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 CC				S S	N7 To 5Y 7/1 N8 N7 To 5Y 7/1 5Y 7/3 N7 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE and NANNOFOSSIL DIATOM OOZE Major Lithologies: The core is an intensely bioturbated mixture of very pale gray (N8) DIATOM NANNOFOSSIL OOZE and pale olive (5Y 7/3) NANNOFOSSIL DIATOM OOZE. General Description: The core is an intensely bioturbated mixture of the two major lithologies. The interval between Section 3, 140 cm, and Section 4, 90 cm, contains the nannofossil-rich lithology in its purest form. The interval between Section 5, 45-85 cm contains the highest proportion of the diatom-rich lithology. TRACE FOSSILS: Although intensely bioturbated, the core has few distinct trace fossils; those present are solid burrows. BANDING CONTRAST: Slight to moderate.

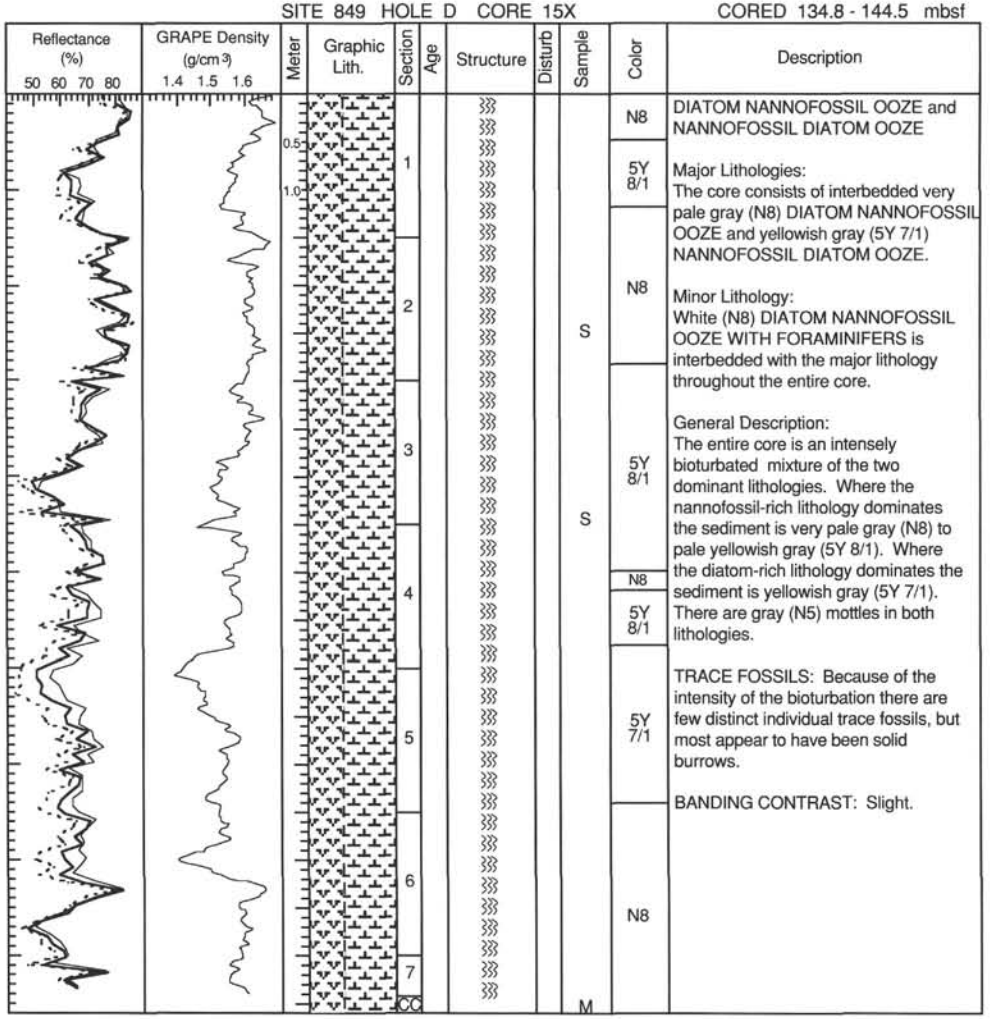


SITE 849 HOLE D CORE 14X CORED 125.1 - 134.8 mbsf





SITE 849 HOLE D CORE 15X CORED 134.8 - 144.5 mbsf



Description

DIATOM NANNOFOSSIL OOZE and NANNOFOSSIL DIATOM OOZE

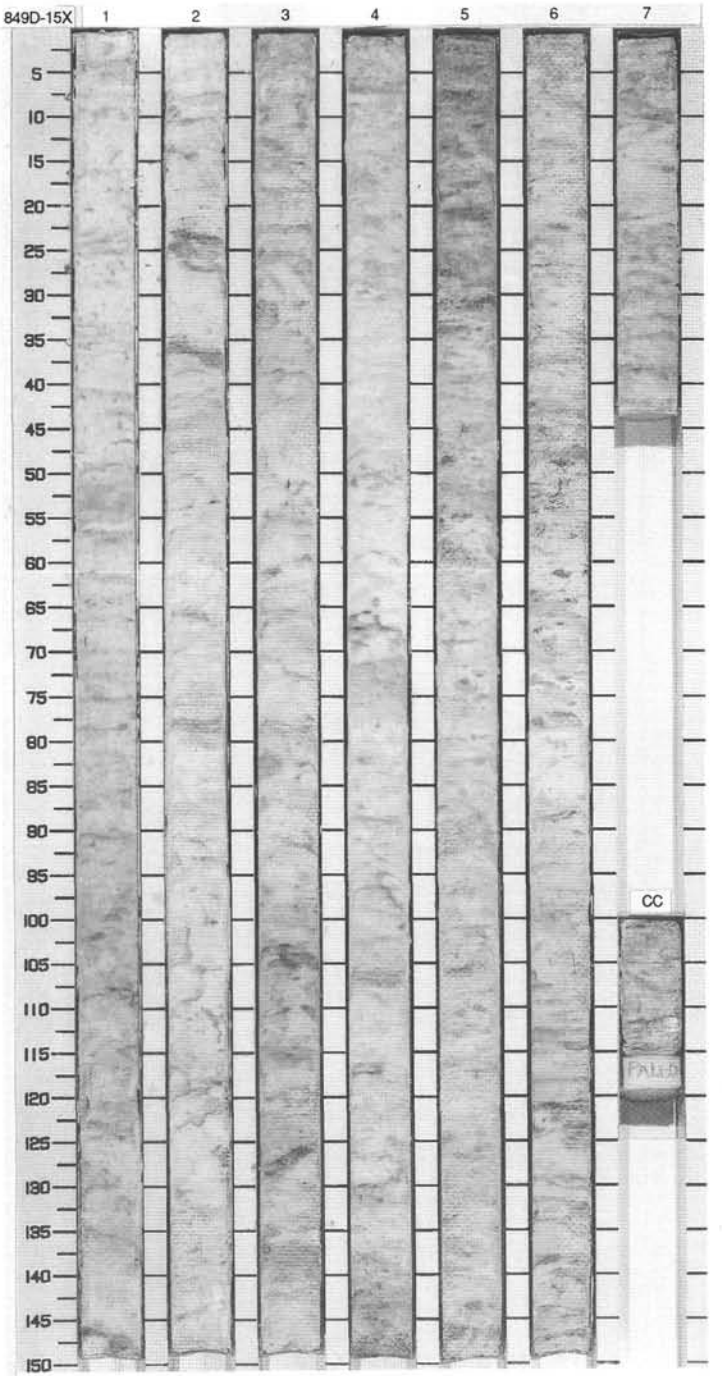
Major Lithologies:
The core consists of interbedded very pale gray (N8) DIATOM NANNOFOSSIL OOZE and yellowish gray (5Y 7/1) NANNOFOSSIL DIATOM OOZE.

Minor Lithology:
White (N8) DIATOM NANNOFOSSIL OOZE WITH FORAMINIFERS is interbedded with the major lithology throughout the entire core.

General Description:
The entire core is an intensely bioturbated mixture of the two dominant lithologies. Where the nannofossil-rich lithology dominates the sediment is very pale gray (N8) to pale yellowish gray (5Y 8/1). Where the diatom-rich lithology dominates the sediment is yellowish gray (5Y 7/1). There are gray (N5) mottles in both lithologies.

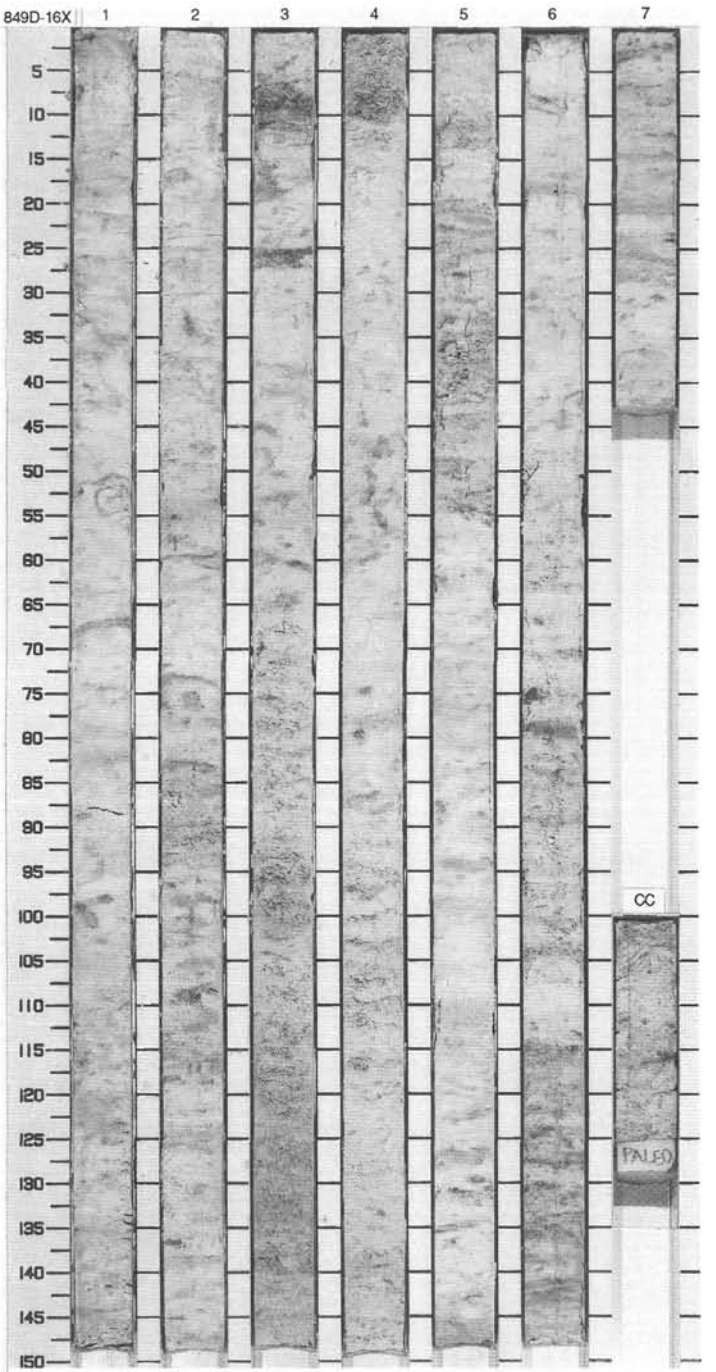
TRACE FOSSILS: Because of the intensity of the bioturbation there are few distinct individual trace fossils, but most appear to have been solid burrows.

BANDING CONTRAST: Slight.



