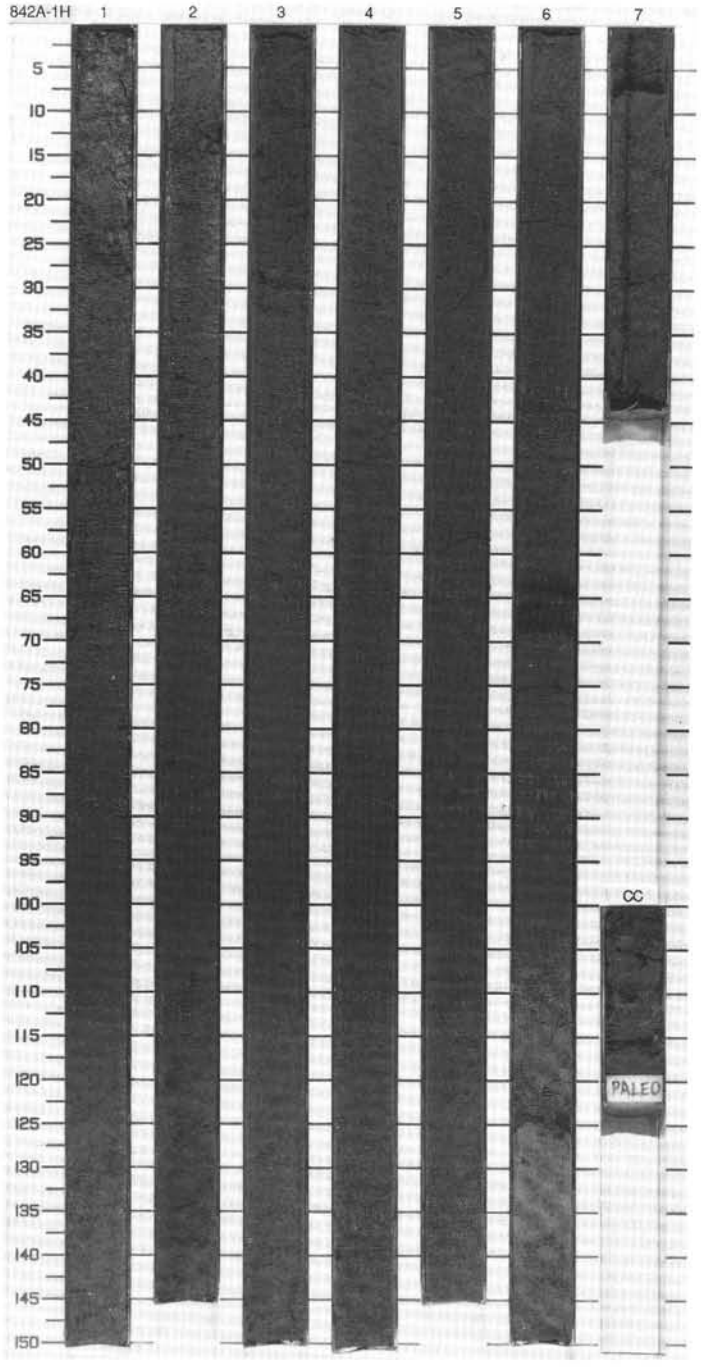
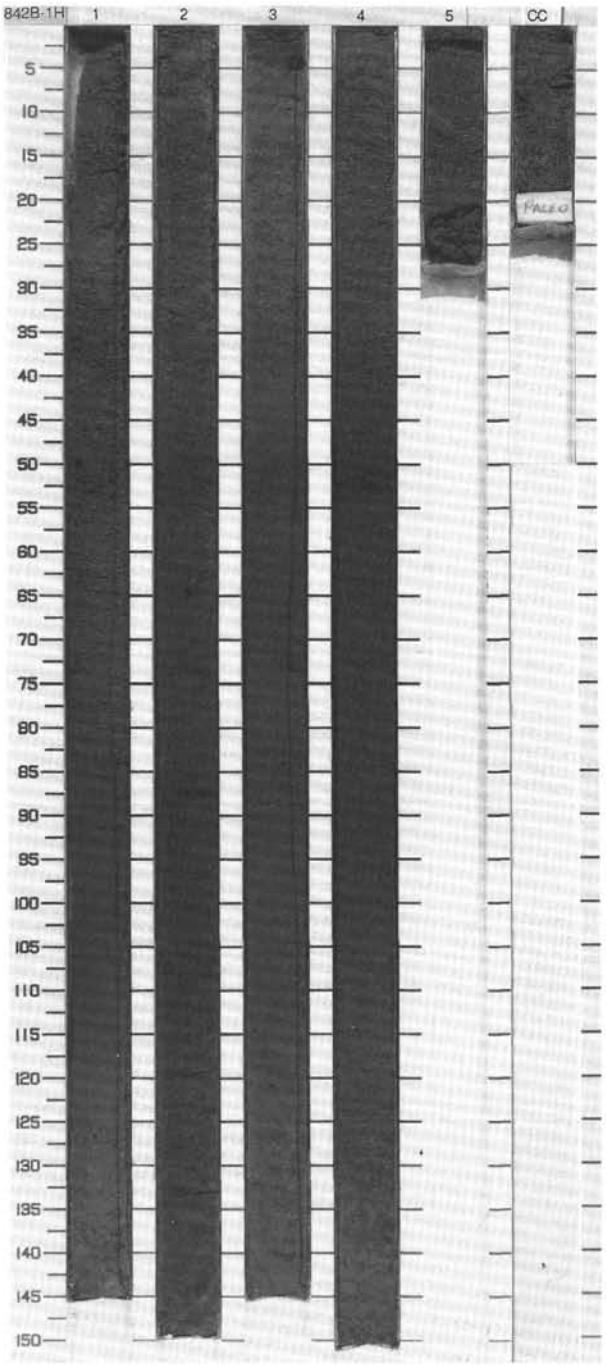
SITE 842 HOLE A CORE 1H CORED 0.0 - 9.5 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 7 CC	Quaternary	A A• F A F A F A		D S P S P P S P D I P P P S P P P D I P D S S S P S S D S P M	10YR 3/3 10YR 3/4 10YR 3/3 10YR 4/3 10YR 3/3 10YR 4/2 10YR 4/3 10YR 5/4 10YR 4/4	SILTY CLAY/CLAYEY SILT/CLAY Major Lithology: Dark brown (10YR 3/3 and 10YR 4/3) silty clay, clayey silt anf clay with major to minor amounts of vitric ash and minor amounts of radiolarians. Silty clays and clayey silts dominate sections one and two whereas clay is more common in sections three through seven. Sediment appears homogenous except for mottling in sections two and three and in ash layers as described below. Minor Lithologies: Layers of dark gray (10YR 3/1) vitric ash, clayey ash, and ash with clay are found at Section 1, 23-27 cm, and Section 6, 63-70 cm and 120-126 cm, and Section 7, 0-8 cm. Ash layers have sharp lower contacts, fine upward, and grade upward into surrounding sediment. Yellowish brown (10YR 5/4) nannofossil radiolarian ooze and clayey nannofossil ooze are found in Section 6, 126-140 cm, immediately below an ash layer. The clay content increases with depth and the ooze grades into a clay at about 140 cm.



