

Core Photo

Site 1193 Hole A Core 5H Cored 35.1-37.1 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesh spherul buffsh rodsh foresh grainsh packsh mudsh mudsh									
36										<p>SKELETAL PACKSTONE/GRAINSTONE</p> <p>Yellow</p> <p>General Description: Skeletal components are dominated by planktonic and benthic foraminifers. Bivalves and gastropod fragments are minor contributors. An early fibrous cement is locally visible.</p> <p>The coarse (> 63 μm) fraction is dominated by black (pyrite and glauconite) sand grains, white planktonic foraminifers, and sizeable lithoclast fragments of foraminifer packstone and grainstone. Sand-sized bioclasts include planktonic foraminifers, rare benthic foraminifers, bryozoans, echinoderms, fish vertebrae, and arthropod fragments. The Miocene larger foraminifer <i>Lepidocyclina</i> is present as well as tests of <i>Amphistegina</i>.</p>

CORE DESCRIPTIONS
VISUAL CORE DESCRIPTIONS, SITE 1193

Core Photo

Site 1193 Hole A Core 6X Cored 37.1-41.9 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
													<p>SKELETAL PACKSTONE</p> <p>Yellow</p> <p>General Description: Skeletal components are dominated by larger benthic foraminifers, bivalve fragments, and small rhodoliths towards the base. Matrix color is pink to red indicating partial dolomitization. A phosphatized, sharp, truncated surface exists at the 19 cm interval in the section. Mud-filled burrows lie immediately below this surface.</p>

Core Photo

Site 1193 Hole A Core 7X Cored 41.9-51.3 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
43	framestin bryoflamin bryoflamin rudstin floatstin grainstin packstin rudstin rudstin									<p>SKELETAL PACKSTONE and RUDSTONE</p> <p>Yellow through white</p> <p>General Description: Skeletal components are dominated by larger benthic foraminifers. Other common to present taxa include bryozoans, bivalve fragments, rhodoliths and calcareous sponges. Platy elongated larger foraminifers increase in size towards the bottom of the core. Pink stains indicate partial dolomitization of the limestone. Microkarst fabric observed comprise small 4 cm wide and 2-3 cm deep cavities with a partial infilling of laminated mud and silt.</p>
									<p>THS</p> <p>THS</p> <p>N</p>	

1193A-8X NO RECOVERY

Core Photo

Site 1193 Hole A Core 9X Cored 56.1-61.2 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
		framesin bedrocksin rudstin floatsin grainsin packsin mudsstin											<p>THS</p> <p>SKELETAL RUDSTONE</p> <p>White</p> <p>General Description: Skeletal components are dominated by a diversity of branching, encrusting, platy and spherical bryozoans. Large benthic foraminifers are common.</p>

Core Photo

Site 1193 Hole A Core 10X Cored 61.2-66.1 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
													<p>← G1 Palst</p> <p>— THS N</p> <p>SKELETAL BINDSTONE/FRADESTONE</p> <p>Yellow</p> <p>General Description: Skeletal components are dominated by encrusting and irregular bryozoans. The matrix is a SKELETAL PACKSTONE with dark grains (glauconite and pyrite), quartz (present), yellow colored minerals (dolomite), and light red silt (paleosol).</p>

Core Photo

Site 1193 Hole A Core 11X Cored 66.1-70.9 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
	framesin bedin mudsin floatsin grainsin packsin framesin mudsin												
													<p>— PAL N SKELETAL FLOATSTONE</p> <p>Reddish yellow</p> <p>General Description: Skeletal components are dominated by large bryozoan fragments. The medium to coarse sand grains show considerable rounding.</p>

Core Photo

Site 1193 Hole A Core 12X Cored 70.9-75.7 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
0													
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
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40													
41													
42													
43													
44													
45													
46													
47													
48													
49													
50													

THS N SKELETON RUDSTONE

White

General Description: Skeletal components are dominated by larger benthic foraminifers and bryozoans.

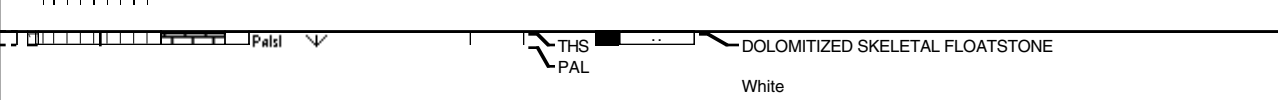
Core Photo

Site 1193 Hole A Core 13X Cored 75.7-80.5 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesin bedin mudsin floatsin grainsin packsin mudsin									
										<p>SKELETAL GRAINSTONE</p> <p>Reddish white</p> <p>General Description: Skeletal components are dominated by bryozoans. Gastropod molds contribute significantly to the high porosity. Some dolomitization was observed.</p>

Core Photo

Site 1193 Hole A Core 14X Cored 80.5-85.3 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
	framesin bedin mudsin foalsin grainsin packsin framesin mudsin												<p>THS</p> <p>SKELETAL PACKSTONE</p> <p>White</p> <p>General Description: Skeletal components are dominated by branching bryozoans. Benthic foraminifers are present. The core is probably partially dolomitized.</p>

Core Photo

METERS		CORE AND SECTION		TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
0	1														
0	1														
 <p style="text-align: right;">DOLOMITIZED SKELETAL FLOATSTONE</p> <p style="text-align: center;">White</p> <p>General Description: Skeletal components are dominated by bryozoans. Bryozoans include thin branches, large fenestrate fronds, and robust stems. Small cavities with a reddish silt infilling (paleosol?).</p>															

Core Photo

Site 1193 Hole A Core 16X										Cored 90.1-99.7 mbsf			
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
													<p>SKELETAL PACKSTONE</p> <p>Pink</p> <p>General Description: Skeletal components are dominated by branching and encrusting bryozoans. Other taxa present include larger benthic foraminifers and coral molds. Sediments are partially dolomitized.</p> <p>The coarse (>63 μm) fraction is dominated by larger benthic foraminifera, bryozoan fragments are also common. Ostracods valves are rare. Intermediate euphotic depth estimate: 20-50 m.</p>

1193A-17X NO RECOVERY

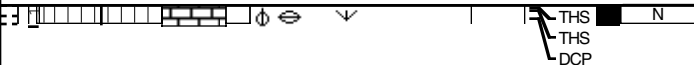
Core Photo

Site 1193 Hole A Core 18X Cored 104.5-109.3 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
		framesin bedin mudsin floatsin grainsin packsin framesin mudsin											<p>SKELETAL FLOATSTONE</p> <p>White</p> <p>General Description: Skeletal components are dominated by nodular, branching and encrusting bryozoans. Other taxa present include bivalve and gastropod molluscs.</p>

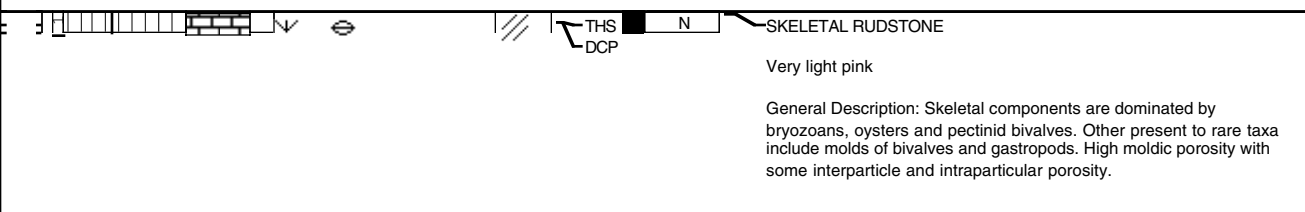
Core Photo

Site 1193 Hole A Core 19X Cored 109.3-114.1 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
		foraminifera bryozoan radiolaria foraminifera grains packstone mudstone											SKELETAL FLOATSTONE Pink General Description: Skeletal components are dominated by branching and encrusting bryozoan fragments. Other taxa present include larger benthic foraminifers.