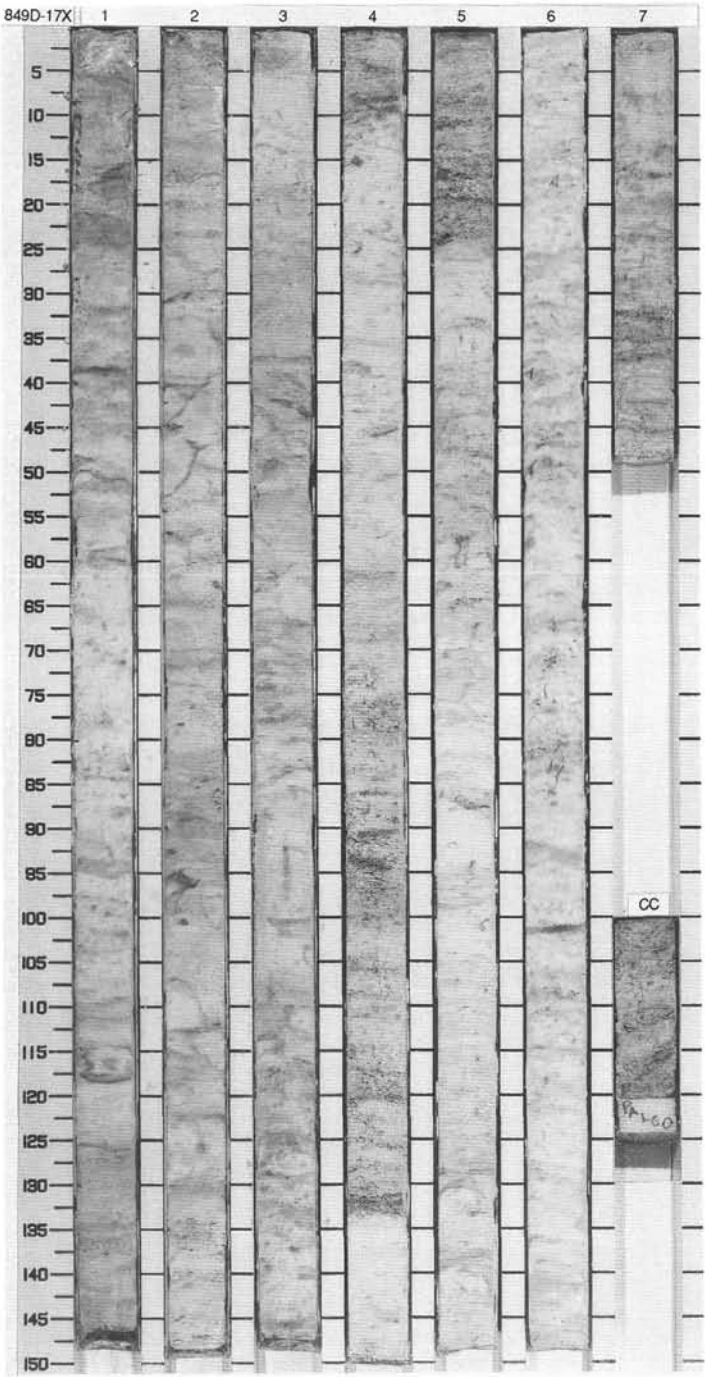
SITE 849 HOLE D CORE 16X CORED 144.5 - 154.1 mbsf

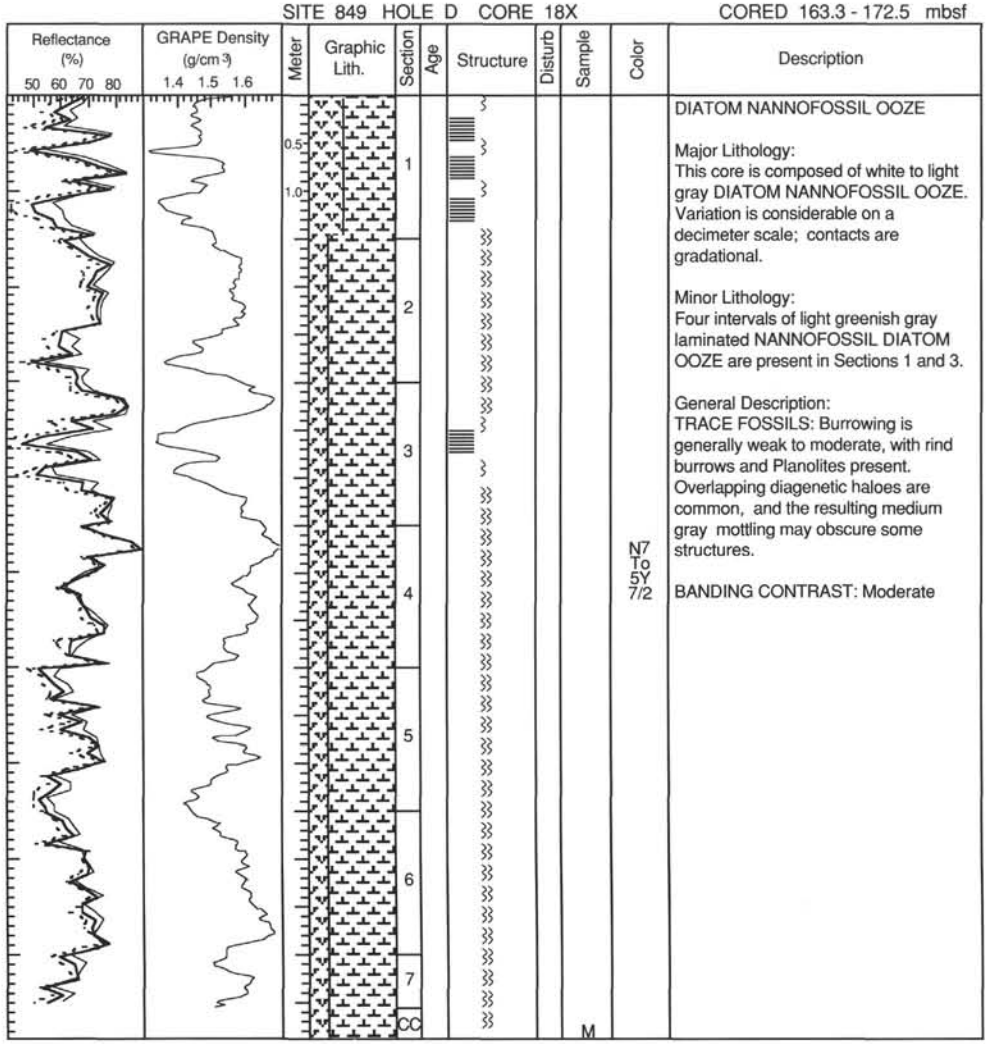
Reflectance (%) 50 60 70 80	GRAPE Density (g/cm³) 1.4 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				S M	N8 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE Major Lithology: The sediments in this core are composed of white (N8) to yellowish gray (5Y 7/1) DIATOM NANNOFOSSIL OOZE. Diagenetic mottling and bioturbation is extensive. Pods and irregular bands of pale olive (5Y 6/3) sediment are common. General Description: TRACE FOSSILS: Few distinct trace fossils are seen owing to the heavy bioturbation and mottling. BANDING CONTRAST: Moderate.

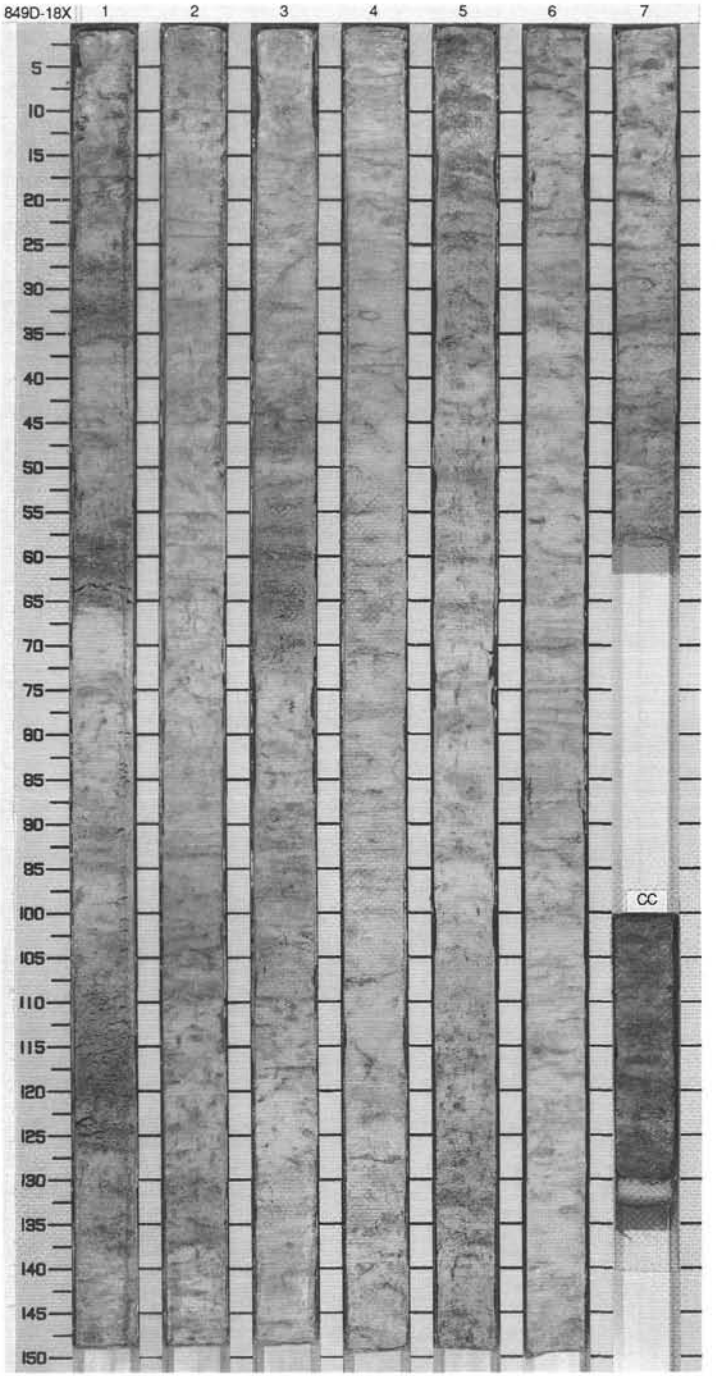


SITE 849 HOLE D CORE 17X CORED 154.1 - 163.3 mbsf

Reflectance (%) 50 60 70 80	GRAPE Density (g/cm³) 1.4 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				M	N8 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE Major Lithology: The sediments consist of light gray to white DIATOM NANNOFOSSIL OOZE. Diagenetic purplish gray color banding and mottling is extensive. Minor Lithology: Color bands in Sections 4 through 7 of the 'Structure' column indicate thin layers of light gray (5Y 7/1) NANNOFOSSIL DIATOM OOZE. General Description: TRACE FOSSILS: Few trace fossils are visible because of extensive mottling. BANDING CONTRAST: Moderate

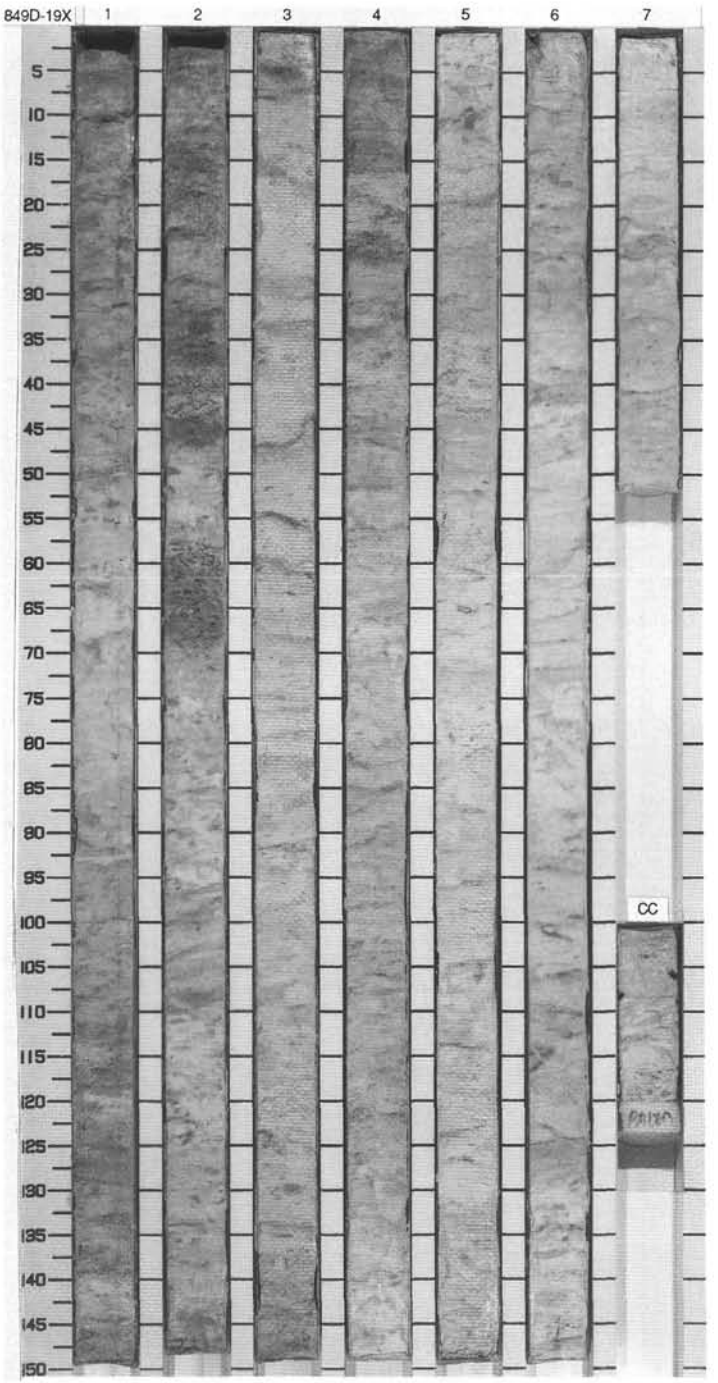



SITE 849 HOLE D CORE 18X
CORED 163.3 - 172.5 mbsf
Reflectance (%)
50 60 70 80
GRAPE Density (g/cm3)
1.4 1.5 1.6
Meter
Graphic Lith.
Section
Age
Structure
Disturb
Sample
Color
Description
0.5
1.0
1
2
3
4
5
6
7
CC
M
N7 To 5Y 7/2
DIATOM NANNOFOSSIL OOZE
Major Lithology:
This core is composed of white to light gray DIATOM NANNOFOSSIL OOZE. Variation is considerable on a decimeter scale; contacts are gradational.
Minor Lithology:
Four intervals of light greenish gray laminated NANNOFOSSIL DIATOM OOZE are present in Sections 1 and 3.
General Description:
TRACE FOSSILS: Burrowing is generally weak to moderate, with rind burrows and Planolites present. Overlapping diagenetic haloes are common, and the resulting medium gray mottling may obscure some structures.
BANDING CONTRAST: Moderate