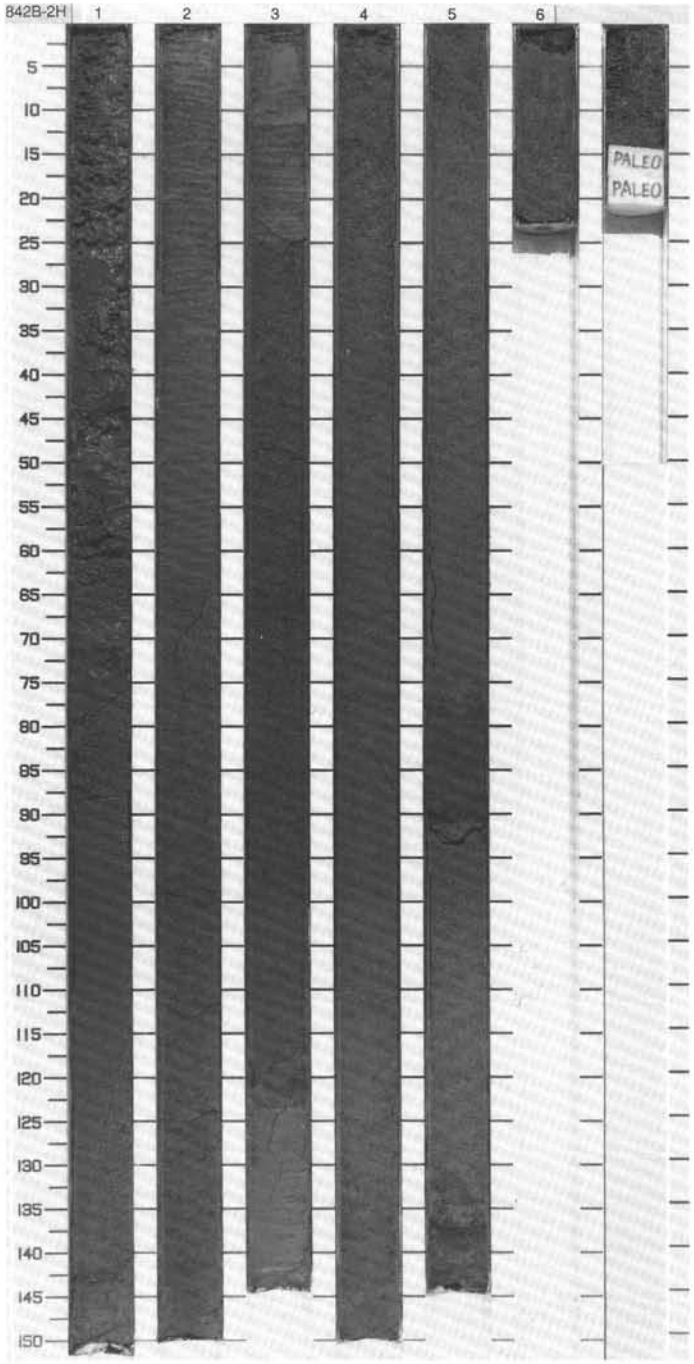
SITE 842 HOLE B CORE 1H CORED 0.0 - 6.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 CC	Quaternary			D P D I P S P P S P D I P D P M	10YR 4/3 10YR 4/2 To 10YR 3/1 10YR 4/3	RADIOLARIAN CLAYEY SILT/ASHY RADIOLARIAN CLAYEY SILT Major Lithology: Most of core consists of homogeneous dark brown (10YR 4/3) radiolarian clayey silt. The interval from Section 2, 50-150 cm is mottled with very dark gray (10YR 3/1) and consists of ashy radiolarian clayey silt.