Core Photo

Site 1193 Hole A Core 20X										Cored 114.1-118.9 mbsf			
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
													<p>  </p> <p> Light pink to very light pink </p> <p> General Description: Skeletal components are dominated by branching, laminar and encrusting bryozoans. Other present to rare taxa include larger benthic foraminifers, and bivalve shells. Low to moderate skeletal, moldic and interparticle porosity. Some small fine sand-sized dolomite crystals (63-250u) observed. </p>

Core Photo

Site 1193 Hole A Core 21X Cored 118.9-123.7 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
	framesin boundstin baflesstin rudstin flotash pactsin wackesin mudstin												<p>  </p>

Core Photo

Site 1193 Hole A Core 22X										Cored 123.7-128.5 mbsf			
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
	framesin bedrocksin rudstin floatsin grainsin packsin mudsstin												<p>DCP THS</p> <p>N</p> <p>SKELETAL RUDSTONE</p> <p>Light beige brown</p> <p>General Description: Skeletal components are dominated by lamellar and branching bryozoans. Gastropods are present to rare. Porosity is low to moderate and includes intra- and interparticle porosity. Minor ripple cross lamination noted, otherwise clast orientation suggests parallel lamination.</p>

Core Photo

Site 1193 Hole A Core 23X Cored 128.5-133.3 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
		framieshn bedfieshn mudsln floatesln grainsln packsln mudsln											DOLONITIZED SKELETAL RUDSTONE Light red General Description: Skeletal components are dominated by bryozoans. Gastropods are rare. Moldic and intergranular porosity present.

Core Photo

Site 1193 Hole A Core 24X Cored 133.3-138.1 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
										<p>SKELETAL RUDSTONE</p> <p>Light pinkish white</p> <p>General Description: Skeletal components are dominated by small laminar, branching and massive bryozoan fragments. Other rare taxa include a large fragment of an oyster. High skeletal and interparticle porosity. Weakly cemented in the upper interval becoming more pervasively cemented towards the base. Slightly dolomitized limestone.</p>

Core Photo

Site 1193 Hole A Core 25X										Cored 138.1-142.9 mbsf			
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
													<p>SKELETAL RUDSTONE</p> <p>Light pinkish white</p> <p>General Description: Skeletal components are dominated by laminar, branching and massive types of bryozoans up to 50mm in size. Other present to rare taxa include rhodoliths (1-3cm), coralline algae fragments, benthic foraminifera, echinoderm spines and bivalves. Some rounded peloid grains were also observed. The limestones show a low to moderate porosity, are strongly cemented, and also show some iron staining.</p>

Core Photo

Site 1193 Hole A Core 26X Cored 142.9-147.7 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
	framiesin boundstin bafflesin rudstin floatesin packstin wackstin mudstin												<p>SKELETAL RUDSTONE</p> <p>Pinkish white</p> <p>General Description: Skeletal components are dominated by laminar and massive bryozoans. Other present to rare taxa include coral bivalves and benthic foraminifers. Intraskelatal porosity is moderate to low, leached skeletal molds of bivalves are common.</p>

Core Photo

Site 1193 Hole A Core 27X Cored 147.7-152.5 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
148													<p>DOLOMITIZED SKELETAL RUDSTONE</p> <p>Pinkish white</p> <p>General Description: Skeletal components are dominated by delicate branching as well as laminar and massive bryozoans. Other present to rare taxa include echinoderm plates, bivalve shell fragments and gastropods. Moderately dolomitized limestone.</p>

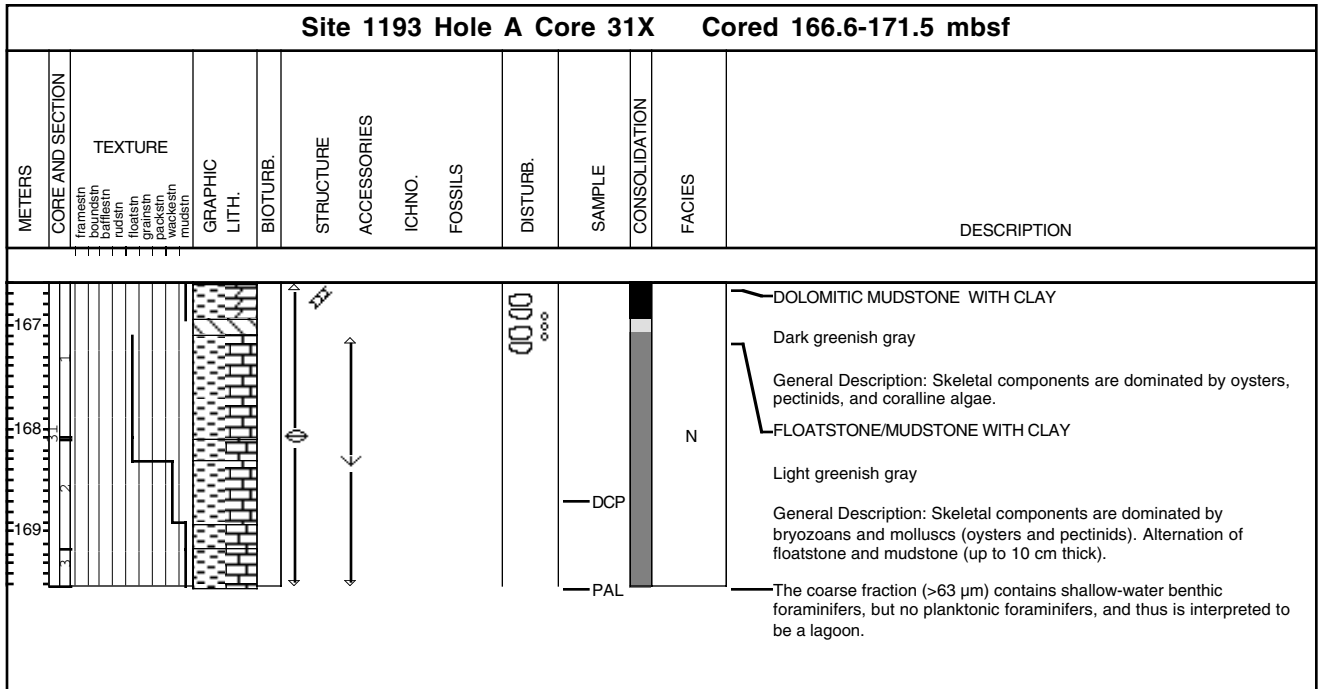
1193A-28X ENTIRE CORE GIVEN TO PALEONTOLOGISTS