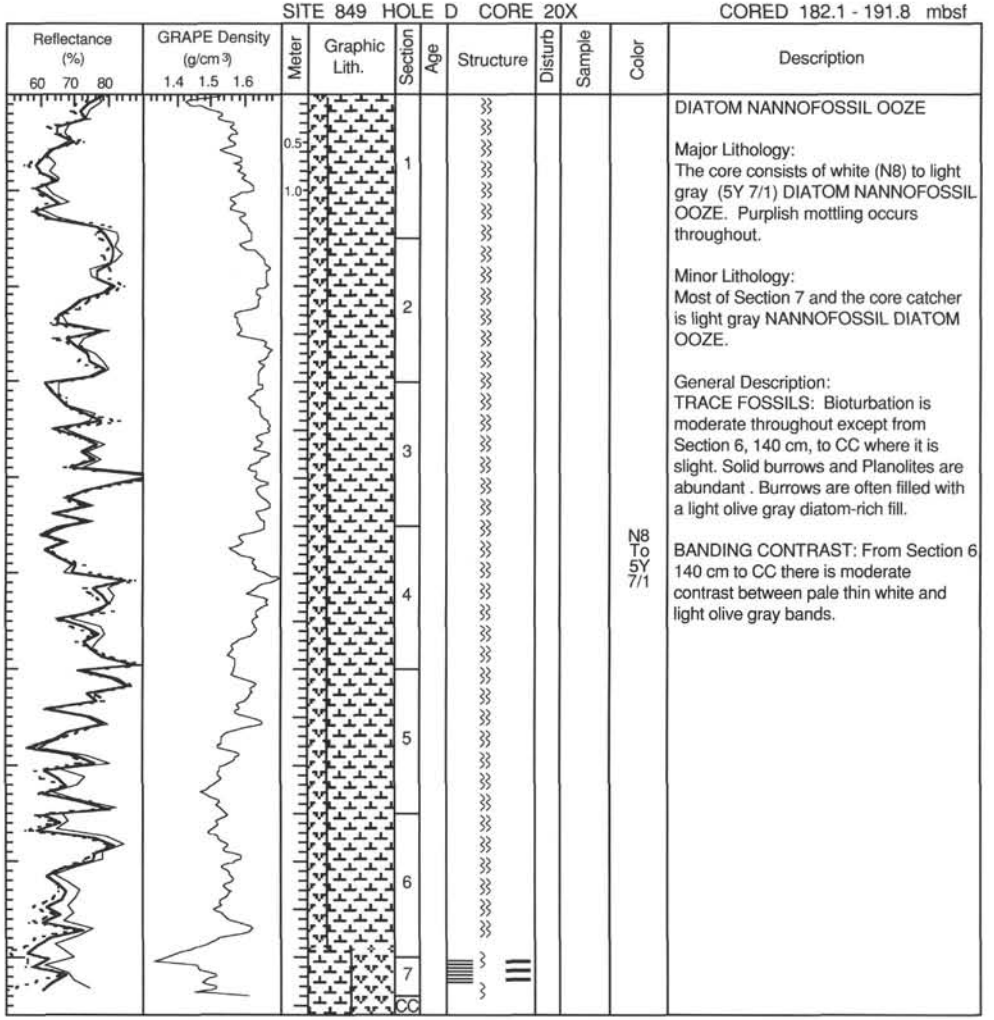

849D-18X
1
2
3
4
5
6
7
CC

SITE 849 HOLE D CORE 19X CORED 172.5 - 182.1 mbsf

Reflectance (%) 50 70	GRAPE Density (g/cm³) 1.4 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC					N8 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE Major Lithology: The dominant lithology is a white to light gray (N8 to 5Y 7/1) DIATOM NANNOFOSSIL OOZE. Dark bluish black mottling occurs throughout. Minor Lithology: Light olive gray to olive gray NANNOFOSSIL DIATOM OOZE containing very fine depositional laminations of diatom ooze consisting of monospecific concentrations of T. longissima is present in Section 1, 114-117 cm, Section 2, 13-23, 29-42, 56-70 and 115-117 cm. A slightly bioturbated, laminated interval is present in Section 4, 3-26 cm. Within the laminated intervals two-cm-scale color banding from white (5Y 8/1) to light olive gray (5Y 6/2) occurs. General Description: TRACE FOSSILS: Bioturbation is moderate to strong, but indistinct, in the dominant lithology and slight to nonexistent in the paler lithology. Solid burrows with Chondrites are present in the dominant lithology. BANDING CONTRAST: Contrast is slight to moderate between the diatom-rich and diatom-poor lithologies.



SITE 849 HOLE D CORE 20X CORED 182.1 - 191.8 mbsf



Description

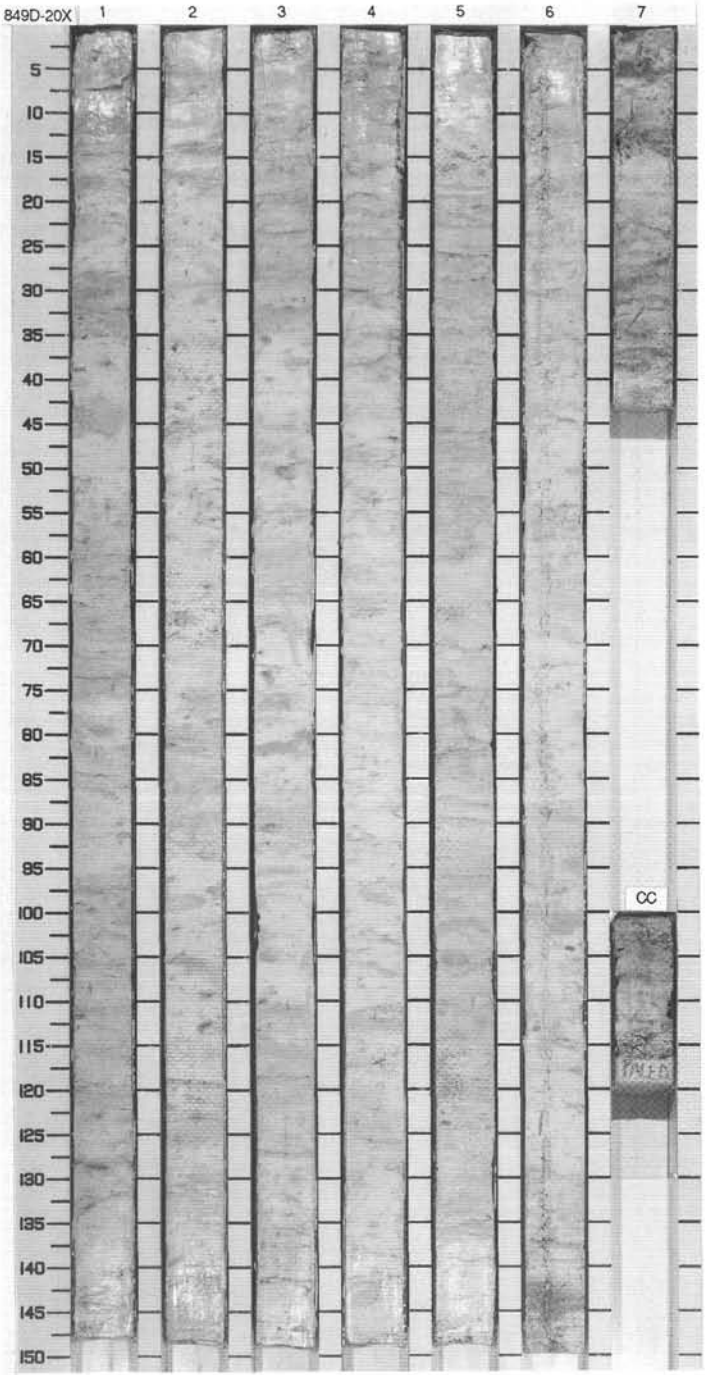
DIATOM NANNOFOSSIL OOZE

Major Lithology:
The core consists of white (N8) to light gray (5Y 7/1) DIATOM NANNOFOSSIL OOZE. Purplish mottling occurs throughout.

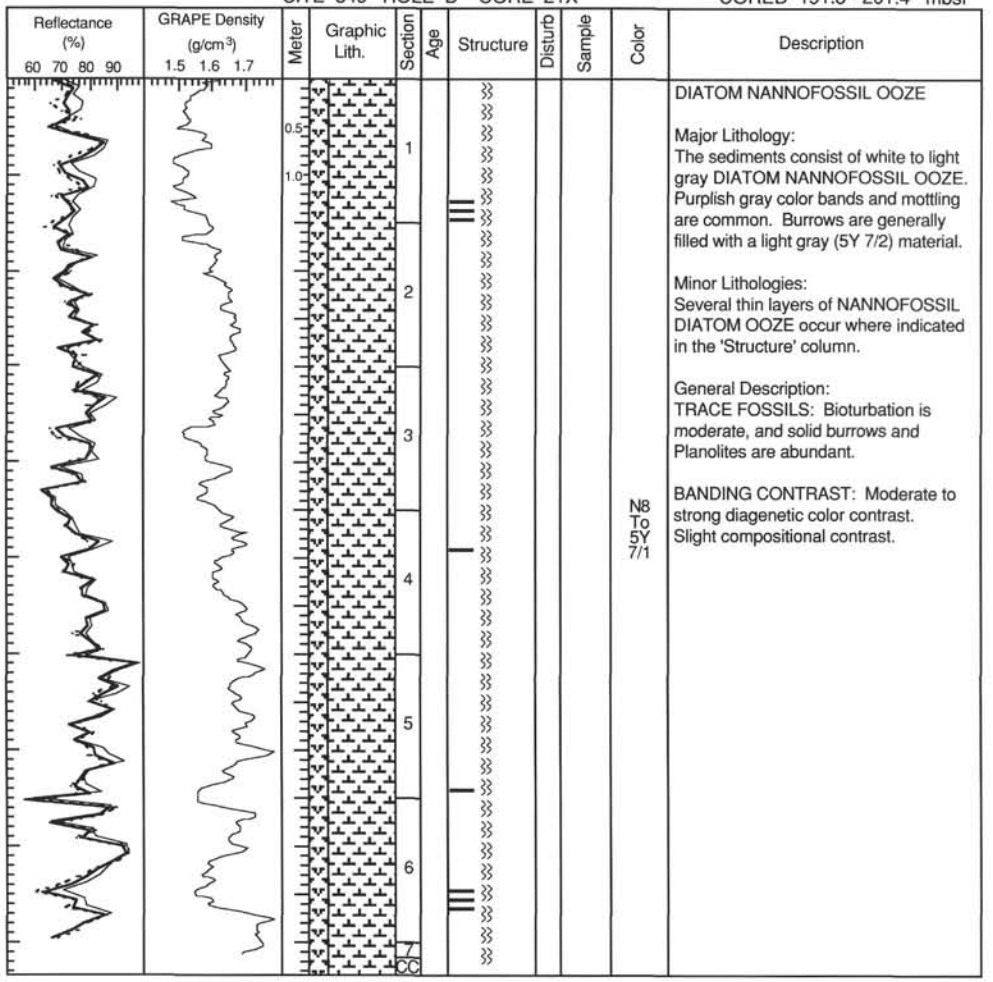
Minor Lithology:
Most of Section 7 and the core catcher is light gray NANNOFOSSIL DIATOM OOZE.