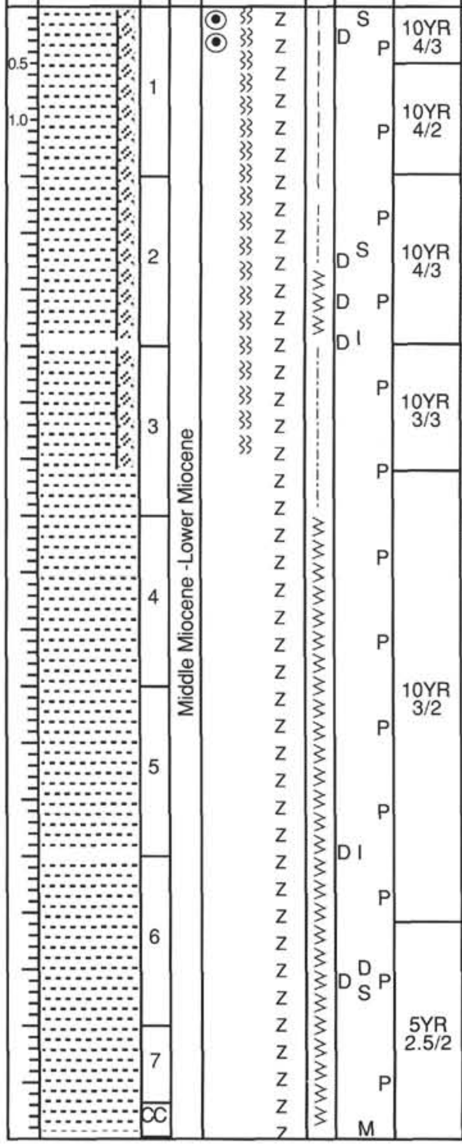
SITE 842 HOLE B CORE 2H CORED 6.3 - 15.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 CC		A A A		P P P P S D P D I P P P D D D S S S D S P D D S I P M	10YR 4/3	SILTY CLAY WITH ASH AND SPONGE SPICULES and ASHY SILTY CLAY Major Lithologies: Sections 1-4 and 5, 0-78 cm consist of homogeneous dark brown (10YR 4/3) silty clay with ash and sponge spicules. Below 78 cm in Section 5, dark brown (10YR 4/3) ashy silty clay is interspersed with ash layers, described below. Sediment immediately above and below the ash layers is indurated and dark grayish brown (10YR 3/2). Minor Lithology: Layers of yellowish brown (10YR 5/6) vitric ash with clay are found at Section 5, 78-90 cm and 137-145 cm and Section 6, 0-2 cm. The volcanic glass in these ash layers is highly altered to clay minerals.