Core Photo

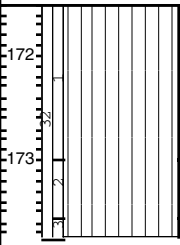
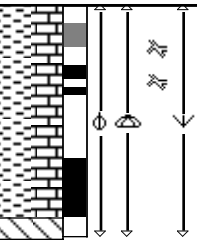
Site 1193 Hole A Core 29X Cored 157.0-161.5 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
	framesin boundstin bafiflesin rudstin floratsin parksin wackesin rudstin												<p>DOLOMITIZED SKELETAL BOUNDSTONE/RUDSTONE</p> <p>Reddish brown</p> <p>General Description: Skeletal components are dominated by coralline algae, molds of gastropods and bryozoans. Other present to rare taxa include bivalves and rhodoliths. Matrix probably consists of a dolomitized grainstone. Intraskelatal and moldic porosities are low.</p>

1193A-30X ENTIRE CORE GIVEN TO PALEONTOLOGISTS

Core Photo




Core Photo

Site 1193 Hole A Core 32X Cored 171.5-176.3 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
172	3	framsstn bovrstn bafstn rudstn fcalstn pckstn wackstn mudstn								SS		N	<p>MUDSTONE WITH CLAY</p> <p>Light greenish gray</p> <p>General Description: Skeletal components are dominated by benthic foraminifers, pectinids, bryozoans and echinoids. Abundant <i>Thalassinoides</i> is observed.</p>
173	2									PAL			

Core Photo

Site 1193 Hole A Core 33X Cored 176.3-186.0 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
177													<p>SKELETAL FLOATSTONE</p> <p>Light olive gray</p> <p>General Description: Skeletal components are dominated by fragments of lamellar and delicate bryozoans. The matrix is composed of silt to very fine sand-sized bioclasts,</p>

Core Photo

Site 1193 Hole A Core 34X Cored 186.0-190.8 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
													<p></p> <p>SKELETAL RUDSTONE</p> <p>Light gray</p> <p>General Description: Skeletal components are dominated by pebble-sized fragments of bryozoans and larger benthic foraminifers. Bioclasts are aligned parallel to bedding planes.</p>

Core Photo

Site 1193 Hole A Core 35X Cored 190.8-195.6 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
191													<p>SKELETAL RUDSTONE</p> <p>Gray</p> <p>General Description: Skeletal components are dominated by pebble-sized bryozoans and large benthic foraminifers. Glauconite is also present. Porosity is high, and mostly seen as inter- and intraparticle porosity.</p>

1193A-36X ENTIRE CORE GIVEN TO PALEONTOLOGISTS

Core Photo

Site 1193 Hole A Core 37X Cored 200.4-205.2 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
													<p>SKELETAL FLOATSTONE</p> <p>Gray</p> <p>General Description: Skeletal components are dominated by bryozoans and foraminifers. Coarse sand-sized grainstone matrix dominated by bryozoans.</p>

Core Photo

Site 1193 Hole A Core 38X Cored 205.2-210.0 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
		framiesin beforiesin mudsin foalsin grainsin packsin mudsin											THS N SKELETAL GRAINSTONE pale yellow General Description: Skeletal components are dominated by bryozoans and foraminifers. Well-sorted, fine to medium sand-sized grains.

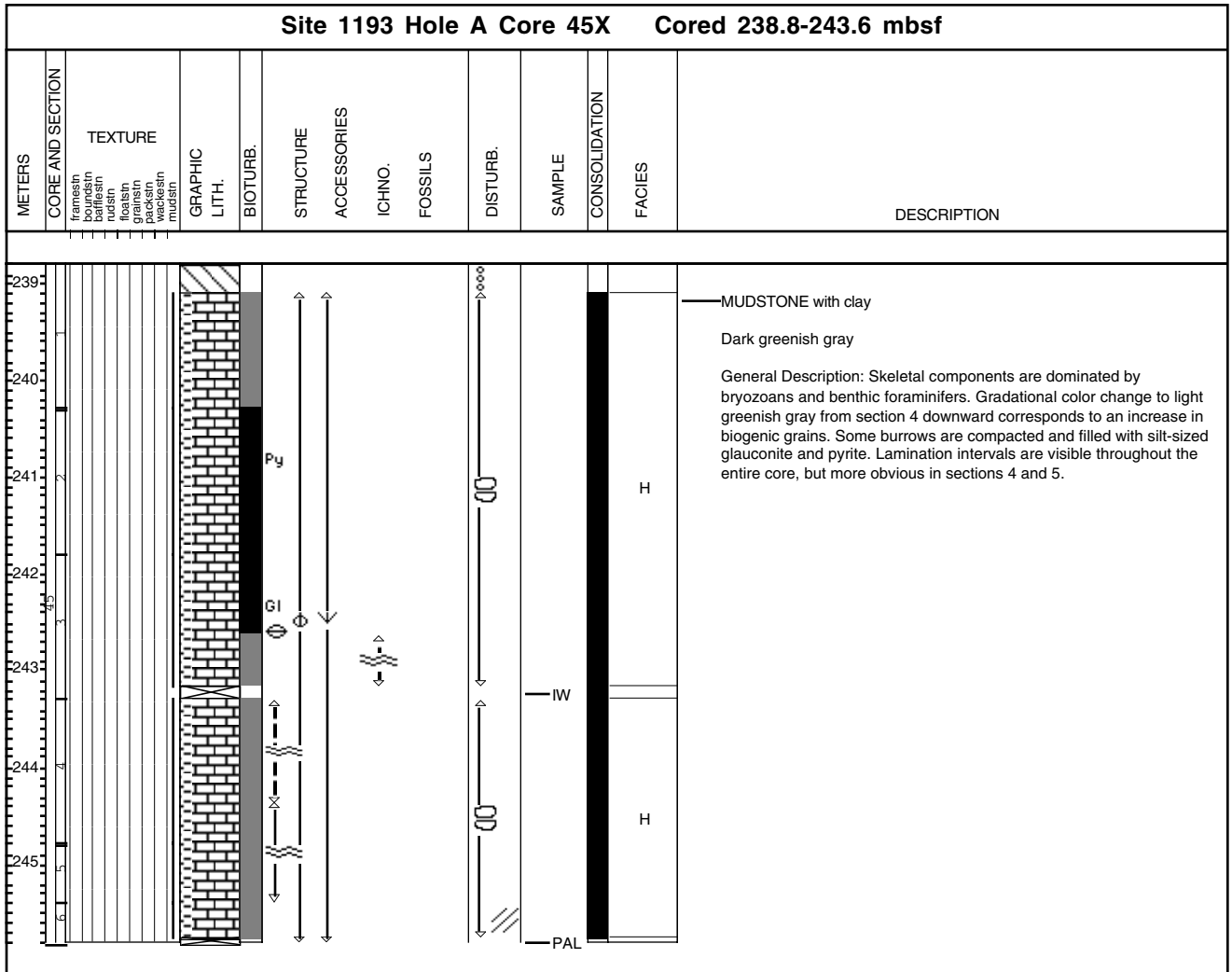
Core Photo

Site 1193 Hole A Core 39X Cored 210.0-214.8 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
211.35													<p>SKELETAL FLOATSTONE</p> <p>White to light greenish gray</p> <p>General Description: Skeletal components are dominated by bryozoans and larger benthic foraminifers. Abundant thick lamellar forms of bryozoans are observed. Very fine sand-sized matrix, well sorted. Sediments exhibit very low porosity.</p>

