





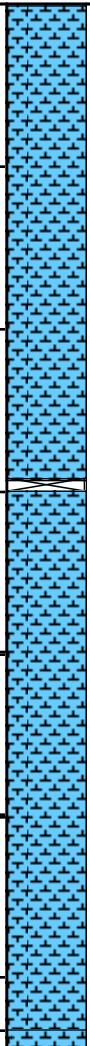




Core Photo

Site 1135 Hole A Core 1R							Cored 0-9.5 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								<p>SAND and GRAVEL</p> <p>Age: Pliocene</p> <p>General Description: This core consists of varicolored coarse SAND and GRAVEL. The SAND is composed of quartz, feldspar, a variety of lithic grains, and rare shell fragments. Pebbles, as much as 4 cm long, include granite, quartzite, and a sparsely pyroxene-phyric vesicular basalt. This material is most likely ice-rafted detritus and has been concentrated into GRAVEL by drilling disturbance. Most likely, these pebbles were disseminated throughout calcareous ooze.</p>

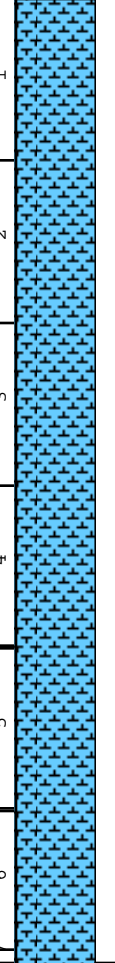
Core Photo

Site 1135 Hole A Core 2R							Cored 9.5-18.4 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								DIATOM-BEARING FORAMINIFER OOZE and FORAMINIFER OOZE Age: middle Eocene General Description: This core consists of FORAMINIFER OOZE and DIATOM-BEARING FORAMINIFER OOZE. Minor components include calcareous nannofossils, sparse radiolarians, sponge spicules, and sand (quartz, feldspar, olivine?, glass?, chlorite?, and hematite?). Both sections are highly disturbed and Section CC has coarse sand and four pebbles including a 3 cm x 3 cm x 2 cm pebble of granite, partially coated with light pink clay (till matrix); a 3 cm x 3 cm x 1 cm pebble of highly vesicular, aphanitic basalt (vesicles ≤ 1 mm); a 5 cm x 2.5 cm x 1 cm pebble of poorly vesicular, plagioclase-phyric basalt (phenocrysts ≤ 1.5 mm); and a 2 cm x 1.5 cm x 1.5 cm pebble of a manganese oxide-coated undetermined lithology.
2							SS SS	

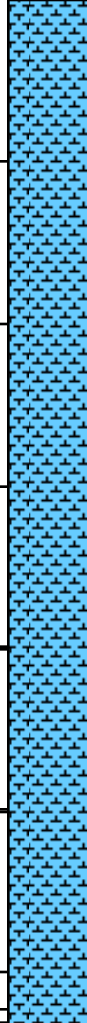
Core Photo

Site 1135 Hole A Core 3R						Cored 18.4-27.8 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1							SS	<p>FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>Age: middle Eocene</p> <p>General Description: This core consists of white (N9) FORAMINIFER-BEARING NANNOFOSSIL OOZE. Several 1-cm dark greenish burrows are present.</p>
1.1							SS	
2							SS	
2.1							SS	
3							SS	
3.1							SS	
4							PP	
4.1							SS	
5							SS	
5.1							SS	
6							SS	
6.1							SS	
7							SS	
7.1							SS	
8							PAL	

Core Photo

Site 1135 Hole A Core 5R						Cored 37.3-46.8 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								<p>— FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>Age: middle Eocene</p> <p>General Description: This core consists of white (N9) FORAMINIFER-BEARING NANNOFOSSIL OOZE. Subtle, light brown stains occur in Section 3, 93-95 cm and in Section 4, 15-16 cm, 48-49 cm, and 95-96 cm. A brownish burrow filled with coarse-grained material occurs in Section 6, 25 cm.</p>
2								
3								
4								
5								
6								
7								

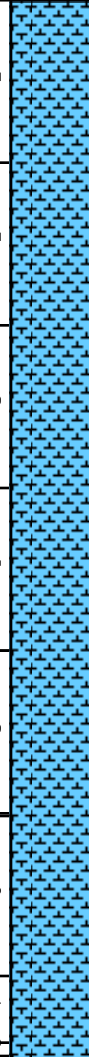
Core Photo

Site 1135 Hole A Core 7R						Cored 56.1-65.1 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								FORAMINIFER-BEARING NANNOFOSSIL OOZE
1-1								AGE: middle Eocene
2								General Description: This core consists of white (N9) FORAMINIFER-BEARING NANNOFOSSIL OOZE.
2-1								
3								
3-1								
4								
4-1								SS
5								
5-1								
6								
6-1								
7								
7-1								
8								
8-1								
9								
9-1								

