

Core Photo

1124A-1H 0-9.5 mbsf										
Leg 181 Site 1124 Hole A Core 1H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1 2 3 4 4 6 5 8 6 7										<p>NANNOFOSSIL SILTY CLAY and TEPHRA</p> <p>Lithology This core contains light greenish gray (5GY 7/1) NANNOFOSSIL SILTY CLAY which grades downcore to a light greenish gray (5BG 7/1) color and contains interbeds of greenish gray (5GY 6/1) NANNOFOSSIL SILTY CLAY (Section 1, 30 to 70 cm, Section 2, 20 to 70 cm, Section 3, 135 to 150 cm, Section 4, 0 to 50 cm, 110 to 150 cm, Section 5, 0 to 40 cm, 121 to 150 cm, and Section 6, 0 to 40). Typically pinkish gray (5YR 7/1) TEPHRA layers are also present throughout the core.</p> <p>General Description The light greenish gray layers are massive, contain pyritic stains and burrows, as well as a few green laminae. The green laminae are present in Section 2, 10, 42, and 146 cm, Section 5, 27, 70, 86, 118, 131, 143, 144 cm, and Section 6, 67 cm. The darker, greenish gray layers are color banded. TEPHRA layers are present in Section 1, 58 to 59 cm, 72 to 73 cm, 77.5 to 87.5 cm, Section 3, 125 to 127 cm, Section 4, 12 to 13 cm (bleb), and Section 6, 124 cm, to the base of the core (>80 cm thick). The large TEPHRA layer at the base of the core has a pinkish gray base (5YR 7/1).</p>

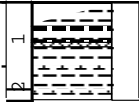


Core Photo

1124B-1H 0-5.4 mbsf										
Leg 181 Site 1124 Hole B Core 1H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1	1									<p>NANNOFOSSIL SILTY CLAY and TEPHRA</p> <p>Lithology This core contains various colors of NANNOFOSSIL SILTY CLAY and some TEPHRA layers (see below).</p> <p>General Description The NANNOFOSSIL SILTY CLAY present at the top of Section 1 is: light yellowish brown (10YR 6/4) from 0 to 10 cm; light brownish gray (10YR 6/2) from 10 to 20 cm; light gray (10YR 7/2) from 20 to 34 cm; and pale brown (10YR 6/3) to very pale brown (10YR 7/3) from 34 to 57 cm. Below this, the NANNOFOSSIL SILTY CLAY becomes greenish gray (5GY 6/1) through Section 2, 28 cm, and in Section 3, 110 cm, to Section 4, 10 cm, and alternates with light greenish gray (5GY 7/1 and 5BG 7/1) colors; 5GY 7/1 is present in the remainder of Section 2. The light greenish gray layers are massive, while the greenish gray layers have color banding. There are several TEPHRA layers present throughout the core which are generally pinkish gray (5YR 7/1), sharp-based, and normally graded. They are present in Section 1, 127 to 144 cm, Section 2, 28 to 50 cm, 61 to 75 cm, Section 3, 0 to 5 cm, 6.5 to 18 cm. The TEPHRA in Section 2, 28 to 50 cm, is white at the base (5YR 8/1) to gray (5YR 6/1) to pinkish gray at the top (5YR 7/2). TEPHRA blebs are present in Section 2, at 115 cm. There are 4 green laminae in Sections 3 (at 97, 104, and 127 cm) and 4 (at 6 cm). Bioturbation is difficult to discern and there are moderate pyrite smears downcore.</p>
2	2						Py		SS SS IW	
3	3						Py		SS	
4	4						Py		PAL	

Core Photo

1124B-2H 5.4-9.9 mbsf										
Leg 181 Site 1124 Hole B Core 2H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
6	1									<p>NANNOFOSSIL SILTY CLAY and TEPHRA</p> <p>Lithology This core contains various hues of greenish gray NANNOFOSSIL SILTY CLAY. Greenish gray (5G 6/1) occurs in Section 1, 45 to 95 cm; Section 2, 20 to 65 cm, 100 to 125 cm; Section 3, 90 to 125 cm. Greenish gray (5G 5/1) occurs in Section 3, 20 to 90. All other areas of the core are greenish gray (5GY 6/1).</p> <p>General Description This core contains alternating greenish gray NANNOFOSSIL SILTY CLAY. Bioturbation is heavy, with Chondrites throughout. Mottling is present as is color banding in pale greens. Green laminae are present in the 5G 5/1 layer of Section 3. The core is soupy in the top 20 cm of Section 1 and is disturbed below Section 3, 110 cm. The latter consists of a TEPHRA layer with an intact top (4 cm) and a disturbed bottom; possibly a mud/ash turbidite. Pyrite stains are present throughout and highlight the Chondrites burrows.</p>
2	2									
8	3									
4	4									

Core Photo

1124C-1X 8.0-17.6 mbsf										
Leg 181 Site 1124 Hole C Core 1X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
	1								SS SS PAL	<p>NANNOFOSSIL-BEARING SILTY CLAY, NANNOFOSSIL SILTY CLAY, and TEPHRA</p> <p>Lithology This core contains alternating layers of light greenish gray (5Y 7/1) NANNOFOSSIL SILTY CLAY with greenish gray (5GY 6/1) NANNOFOSSIL-BEARING SILTY CLAY. TEPHRA layers are present in Section 1, 28 to 31 cm, and 65 to 70 cm. Irregular beds of pinkish gray TEPHRA (5YR 6/1 to 5YR 7/1) are also present in Section 1.</p> <p>General Description This core is highly disturbed by coring causing uncertainty about the stratigraphic position of the sediment. TEPHRA is broken up into lenses and irregular blocks by XCB coring. Low recovery may in part reflect the washout of TEPHRA layers by drilling.</p>

Core Photo

1124C-2X 17.6-27.2 mbsf										
Leg 181 Site 1124 Hole C Core 2X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
-18	1									<p>CLAY-BEARING NANNOFOSSIL OOZE, NANNOFOSSIL SILTY CLAY, NANNOFOSSIL- and TEPHRA-BEARING SILTY CLAY, and TEPHRA</p> <p>Lithology Layers of white (5Y 8/1) CLAY-BEARING NANNOFOSSIL OOZE alternate with greenish gray (5GY 6/1) NANNOFOSSIL- and TEPHRA-BEARING SILTY CLAY, and with light greenish gray (5Y 7/1) NANNOFOSSIL SILTY CLAY which contains reddish brown bands (5R 6/1).</p> <p>General Description The core is disturbed by drilling, which has caused significant local flow-in structures which are primarily visible in the white layers. However, the gross stratigraphy is probably intact. Two (one broken and moved?) TEPHRA layers occur in Section 6, 48 to 53 cm, and 64.5 to 74.5 cm.</p>
-19	2									
-20	3									
-21	4									
-22	5									
-23	6									
-24	7									