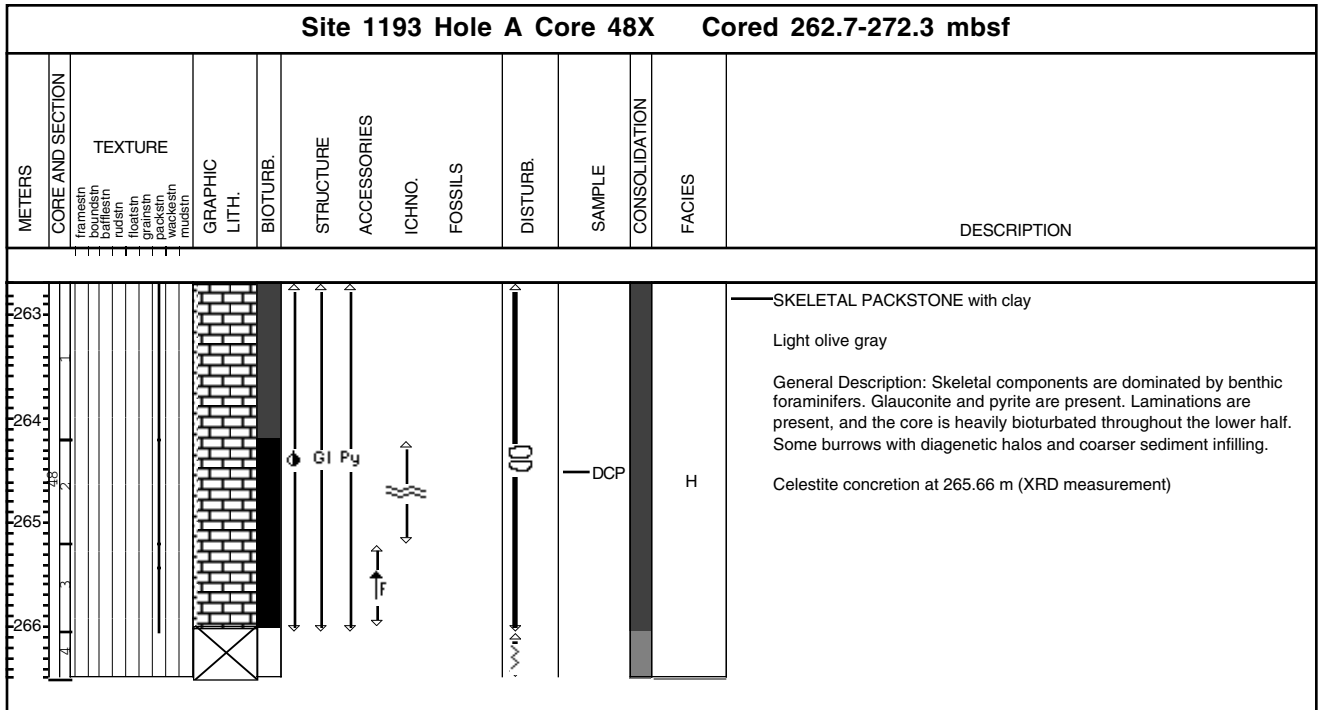
Core Photo

Site 1193 Hole A Core 40X Cored 214.8-219.6 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
215													<p>Py ϕ GI ∇</p> <p>THS N</p> <p>SKELETAL GRAINSTONE</p> <p>Pale yellow to dark greenish gray</p> <p>General Description: Skeletal components are dominated by bryozoan fragments and larger benthic foraminifers. Glauconite and pyrite grains are present. Faint laminations can be observed.</p>

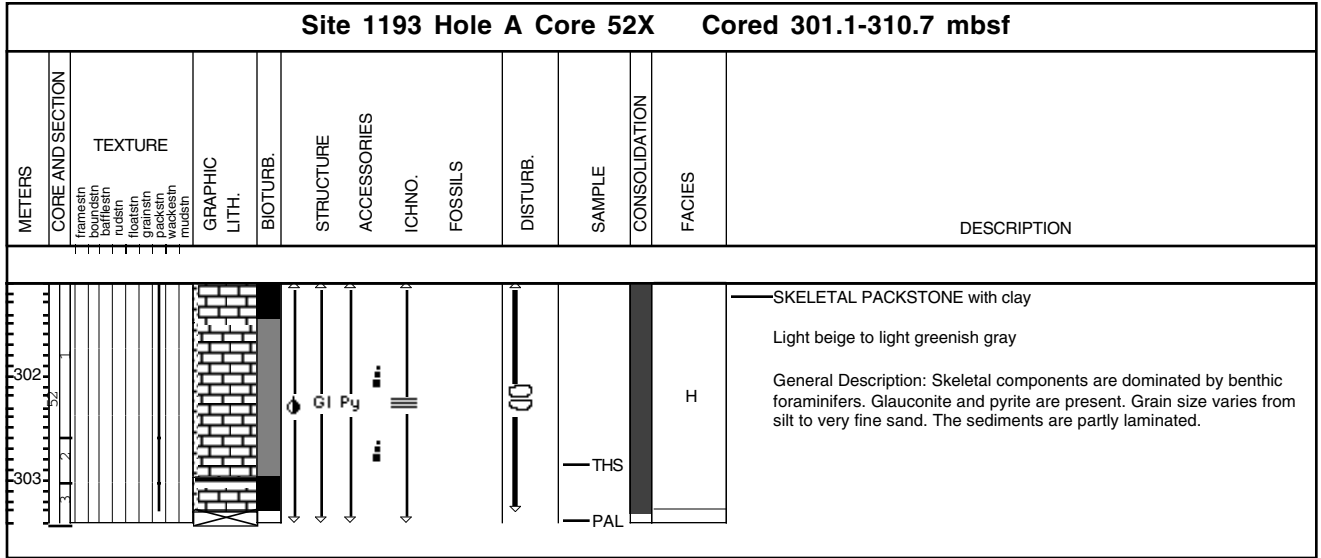
Core Photo



Core Photo



Core Photo



Core Photo

Site 1193 Hole A Core 53X Cored 310.7-315.5 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
311 3 2 312													<p>— SKELETAL PACKSTONE with clay</p> <p>Light gray to light olive gray</p> <p>General Description: Skeletal components are dominated by benthic foraminifers. Grain size varies from silt to very fine sand. Discrete planar lamination and ripples are observed.</p>

Core Photo

Site 1193 Hole A Core 54X Cored 315.5-320.4 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
		framesin boundstin ballfstin ludstin ludstin grainstin packstin wackestin mudstin											<p>SKELETAL GRAINSTONE with clay</p> <p>Light beige gray</p> <p>General Description: Skeletal components are dominated by benthic foraminifers. Other present to rare grains include glauconite and pyrite. Grain size ranges from silt to very fine sand. Laminations are observed.</p>