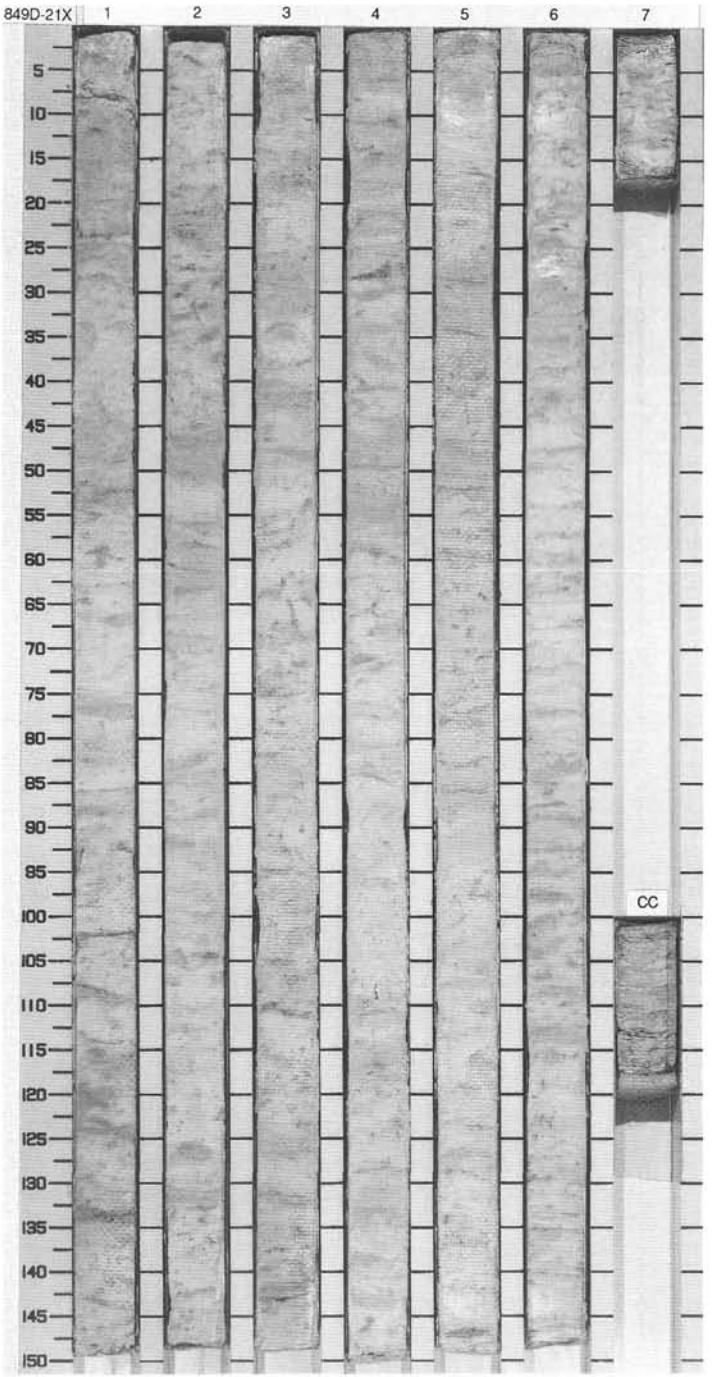
General Description:
TRACE FOSSILS: Bioturbation is moderate throughout except from Section 6, 140 cm, to CC where it is slight. Solid burrows and Planolites are abundant . Burrows are often filled with a light olive gray diatom-rich fill.

BANDING CONTRAST: From Section 6 140 cm to CC there is moderate contrast between pale thin white and light olive gray bands.

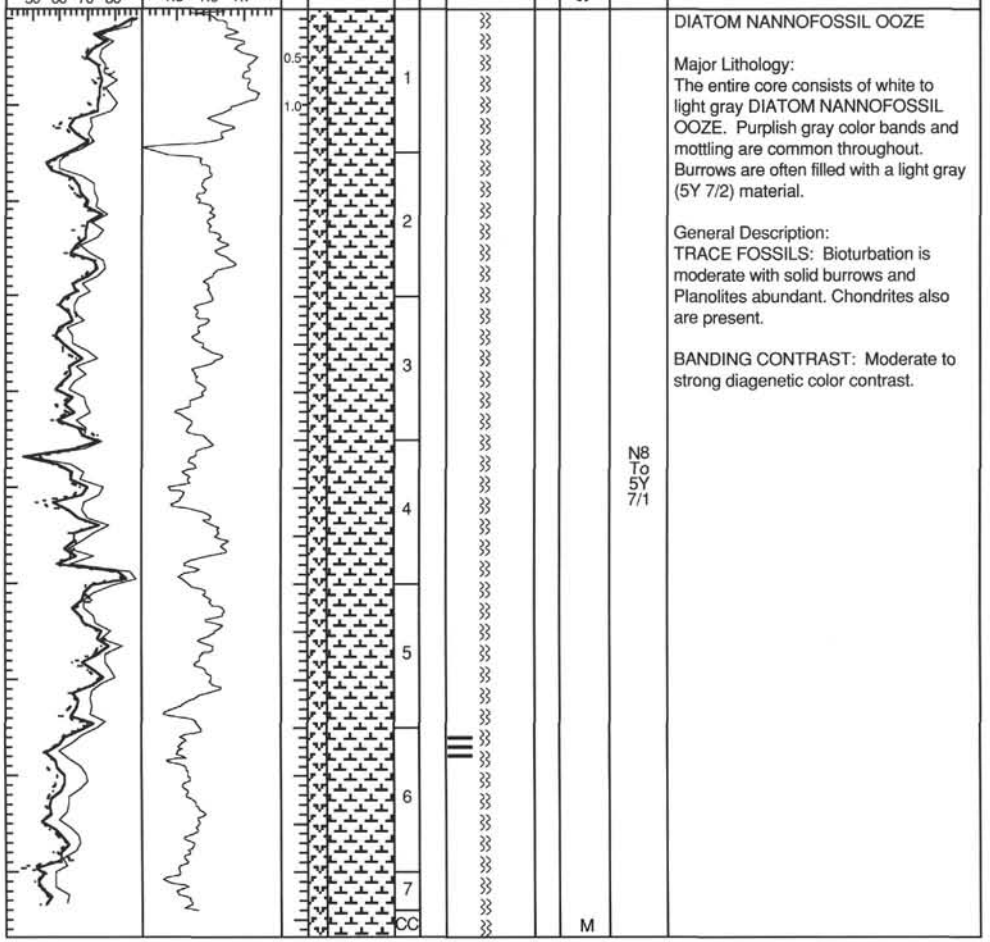


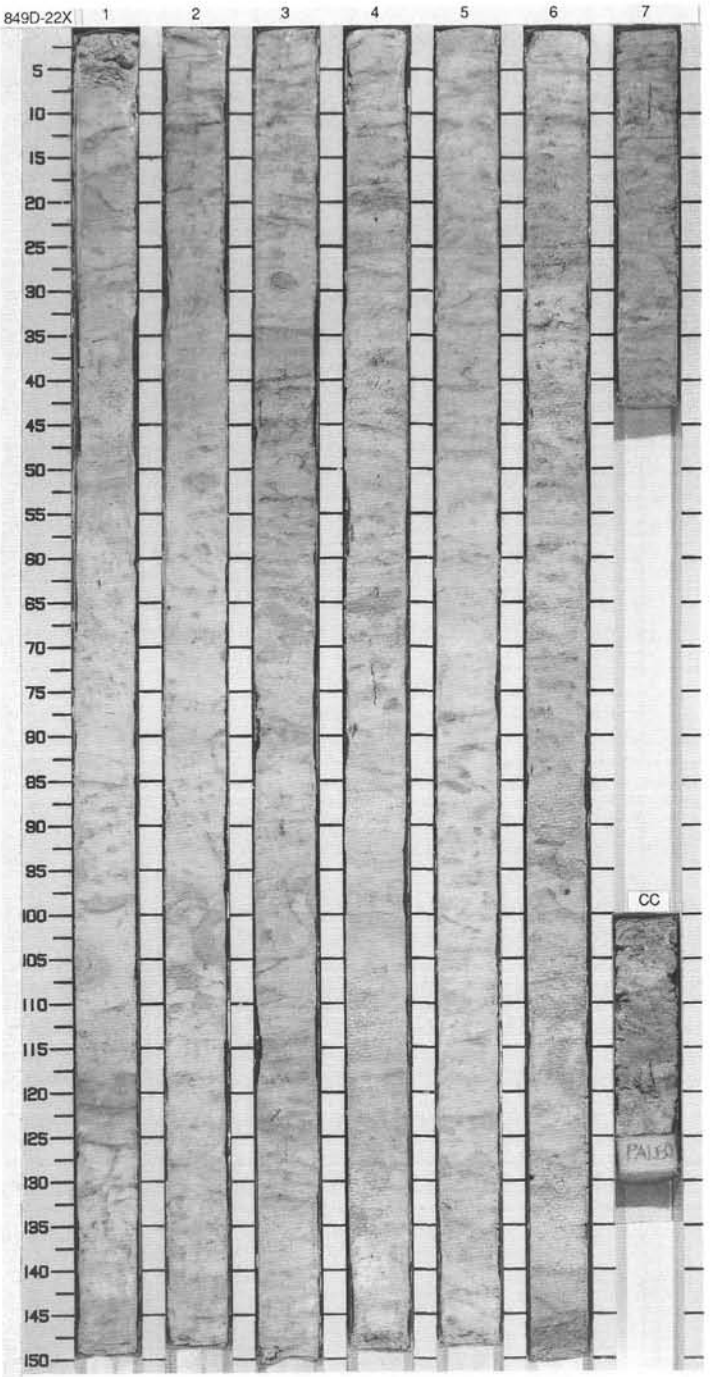
SITE 849 HOLE D CORE 21X CORED 191.8 - 201.4 mbsf





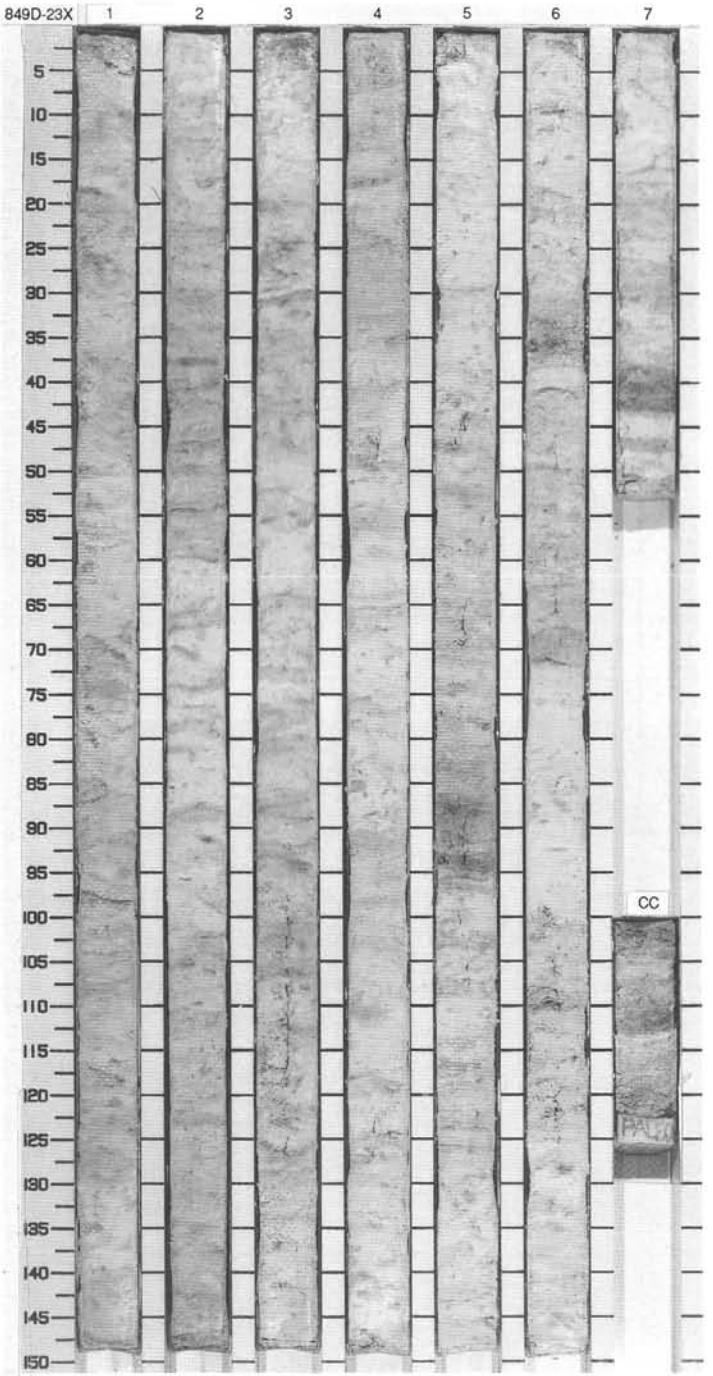
SITE 849 HOLE D CORE 22X CORED 201.4 - 211.1 mbsf