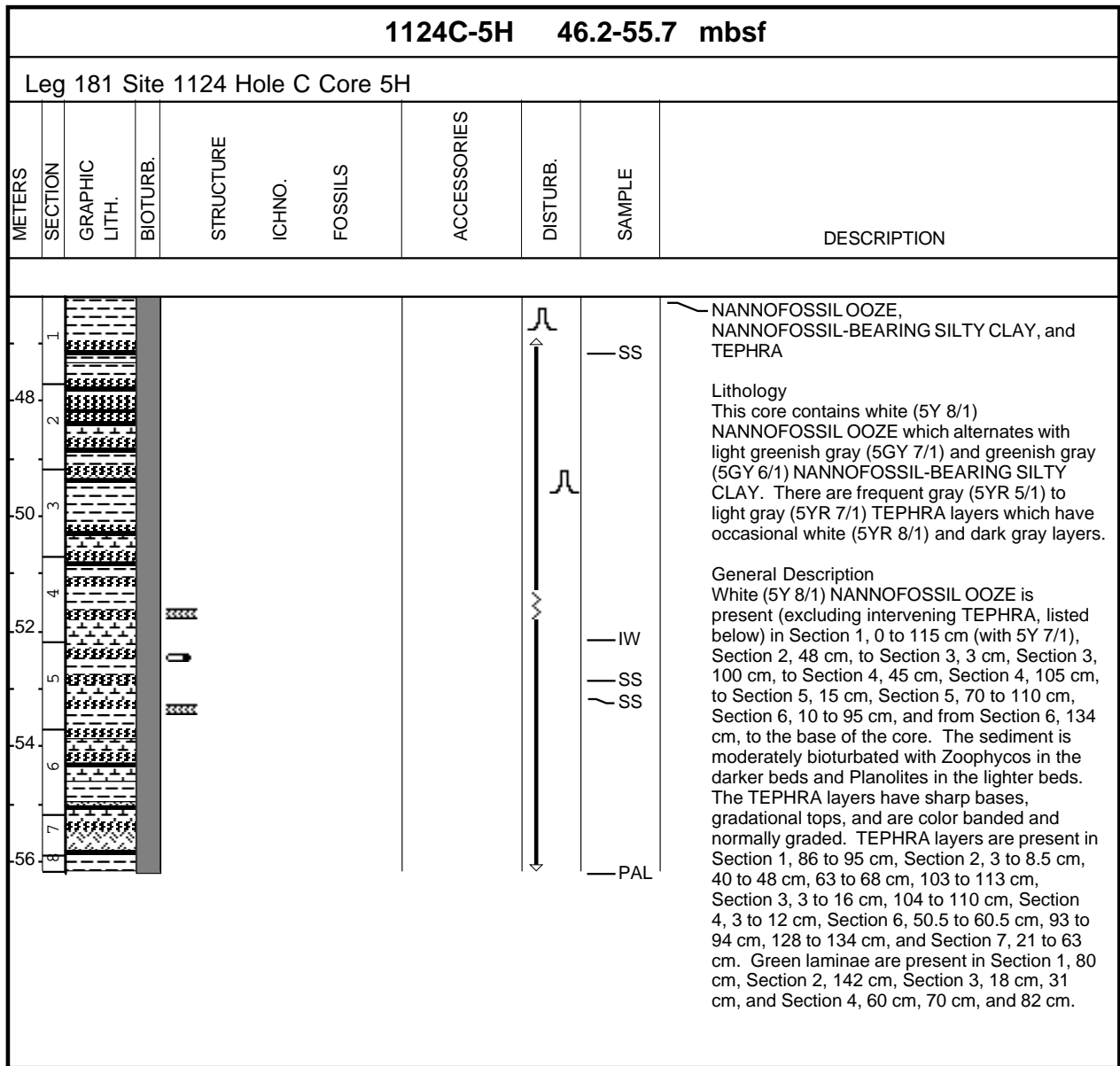
Core Photo

1124C-3H 27.2-36.7 mbsf										
Leg 181 Site 1124 Hole C Core 3H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
28	1								SS	<p>NANNOFOSSIL OOZE, CLAY-BEARING NANNOFOSSIL OOZE, and SILTY CLAY</p> <p>Lithology This core contains white (5Y 8/1) to light greenish gray (5GY 7/1) NANNOFOSSIL OOZE to CLAY-BEARING NANNOFOSSIL OOZE with interbeds of greenish gray (5GY 5/1 to 5GY 6/1) SILTY CLAY.</p> <p>General Description This core is comprised of interbeds of light (NANNOFOSSIL OOZE to CLAY-BEARING NANNOFOSSIL OOZE) and dark (SILTY CLAY) colors which have either gradational or bioturbational contacts. White NANNOFOSSIL OOZE is present in Section 2, 40 to 100 cm, and the bottom of Section 4 to Section 5, 57 cm. Light greenish gray (5G 7/1) NANNOFOSSIL OOZE to CLAY-BEARING NANNOFOSSIL OOZE is present at the bottom of Section 1 to Section 2, 20 cm, Section 3, 10 to 50 cm, and Section 6, 65 to 100 cm. Greenish gray SILTY CLAY (5GY 6/1) is present in Section 5, 60 to 139 cm, and 5G 6/1 is present at the top of Section 1, and in Section 2, 20 to 40 cm. The remainder of the core is TEPHRA or greenish gray (5GY 5/1) SILTY CLAY, except for Section 1, 89 to 130 cm, which is 5G 5/1. Color bands typically have gradational and/or bioturbational contacts. Bioturbation is moderate throughout the core and Zoophycos and Planolites are present. The core has been moderately disturbed and contains flow-in at the base. The TEPHRA layers have sharp bases and are normally graded with gradational tops. The large TEPHRA layers exhibit color banding. There is one dark gray TEPHRA layer. TEPHRA layers are present in Section 1, 84 to 89 cm (2.5Y 6/1), Section 3, 50 to 57 cm (2.5YR 6/1), Section 3, 114 cm, to Section 4, 56 cm (top and base 2.5YR 6/1, middle 7.5YR 7/2), Section 4, 105 to 110 cm, Section 5, 57 to 60 cm (N 5), 91 to 92 cm (7.5YR 8/2), 139 to 142 cm, and in Section 6, 16 to 67 cm (top 7.5 YR 7/2, base 2.5YR 6/1). Green laminae appear in Section 1, at 108, 120, and 146 cm, and Section 3, 66 and 91 cm.</p>
	2								SS	
30	3								SS	
	4								IW	
32	5								SS	
34	6								SS	
36	7								SS	
	8								PAL	

Core Photo

1124C-4H 36.7-46.2 mbsf										
Leg 181 Site 1124 Hole C Core 4H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
38	1									<p>CLAY-BEARING NANNOFOSSIL OOZE, NANNOFOSSIL OOZE, SILTY CLAY, and TEPHRA</p> <p>Lithology This core contains an alternating sequence of light greenish gray (5GY 7/1) to white (5Y 8/1) CLAY-BEARING NANNOFOSSIL OOZE to NANNOFOSSIL OOZE with greenish gray (5GY 5/1 to 5GY 6/1) SILTY CLAY. Gray to light gray (5YR 5/1 to 5YR 7/1) TEPHRA layers are present throughout.</p> <p>General Description This core is composed of CLAY-BEARING NANNOFOSSIL OOZE, NANNOFOSSIL OOZE, and SILTY CLAY which are often color banded (especially the NANNOFOSSIL OOZE) and pyrite stained. Light greenish gray (5GY 7/1) sediment is present below the TEPHRA layer in Section 1 and in Section 3, 75 to 114 cm. White (5Y 8/1) color is present in Section 2, 84 to 103 cm, Section 3, 20 to 75 cm, Section 3, 130 cm, to Section 4, 62 cm (color banded), in Section 5 (color banded), in Section 6, 30 to 110 cm, and at the top of Section 7. Greenish gray (5GY 5/1) color is present at the bottom of the layer that extends from Section 1, 60 to 150 cm, while the remainder of the core is greenish gray (5GY 6/1) SILTY CLAY or TEPHRA. Some of the dark layers darken even more towards the base. There is moderate bioturbation with Zoophycos in the dark layers with Planolites also present in the light layers. The TEPHRA layers have sharp bases, normal grading, color banding, and typically darken towards the base. In contrast to the thick layers, the thin layers (<1 cm) have bioturbated bases. TEPHRA layers are present in Section 1, 0 to 29 cm, Section 2, 5 to 22 cm, 74 to 84 cm, 103 to 123 cm, Section 3, 48 to 49 cm, 114 to 122 cm, 141 to 143 cm, Section 4, 62 to 84 cm, and 99 to 113 cm. Green laminae occur in Section 1, 70, 100, 102, 110, 111 cm, and Section 6, at 103, 106, and 118 cm.</p>
40	2									
42	3						(PY)			
44	4									
46	5									
	6									
	7									
	8									

Core Photo



Core Photo

1124C-6H 55.7-65.2 mbsf										
Leg 181 Site 1124 Hole C Core 6H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
56	1									<p>CLAY-BEARING NANNOFOSSIL OOZE, NANNOFOSSIL OOZE, NANNOFOSSIL-BEARING SILTY CLAY, and TEPHRA</p> <p>Lithology This core contains light greenish gray (5G 7/1) to white (5Y 8/1) CLAY-BEARING NANNOFOSSIL OOZE which alternates with greenish gray (5G 6/1) NANNOFOSSIL-BEARING SILTY CLAY. These lithologies are interbedded with eight TEPHRA layers.</p> <p>General Description Bioturbation of the thin TEPHRA layers by Chondrites and Zoophycos is apparent in the dark layers. Thalassinoides is also present within the sediment. TEPHRA layers are commonly color banded and the top TEPHRA layer has repeat grading.</p>
58	2									
	3								SS	
60	4								SS	
62	5								IW	
	6									
64	7								PAL	

Core Photo

1124C-7H 65.2-74.7 mbsf										
Leg 181 Site 1124 Hole C Core 7H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
66	1									<p>NANNOFOSSIL OOZE, NANNOFOSSIL-BEARING SILTY CLAY, and TEPHRA</p> <p>Lithology This core is comprised of alternations of white (5Y 8/1) NANNOFOSSIL OOZE and greenish gray (5GY 6/1) and light greenish gray (5BG 7/1) NANNOFOSSIL-BEARING SILTY CLAY.</p> <p>General Description Bioturbation of this core is common with Chondrites and Planolites present. Zoophycos is abundant in Section 3 to the base of the core, and is particularly visible in the darker layers. The TEPHRA layers have sharp bases, are often color banded, usually in green, and often contain increasing amounts of pyrite towards their bases. Typically, they have bioturbational top contacts. The bottom contacts often have Thalassinoides below them. Flow-in is present below Section 7, 10 cm, and in the core catcher.</p>
68	2									
	3									
70	4									
72	5									
	6									
74	7									
	8									
										<p>— SS</p> <p>— SS</p> <p>— IW</p> <p>— PAL</p>

Core Photo

1124C-9H 84.2-93.7 mbsf										
Leg 181 Site 1124 Hole C Core 9H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
86	1									<p>CLAY-BEARING NANNOFOSSIL OOZE, NANNOFOSSIL-BEARING SILTY CLAY, and TEPHRA</p> <p>Lithology This core is comprised of alternating beds of light greenish gray (5BG 7/1) CLAY-BEARING NANNOFOSSIL OOZE and greenish gray (5GY 6/1) NANNOFOSSIL-BEARING SILTY CLAY.</p> <p>General Description Common bioturbation of the CLAY-BEARING NANNOFOSSIL OOZE and NANNOFOSSIL-BEARING SILTY CLAY is present throughout the core; Zoophycos and Planolites are noted. The TEPHRA layers have sharp bases, are normally graded, and show occasional green laminae within their sandier sections. They appear in Section 2, 140 cm, to Section 3, 20 cm, Section 4, 67 to 78 cm, Section 5, 124 to 129 cm, Section 6, 60 to 71 cm, and 127 to 133 cm, and Section 7, 15 to 23 cm. TEPHRA blobs are visible in the core catcher. In Sections 5 and 6, TEPHRA layer contains Thalassinoides burrows. A pyritized burrow (~3 cm long) is present in Section 6, at 54 cm. Green laminae appear in Section 2, 15 cm, Section 3, 58 cm, and in Section 7, at 29 cm.</p>
88	2								SS	
	3								SS	
	4								SMP	
90	5								SS	
	6						Py		IW	
	7									
94	8								PAL	

Core Photo

1124C-13H 122.2-131.7 mbsf										
Leg 181 Site 1124 Hole C Core 13H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
124	1									<p>— SILTY CLAY, CLAYEY NANNOFOSSIL OOZE, and TEPHRA</p> <p>Lithology The core contains alternations of greenish gray (5GY 5/1) SILTY CLAY with light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL OOZE. TEPHRA layers are present in Section 3, 97 to 100 cm, Section 4, 74 to 77 cm, Section 5, 63 to 72 cm Section 6, 15 to 27 cm, Section 6, 90 to 101 cm (not in-situ), and Section 7, 30 to 50 cm (or 60 cm, the bottom contact was disturbed by drilling).</p> <p>General Description Contacts between the SILTY CLAY and CLAYEY NANNOFOSSIL OOZE layers are bioturbated and Planolites is pervasive. TEPHRA layers show a variety of colors, have sharp basal contacts, sometimes bioturbated tops, and are normally graded.</p> <p>— SS — SS ~ SS</p> <p>— PAL</p>
126	2									
128	3									
130	4									
132	5									
	6									
	7									
	8									