Core Photo

Site 1135 Hole A Core 9R							Cored 74.6-84.2 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
								<p>GRAVEL</p> <p>AGE: Unknown</p> <p>This core consists of GRAVEL. The pebbles consist of K-feldspar, red quartzite, basalt, and black highly pyroxene-phyric basalt. These pebbles probably represent ice-rafted debris which fell down the hole from higher stratigraphic levels during drilling.</p>




Core Photo

Site 1135 Hole A Core 10R							Cored 84.2-93.9 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1	1						SS	<p>FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>Age: middle to early Eocene</p> <p>General Description: This core consists of white (N9) FORAMINIFER-BEARING NANNOFOSSIL OOZE. A 4-cm diameter black dropstone occurs in Section 1, 0 cm in the drilling slurry. Subtle greenish stains occur in Section 1, 77-85 cm; Section 2, 100-101 cm; Section 3, 6-7 cm; Section 3, 147-148 cm; Section 4, 94-120 cm; and Section 5, 109-110 cm. A small round black stain, perhaps manganese oxide, occurs in Section 5, 58 cm.</p>
1							SS	
2	2						SS	
3								
4	3							
5	4							
6								
7	5						SS	
8	6							
9	7							
8	6							
9	7							
8	6							
9	7							


Core Photo

Site 1135 Hole A Core 11R							Cored 93.9-103.4 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION	
1							SS	FORAMINIFER-BEARING NANNOFOSSIL OOZE	
1.5							SS	AGE: middle to early Eocene	
2									General Description: This core consists of white (N9) FORAMINIFER-BEARING NANNOFOSSIL OOZE. Soupy gray to black fine sand in Section 1, 0-1.5 cm is probably drilling slurry. This sand extends down along the core sides to 40 cm. Also, burrows (1 cm diameter) filled with similar gray and black fine sand occur in Section 1, 10-60 cm. Section 2, 108-120 cm, has some faint black stains (manganese oxide?).
3									
4									
5									
6									

Core Photo

Site 1135 Hole A Core 13R							Cored 113-122.5 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
	1						PAL	<p>FORAMINIFER-BEARING NANNOFOSSIL OOZE</p> <p>AGE: middle to early Eocene</p> <p>General Description: This core consists of white (N9) FORAMINIFER-BEARING NANNOFOSSIL OOZE. A black pebble (4-5 cm diameter), probably basalt, occurs in Section 1, 0 cm in drilling slurry.</p>

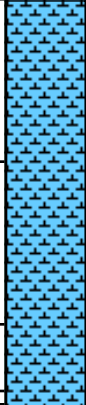


Core Photo

Site 1135 Hole A Core 14R							Cored 122.5-132.2 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								<p>CHERT NODULE</p> <p>Age: undetermined</p> <p>General Description: The entire core is a light gray to brownish gray CHERT NODULE, which is ~13 cm long and the width of the core tube.</p>

Core Photo

Site 1135 Hole A Core 15R							Cored 132.2-141.9 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1	1						SS	FORAMINIFER-BEARING NANNOFOSSIL OOZE
1							SS	AGE: middle to early Eocene
2	2							General Description: This core consists of white (N9) FORAMINIFER-BEARING NANNOFOSSIL OOZE. Section 1, 17-20 cm contains a dark gray to light greenish-gray layer of FORAMINIFER-BEARING NANNOFOSSIL CLAY. Section 1, 60-90 cm, is light greenish gray. Several black patches, possibly pyrite, occur in Section 1, 37-44, 60-64, 76, 95-97, 102, 108 cm; Section 2, 10, 40, 105 and 117 cm; and Section 3, 45 cm. The core catcher contains a piece of white to brownish-gray banded FORAMINIFER-BEARING CHERT 7 cm long.
3	3							
4	4						PAL	

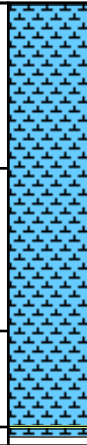


Core Photo

Site 1135 Hole A Core 16R							Cored 141.9-151.6 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1	1						SS	<p>NANNOFOSSIL OOZE</p> <p>AGE: middle to early Eocene</p> <p>General Description: This core consists of white (N9) NANNOFOSSIL OOZE with some interbedded NANNOFOSSIL CLAY. Faint green patches stain the core in Section 1, 16-18 and 137 cm, and Section 2, 62 cm.</p>
1	2						SS	
2	2							
3	3						PAL	