SITE 842 HOLE B CORE 3H CORED 15.8 - 25.3 mbsf

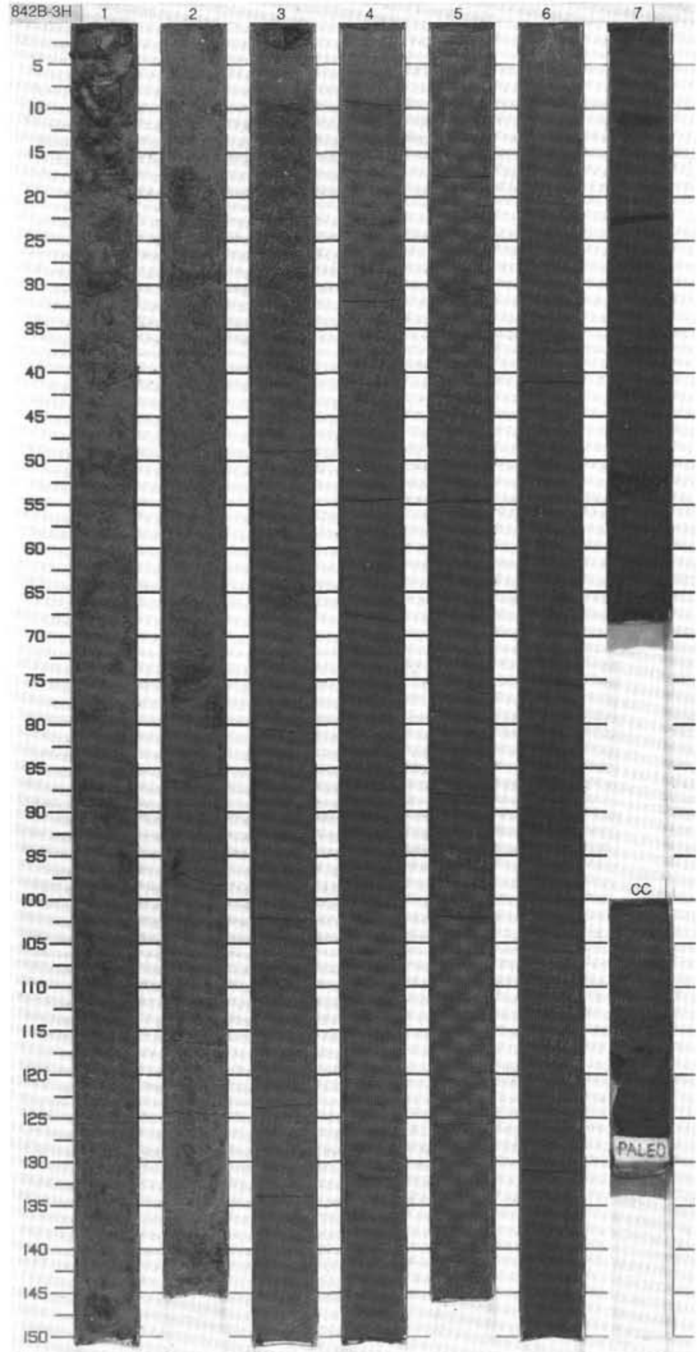
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description