Core Photo

1124C-14H 131.7-141.2 mbsf										
Leg 181 Site 1124 Hole C Core 14H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
132	1									<p>CLAYEY NANNOFOSSIL OOZE, NANNOFOSSIL-BEARING SILTY CLAY, and TEPHRA</p> <p>Lithology The core contains alternations of light greenish gray (5G 7/1) CLAYEY NANNOFOSSIL OOZE with greenish gray (5G 6/1) NANNOFOSSIL-BEARING SILTY CLAY. Interbeds of pinkish gray (5YR 7/2) TEPHRA are present in Section 1, 112 to 113 cm, and 132 to 137 cm.</p> <p>General Description Alternating beds of CLAYEY NANNOFOSSIL OOZE and NANNOFOSSIL-BEARING SILTY CLAY are better defined than in previously described sections. Greenish gray NANNOFOSSIL-BEARING SILTY CLAY is found in Section 1, 0 to 55 cm, 113 to 132 cm, Section 2, 5 to 75 cm, 145 to 150 cm; Section 3, 0 to 10 cm, 80 to 150 cm, Section 4, 0 to 25 cm, 60 to 80 cm, 105 to 115 cm, Section 5, 0 to 30 cm, 60 to 80 cm, 105 to 145 cm, Section 6, 25 to 55 cm, 105 to 150 cm, and Section 7, 0 to 20 cm. Light greenish gray (5G 7/1) CLAYEY NANNOFOSSIL OOZE is present in the remainder of the core. Contacts are bioturbated with Planolites and Zoophycos. Mottling, resulting from the heavy bioturbation, and minor pyrite staining is present throughout the core. TEPHRA layers are thin and generally bioturbated by Planolites.</p>
134	2									
136	3									
138	4						Py		IW	
140	5									
	6									
	7									
	8									

Core Photo

1124C-15H 141.2-150.7 mbsf							
Leg 181 Site 1124 Hole C Core 15H							
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	DESCRIPTION
142	1						<p>NANNOFOSSIL-BEARING SILTY CLAY, SILTY CLAY, and TEPHRA</p> <p>Lithology This core contains alternating light greenish gray (5G 7/1) NANNOFOSSIL-BEARING SILTY CLAY and greenish gray (5G 6/1) SILTY CLAY. TEPHRA layers are present in Section 2, 118 to 122 cm, Section 3, 38 to 41 cm, Section 116 to 123 cm, Section 4, 103 to 109 cm, 136 to 148 cm, Section 5, 34 to 41 cm, 70 to 71 cm, and Section 6, 29 to 38 cm.</p> <p>General Description The color of the NANNOFOSSIL-BEARING SILTY CLAY and SILTY CLAY are becoming greener than in the previous cores (possibly indicative of an increasing terrigenous input). Light greenish gray (5G 7/1) layers of NANNOFOSSIL-BEARING SILTY CLAY occur in Section 1, 0 to 75 cm, 100 to 150 cm, Section 2, 0 to 10 cm, 40 to 118 cm, Section 3, 20 to 55 cm, 67 to 80 cm, Section 4, 70 to 103 cm, 148 to 150 cm, Section 5, 0 to 12 cm, 120 to 150 cm, Section 6, 0 to 15 cm, and 80 to 90 cm. SILTY CLAY and TEPHRA layers comprise the remainder of the core. Bioturbation is heavy; ichnofauna include Teichichnus, Planolites, Palaeophycus, Skolithos, and Chondrites. The core is disturbed by drilling biscuits. TEPHRA layers have gradational and commonly bioturbated tops; bases are usually sharp but also sometimes bioturbated by Planolites. The TEPHRA layers usually grade from dark to light gray in the 5YR range.</p>
144	2						
146	3						
148	4						
150	5						
	6						
	7						
							<p>SS</p> <p>PAL</p>

Core Photo

1124C-17X 159.2-168.8 mbsf										
Leg 181 Site 1124 Hole C Core 17X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
160	1									<p>SILTY CLAY, NANNOFOSSIL-BEARING SILTY CLAY, and TEPHRA</p> <p>Lithology The core contains greenish gray (5G 6/1) SILTY CLAY with a single intercalation of light greenish gray (5G 7/1) NANNOFOSSIL-BEARING SILTY CLAY. Light gray (5YR 7/1) TEPHRA layers are present in Section 1, 110 to 111 cm (a washed-out TEPHRA?), Section 5, 9 to 13.5 cm, 113 to 119 cm, and Section 6, 103 to 104 cm.</p> <p>General Description There is little color variation between the SILTY CLAY and the NANNOFOSSIL-BEARING SILTY CLAY. Therefore, bioturbation (primarily by Planolites) is difficult to ascertain. Sections 1 through 3 are mottled with dark greenish gray colors. TEPHRA layers have sharp bases, normal grading, and are bioturbated at the top. TEPHRA-filled burrows occur in Sections 5 and 6.</p>
162	2									
164	3									
166	4									
168	5									
	6									
	7									
	8									

Core Photo

1124C-19X 178.4-188.0 mbsf									
Leg 181 Site 1124 Hole C Core 19X									
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHO.	FOSSILS	ACCESSORIES	DISTURB.	DESCRIPTION
180	1								<p>CLAY-BEARING NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL CHALK</p> <p>Lithology This core is composed of alternating light greenish gray (5GY 7/1) CLAY-BEARING NANNOFOSSIL CHALK and greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK.</p> <p>General Description The CLAY-BEARING NANNOFOSSIL CHALK and CLAYEY NANNOFOSSIL CHALK alternate at each bioturbational boundary. The sediment is more lithified than in previous cores and the nannofossils are starting to be replaced by micrite. This core is heavily bioturbated with Skolithos, Planolites, Zoophycos, and Palaeophycus. Biscuiting occurs with localized brecciation.</p>
182	2								
184	3								
186	4								
188	5								
	6								
	7								
	8								
								<p>SS</p> <p>PAL</p>	

Core Photo

1124C-21X 197.7-207.3 mbsf										
Leg 181 Site 1124 Hole C Core 21X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
198	1									<p>CLAY-BEARING NANNOFOSSIL CHALK, CLAYEY NANNOFOSSIL CHALK, and TEPHRA</p> <p>Lithology This core is composed of alternating light greenish gray (5GY 7/1) CLAY-BEARING NANNOFOSSIL CHALK with greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK. There are two laminae of altered TEPHRA present (Section 5, 65 to 75 cm (bleb), and Section 7, 37 to 45 cm).</p> <p>General Description The core top consists of greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK which alternates with light greenish gray (5GY 7/1) CLAY-BEARING NANNOFOSSIL CHALK. The color differentiation between layers is weak and the sediment is heavily bioturbated. Trace fossils include Planolites, Palaeophycus, Thalassinoides, Chondrites, Cylindrichnus, and Zoophycos (core base). The thin TEPHRA layers have been heavily altered to smectite and relict glass.</p>
200	2									
202	3									
204	4									
206	5									
	6									
	7									
	8									

Core Photo

1124C-22X 207.3-216.9 mbsf							
Leg 181 Site 1124 Hole C Core 22X							
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	DESCRIPTION
-208	1						<p>CLAYEY NANNOFOSSIL CHALK, CLAY-BEARING NANNOFOSSIL CHALK, and NANNOFOSSILCHALK</p> <p>Lithology Greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK alternating with light greenish gray (5GY 7/1) CLAY-BEARING NANNOFOSSIL CHALK comprises this core. There is one layer of white (5Y 8/1) NANNOFOSSIL CHALK (Section 5, 100 to 150 cm).</p> <p>General Description The core top is greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK which alternates with light greenish gray (5GY 7/1) CLAY-BEARING NANNOFOSSIL CHALK at each bioturbational or gradational contact downcore. Section 1, 50 cm, through Section 3, 110 cm, is greenish gray (5GY 6/1) with light greenish gray (5BG 7/1) mottles. The color differences become more pronounced downcore, especially in the NANNOFOSSIL CHALK bed. Bioturbation is pervasive with Chondrites, Zoophycos, Planolites, and Cylindrichnus present. Extensive biscuiting has occurred, as well as post-coring expansion of the core.</p>
-210	2						
-212	3						
-214	4						
-216	5						
	6						
	7						
	8						
							<p>SS</p> <p>PAL</p>

Core Photo

1124C-23X 216.9-226.5 mbsf										
Leg 181 Site 1124 Hole C Core 23X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
218	1									<p>CLAYEY NANNOFOSSIL CHALK and CLAY-BEARING NANNOFOSSIL CHALK</p> <p>Lithology This core is composed of alternations of greenish gray (5GY 6/1) to light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL CHALK with light gray (5Y 7/1) and white (5Y 8/1) CLAY-BEARING NANNOFOSSIL CHALK.</p> <p>General Description Greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL CHALK is present in Section 2, 120 cm, to Section 3, 35 cm, Section 3, 125 cm, to Section 4, 55 cm, and in Section 6, 30 cm, to the base of the core. Light gray (5Y 7/1) sediment is present in Section 1, 80 to 110 cm, and white (5Y 8/1) CLAY-BEARING NANNOFOSSIL CHALK is present throughout most of Section 5. Light greenish gray (5GY 7/1) CLAYEY NANNOFOSSIL CHALK is present throughout the remainder of the core. The contacts between lithologies are bioturbational. Bioturbation is heavy throughout the core, with Planolites, Zoophycos, and Terebellina present. Zoophycos is particularly common in the gray and white layers. Mottling is common throughout the core and there is no evidence of significant biscuiting.</p>
220	2									
222	3									
224	4									
226	5								IW	
	6								SS	
	7									
	8								PAL	