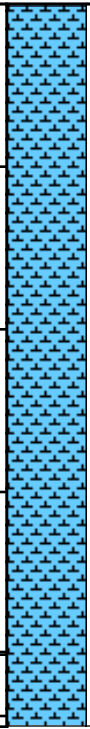



Core Photo

Site 1135 Hole A Core 18R							Cored 161.2-170.8 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
								<p>CHERT</p> <p>AGE: undetermined</p> <p>General Description: The sole material recovered from this core consists of two large pebbles (3 cm x 3 cm x 5 cm and 4 cm x 4 cm x 5 cm) of gray CHERT. The lower piece has a white streak.</p>

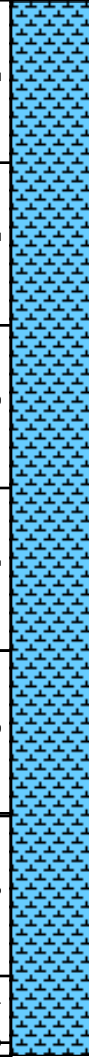
Core Photo

Site 1135 Hole A Core 19R						Cored 170.8-180.4 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1							SS	<p>NANNOFOSSIL OOZE</p> <p>AGE: middle to early Eocene</p> <p>General Description: This core consists of white (N9) NANNOFOSSIL OOZE. Two banded chert nodules occur in Section 1, 54 cm and Section 4, 0-2.5 cm. The upper nodule is 6 cm in diameter, dark gray and contains foraminifers. The lower chert nodule is light gray.</p>
2								
3								
4							PAL	



Core Photo

Site 1135 Hole A Core 20R							Cored 180.4-190 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1	1							<p>NANNOFOSSIL OOZE</p> <p>AGE: middle to early Eocene</p> <p>General Description: This core consists of white (N9) NANNOFOSSIL OOZE. Several < 1 cm black basalt pebbles occur in Section 1, 0 cm. In Section 1, the core is slightly fractured in several places indicating the transition from ooze to chalk. In Section 2 and below, biscuit structures occur throughout. A tooth-shaped shell (2 cm in length and < 1 cm across) occurs in Section 2, 133 cm.</p>
2	2							
3	3							
4	4							
5	5						SS	
6	6							

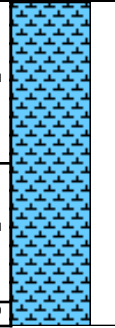

Core Photo

Site 1135 Hole A Core 21R							Cored 190-199.6 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1							SS	<p>NANNOFOSSIL OOZE</p> <p>Age: early Eocene</p> <p>General Description: This core consists of white (N9) NANNOFOSSIL OOZE. Crinoid fragments occur in Section 6, 120-140 cm.</p>
2								
3								
4								
5							SS	
6							PP	
7							PAL	
8							PAL	



Core Photo

Site 1135 Hole A Core 22R							Cored 199.6-209.2 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
								<p>NANNOFOSSIL OOZE</p> <p>Age: early Eocene</p> <p>General Description: This core consists of white (N9) NANNOFOSSIL OOZE. Fine black sand grains occur scattered throughout; these were probably introduced during drilling.</p>

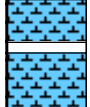
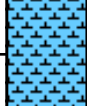
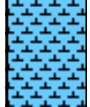
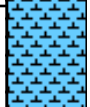
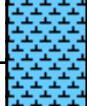
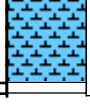

Core Photo

Site 1135 Hole A Core 23R							Cored 209.2-218.9 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								<p>NANNOFOSSIL OOZE</p> <p>Age: middle Eocene</p> <p>General Description: This core consists of white (N9) NANNOFOSSIL OOZE. A single bivalve shell occurs in Section 1, 81 cm. In Section 1, 105-110 cm, black splotches of pyrite(?) are present. Black chert fragments occur in Section 1, 145 cm and Section CC, 0-10 cm.</p>
1.1								
2								
3								PAL

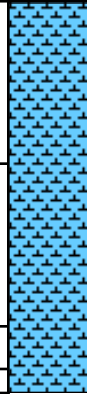


Core Photo

Site 1135 Hole A Core 24R							Cored 218.9-228.5 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
								<p>CHERT</p> <p>Age: Cretaceous</p> <p>General Description: This core consists of three pieces of CHERT, the largest of which is approximately 7 cm long.</p>

Core Photo

Site 1135 Hole A Core 25R						Cored 228.5-238.1 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								NANNOFOSSIL OOZE Age: late Paleocene General Description: This core consists of white (N9) NANNOFOSSIL OOZE.
1								
2								
3								
4								
5								