ASHY CLAY WITH ZEOLITES/CLAY WITH ZEOLITES

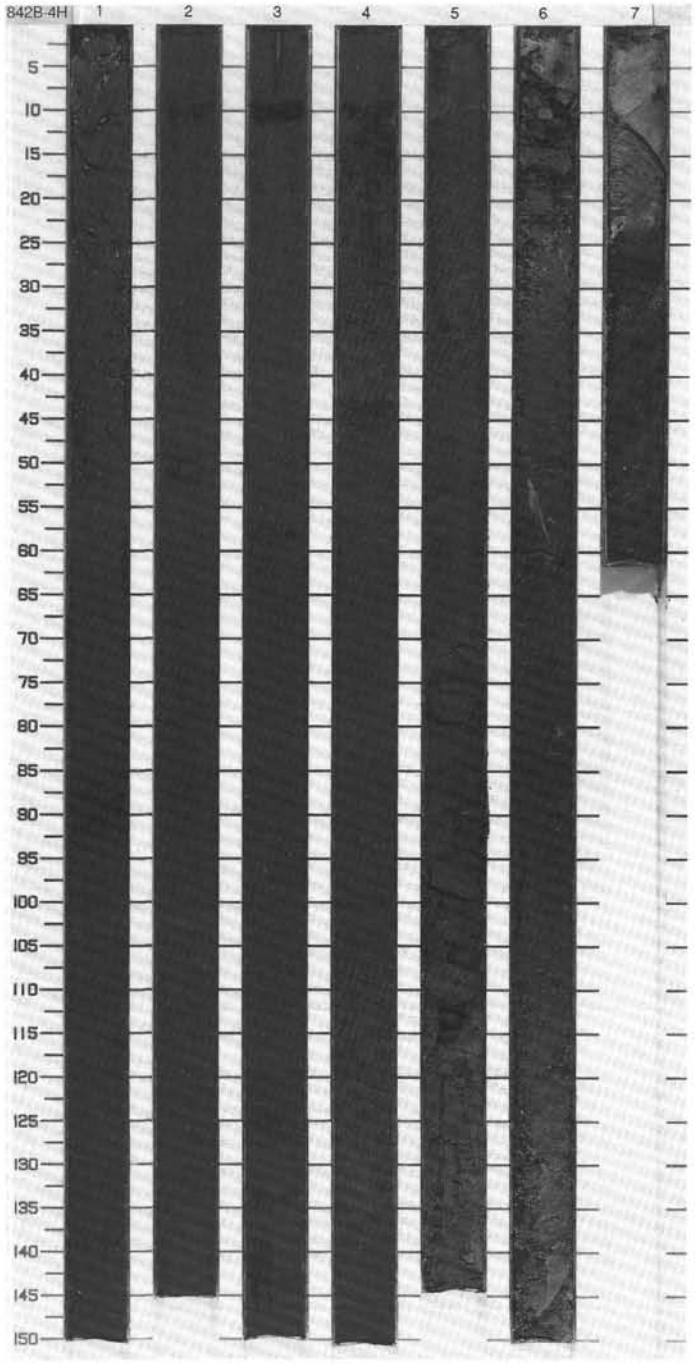
Major Lithology:
Sections 1-3 contain dark brown (10YR 4/3) and dark grayish brown (10YR 4/2) mottled ashy clay with zeolites. The volcanic glass is highly altered and decreases in abundance with depth. Indurated layers are present in Section 2, 24-29 cm and 74-75 cm, and Section 3, 0-3 cm. Nodules of indurated ashy clay with zeolites are present in Section 1, 1-4 cm and 25-31 cm. Sections 4-7 contain very dark grayish brown (10YR 3/2) and dark reddish brown (5YR 2.5/2) homogeneous clay with zeolites.