Core Photo

1124C-24X 226.5-236.2 mbsf										
Leg 181 Site 1124 Hole C Core 24X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
228	1									<p>NANNOFOSSIL CLAY and CLAYEY NANNOFOSSILCHALK</p> <p>Lithology This core contains alternations of pale olive (5Y 6/3) NANNOFOSSIL CLAY with pale yellow (5Y 7/3) CLAYEY NANNOFOSSIL CHALK.</p> <p>General Description Pale yellow (5Y 7/3) CLAYEY NANNOFOSSIL CHALK occurs at the top of Section 5 and from Section 6, 50 cm, to the base of the core. An interval of light gray (5Y 7/1) sediment occurs at the base of Section 2, and one of pale yellow (5Y 7/4) color occurs in Sections 3 through 4. Color and lithology changes are typically gradational and subtle. Bioturbation is common throughout the core and dominated by Zoophycos with occasional Planolites. Mottling occurs in the pale yellow layers. There are very infrequent light bluish gray (5B 7/1) faint burrow traces present in the olive gray beds.</p>
230	2									
232	3								— SS	
234	4									
236	5									
	6								— PAL	

Core Photo

1124C-25X 236.2-245.8 mbsf										
Leg 181 Site 1124 Hole C Core 25X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
238	1									<p>MUDSTONE</p> <p>Lithology This core is composed of alternating pale olive (5Y 6/3) and white (5Y 8/1) to light gray (5Y 7/2) MUDSTONE.</p> <p>General Description Pale olive (5Y 6/3) MUDSTONE is present in Section 1, 15 to 110 cm, and alternates with the other colors of MUDSTONE at each bioturbational or gradational contact. White (5Y 8/1) MUDSTONE is present in Section 3, 40 to 125 cm, and Section 4, 40 to 110 cm. Light gray (5Y 7/2) color is present in the remainder of the core. The contacts are bioturbational in the first five sections and gradational below that. Bioturbation is common throughout the core and demarked by Planolites and Zoophycos. The core is significantly disturbed by biscuiting.</p>
240	2									
242	3									
244	4									
	5									
	6									
	7									
246	8									

Core Photo

1124C-26X 245.8-255.4 mbsf										
Leg 181 Site 1124 Hole C Core 26X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
246	1									<p>SILTY MUDSTONE and CLAY-BEARING NANNOFOSSILCHALK</p> <p>Lithology The core contains alternations of pale olive (5Y 6/2) SILTY MUDSTONE and pale yellow (5Y 7/3 to 5Y 7/2) CLAY-BEARING NANNOFOSSILCHALK.</p> <p>General Description Bioturbation is common throughout both lithologies although the light colors appear to be slightly more bioturbated. Contacts are either bioturbated or gradational. Identified ichnofauna include Planolites, Chondrites, Palaeophycus, Skolithos, and Teichichnus. Smears of light bluish gray are present throughout.</p>
248	2								SS	
									SS	
250	3									
	4									
252	5								IW	
254	6									
	7								PAL	

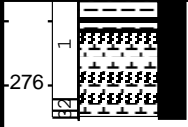
Core Photo

1124C-27X 255.4-265.1 mbsf										
Leg 181 Site 1124 Hole C Core 27X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
-256	1								SS	<p>CLAY-BEARING NANNOFOSSIL CHALK and SILTYMUDSTONE</p> <p>Lithology The core contains alternating layers of light gray (5Y 6/1) CLAY-BEARING NANNOFOSSIL CHALK and pale olive (5Y 6/3) SILTY MUDSTONE.</p> <p>General Description Bioturbation of CLAY-BEARING NANNOFOSSIL CHALK and SILTY MUDSTONE is common throughout the core. Typical trace fossils include Planolites, Palaeophycus, Teichichnus, and Chondrites. A distinct light bluish gray (5B 7/1) bioturbated interval occurs at the bottom of Section 3. Pyrite smears are present below in Sections 4 to 7. Contacts between layers are either bioturbated or graded.</p>
-258	2								SS	
									SS	
-260	3								SS	
-262	4									
-264	6									
	7								PAL	

Core Photo

1124C-28X 265.1-274.7 mbsf										
Leg 181 Site 1124 Hole C Core 28X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
266	1									<p>SILTYMUDSTONE</p> <p>Lithology This core consists of light brownish gray (2.5Y 5/2) SILTY MUDSTONE which is occasionally of light gray (2.5Y 6/2) color (Section 3, 50 to 90 cm, 120 cm to Section 4, 50 cm, and 65 cm to 150 cm).</p> <p>General Description Section 1 is massive SILTY MUDSTONE without any trace fossils present, which suggests that it may have been redeposited or affected by drilling. Contacts are bioturbational. The sediment is sometimes mottled with greenish gray (5Y 6/1; base of Section 2, and Section 5 through the base of the core). Ichnofossils appear throughout and include Teichichnus, Planolites, and Palaeophycus. Extensive biscuiting has occurred.</p>
268	2									
	3									
270	4									
272	5									
	6									
274	7									
	8									

Core Photo

1124C-29X 274.7-284.3 mbsf										
Leg 181 Site 1124 Hole C Core 29X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
276										<p>SILTY MUDSTONE, NANNOFOSSIL CHALK, and CLAY-BEARING NANNOFOSSIL CHALK.</p> <p>Lithology This core consists of light brownish gray (2.5Y 6/2) SILTY MUDSTONE which alternates with white (5Y 8/1) NANNOFOSSIL CHALK and light gray (5Y 7/1) CLAY-BEARING NANNOFOSSIL CHALK.</p> <p>General Description The contact between SILTY MUDSTONE and the white (5Y 8/1) NANNOFOSSIL CHALK below it (also present in Section 1, 45 to 60 cm) is biscuited with multiple and mixed layers of sediment types. The NANNOFOSSIL CHALK and CLAY-BEARING NANNOFOSSIL CHALK show light and dark cycles which reflect varying terrigenous contributions. Heavy bioturbation is present and Planolites, Palaeophycus, Teichichnus, and Zoophycos (rare) are present.</p>

1124C-30X NO RECOVERY

Core Photo

1124C-31X 294.0-303.6 mbsf										
Leg 181 Site 1124 Hole C Core 31X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1										<p>SILTY MUDSTONE and CLAY-BEARING NANNOFOSSILCHALK</p> <p>Lithology This core contains alternating sequences of greenish gray (5G 6/1) SILTY MUDSTONE with light greenish gray (5GY 7/1) CLAY-BEARING NANNOFOSSILCHALK, which grades, in part, to white (5Y 8/1) in Section 3, 20 cm, to Section 4, 20 cm.</p> <p>General Description The alternating beds of SILTY MUDSTONE and CLAY-BEARING NANNOFOSSILCHALK have bioturbated contacts. The core is heavily bioturbated and contains Planolites, Palaeophycus, Chondrites, Zoophycos, and Helmithoides. Biscuiting is pervasive and biscuits are locally brecciated.</p>
-296	2									
-298	3									
-300	4									
-302	5									
	6									
										<p>IW</p> <p>PAL</p>

Core Photo

1124C-32X 303.6-313.3 mbsf										
Leg 181 Site 1124 Hole C Core 32X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
304	1									<p>NANNOFOSSIL-BEARING SILTY CLAY, CLAY-BEARING NANNOFOSSIL CHALK, and NANNOFOSSILCHALK.</p> <p>Lithology There are alternating layers of greenish gray (5G 5/1) NANNOFOSSIL-BEARING SILTY CLAY and light greenish gray (5GY 7/1) CLAY-BEARING NANNOFOSSIL CHALK with white (5Y 8/1) NANNOFOSSIL CHALK present in this core.</p> <p>General Description NANNOFOSSIL-BEARING SILTY CLAY occurs in Section 1, 0 to 20 cm, 35 to 145 cm, Section 2, 30 to 150 cm, Section 3, 0 to 50 cm, Section 5, 70 to 105 cm. CLAY-BEARING NANNOFOSSIL CHALK occurs in Section 1, 20 to 35 cm, 145 to 150 cm, Section 2, 0 to 30 cm, Section 3, 50 to 90. There are strong color zonation with triplets of greenish gray to light greenish gray to white within the sediment. The sediment is heavily bioturbated and contains <i>Helmithoides</i>, <i>Planolites</i>, and <i>Zoophycos</i>.</p>
306	2									
308	3									
310	4									
312	5									
	6									
	7									
	8									

Core Photo

1124C-33X 313.3-322.9 mbsf										
Leg 181 Site 1124 Hole C Core 33X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
314	1									<p>NANNOFOSSILCHALK</p> <p>Lithology The core is comprised of very light greenish gray (5GY 8/1) to white (5Y 8/1) NANNOFOSSIL CHALK with scattered grayish green (5Y 5/2) laminae.</p> <p>General Description The NANNOFOSSIL CHALK is heavily bioturbated and contains distinctive, grayish green laminae (5G 5/2) which have abrupt bottom color contacts and faint color grading. It is difficult to discern the top of the laminae because of rotation of the drilling biscuits.</p> <p>Zoophycos are present in Section 3 and Teichichnus, Palaeophycus, and Skolithos (Cruziana ichnofacies) are present in Sections 6 to 7. Heavy biscuiting and biscuit rotation have occurred.</p> <p>— PAL</p>
316	2									
318	3									
320	4									
322	5									
	6									
	7									

Core Photo

1124C-34X 322.9-332.6 mbsf										
Leg 181 Site 1124 Hole C Core 34X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
324	1						Py Py			<p>NANNOFOSSIL CHALK and CLAY-BEARING NANNOFOSSIL CHALK</p> <p>Lithology The core contains alternating layers of greenish gray (5G 6/1) CLAY-BEARING NANNOFOSSIL CHALK and light greenish gray (5BG 7/1) NANNOFOSSIL CHALK. Laminae of gray (N 6) and green (5G 5/2) color are present throughout the core.</p> <p>General Description This core is primarily light greenish gray NANNOFOSSIL CHALK with greenish gray CLAY-BEARING NANNOFOSSIL CHALK at the top (Section 1, 0 to 74 cm) and bottom (Section 6, 100 to 110 cm, Section 7, 5 to 20 cm) of the core. Green laminae contain volcanic glass. Gray (N 6) areas of the NANNOFOSSIL CHALK (Section 3, 10 to 20 cm, 140 to 150 cm, Section 5, 15 to 35 cm, 58 to 70 cm, and 128 to 140 cm) result from a diffuse staining of the regular NANNOFOSSIL CHALK. The core is heavily bioturbated and the identified ichnofauna included Planolites, Zoophycos, and Chondrites. Biscuiting is pervasive and heaviest in Sections 1 to 3. Brecciation of biscuits occurs at the tops of Sections 1 and 5.</p>
326	2						Py Py			
328	3									
330	4									
332	5									
	6									
	7						Py			
	8									