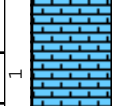
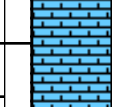
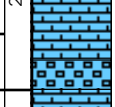



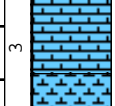
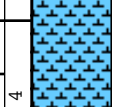
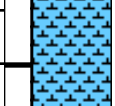
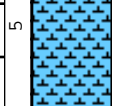
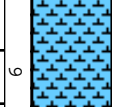
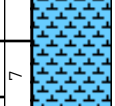
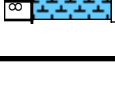


Core Photo

Site 1135 Hole A Core 26R						Cored 238.1-247.7 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								<p>NANNOFOSSIL OOZE</p> <p>Age: Paleocene</p> <p>General Description. This core consists of white (N9) NANNOFOSSIL OOZE. A brown chert nodule (8x5 cm) occurs in Section 1, 26-32 cm.</p>
2							SS	
3								
4							PAL	

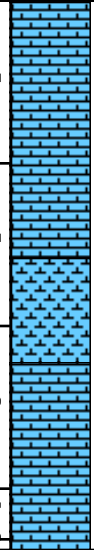

Core Photo

Site 1135 Hole A Core 27R							Cored 247.7-257.3 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1	1						SS	<p>NANNOFOSSIL CHALK and NANNOFOSSIL OOZE</p> <p>Age: early Paleocene</p> <p>General Description: This core consists of interbedded NANNOFOSSIL CHALK and NANNOFOSSIL OOZE. The intervals of NANNOFOSSIL OOZE are probably highly disturbed NANNOFOSSIL CHALK. Chert nodules occur in Section 1, 108-115 cm and in Section 4, 0-4 cm. Small shell fragments (1-3 mm) are common in Section 2 and 3. Rare burrows occur in Section 4. Slight bioturbation is present in Section 1, 70-100 cm.</p>
1							SS	
2	2						SS	
3	3						SS	
4	4						SS	
5	5						SS	

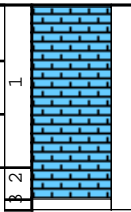

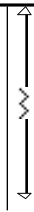
Core Photo

Site 1135 Hole A Core 28R							Cored 257.3-266.9 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1	1						SS	<p>NANNOFOSSIL CHALK</p> <p>Age: Paleocene-Cretaceous</p> <p>General Description: This core consists of white (N9) NANNOFOSSIL CHALK, but drilling has converted the lower part of the core, downward from Section 3, 100 cm to NANNOFOSSIL OOZE. An irregular (erosional?) contact occurs in Section 2, 124 cm and apparently marks the K-T boundary. Immediately under this contact to the base of Section 2 is light greenish gray CALCAREOUS CLAY and CALCAREOUS OOZE with scattered rounded, white NANNOFOSSIL CHALK pebbles of various sizes and moderate bioturbation. This unit may represent erosion and mass-wasting at the K-T boundary.</p>
2	2							
3	3						SS PAL SS SS	
4	3							
5	4							
6	4							
7	5							
8	6							
9	6							
10	7							
11	7							
12	8							




















































Core Photo

Site 1135 Hole A Core 29R							Cored 266.9-276.5 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								<p>NANNOFOSSIL CHALK</p> <p>Age: Cretaceous (late Maastrichtian)</p> <p>General Description: This core consists of white (N9) NANNOFOSSIL CHALK. NANNOFOSSIL OOZE created by coring disturbance occurs interbedded in some intervals. Brown chert nodules are found in Section 3, 37-42 cm and 109 cm.</p>
1-1						SS		
2								
2-1						SS		
3								
3-1								
4								
4-1								
5								

Core Photo

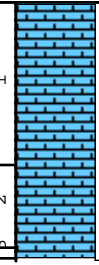



Site 1135 Hole A Core 30R							Cored 276.5-286.1 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1 1 2								<p>NANNOFOSSIL CHALK</p> <p>Age: Cretaceous (late Maastrichtian)</p> <p>General Description: This core consists of white (N9) NANNOFOSSIL CHALK. A broken dark brownish black CHERT nodule occurs in Section 2, 22-26 cm.</p>

Core Photo

Site 1135 Hole A Core 31R						Cored 286.1-295.8 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								<p>NANNOFOSSIL OOZE</p> <p>Age: Maastrichtian</p> <p>General Description: This core consists of white (N9) NANNOFOSSIL OOZE, although Section 1, 0-96 cm, is white NANNOFOSSIL CHALK. Section 1, from 96 to 120 cm depth, contains black chert nodules which have been fractured by drilling. The largest pieces range from 4 to 7 cm long. Soupy NANNOFOSSIL OOZE characterizes the remainder of Sections 1 and 2. The soupy NANNOFOSSIL OOZE beds appear to be slurry created by drilling disturbance.</p>
1								
2								
2								
3								
4								
4								
5								
5								
6								
6								
7								
7								
8								
8								
9								
9								
7								
7								
7								
7								
7								
7								
7								
7								