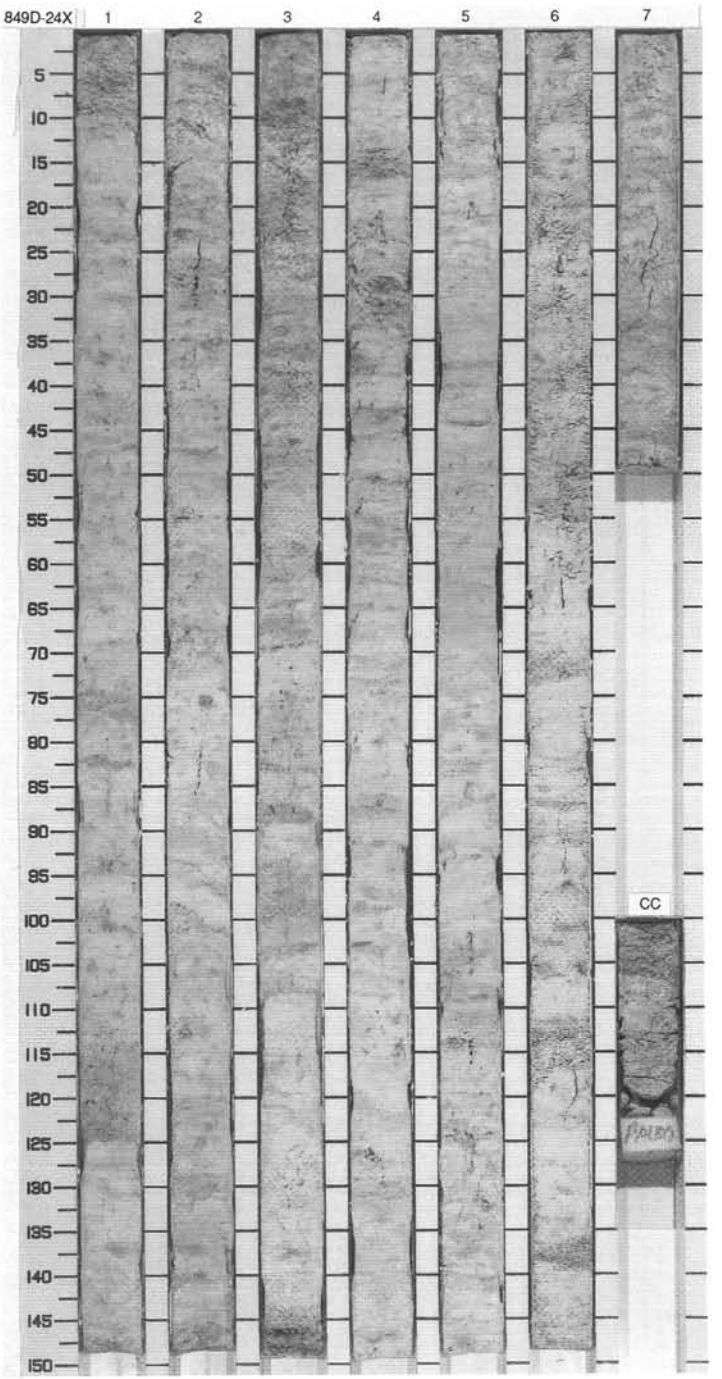
SITE 849 HOLE D CORE 23X CORED 211.1 - 220.8 mbsf

Reflectance (%) 60 80	GRAPE Density (g/cm³) 1.5 1.6 1.7	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC					N8 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE Major Lithology: The dominant lithology is a white to light gray (N8 to 5Y 7/1) DIATOM NANNOFOSSIL OOZE, which is mottled throughout. Minor Lithology: A few intervals of light olive gray, finely laminated NANNOFOSSIL DIATOM OOZE occur at Section 5, 87-96 cm, Section 6, 32-37, 68-71 cm, Section 7, 39-43 cm. General Description: TRACE FOSSILS: The core surface is indistinct but reveals probable Planolites, common solid burrows and some Chondrites. Some light olive gray bands may be Zoophycos. BANDING CONTRAST: Slight.



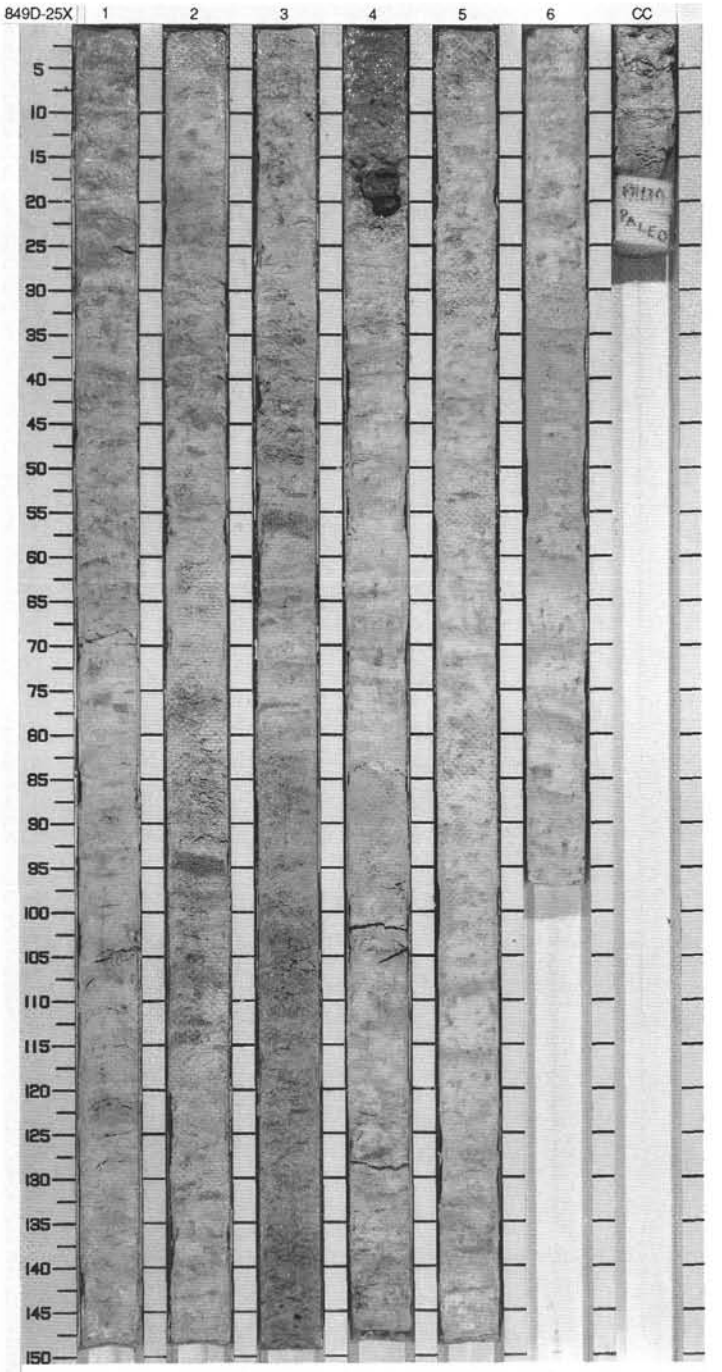
SITE 849 HOLE D CORE 24X CORED 220.8 - 230.5 mbsf

Reflectance (%) 50 60 70 80	GRAPE Density (g/cm³) 1.4 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC					N8 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE Major Lithology: The dominant lithology is a white to light gray (N8 to 5Y 7/1) DIATOM NANNOFOSSIL OOZE. Minor Lithology: Interbedded with the major lithology is a light olive gray to light gray NANNOFOSSIL DIATOM OOZE, which occurs as laminated and thinly banded intervals in Section 1, 3-9, 74-82, 113-125, Section 2, 0-10, 20-36 cm, Section 3, 6-25, 66-108, 146-150 cm, Section 4, 13-17, 22-53 cm Section 5, 101-136 cm, Section 6, 23-55 cm, CC, 0-7 cm. General Description: TRACE FOSSILS: The core surface is indistinct, but reveals probable Planolites, solid burrows and Chondrites. BANDING CONTRAST: Slight.



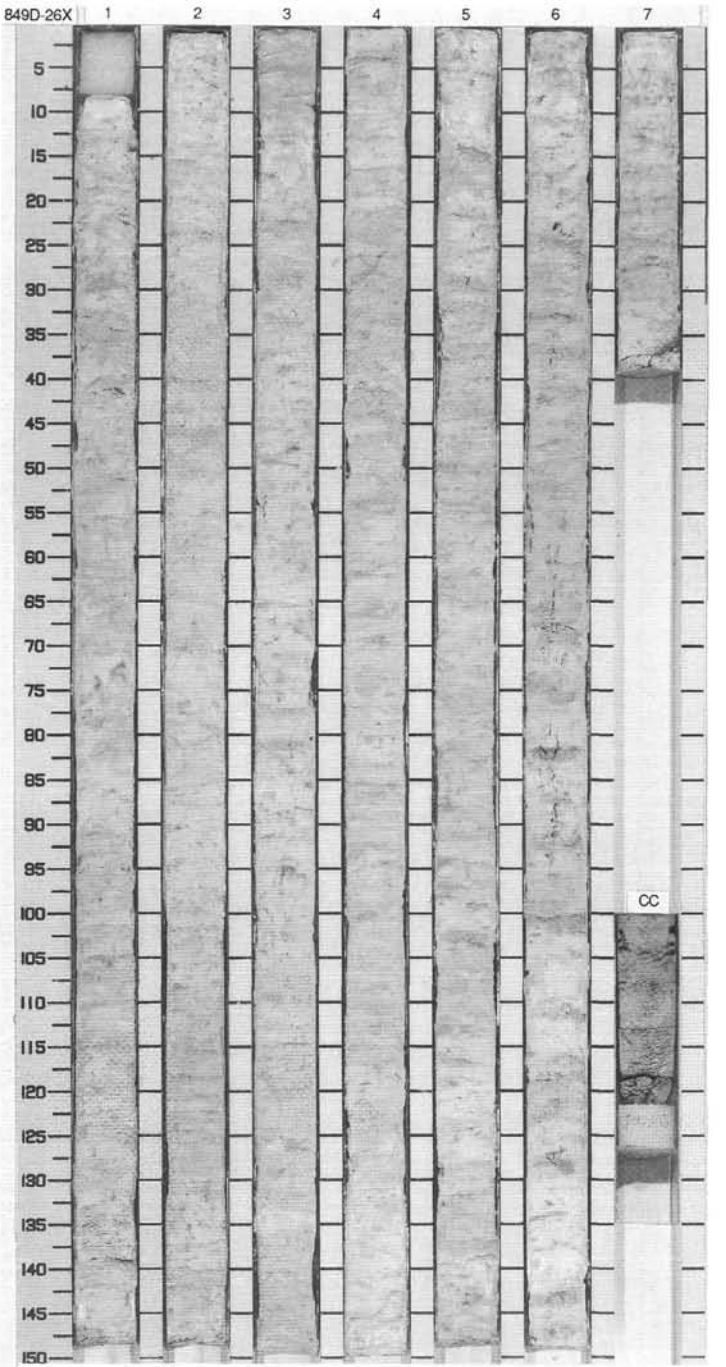
SITE 849 HOLE D CORE 25X CORED 230.5 - 240.1 mbsf

Reflectance (%) 50 70	GRAPE Density (g/cm³) 1.4 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 CC				M	5Y 7/1 N8	DIATOM NANNOFOSSIL OOZE and NANNOFOSSIL OOZE WITH FORAMINIFERS AND RADIOLARIANS Major Lithologies: The dominant lithology from Section 1 to Section 5, 10 cm, is a light gray (5Y 7/1) DIATOM NANNOFOSSIL OOZE. Sediments from Section 5 to CC are a white (N8) NANNOFOSSIL OOZE WITH FORAMINIFERS AND RADIOLARIANS. Diagenetic purplish bands are common in both lithologies. Minor Lithologies: A light olive gray (5Y 6/2), finely laminated NANNOFOSSIL DIATOM OOZE is present from Section 3, 82 cm to Section 4, 10 cm. It is immediately underlain by a pale olive to olive, laminated PORCELLANOUS DOLOMITE bed, which is fragmented, but at least 3 cm thick. Two intervals of partly laminated DIATOM NANNOFOSSIL OOZE occur in Section 2, 70-105 cm, and Section 3, 33-53 cm. General Description: TRACE FOSSILS: Bioturbation is moderate in the major lithology and slight in the diatom-rich intervals. Solid burrows and Planolites are common and Chondrites is occasionally observed. BANNDING CONTRAST: Moderate.



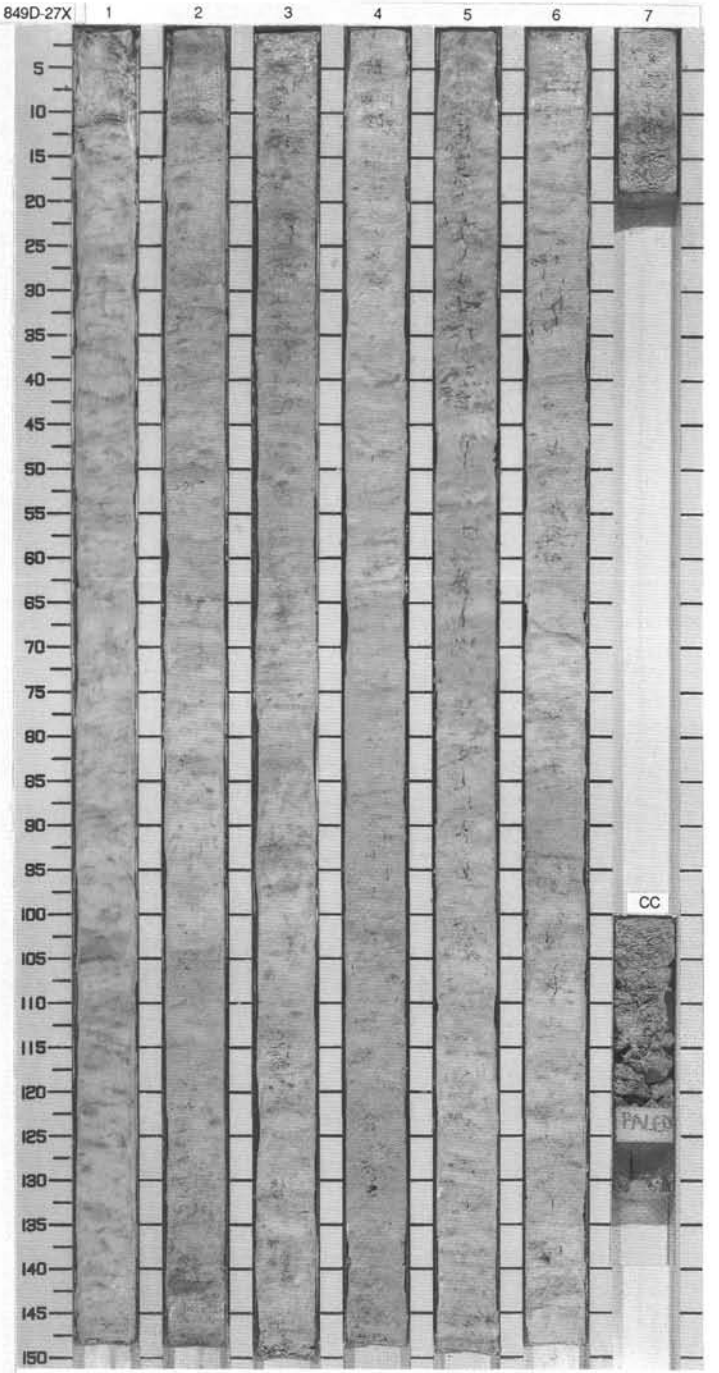
SITE 849 HOLE D CORE 26X CORED 240.1 - 249.8 mbsf