Core Photo

1124C-35X 332.6-342.2 mbsf										
Leg 181 Site 1124 Hole C Core 35X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
334	1									<p>NANNOFOSSIL CHALK and CLAY-BEARING NANNOFOSSIL CHALK</p> <p>Lithology The core contains alternating layers of light greenish gray (5BG 7/1 to 5G 7/1) NANNOFOSSIL CHALK and greenish gray (5G 6/1) CLAY-BEARING NANNOFOSSIL CHALK.</p> <p>General Description The alternating layers of NANNOFOSSIL CHALK and CLAY-BEARING NANNOFOSSIL CHALK typically have bioturbated or gradational contacts. CLAY-BEARING NANNOFOSSIL CHALK occurs in Section 2, 100 to 122 cm, Section 5, 130 to 150 cm, and Section 6, 0 to 10 cm, and contains alternating laminae in Section 6, 10 to 45 cm. Bioturbation is heavy with identified trace fossils including Zoophycos, Planolites, and Chondrites. Cylindrichnus is present at the base of Section 6. Green laminae and pyrite staining and banding occur throughout the core. Gray (N 7) staining occurs in Section 4, 60 to 70 cm. Biscuiting is pervasive throughout the core.</p>
336	2						Py			
	3						Py			
338	4						Py			
340	5						Py			
	6									
	7									
342	8									

Core Photo

1124C-36X 342.2-351.9 mbsf										
Leg 181 Site 1124 Hole C Core 36X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1										<p>NANNOFOSSIL CHALK and CLAY-BEARING NANNOFOSSILCHALK</p> <p>Lithology This core contains white (5Y 8/1) to light green gray (5GY 7/1) NANNOFOSSIL CHALK with interbeds of greenish gray (5G 6/1) CLAY-BEARING NANNOFOSSILCHALK.</p> <p>General Description White (5Y 8/1) NANNOFOSSIL CHALK is present at the top of Section 1 and starts alternating with greenish gray (5G 6/1) CLAY-BEARING NANNOFOSSILCHALK below Section 2, 100 cm; the lithology changes at each bioturbational contact throughout the bottom of the core. A layer of light greenish gray (5GY 7/1) NANNOFOSSIL CHALK is present in Section 1, 85 cm, to Section 2, 90 cm. A zone of gray (N 6) sediment is present in Section 1, 50 to 75 cm, which is followed by a very small layer of green gray (5G 6/1) CLAY-BEARING NANNOFOSSIL CHALK. Chondrites, Helminthoides, Zoophycos, Planolites, Teichichnus, and Cylindrichnus are present in the bioturbated boundaries. The NANNOFOSSIL CHALK contains green lamina (Section 2, 11 cm) and both bed types have sharp-bounded gray (N 6) bands which are probably manganese diffusion bands. Very fine laminated units are present in Section 6 and pyrite stains occur in Sections 2 and 5. Heavy biscuiting occurs throughout the core.</p>
344	2									
346	3									
348	4									
350	5									
	6									
	7									
										<p>SS</p> <p>SS</p> <p>SS</p> <p>PAL</p>

Core Photo

1124C-39X 371.2-380.8 mbsf										
Leg 181 Site 1124 Hole C Core 39X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
-372	1									<p>SPICULE-BEARING SILTY CLAY and NANNOFOSSIL CHALK</p> <p>Lithology This core contains greenish gray (5G 6/1) to light greenish gray (5G 7/1) SPICULE-BEARING SILTY CLAY interbedded with white (5Y 8/1) NANNOFOSSIL CHALK.</p> <p>General Description The top of the core is white NANNOFOSSIL CHALK followed by light greenish gray (5G 7/1) SPICULE-BEARING SILTY CLAY. The white (5Y 8/1) NANNOFOSSIL CHALK then alternates at each bioturbational contact with greenish gray (5G 6/1) SPICULE-BEARING SILTY CLAY from Section 1, 100 cm, through Section 5, 95 cm. The bottom of Section 5 is composed of light greenish gray (5G 7/1) SPICULE-BEARING SILTY CLAY. Section 6 is white NANNOFOSSIL CHALK followed by greenish gray (5G 6/1) SPICULE-BEARING SILTY CLAY. The basal bed is greenish gray (5GY 6/1) and stained with gray (N 6; manganese). This comprises a cyclic sequence of light and dark beds, which are heavily bioturbated and include Planolites, Palaeophycus, Cylindrichnus (one case), and Zoophycos. Flaser-like laminae are present in Section 2, and represent evidence of current flow. There is pervasive biscuiting, but little rotation, of the core.</p>
-374	2									
-376	3									
-378	4								SS	
-380	5									
	6									
	7									
	8								PAL	

Core Photo

1124C-40X 380.8-390.4 mbsf							
Leg 181 Site 1124 Hole C Core 40X							
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	DESCRIPTION
382	1						<p>NANNOFOSSIL-BEARING SILTY MUDSTONE, NANNOFOSSIL CHALK, and CHERT</p> <p>Lithology This core is composed of greenish gray (5G 6/1) NANNOFOSSIL-BEARING SILTY MUDSTONE which grades downcore to a light greenish gray (5G 7/1) color. This is interbedded with white (5Y 8/1) NANNOFOSSILCHALK.</p> <p>General Description White (5Y 8/1) NANNOFOSSIL CHALK is present at the top of the core and alternates with NANNOFOSSIL-BEARING SILTY MUDSTONE at each bioturbational boundary. Greenish gray (5G 6/1) colored NANNOFOSSIL-BEARING SILTY MUDSTONE is present in Section 1, while the light greenish gray color is present throughout the rest of the core. The color alternations are less distinctive than in previous cores, presumably because there is less terrigenous material. Green laminae are present in Section 3, at 43, 122, and 128 cm, and in Section 4, 98 cm. There is a dark green (5G 4/2) CHERT layer present in Section 2, 86 to 94 cm. Section 4, 70 to 140 cm, is composed of reddish gray (5R 6/1) sediment, probably a light stain (instead of the expected NANNOFOSSIL CHALK). Severe biscuiting and comminution of the matrix in Sections 5 and 6 is to the extent that the matrix is almost dominant.</p>
384	2						
386	3						
388	4						
390	5						
	6						
	7						
							<p>Py</p> <p>SS</p> <p>IW</p> <p>PAL</p>

Core Photo

1124C-41X 390.4-400.1 mbsf										
Leg 181 Site 1124 Hole C Core 41X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1										<p>CLAY-BEARING NANNOFOSSIL CHALK and NANNOFOSSIL-BEARING SILTY MUDSTONE</p> <p>Lithology This core is composed of white (5Y 8/1) and light greenish gray (5G 7/1) CLAY-BEARING NANNOFOSSIL CHALK which is interbedded with greenish gray (5G 6/1) NANNOFOSSIL-BEARING SILTY MUDSTONE. The white units are not as pure white as the previous chawks.</p> <p>General Description Light greenish gray (5G 7/1) color is present in the CLAY-BEARING NANNOFOSSIL CHALK intervals in Sections 1, 2, the bottom of Section 5, and the top of Section 6. There is a small interval of bluish gray (5B 5/1) color present under the sharp boundary in Section 1. Bioturbation is abundant throughout the core and Planolites is particularly common at the contacts. Dark green laminae are present in Sections 1 through 3. The extreme biscuiting makes the position of the contacts subjective.</p>
392	2									
394	3									
396	4									
398	5									
	6									
400	7									

Core Photo

1124C-42X 400.1-409.7 mbsf							
Leg 181 Site 1124 Hole C Core 42X							
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	DESCRIPTION
1							<p>CLAY-BEARING NANNOFOSSIL CHALK and NANNOFOSSIL-BEARING SILTY MUDSTONE</p> <p>Lithology This core is composed of white (5Y 8/1) to light greenish gray (5BG 7/1) CLAY-BEARING NANNOFOSSIL CHALK and greenish gray (5G 6/1) NANNOFOSSIL-BEARING SILTY MUDSTONE.</p> <p>General Description White (5Y 8/1) CLAY-BEARING NANNOFOSSIL CHALK is present at the top of Section 3 and at the bottom of Section 5 through Section 6, 90 cm, while light greenish gray (5BG 7/1) color is present in the remaining CLAY-BEARING NANNOFOSSIL CHALK intervals. Bioturbation is common throughout the core, and trace fossils include Chondrites, Zoophycos, Planolites, and Teichichnus. Contacts between lithologies are generally bioturbated. A darker (5B 5/1) bioturbated layer is present in Section 4, 52 to 62 cm.</p>
402	2						
404	3						
406	4						
408	5						
	6						
	7						
	8						

Core Photo

1124C-44X 419.3-429.0 mbsf										
Leg 181 Site 1124 Hole C Core 44X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
420	1									<p>SILTY MUDSTONE and CLAY-BEARING NANNOFOSSILCHALK</p> <p>Lithology This core contains various hues of SILTY MUDSTONE: Section 1, 6 to 100 cm, light yellowish brown (10YR 6/4), 100 to 150 cm, reddish brown (5YR 6/6); Section 2, 0 to 130 cm, reddish yellow-brown (5YR 6/5), 130 to 150 cm, pink (5YR 8/3); Section 3, 0 to 30 cm, light reddish brown (7.5YR 6/3), 30 to 50 cm, pink (5YR 8/3), 50 to 95 cm, light reddish brown (7.5YR 6/3), 95 to 110 cm, pink 5YR 8/3, 110 cm to Section 4, 25 cm, light reddish brown (7.5YR 6/3); Section 4, 25 to 100 cm, pale brown (10YR 6/3), 100 cm to Section 5, 50 cm, brown to dark brown (10YR 4/3); Section 5, 50 to 70 cm, light yellowish brown (10YR 6/4); 70 to Section 6, 45 cm, yellow brown (10YR 5/4); Section 6, 45 cm, to the end of core, very dark grayish brown (10YR 3/2) with brownish yellow (10YR 6/6) oxidation fronts.</p> <p>General Description Section 1, 0 to 5 cm, contains light greenish gray (5BG 7/1) CLAY-BEARING NANNOFOSSIL CHALK with Zoophycos from the core above. Below there is a sharp contact (representing an unconformity or drop-down), and the sediment dramatically changes to a gradational unit of SILTY MUDSTONE which is present for the remainder of the core. Bioturbation is abundant and is dominated by Planolites and Palaeophycus. Biscuiting is pervasive. The core is mottled from Sections 1 through 5. Section 7 has a faint smell of petroleum.</p>
422	2									
424	3									
426	4									
428	5									
	6									
	7									