— PAL

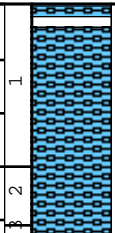


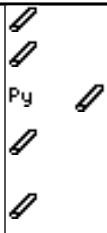

Core Photo

Site 1135 Hole A Core 32R							Cored 295.8-305.5 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1	1							<p>NANNOFOSSIL CHALK</p> <p>Age: Maastrichtian</p> <p>General Description: This core consists of white (N9) NANNOFOSSIL CHALK which has been moderately to highly fractured by drilling. Section 1, 10-90 cm, shows thin (≤ 1 mm) gray color bands.</p>
2	2							<p>PAL</p>

Core Photo

Site 1135 Hole A Core 34R							Cored 315.1-324.5 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1 1 2	1 2						SS PAL	<p>CHALK</p> <p>Age: Maastrichtian</p> <p>General Description: This core consists of white to very light gray CHALK, which has been slightly to moderately fractured by drilling. Distinct burrows are visible in Sections 1 and 2, including a pyrite-filled burrow (5 mm dia.) in Section 2 at 54 cm. In Section 1, 132 cm, the chalk contains a dark gray lens.</p>

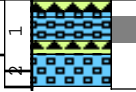



Core Photo

Site 1135 Hole A Core 35R							Cored 324.5-334.1 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1 1 2	1 2			 				<p>CALCAREOUS CHALK</p> <p>Age: Maastrichtian</p> <p>General Description: This core is white CALCAREOUS CHALK, which is fractured by drilling. Occasional burrows are present in Sections 1 and 2. Section 1 contains a 2 cm clast at 72 cm and thin, dark gray laminae between 76 and 81 cm. Section 2, 10-14 cm, has a gray irregular mass, which is possibly a burrow. Section 2, 40-43 cm, shows faint lamination which may be either burrows or gray laminae.</p>




Core Photo

Site 1135 Hole A Core 36R							Cored 334.1-343.6 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1 1 2	1 2							<p>CHALK</p> <p>Age: Campanian</p> <p>General Description: This core consists of white to light gray CHALK. Thin interbeds and laminae of CALCAREOUS CLAY occur in Section 1, 28 cm (0.5 cm thick), 34 cm (0.5 cm thick), 44 cm (0.5 cm thick), 70 cm (0.5 cm), 98 cm (0.5 cm), 143 cm (1 cm thick); Section 2, 10 cm (3 cm thick), and 22 cm (2 cm thick). Two gray burrows occur in Section 2 at 35 and 50 cm.</p>
								<p>SS</p> <p>SS</p> <p>PAL</p>

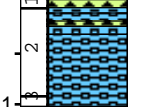

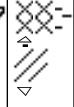
Core Photo

Site 1135 Hole A Core 37R							Cored 343.6-353.2 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
	1						SS PAL	<p>CHALK</p> <p>Age: Campanian</p> <p>General Description: This core consists of light gray CHALK with common dark gray CHERT nodules in Section 1, 0-13 cm and 39-50 cm, and in the CC. A 0.5-cm thick gray layer occurs in Section 1, 38 cm.</p>

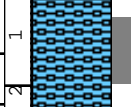


Core Photo

Site 1135 Hole A Core 38R							Cored 353.2-362.9 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1							PAL	<p>CHALK</p> <p>Age: Campanian</p> <p>General Description: This core consists of white CHALK with dark CHERT nodules. A dark gray burrow occurs at 12 cm.</p>

Core Photo

Site 1135 Hole A Core 39R							Cored 362.9-372.6 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1 2							SS PAL	<p>CHALK</p> <p>Age: Campanian</p> <p>General Description: This core is white to very light gray CHALK with common CHERT nodules. Nodules fill Section 1 and occur in Section 2 at 12-18 cm. Gray burrows are present in the less disturbed portions of the chalk.</p>

Core Photo

Site 1135 Hole A Core 40R							Cored 372.6-382.2 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1 3 1	1							<p>CHALK</p> <p>Age: Campanian</p> <p>General Description: This core consists of CHALK ranging in color from very light gray to dark gray and light greenish gray. Dark to light gray CHERT nodules occur in Section 1 at 7-18 cm and in the top of the Core Catcher. A bivalve fragment occurs in Section 1 at 18 cm.</p>