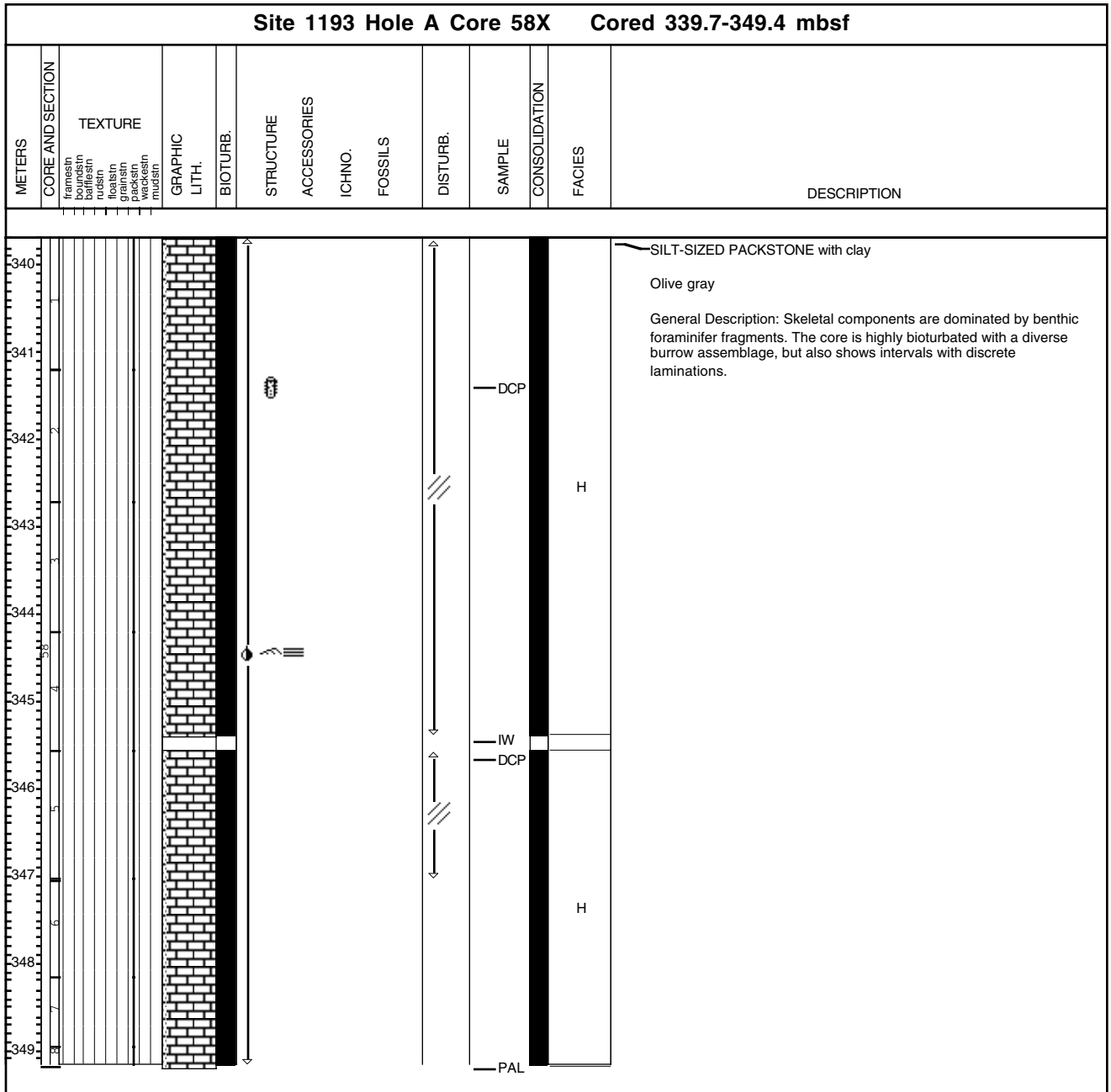
Core Photo

Site 1193 Hole A Core 55X Cored 320.4-325.2 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
		framesin bohringsin ludasin floatsin grainsin packsin framesin mudsin											<p>SILT-SIZED GRAINSTONE with clay</p> <p>Light gray</p> <p>General Description: Rare benthic foraminifers are observed. Scattered burrows.</p>

Core Photo

Site 1193 Hole A Core 56X										Cored 325.2-330.1 mbsf			
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
													<p>SKELETAL PACKSTONE with clay</p> <p>Light gray</p> <p>General Description: Skeletal components are dominated by benthic foraminifers. A burrowed softground is observed with fine packstone infilling.</p>

Core Photo



Core Photo

Site 1193 Hole A Core 59X Cored 349.4-359.0 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICING.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
350.0													
351.0													
352.0													
353.0													
354.0													
355.0													
356.0													
357.0													
358.0													

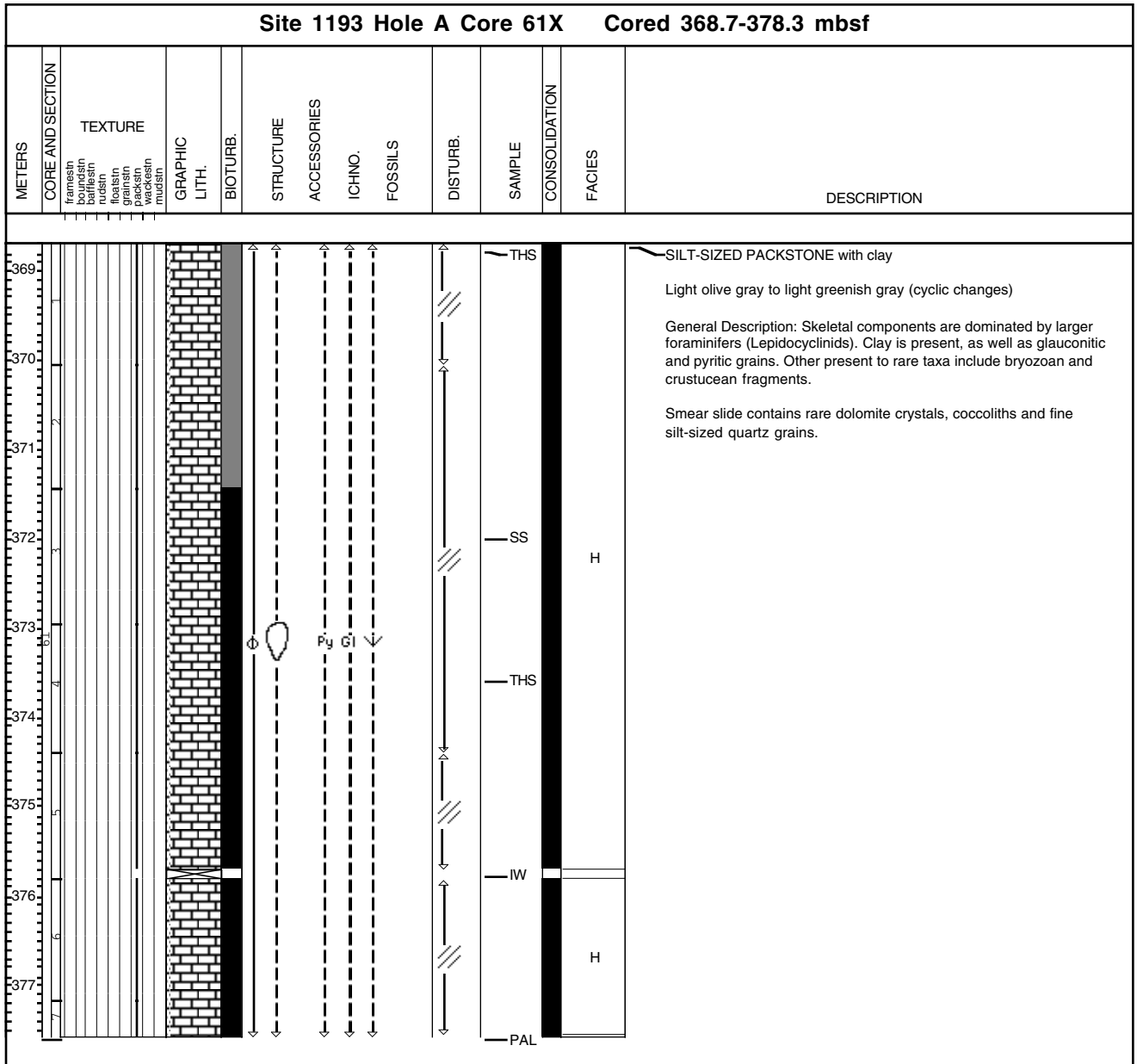
SKELETAL PACKSTONE with clay

Light olive gray

General Description: Skeletal components are dominated by large benthic foraminifers. Celestite and pyrite crystals are observed. Sediments are well sorted, very-fine grained sands that are highly bioturbated with diverse burrow assemblage.