Minor Lithology:
A lenticular concretion of white (10YR 7/1) microcrystalline calcite occurs in Section 1, 7.5-12 cm.



SITE 842 HOLE B CORE 4H CORED 25.3 - 34.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 2 3 4 5 6 7	Upper Eocene -Middle Miocene	Z ~~ Z A Z ⊙ Z	WWW	D P D I D P S D D P D S P D P D S D I D M	5YR 2.5/2 5YR 3/2 5YR 2.5/2 5YR 3/2 5YR 3/2 To 10YR 5/3 5YR 3/2	CLAY WITH ZEOLITES Major Lithology: Core consists of dark reddish brown (5YR 2.5/2) clay with zeolites. In general, the clay is homogeneous, structureless, and highly disturbed by drilling. Faint, wavy, subparallel, laminations are present in Section 1, 86-95 cm. Indurated intervals and altered ash layers are present in Sections 4-7 as described below. Minor Lithologies: Indurated layers and/or nodules of dark reddish brown (5YR 3/2) silica-cemented claystone are found in Section 5, 74-112 cm and Section 6, 8-19 cm. Fragments of the claystone are scattered throughout Section 6, probably a result of drilling disturbance. Mottles and stringers of yellowish brown (10YR 7/6) altered ash are found throughout Sections 4-7. The ash has been entirely altered and is classified as zeolitic clay.



SITE 842 HOLE B CORE 5H CORED 34.8 - 35.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1 CC		⊙ ⊙ ⊙ ⊙ ⊙ ⊙	W ○○○○	D S M	10YR 3/2 To 10YR 2/1	CLAY AND CLAYSTONE Major Lithology: Nodules and fragments of black (10YR 2/1) claystone are distributed throughout a matrix of very dark grayish brown (10YR 3/2) clay. Entire core is highly disturbed by drilling and no structure is apparent.

SITE 842 HOLE B CORE 6X CORED 35.7 - 39.2 mbsf

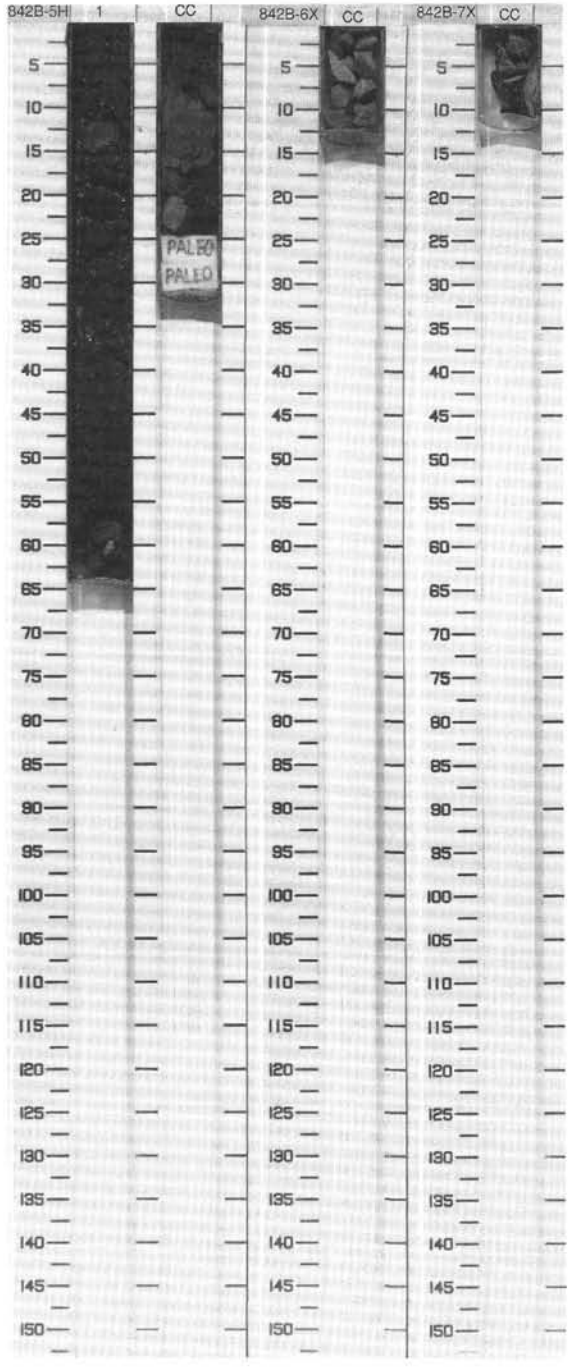
Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC			\/\/\/	D S S	10YR 3/1	CLAYSTONE Major Lithology: Fifteen fragments of very dark gray(10YR3/1), pale brown(10YR6/3) and very dark grayish brown(10YR3/2) claystone were recovered in the core catcher. Claystone is homogeneous and is silica cemented.