Core Photo

Site 1135 Hole A Core 41R						Cored 382.2-391.9 mbsf		
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								CHALK Age: Campanian
2								General Description: This core consists of light greenish gray CHALK. Gray CHERT nodules occur in Section 1, 53-60 cm, Section 2, 128 cm (1 cm diameter), 135 cm (0.5 cm diameter), and 145-150 cm. Chondrites burrows occur in Section 2, 33-41 cm. A dark horizontal burrow occurs in Section 2, 49 cm. Layers of Inoceramid fragments occur in Section 1, 70-73 cm, 82 cm, 100 cm, 113-120 cm, 127 cm, 143-146 cm; Section 2, 8 cm, 33 cm, 62 cm, 90-115 cm, 125 cm, 134 cm; Section 3, 4 cm, 26-28 cm, 33 cm, 45-49 cm, 55 cm, and 70 cm.
3								
4								

Core Photo

Site 1135 Hole A Core 44R							Cored 411.1-420.7 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1 1 2	1 2							<p>CALCAREOUS CHALK</p> <p>Age: early Campanian</p> <p>General Description: This core consists of very light gray CALCAREOUS CHALK (alternatively bioturbated wackestone). Chalk is silicified in Section 1, 49-52 cm, and dark gray chert occurs in Section 1, 52-56 cm and Section 2, 76-83 cm. A 0.5-cm gray CLAY-BEARING CHALK layer occurs in Section 1, 120 cm. Zoophycos occurs in Section 1, 23 cm and Section 2, 20 and 31 cm. A bivalve occurs in Section 2, 18 cm.</p>

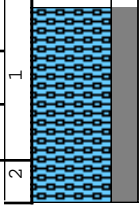



Core Photo

Site 1135 Hole A Core 45R							Cored 420.7-430.4 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1							PAL	CHALK Age: Early Campanian General Description: This core consists of very light gray CHALK. Silicification occurs from 8-10 cm.




Core Photo

Site 1135 Hole A Core 46R							Cored 430.4-440 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								<p>CHALK</p> <p>Age: early Campanian</p> <p>General Description: This core consists of very light greenish gray to very light gray CHALK with CHERT nodules. CHERT occurs in Section 1, 49-51 cm (gray), 67-69 cm (light gray), 73-85 cm (light gray and dark gray), 114-126 cm (light gray and dark gray), 137-146 (light gray and dark gray); Section 2, 0-10 cm (dark gray), and 62-73 cm (dark gray). The chalk is silicified in Section 2, 52-62 cm.</p> <p>Slightly mineralized discontinuity surfaces (firmgrounds) occur in Section 1 at 38 cm and 89 cm. Laminations occur in Section 1 at 45 cm, 132-137 cm, and 145-150 cm. The bottom set of laminations contains laminar vugs. A layer with fine grained bioclasts occurs in Section 1, 25 cm.</p>
2								
3								





Core Photo

Site 1135 Hole A Core 48R							Cored 449.7-458.9 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1 2						WHC PAL	<p>CHALK</p> <p>Age: early Campanian(?)</p> <p>General Description: This core consists of very light gray to light greenish gray CHALK, which has been broken into rock fragments by drilling. Chalk is silicified in Section 1, 59-65 cm, and 76-84 cm, and Section 2, 21-26 cm. In the lower two silicified zones, the chalk grades continuously to gray chert. Gray black burrows are common. A sharp contact occurs in Section 1 at 20 cm.</p>

Core Photo

Site 1135 Hole A Core 49R							Cored 458.9-468.5 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1								<p>CHALK</p> <p>Age: early Campanian(?)</p> <p>General Description: This core consists of four pieces of light greenish gray to light gray CHALK. The uppermost piece (0-12 cm) is a light greenish gray CHALK. The second (12-17 cm) and third (17-22 cm) pieces are light gray CHALK. The bottom piece (22-28 cm) is black CHERT with brown chalk inclusions. The chalk is well-burrowed.</p>

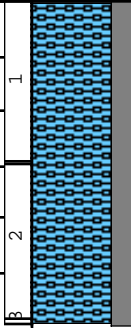
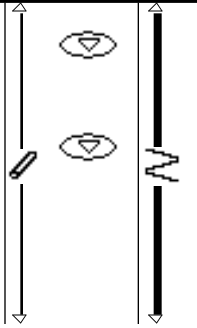