H

Core Photo



Core Photo

Site 1193 Hole A Core 62X Cored 378.3-387.9 mbsf														
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURE.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION	
379	1												<p>— SILT-SIZED PACKSTONE with clay</p> <p>Light olive gray to olive gray</p> <p>General Description: Skeletal components are present to rare and include benthic foraminifers, bryozoan fragments, and thin shell debris. Silt-sized quartz and glauconite are present. Moderately well sorted sediment. At the base of the core grading are observed. Burrows are filled by both grainstone and mudstone.</p> <p>Smear slide analysis shows rare calcareous nanofossils.</p>	
380	2											SS		
381	3											THS		H
382	4											GI		
383	5											IW		H
384	6											DCP THS		N
385													<p>— SKELETAL GRAINSTONE</p> <p>Light greenish gray</p> <p>General Description: Skeletal components are dominated by benthic foraminifers and bryozoan fragments. Well sorted sand. Some benthic foraminifer tests are partly glauconitized.</p>	

Core Photo

Site 1193 Hole A Core 64X Cored 397.6-407.2 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
398 0.1 2		framiesin boordiesin bafflesin rudiesin floatesin packesin wackesin mudiesin										N	SKELETAL GRAINSTONE with clay Light olive gray General Description: Skeletal components are dominated by benthic foraminifers and bryozoan fragments. Blackened grains are common and skeletal grains are filled with glauconite. Laminations are present in the top 20 cm. Bioturbation increases downcore.

Core Photo

Site 1193 Hole A Core 65X Cored 407.2-412.0 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesin bedin mudsin foalsin grainsin packsin mudsin									<p>SKELETAL GRAINSTONE with quartz</p> <p>Dark greenish gray</p> <p>General Description: Skeletal components are dominated by benthic foraminifers and bryozoans. Glauconite and pyrite are present.</p> <p>SKELETAL GRAINSTONE with clay</p> <p>Light gray</p> <p>General Description: Skeletal components are dominated by benthic foraminifers and bryozoans. Sediment is poorly sorted.</p>

Core Photo

Site 1193 Hole A Core 66X Cored 412.0-416.8 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
	framesin boundstin bafiflesin rudstin floralstin parksin wackestin mudstin												<p>SKELETAL GRAINSTONE with clay</p> <p>Light gray to light greenish gray</p> <p>General Description: Skeletal components are dominated by benthic foraminifers and bryozoan fragments. Abundant blackened grains.</p>

Core Photo

Site 1193 Hole A Core 67X Cored 416.8-421.6 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
417													<p>SKELETAL GRAINSTONE with quartz</p> <p>Greenish gray</p> <p>General Description: Skeletal components are dominated by unidentified fragments. Quartz is present as are abundant blackened grains.</p>

Core Photo

Site 1193 Hole A Core 68X Cored 421.6-426.4 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
422													<p>SKELETAL GRAINSTONE with quartz</p> <p>Gray</p> <p>General Description: Bioclasts are abundant, but cannot be identified due to extensive recrystallization. Medium to fine sand-sized quartz grains are present, and dark grains (pyrite/glaucanite) are abundant.</p>

Core Photo

Site 1193 Hole A Core 69X Cored 426.4-431.2 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
		framesin bedin rudin foatin grainin packin mudsin											<p>SKELETAL GRAINSTONE with quartz</p> <p>Yellow</p> <p>General Description: Skeletal components are dominated by bivalve and brachiopod shells. Bryozoans are present to rare. Well-rounded quartz grains are present. Sediments have moldic porosity, and are poorly sorted.</p>

Core Photo

Site 1193 Hole A Core 70X Cored 431.2-436.0 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesin bedrocksin mudsin floatsin grainsin packsin mudrocksin mudsin									<p>SKELETAL GRAINSTONE with quartz</p> <p>Brown</p> <p>General Description: Skeletal components are dominated by benthic foraminifera. Brachiopods are present to rare. Well-rounded quartz sand grains are present, as are blackened sand grains (pyrite/glaucanite).</p>

1193A-71X NO RECOVERY








1193A-72X NO RECOVERY

Core Photo

Site 1193 Hole A Core 73X Cored 445.6-450.4 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100													SANDSTONE Brown General Description: Abundant dark grains. Sand grains are rounded to sub-rounded, well sorted, and cemented by calcitic cement. Some mud lenses are present.

1193A-74X NO RECOVERY

Core Photo

Site 1193 Hole A Core 75X Cored 455.2-460.1 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
	framesin bedin fossilsin floatsin grainsin packsin mudsin									THS PAL	N		GRAINSTONE WITH QUARTZ Dark greenish gray General Description: Skeletal components are dominated by bryozoan fragments. Other present to rare taxa include bivalve, shell fragments and benthic foraminifers.

Core Photo

Site 1193 Hole A Core 76X Cored 460.1-464.9 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesin bedin mudsin floatsin grainsin packsin mudsin									
										<p>GRAINSTONE WITH QUARTZ</p> <p>Light yellowish brown</p> <p>General Description: Skeletal components are dominated by large benthic foraminifers, shell fragments (Pectinid molluscs), and fragments of irregular Clypeasterid echinoderms. Fine to medium grained quartz sand is common. Benthic foraminifers are glauconitized. Clay minerals are present especially in light red stained areas.</p>

Core Photo

Site 1193 Hole A Core 77X Cored 464.9-469.7 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
	framesin bourdesin bafflesin rudsin floatsin parksin wackesin mudsln												<p>SKELETAL GRAINSTONE WITH QUARTZ</p> <p>Reddish-yellow</p> <p>General Description: Skeletal components are dominated by larger benthic foraminifers, bivalves, and gastropods. Other present to rare taxa include echinoderms, bryozoans and coralline algae. Quartz sand is common, glauconite and lithic fragments are present. The sediment is mostly composed of coarse grain-sized, poorly sorted sand.</p>

Core Photo

Site 1193 Hole A Core 78X Cored 469.7-474.5 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
470													<p>SKELETAL GRAINSTONE with quartz</p> <p>Greenish gray</p> <p>General Description: Skeletal components are difficult to identify, but appear to consist mainly of bryozoans and benthic foraminifer fragments. Sediments contain ~10% quartz sand and common glauconite. Abundant dark grains may be lithic fragments or phosphate. Grain size is fine, well sorted sand.</p>