Core Photo

1124C-45X 429.0-438.7 mbsf										
Leg 181 Site 1124 Hole C Core 45X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
430	1									<p>NANNOFOSSIL CHALK, NANNOFOSSIL-BEARING SILTY MUDSTONE, CHERT, and SILTY MUDSTONE.</p> <p>Lithology This core contains white (5Y 8/1) NANNOFOSSIL CHALK, very pale brown (10YR 7/3) NANNOFOSSIL-BEARING SILTY MUDSTONE, and grayish brown (10YR 5/2) SILTY MUDSTONE. The NANNOFOSSIL CHALK occurs at the top of Section 1, 4 to 26 cm. SILTY MUDSTONE occurs in Section 5, 20 to 55 cm, 140 to 150 cm, and Section 6, 0 to 45 cm. Grayish brown (10YR 5/2) CHERT beds occur in Section 6, 70 to 80 cm, and Section 7, 20 to 30 cm.</p> <p>General Description A light greenish gray drop-in occurs at the top of Section 1. The NANNOFOSSIL-BEARING SILTY MUDSTONE is highly bioturbated and mottled; trace fossils include Zoophycos, Planolites, and Palaeophycus. Below Section 5, 15 cm, are alternations of NANNOFOSSIL-BEARING SILTY MUDSTONE with greenish gray SILTY MUDSTONE and CHERT. These beds are highly bioturbated with Zoophycos, Planolites, Teichichnus, and Palaeophycus. The very pale brown layer contains infrequent dark brown smears (manganese?).</p>
432	2									
434	3									
436	4									
438	5									
	6									
	7									
	8									

Core Photo

1124C-46X 438.7-448.3 mbsf										
Leg 181 Site 1124 Hole C Core 46X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
440	1									<p>FORAMINIFER-BEARING NANOFOSSIL SILTY MUDSTONE, CHERT, and NANOFOSSIL CHALK</p> <p>Lithology The core contains light brownish gray (10YR 6/2) FORAMINIFER-BEARING NANOFOSSIL SILTY MUDSTONE with interbeds of white (5Y 8/1) NANOFOSSIL CHALK.</p> <p>General Description This core contains a fairly uniform FORAMINIFER-BEARING NANOFOSSIL SILTY MUDSTONE interbedded with white NANOFOSSIL CHALK in Sections 3 and 4. The core is abundantly bioturbated and mottled throughout. Identified trace fossils include Palaeophycus, Planolites, and Skolithos. Section 4 is slightly brecciated, as is the CHERT layer present in Section 2. A more intact CHERT layer is present in Section 1. A CHERT-filled fracture is present in Section 4.</p>
442	2									
444	3									
	4									
	5									
	6									

Core Photo

1124C-48X 457.9-467.4 mbsf										
Leg 181 Site 1124 Hole C Core 48X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
460	1									<p>NANNOFOSSIL-BEARING SILTY MUDSTONE, NANNOFOSSIL SILTY MUDSTONE, SILTY MUDSTONE, and CHERT.</p> <p>Lithology The core contains light gray (10YR 7/2) light brownish gray (10YR 6/2) NANNOFOSSIL-BEARING SILTY MUDSTONE with laminae of pinkish white (7.5YR 8/2) NANNOFOSSIL SILTY MUDSTONE in Sections 1 and 2. Pinkish white (7.5YR 8/2) NANNOFOSSIL SILTY MUDSTONE is present at the bottom of Section 2 and comprises most of Section 3. Pink (5YR 7/4) colored SILTY MUDSTONE which grades to a light reddish brown (5YR 6/4) color and contains CHERT layers comprises the rest of the core.</p> <p>General Description The contact between light brownish gray and white lithologies is sharp; it may be a chemical front with the brown hue coming from manganese contained in the sediment. The white lamina in Section 2 is such a front. The pinkish white bed contains slightly darker interbeds which highlight ichnofossils (mainly Planolites, Palaeophycus, and Chondrites). A few burrows are red (2.5YR 4/8; incipient chertification?). The basal bed has incipient CHERT in layers and nodules.</p>
461	2									
462	3									
463	4									

Core Photo

1124C-49X 467.4-473.1 mbsf										
Leg 181 Site 1124 Hole C Core 49X										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
468	1									<p>NANNOFOSSIL-BEARING SILTY MUDSTONE and CHERT</p> <p>Lithology The core is comprised of a variety of colors of NANNOFOSSIL-BEARING SILTY MUDSTONE. Section 1 changes from white (7.5YR 8/0), to very pale brown (10YR 7/3), to light gray (10YR 7/2), to yellowish brown (10YR 5/4), to light gray (10YR 7/2), and to pale brown (10YR 6/3). Section 2 changes from pale brown (10YR 6/3), to light gray (10YR 7/2), to white (10YR 8/1), to another hue of white (10YR 8/2), grades to the same hue of white (10YR 8/2) following brecciation, and finally grades to light gray (10YR 7/2). Section 3 changes from light gray (10YR 7/2), to very pale brown (10YR 7/3), to white (10YR 8/2), to pinkish white (7.5YR 8/2), to pink (7.5YR 7/3), and changes to pinkish white (7.5YR 8/2). Section 4 grades from pinkish white (7.5YR 8/2), to very pale brown (10YR 7/3), changes to white (10YR 8/2), to light gray (10YR 7/2), to white (10YR 8/2), and finally to light gray (10YR 7/2).</p> <p>General Description This core is heavily biscuitied and brecciated in some locations. Bioturbation is common throughout the core, but in some areas (mostly at the contacts), the bioturbation is abundant. Trace fossils are vertically compressed, but can still be identified (Teichichnus, Planolites, and Palaeophycus). Small incipient CHERT nodules are light reddish brown (2.5YR 6/4) in color and primarily form in burrows.</p>
470	2									
472	3									
	4									

Core Photo

1124D-1H 22.6-32.1 mbsf										
Leg 181 Site 1124 Hole D Core 1H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
24	1									<p>CLAY-BEARING NANNOFOSSIL OOZE, NANNOFOSSIL-BEARING SILTY CLAY, and TEPHRA</p> <p>Lithology This core contains light greenish gray (5BG 7/1) to white (5Y 8/1) CLAY-BEARING NANNOFOSSIL OOZE and greenish gray (5G 6/1 to 5GY 6/1) NANNOFOSSIL-BEARING SILTY CLAY.</p> <p>General Description These two main lithologies alternate throughout the core and their contacts are typically graded. Bioturbation is common throughout and identified ichnofaunas include Planolites, Palaeophycus, Zoophycos, and Chondrites. Mottling is present, and is particularly strong in the greenish gray layers. Green laminae are present throughout the core and color banding is particularly intense in Section 5, between 85 and 130 cm. TEPHRA layers are present throughout and typically have sharp bottom contacts, normal grading, and bioturbated tops. Occasional green laminae are present towards the TEPHRA layer bases. Occasional pyrite smears are present throughout and a pyritized Palaeophycus burrow is noted in Section 7.</p>
26	2						Py		SS	
28	3						Py			
30	4									
32	5								SS	
	6									
	7						Py		PAL	

Core Photo

1124D-4H 51.1-60.6 mbsf										
Leg 181 Site 1124 Hole D Core 4H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
52	1									<p>CLAY-BEARING NANNOFOSSIL OOZE, NANNOFOSSIL-BEARING SILTY CLAY, TEPHRA-BEARING NANNOFOSSIL OOZE, and TEPHRA.</p> <p>Lithology This core contains alterations of light grayish green (5BG 7/1, 5B 7/1, and 5GY7/1) CLAY-BEARING NANNOFOSSIL OOZE and greenish gray (5G 5/1, 5G 6/1, and 5GY 6/1) NANNOFOSSIL-BEARING SILTY CLAY. TEPHRA-BEARING NANNOFOSSIL OOZE is present in Sections 1, 30 to 33 cm, and in Section 4 114 to 117 cm. TEPHRA layers appear in Section 2, 65 to 73 cm, 135 to 140 cm, Section 5, 5 to 15 cm, 36 to 97 cm, Section 4, 43 to 51 cm, 93 to 96 cm, 100 to 103 cm, 127 to 143 cm, Section 5, 28 to 29 cm, 69 to 80 cm, Section 6, 18 to 20 cm, 80 to 90 cm, and 114 to 120 cm.</p> <p>General Description The alternating lithologies and colors typically have bioturbated contacts. Bioturbation is moderate with identified ichnofossils including Thalassinoides, Skolithos, Zoophycos, Planolites, and Chondrites. TEPHRA layers are sharp based, normally graded, and sometimes bioturbated. Color banding is common in the light greenish gray layers. Green layers appear in Section 5, 33 cm, and Section 6, 30 cm.</p>
54	2									
56	3									
58	4									
	5									
	6									