Core Photo

Site 1135 Hole A Core 50R							Cored 468.5-478.1 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
2.1					 		PAL	<p>CHALK</p> <p>Age: Coniacian</p> <p>General Description: This core consists of very light gray to gray CHALK fragmented into pebbles by drilling. The CHALK is moderately bioturbated. A black CHERT nodule occurs in Section 1, 4-6 cm. The chalk in Section 1, 17-18 cm is silicified and is transitional to chert.</p>

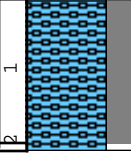


Core Photo

Site 1135 Hole A Core 51R							Cored 478.1-487.8 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
2.1							PAL	<p>CHALK</p> <p>Age: Coniacian</p> <p>General Description: This core consists of very light gray to gray, moderately bioturbated CHALK. Core has been fragmented into pebbles by drilling.</p>

Core Photo

Site 1135 Hole A Core 52R							Cored 487.8-497.1 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1 1 2								<p>CHALK</p> <p>Age: Coniacian</p> <p>General Description: This core consists of very light gray or light greenish gray to gray CHALK, which is moderately to well bioturbated. Burrows are usually gray in color. A black CHERT nodule occurs in Section 1, 38-40 cm and a dark gray cherty bed occurs in Section 1, 126-132 cm. Core has been fragmented into pebbles by drilling.</p>

Core Photo

Site 1135 Hole A Core 53R							Cored 497.1-506.7 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
1 1							WHC PAL	<p>CHALK</p> <p>Age: Coniacian(?)</p> <p>General Description: This core consists of very light gray to light greenish gray CHALK, which is highly bioturbated. Core is broken into fragments by drilling.</p>

Core Photo

Site 1135 Hole A Core 55R							Cored 516.4-526 mbsf	
METERS	SECTION	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	DISTURB.	SAMPLE	DESCRIPTION
	1						PAL	<p>CHERT and CHALK</p> <p>Age: ~Turonian</p> <p>General Description: This core consists of light gray to black CHALK with nodules and interbeds of CHERT. Section 1, 0-7 cm is a fragment of black CHERT, 7-21 cm is a piece of well-burrowed light gray to gray CHALK. Section 1, 21-28 cm consists of black CHERT. Section 1, 28-31 cm contains dark gray to black soft CHALK with black organic material(?) and other black material. Section 1, 31-39 cm is a well-burrowed, very light gray CHALK, 39-50 cm contains gray to dark gray CHALK, 59-69 cm consists of fragments of black CHERT, 69-81 cm contains gray to black CHALK.</p>

Sample										Texture			Mineral							Biogenic							Rock	Other				
Leg	Site	H	Core	CT	Set	Top	Depth	Lithology	Sand	Silt	Clay	Amphibole	Fe Oxide	Feldspar	Glauconite	Limonite	Pyrite	Quartz	Zeolite	Calcspheres	Diatoms	Foraminifers	Nannofossils	Radiolarians	Silicoflagellates	Skeletal Debris	Sponge Spicules	Micrite	Rad/Diatom/Dino Spines	Unknown	Comments	
183	1135	A	1	R	1	1	0.01	D													D											
183	1135	A	1	R	1	9	0.09	D	R	C	D										D				*							
183	1135	A	2	R	1	10	9.6	D		C	D										D			*								
183	1135	A	2	R	1	10	9.6	D	R	C	D										D			*								
183	1135	A	2	R	CC	5	10.07	D		C	D										D				R							
183	1135	A	2	R	CC	8	10.1	D		R	D										R	P	D									
183	1135	A	3	R	1	30	18.7	D			D											R	D									
183	1135	A	3	R	2	75	20.65	D			D		*									C	D									
183	1135	A	3	R	2	120	21.1	D			D											C	D									
183	1135	A	3	R	3	80	22.2	D			D											P	D			*						
183	1135	A	3	R	4	4.8	22.95	D			D											C	D									
183	1135	A	3	R	4	80	23.7	D	R	P	D											C	D		*							
183	1135	A	3	R	4	80	23.7	D			D											C	D		*							
183	1135	A	3	R	5	80	25.2	D	P	P	D											C	D		*							
183	1135	A	3	R	6	13	26.03	D	R	P	D											C	D		*							
183	1135	A	3	R	7	25	27.65	D			D											C	D		R							
183	1135	A	4	R	2	10	29.4	D			D											C	D		*							
183	1135	A	5	R	1	22	37.52	M		R	D						R					C	D		*							
183	1135	A	5	R	4	48	42.28	D		R	D											C	D		R							
183	1135	A	6	R	3	10	49.9	D		R	D											R	C	D								
183	1135	A	7	R	4	10	60.7	D			D											C	D									
183	1135	A	8	R	1	30	65.4	D		R	D											R	C	D		R						
183	1135	A	10	R	1	82	85.02	D			D											C	D		R							
183	1135	A	10	R	2	5	85.75	D			D											C	D									
183	1135	A	10	R	2	100	86.7	D			D											P	D		R							
183	1135	A	10	R	5	110	91.3	D			D											R	D		P							
183	1135	A	10	R	7	6	93.26	D			D											*	D									
183	1135	A	11	R	1	25	94.15	M	P	C	D	R	P	C								P	D									
183	1135	A	11	R	2	25	95.65	D			D											C	D									
183	1135	A	11	R	4	59	98.99	D		P	D											P	D									
183	1135	A	12	R	2	65	105.55	D			D											C	D									
183	1135	A	12	R	5	40	109.8	D			D											R	C	D								
183	1135	A	12	R	6	77	111.67	D		P	D											C	D									
183	1135	A	15	R	1	17	132.37	D																								
183	1135	A	15	R	1	19	132.39	D			D											C	A									
183	1135	A	15	R	1	70	132.9	D			D											C	D									
183	1135	A	16	R	1	40	142.3	D			D											R	D									
183	1135	A	16	R	1	137	143.27	D			D											R	D									
183	1135	A	17	R	1	3	151.63	D		P	D		P										D									
183	1135	A	17	R	4	76	156.86	D			D											R	D									
183	1135	A	19	R	1	80	171.6	D			D											R	D									
183	1135	A	20	R	4	75	185.65	D			D											R	D									
183	1135	A	21	R	1	50	190.5	D			D											P	D									
183	1135	A	21	R	4	90	195.4	D			D											R	D									
183	1135	A	21	R	6	144	198.94	D			D											P	D									
183	1135	A	25	R	4	44	233.44	D		P	D											*	D				P					
183	1135	A	26	R	2	70	240.3	D																								
183	1135	A	26	R	2	70	240.3	D	R		D											*	D				R					