Expanded scale; enlarged 7X

SITE 842 HOLE B CORE 7X CORED 39.2 - 48.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC			WWW	D	5YR 2.5/2	CLAYSTONE Major Lithology: Nine fragments of dark reddish brown(5YR2.5/2) claystone were recovered in the core catcher. Claystone is silica cemented and shows concoidal fracture.

Expa nded scale; enlarged 7X



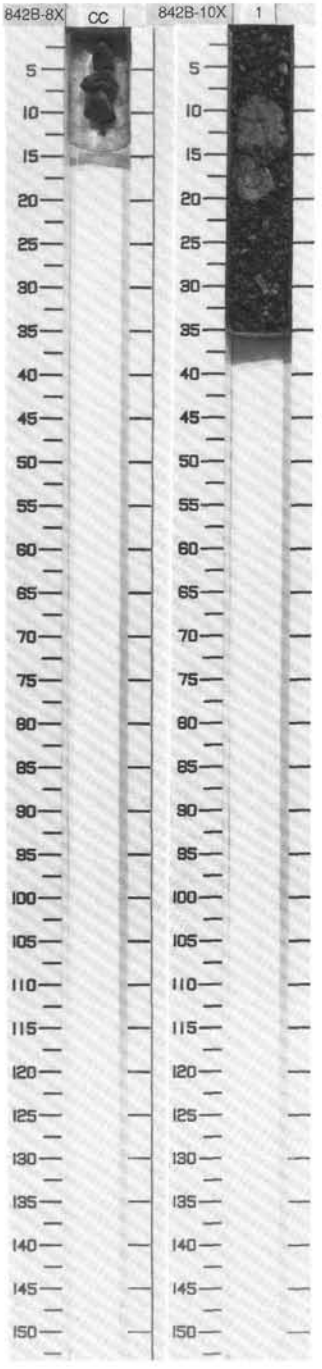
SITE 842 HOLE B CORE 8X CORED 48.7 - 58.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC			WWW	D	5YR 3/1	CLAYSTONE Major Lithology: Three fragments of very dark gray(5YR3/1) claystone were recovered in the core catcher. Claystone is silica cemented.

Expanded scale; enlarged 7X

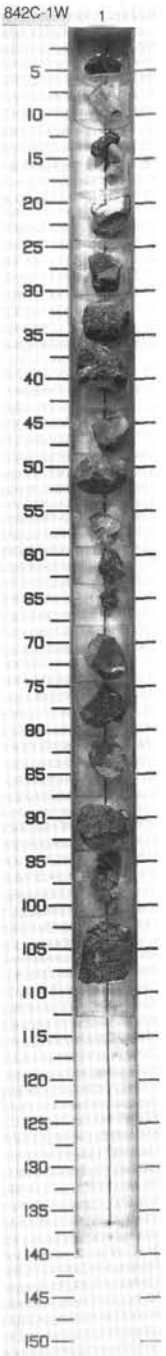
SITE 842 HOLE B CORE 10X CORED 163.3 - 167.8 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		CC			X	S M		CLAYSTONE/CHERT and NANNOFOSSIL OOZE Major Lithologies: Drilling breccia consisting of pebbles and granules of multicolored claystone, glauconitic claystone, and chert and two chunks of yellowish red (5YR 5/8) nannofossil ooze.