Reflectance (%) 60 70 80	GRAPE Density (g/cm³) 1.6 1.7 1.8	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC					5Y 8/1 To 5Y 7/1	DIATOM NANNOFOSSIL OOZE Major Lithology: The sediments consist of white to light gray DIATOM NANNOFOSSIL OOZE. *Purplish gray color bands and mottling* are common. General Description: TRACE FOSSILS: Bioturbation is moderate; solid burrows and Planolites are abundant. BANDING CONTRAST: Moderate to *high diagenetic color contrast.*



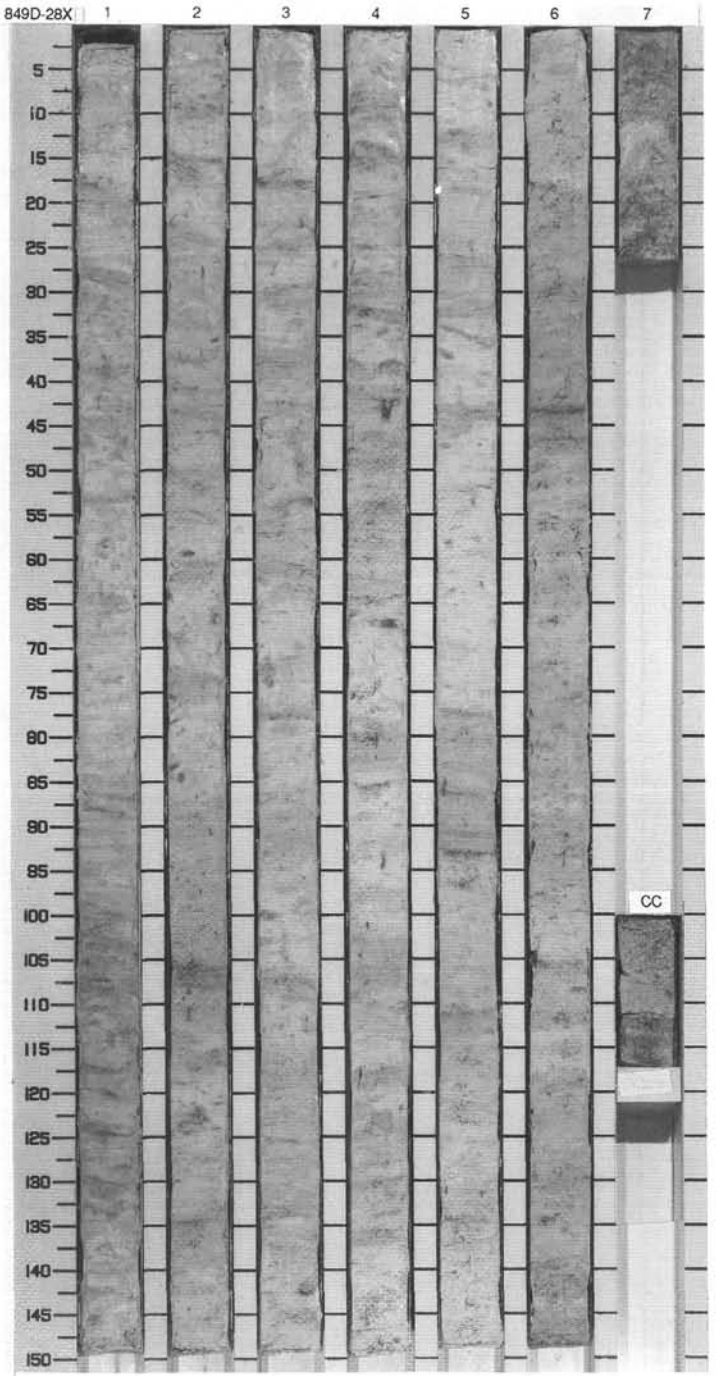
SITE 849 HOLE D CORE 27X CORED 249.8 - 259.0 mbsf

Reflectance (%) 60 70 80	GRAPE Density (g/cm³) 1.5 1.6 1.7	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				M	5Y 7/1 To 5Y 8/1	DIATOM NANNOFOSSIL OOZE Major Lithology: This core consists of white (5Y 8/1) to light gray (5Y 7/1), moderately bioturbated DIATOM NANNOFOSSIL OOZE. Diagenetic gray (N6) and light green gray (5G 7/1) mottling is present throughout. General Description: TRACE FOSSILS: No distinct trace fossils are present. BANDING CONTRAST: None.

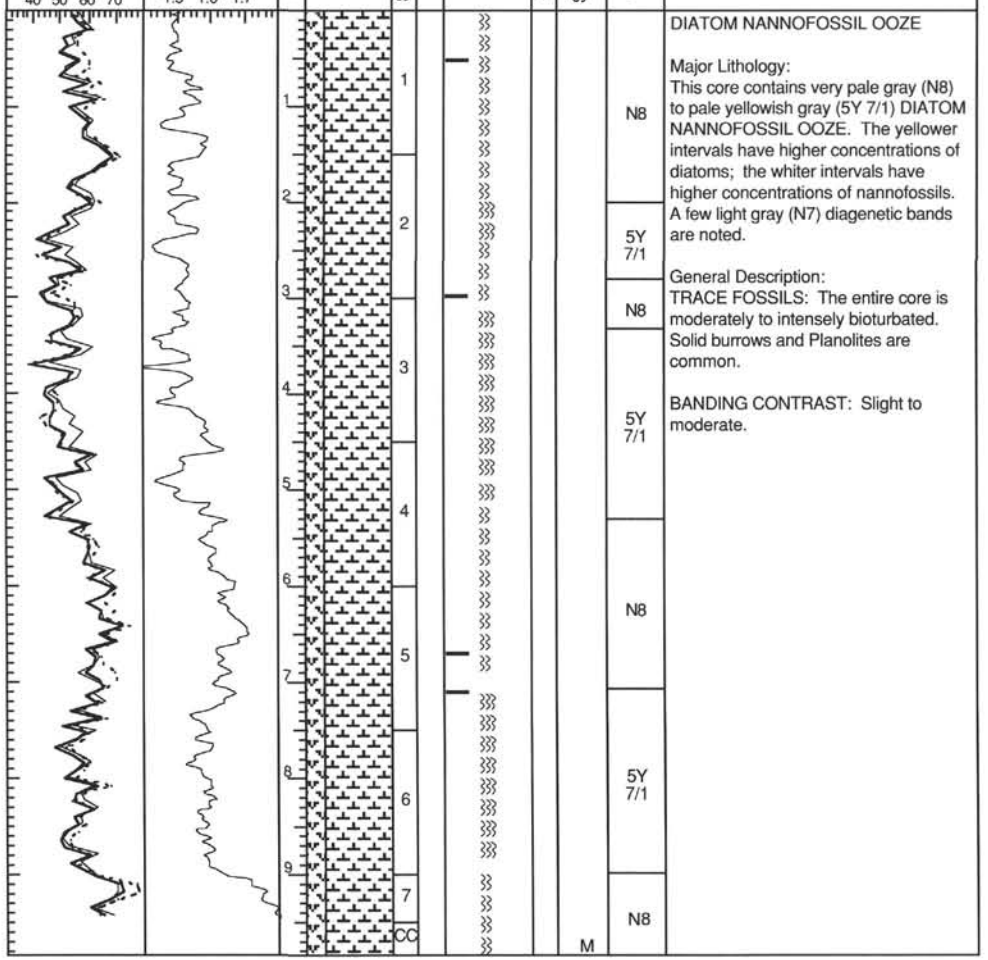


SITE 849 HOLE D CORE 28X CORED 259.0 - 268.6 mbsf

Reflectance (%) 60 80	GRAPE Density (g/cm³) 1.6 1.7 1.8	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				M	N8 5Y 7/1	NANNOFOSSIL OOZE WITH DIATOMS Major Lithology: This core contains very pale gray (N8), intensely bioturbated NANNOFOSSIL OOZE WITH DIATOMS. A few light gray (N7) color bands are present. Minor Lithology: The minor lithology is very pale to light yellowish gray (5Y 8/1, 7/1) DIATOM NANNOFOSSIL OOZE WITH RADIOLARIANS. General Description: TRACE FOSSILS: Solid burrows and Planolites are present, but most burrows are indistinct. BANDING CONTRAST: Slight.



SITE 849 HOLE D CORE 29X CORED 268.6 - 278.3 mbsf



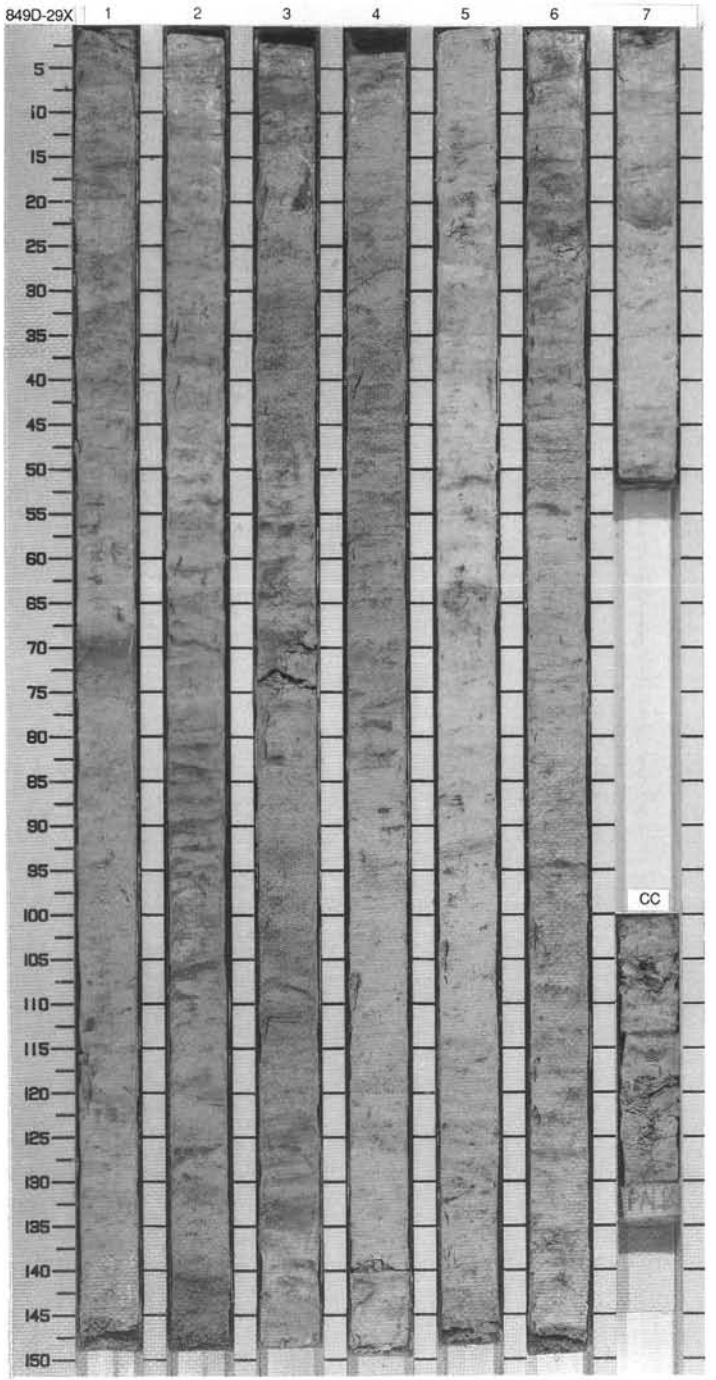
Description

DIATOM NANNOFOSSIL OOZE

Major Lithology:
This core contains very pale gray (N8) to pale yellowish gray (5Y 7/1) DIATOM NANNOFOSSIL OOZE. The yellower intervals have higher concentrations of diatoms; the whiter intervals have higher concentrations of nannofossils. A few light gray (N7) diagenetic bands are noted.