**CORE DESCRIPTIONS
SMEAR SLIDES, SITE 1135**

Sample										Texture			Mineral							Biogenic							Rock	Other			
Leg	Site	H	Core	CT	Set	Top	Depth	Lithology	Sand	Silt	Clay	Amphibole	Fe Oxide	Feldspar	Glauconite	Limonite	Pyrite	Quartz	Zeolite	Calcspheres	Diatoms	Foraminifers	Nannofossils	Radiolarians	Silicoflagellates	Skeletal Debris	Sponge Spicules	Micrite	Rad/Diatom/Dino Spines	Unknown	Comments
183	1135	A	27	R	1	20	247.9	D														C	D								
183	1135	A	27	R	1	98	248.68	D		*					*							P	A								
183	1135	A	27	R	3	50	251.2	D														P	D								
183	1135	A	28	R	1	8	257.38	D														C	A			P					
183	1135	A	28	R	2	120	260	D														C	A			D			*		
183	1135	A	28	R	2	130	260.1	D														R	R			D					
183	1135	A	28	R	2	140	260.2	D														P	R			D					
183	1135	A	28	R	6	30	265.1	D														R	P			D					
183	1135	A	29	R	1	70	267.6	D														P	C			D					
183	1135	A	29	R	2	100	269.4	D													R	P	C			D					
183	1135	A	30	R	2	18	278.18	D														P	P			D					
183	1135	A	31	R	1	10	286.2	D														R	C			A					
183	1135	A	31	R	1	50	286.6	D														P	P			D					
183	1135	A	31	R	5	33	292.43	D		R							R					R	C	P		D					
183	1135	A	31	R	7	30	295.4	D														P	P		P	D					
183	1135	A	32	R	1	15	295.95	D														R	P		R	D					
183	1135	A	32	R	1	90	296.7	D		*							*					R	R		R	A			R		
183	1135	A	32	R	2	40	297.7	D														R	C		R	D					
183	1135	A	33	R	1	21	305.71	D														C	C			D					
183	1135	A	33	R	2	105	307.65	D														P				D					
183	1135	A	33	R	3	144	309.54	D														C	R			D					
183	1135	A	34	R	1	40	315.5	D		P										P		R	C			A					
183	1135	A	35	R	1	10	324.6	D		D	C											C	R								
183	1135	A	36	R	1	142	335.52	D		D	P											P									
183	1135	A	36	R	1	143	335.53	D		D	P											R									
183	1135	A	37	R	1	37	343.97	D		D	P											P									
183	1135	A	39	R	2	80	363.83	D		C	C											C									
183	1135	A	40	R	1	70	373.3	D		D												C									
183	1135	A	41	R	3	135		D		C												C									
183	1135	A	42	R	1	10	392	D		D												P									
183	1135	A	42	R	1	144	393.34	D		D	P											P									