SITE 842 HOLE C CORE 1W CORED 141.3 - 237.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
0.5 1.0		1				D D D D		CHERT Major Lithology: This core contains drilling breccias of vari-colored (10R 2/2, 3/2, 3/4 and 4/6, 2.5 YR 3/4, 5YR 2.5/2 and 3/2, 10 YR 2/1, 5/1, 4/3, 5/3 and 4/4, 5Y 4/1 and 5G 7/1) cherts. In Section 1, 36-43, 59-64 and 86-93 cm, cherts have cavities which are partially filled by chalk. Minor Lithology: Grayish orange pink (10R 8/2) chalk with thin parallel grayish orange pink(10R 8/2) laminations is found in cavities in the black chert in Section 1, 49-54 cm.



Leg: 136 Site: 842

Sample			Texture data			Mineral											Biogenic						Rock
Hole, core, section, location (cm)	Depth	Lithology	Sand	Silt	Clay	Accessory Minerals	Clay	Clinopyroxene	Feldspar	Inorganic Calcite	Olivine	Opaques	Plagioclase	Quartz	Volcanic Glass	Zeolite	Diatoms	Foraminifers	Nannofossils	Radiolarians	Silicoflagellates	Sponge Spicules	Cement
A-1-01, 27	.27	M	10	50	40	15	40		17						23		1			2	1	1	
1-01, 67	.67	D	5	30	65	6	65		15						10		1			1	1	1	
1-02, 100	2.50	M	5	70	25	1	25		1			5			25		7			35	1		
1-02, 135	2.85	D	5	55	40	2	40		2						23		15			15	1	2	
1-04, 90	5.40	D	0	25	75	1	75		1			2			10					10		1	
1-06, 67	8.17	D	0	56	44		44	4			8	6	5		29					4			
1-06, 68	8.18	M	25	60	15	10	15		20			20			30					5			
1-06, 123	8.73	D		24	76		76	3			4	5	2		8					2			
1-06, 126	8.76	D		17	83		33		1			1			1		5		50	5	2	2	
1-06, 130	8.80	D	0	52	48		18		1			1			1		6		30	30	10	2	
1-06, 137	8.87	M		30	70		40		1			1			1		2	5	40	3	2	5	
1-06, 147	8.97	M		18	82	1	82		2			1			2		1			5	1	5	
1-07, 5	9.05	D		60	40		40	3			9	9	4		33					2			
1-07, 20	9.20	M		22	78	1	78		7			2			5		2			3	1	1	
B-1-02, 100	2.50	M	0	35	65		65		10			5			10							10	
1-03, 100	4.00	M	8	55	37	5	37		8			2		2	7					37	1	1	
2-05, 78	13.08	D		5	95		95	1			1	2	1		0					0			
2-05, 84	13.14	M	0	35	65		65		15			*			20								
2-05, 90	13.20	D	0	27	73	2	73		5						20								
2-05, 90	13.20	D		25	75		75	*			2	4	2		17					*			
2-05, 92	13.22	D	0	50	50	*	50		2			1			45					1			
2-05, 115	13.45	D		35	65	10	65		10			2			13								
2-05, 136	13.66	D		9	91		91	1			2	2	1		3					0			
2-06, 1	13.81	M	50	30	20	5	20		5						70								
3-01, 9	15.89	M		20	80					99		1											
3-02, 65	17.95	D	0	60	40	2	40		5			5			30	18							
3-06, 120	24.50	D	0	15	85		85		1			2				12							
4-04, 11	29.91	M		30	70		70					2				28							
4-04, 100	30.80	M		20	80		80		*			2			*	18							
4-05, 109	32.39	M			100		100																
5-01, 40	35.20	D	2	0	98		97		*	*					2	1							
5-01, 62	35.42	M			100		100																
6-CC, 8	35.78	D	0	5	95		95					2											3
6-CC, 10	35.80	D			100		95																5
10-01, 12	163.42	M			100		25					5							70				
10-01, 24	163.54	M			100		99												1				