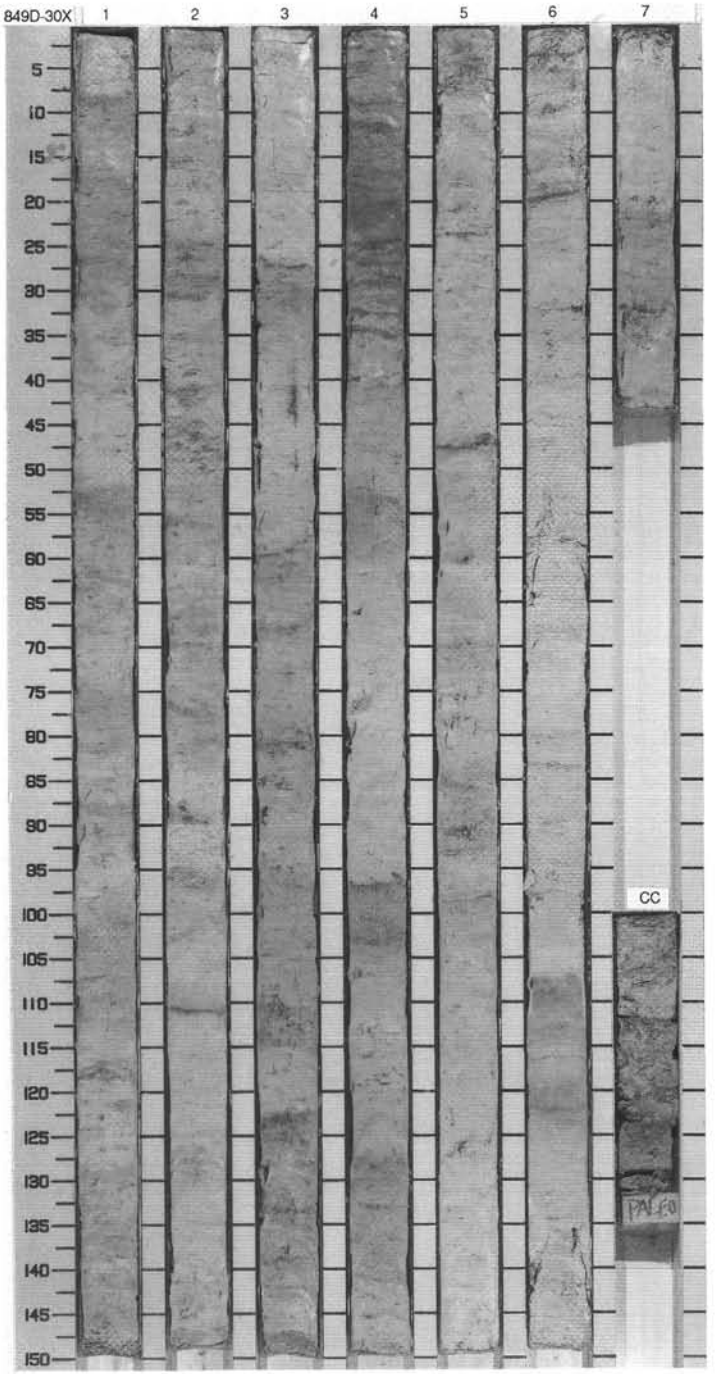
General Description:
TRACE FOSSILS: The entire core is moderately to intensely bioturbated. Solid burrows and Planolites are common.

BANDING CONTRAST: Slight to moderate.

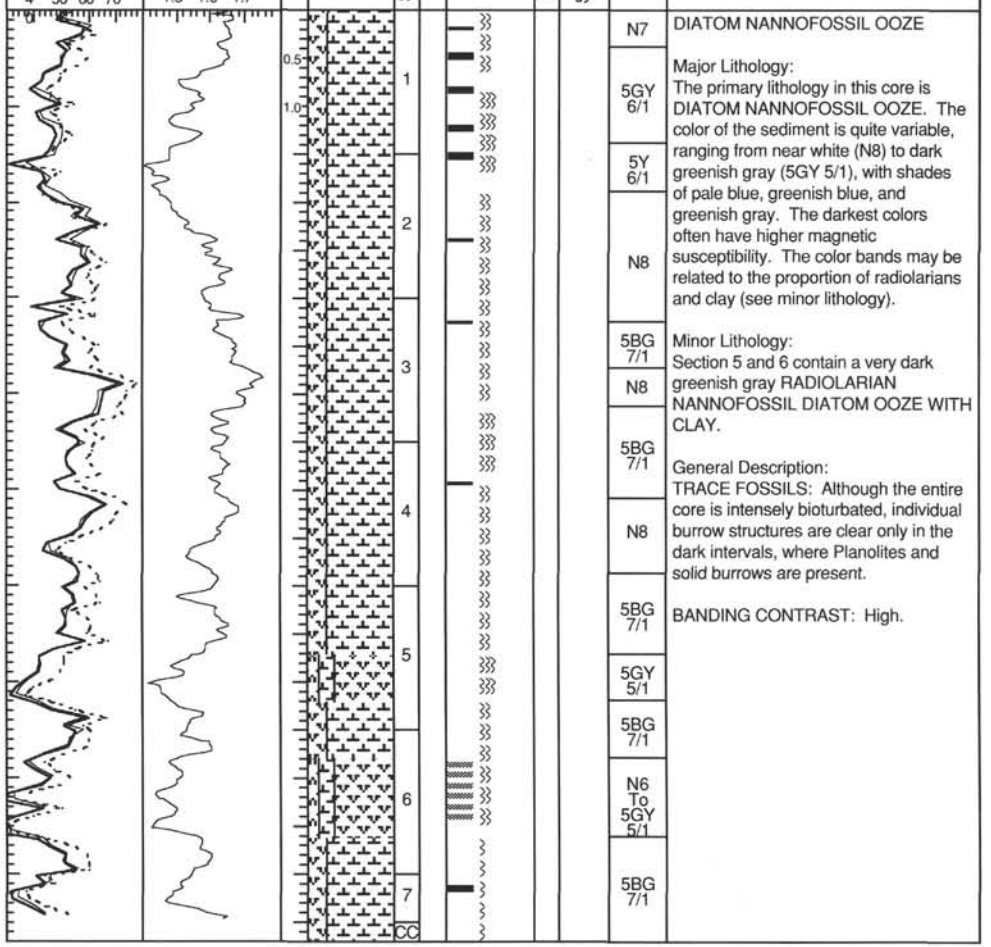


SITE 849 HOLE D CORE 30X CORED 278.3 - 288.0 mbsf

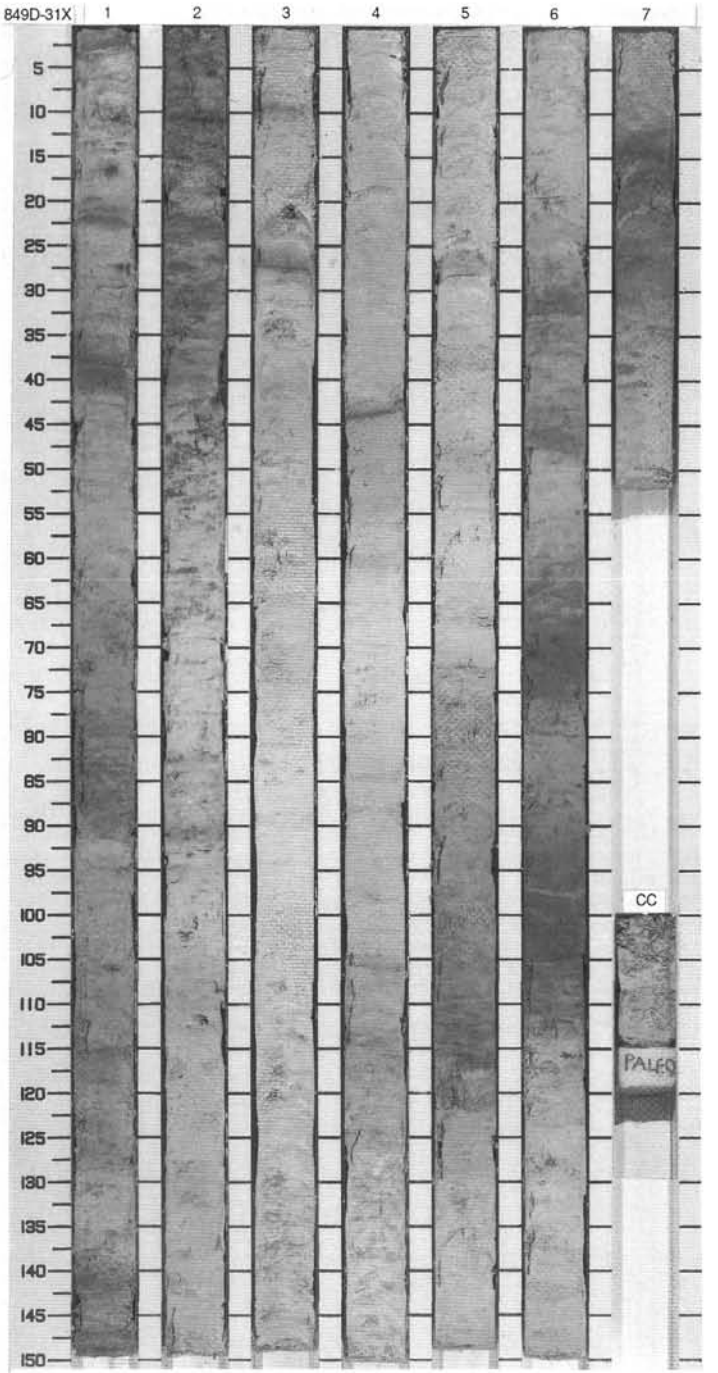
Reflectance (%) 50 60 70 80	GRAPE Density (g/cm³) 1.6 1.7 1.8	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1 2 3 4 5 6 7 CC				M	5Y 7/1 To 5Y 8/1	NANNOFOSSIL OOZE WITH RADIOLARIANS, DIATOMS AND FORAMINIFERS Major Lithology: The entire core is composed of white to light gray, slightly to moderately bioturbated NANNOFOSSIL OOZE WITH RADIOLARIANS, DIATOMS AND FORAMINIFERS. Diagenetic light gray (N7) and light greenish gray (5G 7/1) banding is common (indicated in structure column). General Description: TRACE FOSSILS: There are no distinct trace fossils. BANDING CONTRAST: Moderate.



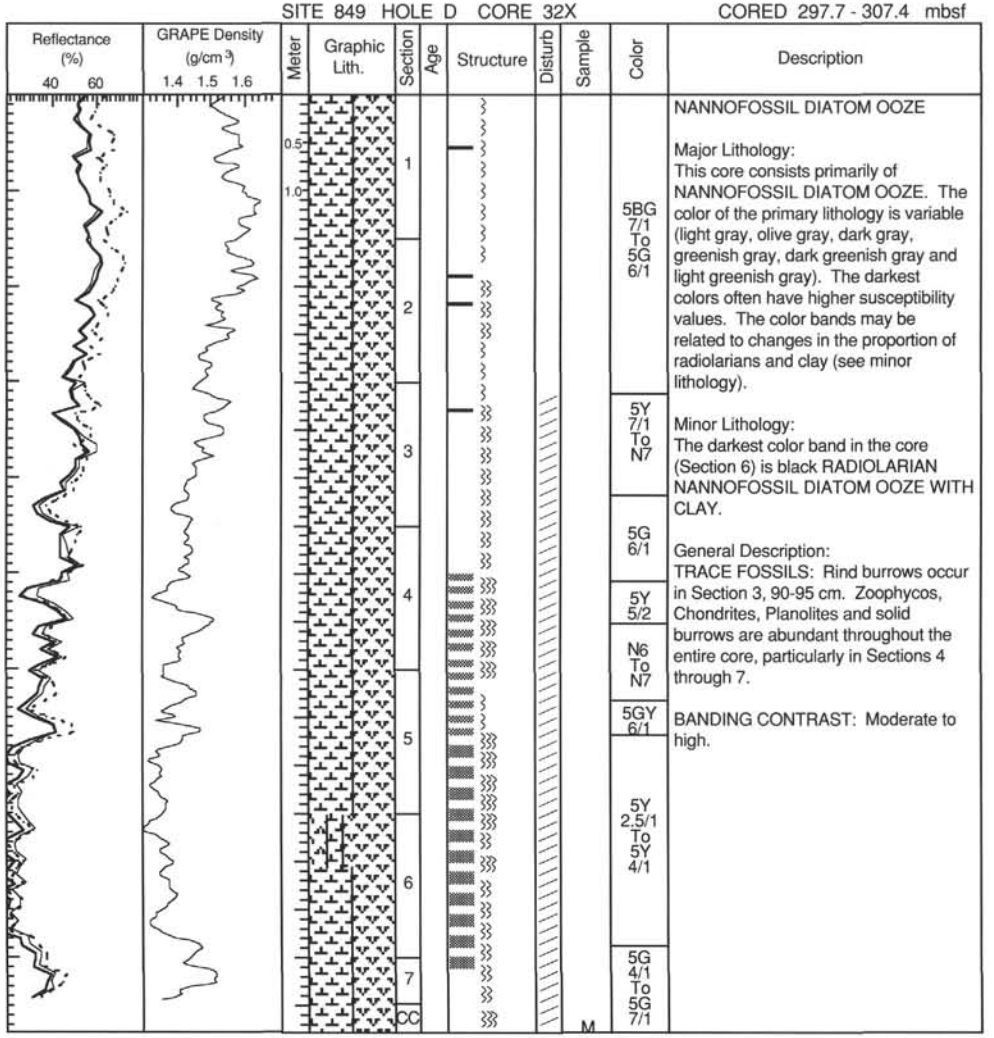
SITE 849 HOLE D CORE 31X CORED 288.0 - 297.7 mbsf