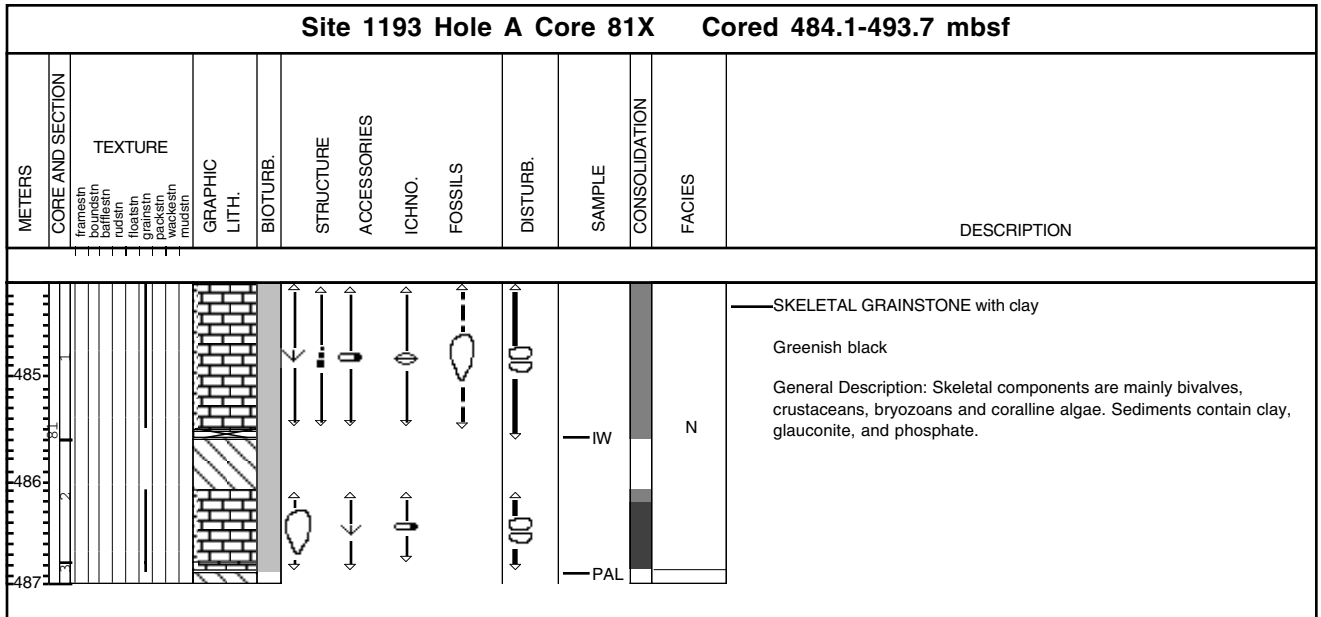
Core Photo

Site 1193 Hole A Core 79X Cored 474.5-479.3 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
475	1												
476	2												
477	3												
478	4												
													<p>— SKELETAL GRAINSTONE</p> <p>Greenish gray to dark greenish gray</p> <p>General Description: Skeletal components are dominated by bryozoans and foraminifers. Other present to rare taxa include bivalves and crustaceans. Siliciclastics (mainly silt-sized) with glauconite are abundant. Grain size is fine to medium, well sorted silt.</p>

Core Photo

Site 1193 Hole A Core 80X Cored 479.3-484.1 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
180 80 2	framesin boordsin baflesin rudsin flotash paksin wackesin mudsin											H	<p>SKELETAL GRAINSTONE with quartz</p> <p>Dark greenish gray</p> <p>General Description: Skeletal components are mainly bryozoans, benthic foraminifers, and coralline algae. Sediments contain few clay, silt, quartz sand, and abundant glauconite. Sorting is poor to moderate.</p>

Core Photo



Core Photo

Site 1193 Hole A Core 82X Cored 493.7-503.3 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
494 2 5.2													<p>QUARTZ SANDSTONE</p> <p>Dark greenish gray</p> <p>General Description: Skeletal components (up to 4 cm) are bryozoans, benthic foraminifers, and bivalves. Glauconite is present. Grain size is coarse with poor to moderate sorting.</p>

Core Photo

Site 1193 Hole A Core 83X Cored 503.3-512.9 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
													<p>QUARTZ SANDSTONE</p> <p>Light greenish gray</p> <p>General Description: Skeletal components are dominantly bryozoans, benthic foraminifers, and coralline algae. Glauconite is present. Grain size is medium sand with moderate sorting.</p> <p>SKELETAL GRAINSTONE WITH QUARTZ</p> <p>dark greenish grey</p> <p>General Description: Skeletal components (up to 4 cm) include bryozoans, and benthic foraminifers. Sediments contain quartz sand, silt, clay, and abundant glauconite.</p>

1193A-84X NO RECOVERY

Core Photo

Site 1193 Hole B Core 1R Cored 35.0-44.4 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesht bedfinesht buffinesht rudsh foatesht grainsht packsh wofinesht mudshht									
36										HP SKELETAL PACKSTONE with clay Light olive gray
37										N General Description: Skeletal components are dominated by planktonic foraminifers and scarce benthic foraminifers. SKELETAL GRAINSTONE Light olive gray General Description: Skeletal components are dominated by benthic foraminifers, planktonic foraminifers, mollusks, and scarce solitary corals. SKELETAL RUDSTONE White General Description: Skeletal components are dominated by benthic foraminifers, coralline algae, bryozoans, planktonic foraminifers, mollusks, and serpulids.

Core Photo

Site 1193 Hole B Core 3Z Cored 53.8-58.5 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesin bedsin buffsin rudsin floatsin grainsin packsin wedgesin mudasin									
54										<p>SKELETAL RUDSTONE</p> <p>Light cream white</p> <p>General Description: Skeletal components are dominated by bryozoans, benthic foraminifers, coralline algae, and mollusks. Bryozoans are often fragmented. Morphological types distinguished include delicate cylindrical branches, massive arborescent (Celleporid) colonies, delicate laminar branches, and fenestrate forms.</p>

1193B-4Z NO RECOVERY

Core Photo

Site 1193 Hole B Core 5Z Cored 63.2-67.9 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
64	framesin bedfin buffin rudfin foatin grainin packin wackin mudsett									<p>SKELETAL RUDSTONE</p> <p>Light pink to pinkish white</p> <p>General Description: Skeletal components are dominated by bryozoans and benthic foraminifers. Black and dark green grains (glauconite and phosphate) are common and increase down section. A well-developed parallel lamination is observed with orientation and flattening of elongate and platy grains in lower part of section. Quartz is common and associated with siliciclastic-rich layers from 92-124 cm.</p>