Core Photo


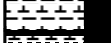


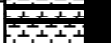

1124D-5H 60.6-70.1 mbsf										
Leg 181 Site 1124 Hole D Core 5H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
62	1									<p>CLAY-BEARING NANNOFOSSIL OOZE, NANNOFOSSIL-BEARING SILTY CLAY, and TEPHRA</p> <p>Lithology This core comprises alternations of light greenish gray (5BG 7/1) CLAY-BEARING NANNOFOSSIL OOZE and greenish gray (5G 6/1 to 5BG 6/1) NANNOFOSSIL-BEARING SILTY CLAY.</p> <p>General Description The contacts between the light and dark lithologies are typically bioturbated. Bioturbation is common throughout and Zoophycos and Planolites ichnofacies alternate with Thalassinoides and Planolites ichnofacies. Color banding is common in the light greenish layers. Pyrite specks are present infrequently throughout the core. The single TEPHRA in Section 7, 6 to 15 cm, has a sharp, green-colored (5Y 5/1) base and a gradational gray (5Y 5/1) top. Green layers occur in Section 3 at 116 cm, 127 cm, and 129 cm.</p>
64	2									
66	3									
68	4									
70	5									
	6									
	7									
	8									

— PAL

Core Photo

1124D-6H 70.1-79.6 mbsf										
Leg 181 Site 1124 Hole D Core 6H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
72	1									<p>CLAY-BEARING NANNOFOSSIL OOZE, NANNOFOSSIL-BEARING SILTY CLAY, and TEPHRA</p> <p>Lithology This core contains alternating layers of light greenish gray (5BG 7/1) to light bluish gray (5B 7/1) CLAY-BEARING NANNOFOSSIL OOZE with greenish gray (5BG 6/1 to 5G 6/1) NANNOFOSSIL-BEARING SILTY CLAY. TEPHRA layers are present in Section 1, 71 to 74 cm, 140 to 145 cm, Section 3, 26 to 30 cm, 35 to 40 cm, 70 to 73 cm, and Section 4, 21 to 33 cm.</p> <p>General Description The contacts between the two lithologies are either graded or bioturbated. Bioturbation is common and identified traces fossils include Zoophycos, Planolites, and Thalassinoides. Greenish gray layers are mottled, while the lighter colored layers are color banded. TEPHRA layers have sharp bases and are normally graded. TEPHRA-filled Planolites are present in Section 3, ~120 cm. Pyrite smears are present in Sections 2 and 6. Green laminae are present in Section 2, at 75 cm, 130 cm, and Section 6, 110 cm.</p>
74	2									
76	3									
78	4									
	5									
	6									
							Py		PAL	

Core Photo

1124D-8H 89.1-98.6 mbsf										
Leg 181 Site 1124 Hole D Core 8H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
90	1									<p>NANNOFOSSIL SILTY CLAY, SILTY CLAY-BEARING NANNOFOSSIL OOZE, and TEPHRA</p> <p>Lithology This core is composed of greenish gray (5G 6/1) NANNOFOSSIL SILTY CLAY with interbeds of light greenish gray (5G 7/1) SILTY CLAY-BEARING NANNOFOSSIL OOZE. TEPHRA layers are present in Section 1, 14 to 19 cm, 114 to 120 cm, Section 2, 79 to 82 cm, Section 3, 96 to 99 cm, 120 to 125 cm, Section 4, 46 to 46.5 cm, Section 5, 1 to 3 cm, 133 to 139 cm, Section 6 1 to 8 cm, 22 to 28 cm, and 130 to 131 cm.</p> <p>General Description This core contains alternating beds of NANNOFOSSIL SILTY CLAY and SILTY CLAY-BEARING NANNOFOSSIL OOZE which usually have bioturbated contacts. The sediment is highly bioturbated but the ichnofaunal elements are not easily discerned. The TEPHRA are sharp-based and often normally graded. A TEPHRA-filled burrow is present in Section 5, around 60 cm.</p>
92	2									
94	3									
96	4									
98	5									
	6									

Core Photo

1124D-9H 98.6-108.1 mbsf										
Leg 181 Site 1124 Hole D Core 9H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
100	1									<p>NANNOFOSSIL-BEARING SILTY CLAY, CLAYEY NANNOFOSSIL OOZE, and TEPHRA</p> <p>Lithology This core contains alternating sequences of greenish gray (5G 6/1) NANNOFOSSIL-BEARING SILTY CLAY and light greenish gray (5G 7/1) CLAYEY NANNOFOSSIL OOZE. TEPHRA layers are present in Section 1, 75 to 79 cm (pyritic base), Section 6, 7 to 11 cm, and 70 to 71 cm (bioturbated).</p> <p>General Description The color differences between the NANNOFOSSIL-BEARING SILTY CLAY and CLAYEY NANNOFOSSIL OOZE are subtle. The bottom of Section 4 has faint lighter bands within the greenish gray NANNOFOSSIL-BEARING SILTY CLAY. There is faint mottling in the lighter layers, but the degree of bioturbation is difficult to ascertain. Skolithos is present in Sections 2 and 4. TEPHRA-filled burrows are present in Sections 5 and 6.</p>
102	2									
104	3									
106	4									
108	5									
	6									
	7									
	8									

Core Photo

1124D-13H 136.6-146.1 mbsf										
Leg 181 Site 1124 Hole D Core 13H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
138	1									<p>CLAYEY NANNOFOSSIL OOZE, CLAY-BEARING NANNOFOSSIL OOZE, and TEPHRA</p> <p>Lithology This core contains alternations of greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL OOZE with light greenish gray (5GY 7/1) CLAY-BEARING NANNOFOSSIL OOZE. TEPHRA layers are present in Section 4, 0 to 6 cm (dispersed), Section 6, 133 to 138 cm, and Section 7, 52 to 55 cm.</p> <p>General Description This core is composed of alternations of the dominant lithologies. Contacts are generally gradational or bioturbational. Bioturbation is common and, together with core disturbance, obscures the contacts between layers. Trace fossils include Planolites and Zoophycos and pyrite is seen very infrequently throughout the core. TEPHRA layers are less frequent in this core. The first TEPHRA layer is a dispersed layer, while the second and third layers are small and intact, with sharp bases and bioturbated tops.</p>
140	2									
142	3									
144	4									
146	5									
	6									
	7									
	8									

Core Photo

1124D-14H 146.1-155.6 mbsf										
Leg 181 Site 1124 Hole D Core 14H										
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ICHNO.	FOSSILS	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
148	1						Py			<p>CLAY-BEARING NANNOFOSSIL OOZE, CLAYEY NANNOFOSSIL OOZE, and TEPHRA</p> <p>Lithology This core contains light greenish gray (5G 7/1) CLAY-BEARING NANNOFOSSIL OOZE which alternates with greenish gray (5GY 6/1) CLAYEY NANNOFOSSIL OOZE. TEPHRA layers are present in Section 2, 14 to 19 cm, 49 to 63 cm, 114 to 120 cm, Section 3, 125 to 135 cm, Section 4, 40 to 50 cm (dispersed), Section 6, 34 to 39 cm, 49 to 50 cm, and 140 cm to Section 7, 24 cm.</p> <p>General Description The sediment exhibits very gradual color changes between the major lithologies. Bioturbation is common throughout the core with only Planolites identifiable. Pyrite is present in the bioturbated layers in Sections 1 and 5. TEPHRA layers have sharp bases, bioturbated tops, and are normally graded. The upper two TEPHRA layers in Section 2 have pyrite present throughout.</p>
150	2									
152	3									
154	4									
	5						Py			
	6						Py			
	7									
	8								PAL	