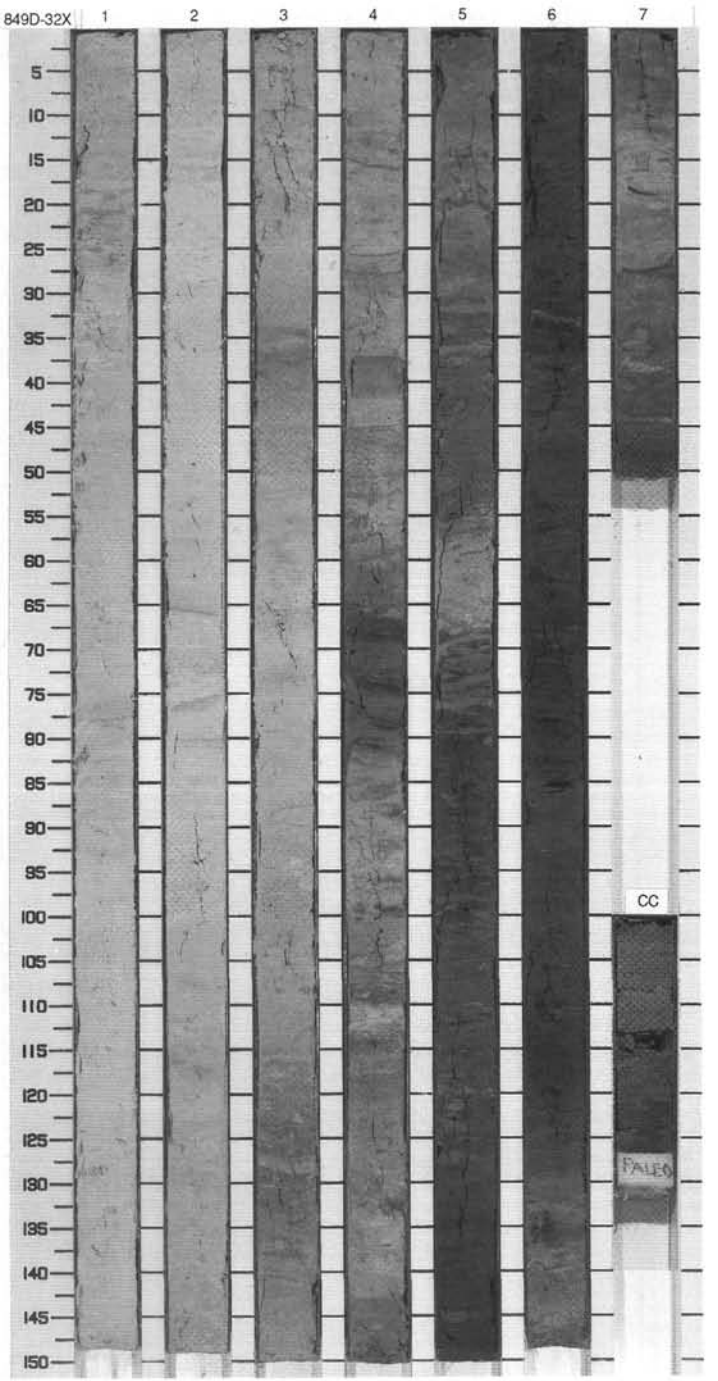


Color	Description
N7	DIATOM NANNOFOSSIL OOZE
5GY 6/1	Major Lithology: The primary lithology in this core is DIATOM NANNOFOSSIL OOZE. The color of the sediment is quite variable, ranging from near white (N8) to dark greenish gray (5GY 5/1), with shades of pale blue, greenish blue, and greenish gray. The darkest colors often have higher magnetic susceptibility. The color bands may be related to the proportion of radiolarians and clay (see minor lithology).
5Y 6/1	
N8	
5BG 7/1	Minor Lithology: Section 5 and 6 contain a very dark greenish gray RADIOLARIAN NANNOFOSSIL DIATOM OOZE WITH CLAY.
N8	
5BG 7/1	General Description: TRACE FOSSILS: Although the entire core is intensely bioturbated, individual burrow structures are clear only in the dark intervals, where Planolites and solid burrows are present.
N8	
5BG 7/1	BANDING CONTRAST: High.
5GY 5/1	
5BG 7/1	
N6 To 5GY 5/1	
5BG 7/1	



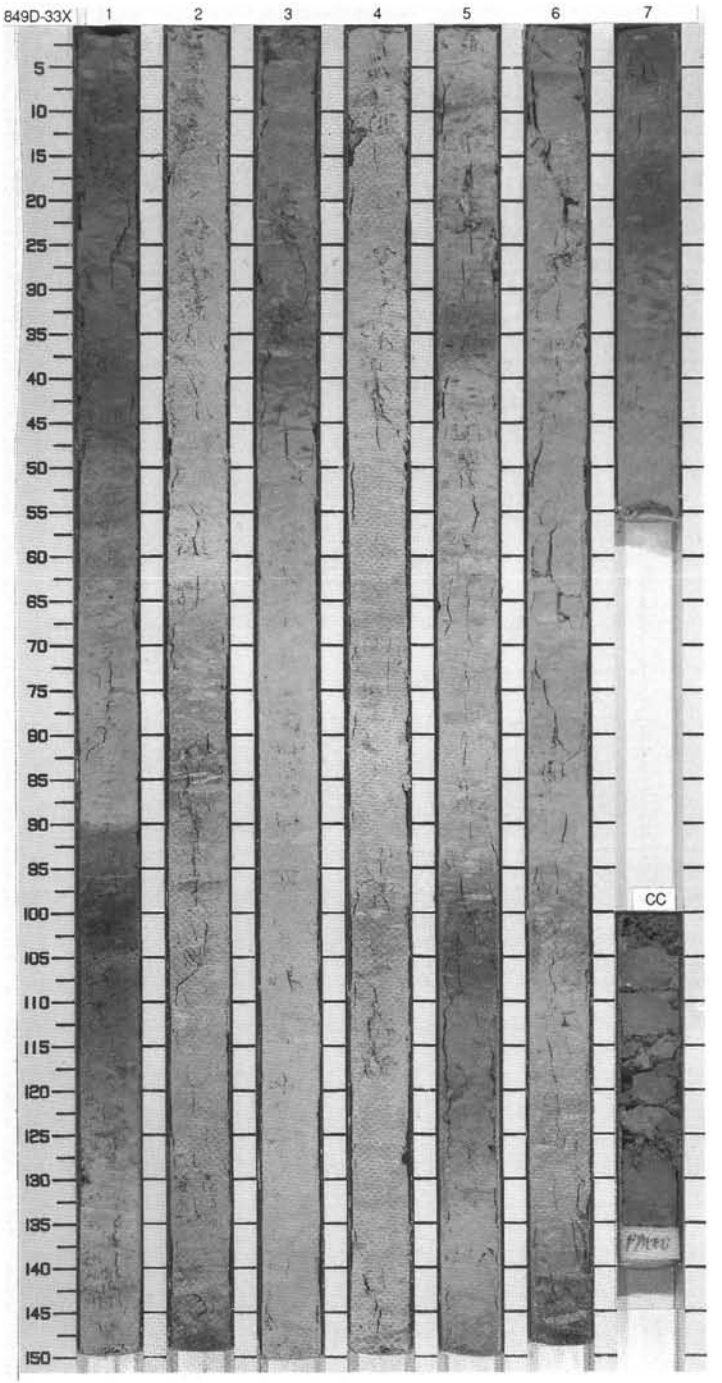
SITE 849 HOLE D CORE 32X CORED 297.7 - 307.4 mbsf



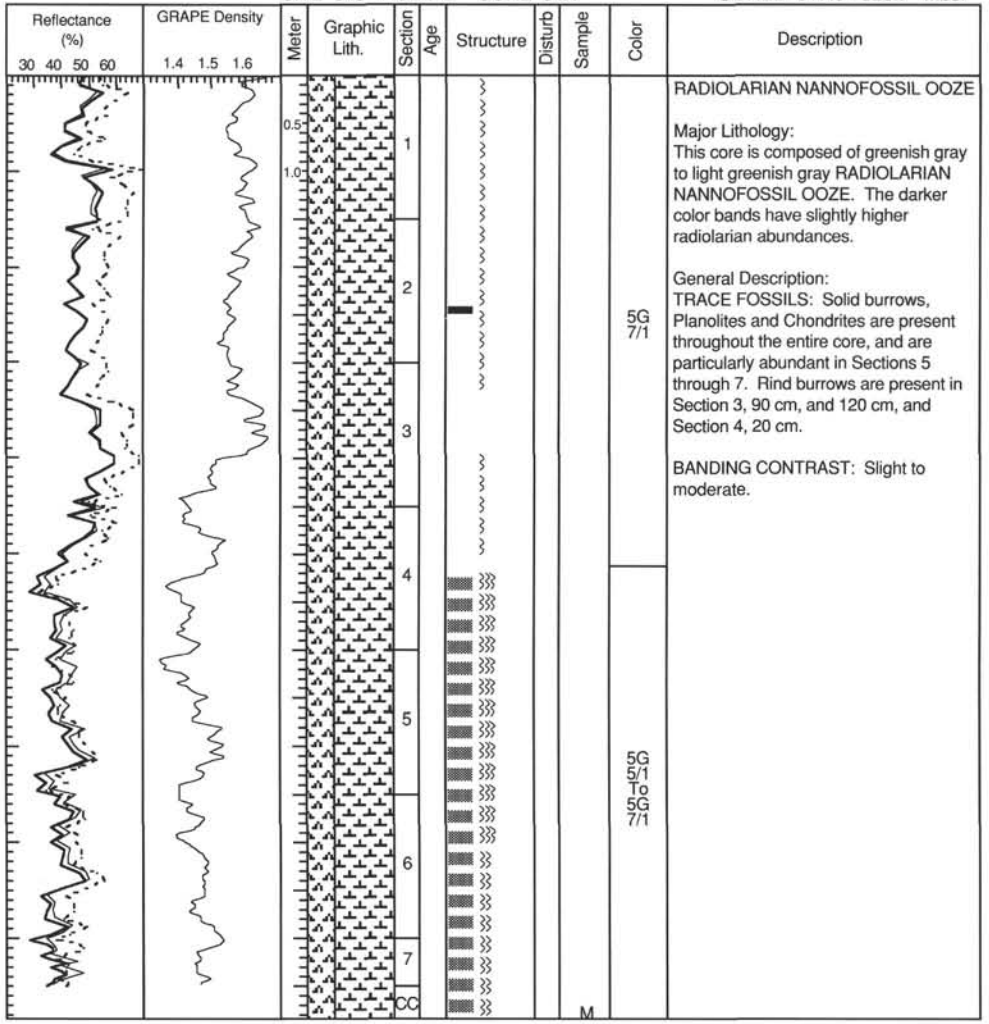


SITE 849 HOLE D CORE 33X CORED 307.4 - 317.0 mbsf

Reflectance (%) 40 60	GRAPE Density (g/cm³) 1.4 1.5 1.6	Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		0.5 1.0		1					5GY 7/1	RADIOLARIAN NANNOFOSSIL OOZE Major Lithology: This core contains light greenish gray (5GY 7/1 to 6/1) to gray (N6) RADIOLARIAN NANNOFOSSIL OOZE. The radiolarian content ranges from 20-40% with higher percentages in the darker sediments. General Description: There are several small (30 mm) dark volcanic glass fragments in Sections 1, 2 and 6. The entire core is intensively bioturbated, but the burrowing is clearer in the darker intervals where the contrast between the matrix and burrow fill is strong. TRACE FOSSILS: Chondrites is common in all of the dark intervals, as well as in Section 2, 65-140 cm. Rind burrows are present at Section 5, 10 cm and Section 6, 13 cm. There are abundant solid burrows and Planolites. BANDING CONTRAST: Moderate.
				2					N6	
				3					5GY 7/1	
				4					5GY 6/1	
				5					5GY 7/1	
				6					5GY 7/1 To 5GY 6/1	
				7						
				CC				M	5GY 7/1	



SITE 849 HOLE D CORE 34X CORED 317.0 - 326.7 mbsf



RADIOLARIAN NANNOFOSSIL OOZE

Major Lithology:
This core is composed of greenish gray to light greenish gray RADIOLARIAN NANNOFOSSIL OOZE. The darker color bands have slightly higher radiolarian abundances.

General Description:
TRACE FOSSILS: Solid burrows, Planolites and Chondrites are present throughout the entire core, and are particularly abundant in Sections 5 through 7. Rind burrows are present in Section 3, 90 cm, and 120 cm, and Section 4, 20 cm.

BANDING CONTRAST: Slight to moderate.