Site 1124 Smear Slides								Texture			Mineral										Biogenic							Comments								
Leg	Site	Hole	Core	Type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Calcite (30)	Carbonate (35)	Clay (47)	Feldspar (71)	Glauconite (82)	Heavy Minerals (89)	Mica (118)	Opaques (140)	Oxides (146)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Diatoms (58)	Foraminifers (78)	Nannofossils (132)		Radiolarians (173)	Silicoflagellates (189)	Skeletal Debris (192)	Sponge Spicules (199)				
181	1124	A	1	H	1	78	0.78	M	80	20					P	R	P	*				P	P	D												
181	1124	A	1	H	1	86	0.86	M	80	20					P								P	D												
181	1124	A	1	H	2	52	2.02	D	5	35	60	P	C	P			*							*		P	R	C	*				P			
181	1124	A	1	H	2	145	2.95	M	10	30	60	P	A	R												R	R	C	*			P	P			
181	1124	A	1	H	3	34	3.34	D	5	35	60	P	C	R			*	R					*			P	P	C	R			P	P			
181	1124	B	1	H	1	26	0.26	D	10	30	60			C	R							R	P			P	P	C		R	P	P				
181	1124	B	1	H	1	104	1.04	M	5	25	70	P	A	R	R	R					P	R	*			P	C				P					
181	1124	B	1	H	2	40	1.9	M	70	25	5				P							C	P	D											ASH (V+S)	
181	1124	B	1	H	2	48	1.98	M	10	70	20				P							P	P	D											ASH (V+S)	
181	1124	B	2	H	1	50	5.9	D	10	20	70	P	P									P				P	C	D	P	P					GREEN LAYER	
181	1124	B	2	H	2	83	7.73	M	5	35	60	P	C	P								P	P			P	D	P	P						ABUNDANT GLASS SHARDS	
181	1124	B	2	H	3	113	9.53	M	10	20	70	P	P	P			P					P	C			P	D	P	P							
181	1124	C	1	X	1	14	8.14	D	5	15	80			A	P	P						P	P	P			R	P	*				P			
181	1124	C	1	X	1	42	8.42	D	10	20	70	P	C	R									R	C			P	P	A			P	P			
181	1124	C	2	X	1	54	18.14	D	15	80	5															R	P	D								
181	1124	C	2	X	4	70	21.8	D	10	40	50	P	C	P	R		*					P	C				R	C	R					R		
181	1124	C	3	H	1	96	28.16	D	3	27	70			A	P		*	*					P	P			P	R	*					P		
181	1124	C	3	H	2	85	29.55	D	5	30	65	P	P	*			*	*				*	*			P	P	D	P					R		
181	1124	C	4	H	2	20	38.4	M	80	10	10				P		P	P				C	P	D												COARSE ASH LAYER (V+S)
181	1124	C	4	H	2	97	39.17	D	0	10	90												P			P	P	D	P					P		WHITE LAYER
181	1124	C	4	H	4	82	42.02	M	80	15	5					P						C	C	D				P							COARSE ASH (V+S)	
181	1124	C	5	H	1	93	47.13	M	30	60	10				P		P					P	P	D				P							ASH	
181	1124	C	5	H	5	62	52.82	D	10	40	50				C	C		*				C	P			P	P	A	P					P		GLACIAL
181	1124	C	5	H	5	95	53.15	D	5	15	80	C	P										*				D								P	INTERGLACIAL
181	1124	C	6	H	1	25	55.95	M	40	40	20				C	C	C					C	C	D				P							BASE OF ASH LAYER (V+S)	
181	1124	C	6	H	1	35	56.05	M	30	50	20				C	P	P					C	C	D				P							BASE OF ASH LAYER (V+S)	
181	1124	C	6	H	3	35	59.05	D	5	20	75	P	P	P			P						P			P		D	P	P					GREEN/WHITE LAYER	
181	1124	C	6	H	4	54	60.74	M	30	40	30				P		*	P				P	P	D				D							BASE OF ASH LAYER (S+V)	
181	1124	C	7	H	3	120	69.4	M	60	30	10				P		P	P				P	P	D				P							BASE OF ASH LAYER (GREEN) (S+V)	
181	1124	C	7	H	4	62	70.32	M	10	80	10			P	C	P	C				*	C	D					P							WHITE ASH (S+V)	
181	1124	C	8	H	1	107	75.77	M	40	50	10				C	P	P					C	C	D				*							ASH (V+S)	
181	1124	C	8	H	7	129	84.09	M	20	70	10				P		*	P				C	P	D				P							PINKY ASH (V+S)	
181	1124	C	9	H	2	15	85.85	M	0	10	90	P	C	C			*						C	C				C							P	HARD DARK GREEN LAYER
181	1124	C	9	H	3	17	87.37	M	70	20	10				C		P	P				C	C	D				C							ASH (V+S)	
181	1124	C	9	H	4	84	89.54	D	5	10	85			C	C	P		P					P	P				D							GREEN LAYER	
181	1124	C	10	H	3	110	97.8	D	10	20	70	P	P	P									P	C			*	D	R						LIGHT LAYER	
181	1124	C	10	H	4	50	98.7	D	2	18	80			C	P		*						P	P				P							GREEN LAYER	
181	1124	C	11	H	2	133	106.03	M	60	30					P		*						P	D	30											ASH
181	1124	C	11	H	5	58	109.78	D	2	28	70			A	C								C	P											P	
181	1124	C	11	H	7	32	112.52	M	70	30					P	P	P					P	P	D												ASH/ OPAQUE BIG GRAINS
181	1124	C	12	H	2	114	115.34	M	80	20								*					P													ASH/ DARK GRAINS
181	1124	C	13	H	4	134	128.04	D	5	35	60			A	P			*				P	P	P					*						P	GREEN LAYER
181	1124	C	13	H	5	43	128.63	D	5	35	60			C	R		*						R	P				C							P	LIGHT BED
181	1124	C	13	H	5	70	128.9	M	50	50					P		*					P	P	D												ASH DARK/ BROWNISH GRAINS
181	1124	C	15	H	1	84	142.04	D	2	40	58			C	R								R	P		*		R	R						P	
181	1124	C	15	H	3	83	145.03	D	2	40	58			C	R								R	P		*		P	R	*	P	P			P	

Site 1124 Smear Slides							Texture				Mineral										Biogenic						Comments						
Leg	Site	Hole	Core	Type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Calcite (30)	Carbonate (35)	Clay (47)	Feldspar (71)	Glauconite (82)	Heavy Minerals (89)	Mica (118)	Opauques (140)	Oxides (146)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Diatoms (58)	Foraminifers (78)		Nannofossils (132)	Radiolarians (173)	Silicoflagellates (189)	Skeletal Debris (192)	Sponge Spicules (199)	
181	1124	C	16	H	1	12	150.82	D	2	40	58		C	R			*					R	P				R				P		
181	1124	C	17	X	3	70	162.9	D	2	40	58		C	P								P						R			P		
181	1124	C	17	X	3	105	163.25	M	20	30	50		C	P	P	R							R		P		R	P			P		
181	1124	C	19	X	2	46	180.36	D	5	10	85		C	C	P		P							*		P		R					
181	1124	C	20	X	1	2	188.02	M	5	10	85		D	P			P					P	P										
181	1124	C	20	X	5	142	195.42	M	5	10	85		D	P			P					P	P										
181	1124	C	21	X	5	16	203.86	D		10	90		P	P			P					P	*				D						
181	1124	C	21	X	7	42	207.12	M	10	20	70		D	C		P	C					C	P										
181	1124	C	22	X	1	91	208.21	D		10	90		A	P			P					P	*				A				P		
181	1124	C	23	X	3	70	220.6	D	5	20	75		P	A	P		P	P				P	*			A							
181	1124	C	24	X	4	95	231.95	D		10	90		P	D	P							P				C							
181	1124	C	25	X	5	6	242.26	D		5	95		D	P		P	P					P				*							
181	1124	C	26	X	2	95	248.25	D	2	28	70		P	P	R							P	R				D			P			
181	1124	C	26	X	2	123	248.53	D	2	18	80		D	P	P	P						P					R						
181	1124	C	27	X	1	46	255.86	M	5	25	70		D	C		*	P					C					R						
181	1124	C	27	X	2	124	258.14	D		20	80		C	C		R						C	*				R						
181	1124	C	27	X	3	12	258.52	D		20	80		P	P			P										P						
181	1124	C	27	X	3	124	259.64	M	5	30	65		C	P		R	P					P					C						
181	1124	C	28	X	1	110	266.2	D		20	80		D	C		P	R					C	*			*							
181	1124	C	29	X	1	50	275.2	D		20	80		P	P		*											A						
181	1124	C	29	X	1	100	275.7	D		30	70		C	P		*											C						
181	1124	C	32	X	3	30	306.9	M	10	20	70		C	P			R					P			*		R	*			C		
181	1124	C	32	X	4	70	308.8	D	2	40	58		P	R								R	R			*	D				P		
181	1124	C	34	X	1	74	323.64	D	5	15	80			R								R				P	A	R			C		
181	1124	C	34	X	1	130	324.2	D	10	20	70					R	R					R	R				A	R			P		
181	1124	C	36	X	1	46	342.66	D		10	90		P	P												P	D	R			P		
181	1124	C	36	X	1	50	342.7	M	5	20	75		P	P			P						*			P	D					C	
181	1124	C	36	X	1	76	342.96	D	5	25	70		P	A	A		P					A				C	C	C			C		
181	1124	C	37	X	2	70	354.1	M	10	20	70		P	A	A		P						*			P	C	C			C		
181	1124	C	39	X	4	49	376.19	D		30	70		P	A	A		P					A	*			P	C	C			C		
181	1124	C	40	X	2	14	382.44	D		20	80		C	C	P							P					A	P			P		
181	1124	C	41	X	2	65	392.55	D		10	90		C	A	P		P					P	*				A	C			P		
181	1124	C	42	X	2	43	402.03	D		10	90		P	A	C		P					C	*				C	P			P		
181	1124	C	43	X	6	43	417.63	D	5	95			A	A			P									D					P		
181	1124	C	44	X	1	4	419.34	D		5	95		C	C													D						
181	1124	C	44	X	1	6	419.36	D		30	70		A	A	C							C					C						
181	1124	C	44	X	2	44	421.24	D		30	70		A	A	A							A	A	A			P						
181	1124	C	44	X	6	137	428.17	D	5	25	70		D	P		*		D	A	P						*							
181	1124	C	44	X	CC	6	428.81	D	5	40	55		D	P		*		D															
181	1124	C	45	X	1	20	429.2	D		40	60		A	P													D						
181	1124	C	45	X	3	100	433	D		40	60		C	P								P					P						
181	1124	C	45	X	5	50	435.5	D		30	70		P	A													P						
181	1124	C	46	X	3	104	442.74	M	5	35	60		C	P								P	P				P						
181	1124	C	46	X	4	24	443.44	D	10	40	50		P	P								D					C						
181	1124	C	46	X	5	59	445.29	M	15	40	45		P						A								C						
181	1124	C	47	X	1	110	449.4	D	5	35	60		P	C										C			P	C					

Site 1124 Smear Slides								Texture			Mineral											Biogenic						Comments						
Leg	Site	Hole	Core	Type	Section	Interval (cm)	Depth (mbsf)	Lithology	Sand	Silt	Clay	Calcite (30)	Carbonate (35)	Clay (47)	Feldspar (71)	Glauconite (82)	Heavy Minerals (89)	Mica (118)	Opauques (140)	Oxides (146)	Pyrite (169)	Quartz (172)	Volcanic Glass (81)	Zeolite (222)	Diatoms (58)	Foraminifers (78)	Nannofossils (132)		Radiolarians (173)	Silicoflagellates (189)	Skeletal Debris (192)	Sponge Spicules (199)		
181	1124	C	47	X	6	20	456	D	5	35	60	P	P											C		P	A							LIGHT BROWNISH
181	1124	C	48	X	2	16	459.56	D	5	40	55		C											C		P	C							BROWNISH
181	1124	C	48	X	3	35	461.25	D	5	40	55	P	C											C		P	C							NANNOFOSSIL SILTY CLAY
181	1124	C	48	X	4	68	463.08	D	2	40	58	P	C											C		P	P							SILTY CLAY
181	1124	C	49	X	1	71	468.11	D	2	40	58		C											C			P							FORAMINIFERS?
181	1124	C	49	X	4	80	472.7	D	2	40	58		C											C			P							
181	1124	D	1	H	2	58	24.68	D	20	20	60	P											P		R	P	D	*		P	R			
181	1124	D	1	H	5	86	29.46	D	10	40	50	C	C		*	P					P	C	P		P		R					P		
181	1124	D	4	H	1	31	51.41	M	5	50	45	C	P										P	P			C							
181	1124	D	7	H	3	114	83.74	D	2	33	65		C														A	*		P	*			
181	1124	D	7	H	7	40	89	D	25	25	50		C	C			*							C		P		R	R		P			