Core Photo

Site 1193 Hole B Core 6Z Cored 67.9-71.8 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesin buffin rudstin foastin grainin packsin wofasin rudstin									
69										<p>THS DCP</p> <p>THS DCP</p> <p>THS DCP</p> <p>N</p> <p>— SKELETAL FLOATSTONE/RUDSTONE Pink to light pink General Description: Skeletal components are dominated by bryozoans and benthic foraminifers. Planktonic and glauconite decrease down section. The matrix consists of a moderately sorted, medium-grained grainstone. Bioclast interiors are oxidized to a dark orange.</p> <p>— SKELETAL FLOATSTONE/RUDSTONE Yellow General Description: Skeletal components are dominated by bryozoans, benthic foraminifers, and planktonic foraminifers. Matrix consists of mud. Two pieces are partly capped by a moderately-sorted, medium-grained grainstone with abundant planktonic foraminifers and glauconite, underlain by slightly oxidized, low surface. Moldic and intraparticle porosity is about 10%. A 4 cm bivalve shell at the top of this zone has a bored, bryozoan-encrusted top.</p> <p>— SKELETAL PACKSTONE White General Description: Skeletal components are dominated by bryozoans and benthic and planktonic foraminifers. Matrix consists of mud. A crack 0.5-2 cm wide runs through the sample, 60 degree to vertical, filled with fine-grained grainstone rich in planktonic foraminifers and glauconite. Lower surface of crack has pink oxidized stained zone 1.5 cm thick.</p> <p>— SKELETAL RUDSTONE/GRAINSTONE/PACKSTONE White General Description: Skeletal components are dominated by large benthic foraminifers and lesser bryozoans and rhodoliths. Layered variation in mud content controls interparticle porosity (5-20%).</p>

1193B-7Z NO RECOVERY

Core Photo

Site 1193 Hole B Core 8Z Cored 73.2-76.9 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesin spongin buffsin rudsin floatsin grainsin packsin mudclsin mudstsin									
74										<p>SKELETAL RUDSTONE</p> <p>White</p> <p>General Description: Skeletal components are dominated by larger benthic foraminifers and bryozoan fragments. A hermatypic (?) coral mold and a bivalve mold are seen. Sediments are composed of a very coarse-grained sand that is poorly sorted, and poorly layered. Moldic and interparticle porosity is high. Some glauconite and red stains occur in the lower part of the core.</p> <p>SKELETAL GRAINSTONE</p> <p>White</p> <p>General Description: Skeletal components are dominated by bryozoans and larger benthic foraminifers.</p>
									<p>DCP</p> <p>THS</p> <p>THS</p> <p>N</p>	

Core Photo

Site 1193 Hole B Core 9Z Cored 76.9-81.6 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesh sands buffsh rudsh floatsh grainsh packsh mudsh mudsh									
										<p>SKELETAL GRAINSTONE</p> <p>White</p> <p>General Description: Skeletal components are dominantly bryozoans, larger benthic foraminifers, mollusks (molds; gastropods), and echinoid spines. The sediment consists of very coarse sand-sized grains. Sorting is moderate. Interparticle, intraparticle (rare), and moldic porosity are seen.</p>
										<p>PAL</p> <p>N</p>

1193B-10Z NO RECOVERY

Core Photo

Site 1193 Hole B Core 11Z Cored 86.3-91.0 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesh bafflesh buffsh rudsh foresh grainsh packsh wacksh mudsh									
87										<p>SKELETAL PACKSTONE Yellowish white to white General Description: Skeletal components are dominated by bryozoans and larger benthic foraminifers. Other present to rare taxa include solitary corals and gastropods (molds). Rhodoliths are present. Porosity is moderate to high (moldic and interclastic). Erosional surfaces(?) at 12-15cm (86.65-86.67 mbsf) and 35-37cm (86.42-86.45 mbsf).</p> <p>SKELETAL GRAINSTONE Pinkish white General Description: Skeletal components are dominated by bryozoans and mollusks. The sediment consists of coarse-grained sand to granule-sized grains and is moderately sorted. Cm-alternation of coarser and finer beds produce a bedding structure. Interparticle porosity present. Blocky calcite cements are well developed.</p>

Core Photo

Site 1193 Hole B Core 12Z Cored 91.0-95.7 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesh spherul buffsh rudsh foresh grainsh packsh wacksh mudsh									
92										<p>SKELETAL PACKSTONE</p> <p>Reddish to pinkish</p> <p>General Description: Skeletal components are dominated by bryozoans, shells (molds), and larger benthic foraminifers. The sediments consist of coarse to very coarse sand that is moderately to well sorted. Porosity is high and is predominantly interparticle.</p>
									<p>DCP</p> <p>THS</p> <p>N</p>	

1193B-13Z NO RECOVERY

Core Photo

Site 1193 Hole B Core 14Z Cored 100.4-105.1 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
												<p>DOLOMITIC PACKSTONE</p> <p>Red</p> <p>General Description: Skeletal components are dominantly bryozoans and shells (molds). Moldic porosity abundant.</p> <p>SKELETAL PACKSTONE</p> <p>Very pale brown</p> <p>General Description: Skeletal components are dominantly bryozoans and mollusks. The sediment consists of coarse sand to granules and is poorly sorted. Porosity is mostly interparticular.</p>	

1193B-15Z NO RECOVERY

Core Photo

Site 1193 Hole B Core 16Z Cored 109.8-114.5 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
110													<p>SKELETAL RUDSTONE</p> <p>Pinkish white</p> <p>General Description: Skeletal components are dominantly bryozoans and larger benthic foraminifers. Other present to rare taxa include bivalves and rhodoliths. The sediment is sand to pebble-sized, and poorly sorted. Interparticle porosity is high.</p>

Core Photo

Site 1193 Hole B Core 17Z Cored 114.5-119.2 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
15	framestin bourrostin baflestin rudstin floatstin pactstin wackestin mudstin									DCP	N		<p>SKELETAL RUDSTONE White to reddish white</p> <p>General Description: Skeletal components are dominantly bryozoans. Other present to rare taxa include shell fragments and larger benthic foraminifers. The sediments consist of sand to pebble-sized grains, and are poorly sorted. Inter- and intraparticle porosity are high. Skeletal components become more abundant toward the bottom of the core.</p>

1193B-18Z NO RECOVERY

Core Photo

Site 1193 Hole B Core 19Z Cored 123.9-128.6 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
	framesin boundstin baflesstin rudstin floatstin packstin wackestin mudstin												<p>— THS N SKELETAL PACKSTONE</p> <p>Pinkish white</p> <p>General Description: Skeletal components are dominantly gastropods and brachiopods (molds). The sediments consist of pebble-sized grains and are poorly sorted. Intraparticle porosity is low.</p>

Core Photo

Site 1193 Hole B Core 20Z Cored 128.6-133.3 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
129													<p>DOLOMITIC RUDSTONE</p> <p>Yellowish white to white</p> <p>General Description: The sediment consists of 100% sucrosic dolomite. Vague layering reflects varying mud content and bioclast sorting. The moderate porosity is moldic and intercrystalline.</p>

1193B-21Z NO RECOVERY

Core Photo

Site 1193 Hole C Core 1R Cored 35.0-44.4 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	framesin bedfin buffin rudfin floatin grainin packin wackin mudsett									
36										<p>SKELETAL WACKSTONE/PACKSTONE</p> <p>Light gray to pale yellow</p> <p>General description: Skeletal components are dominantly large benthic foraminifers and mollusks.</p>
37										<p>SKELETAL FLOATSTONE/RUDSTONE/GRAINSTONE</p> <p>Light gray to pale yellow</p> <p>General Description: Skeletal components are dominantly larger benthic foraminifers, mollusks, bryozoans and coralline algae. Small laminar rhodoliths occur. Two 20 cm thick layers display reddish yellow vadose silt infillings. Irregular reddish stains are scattered all along the core.</p>

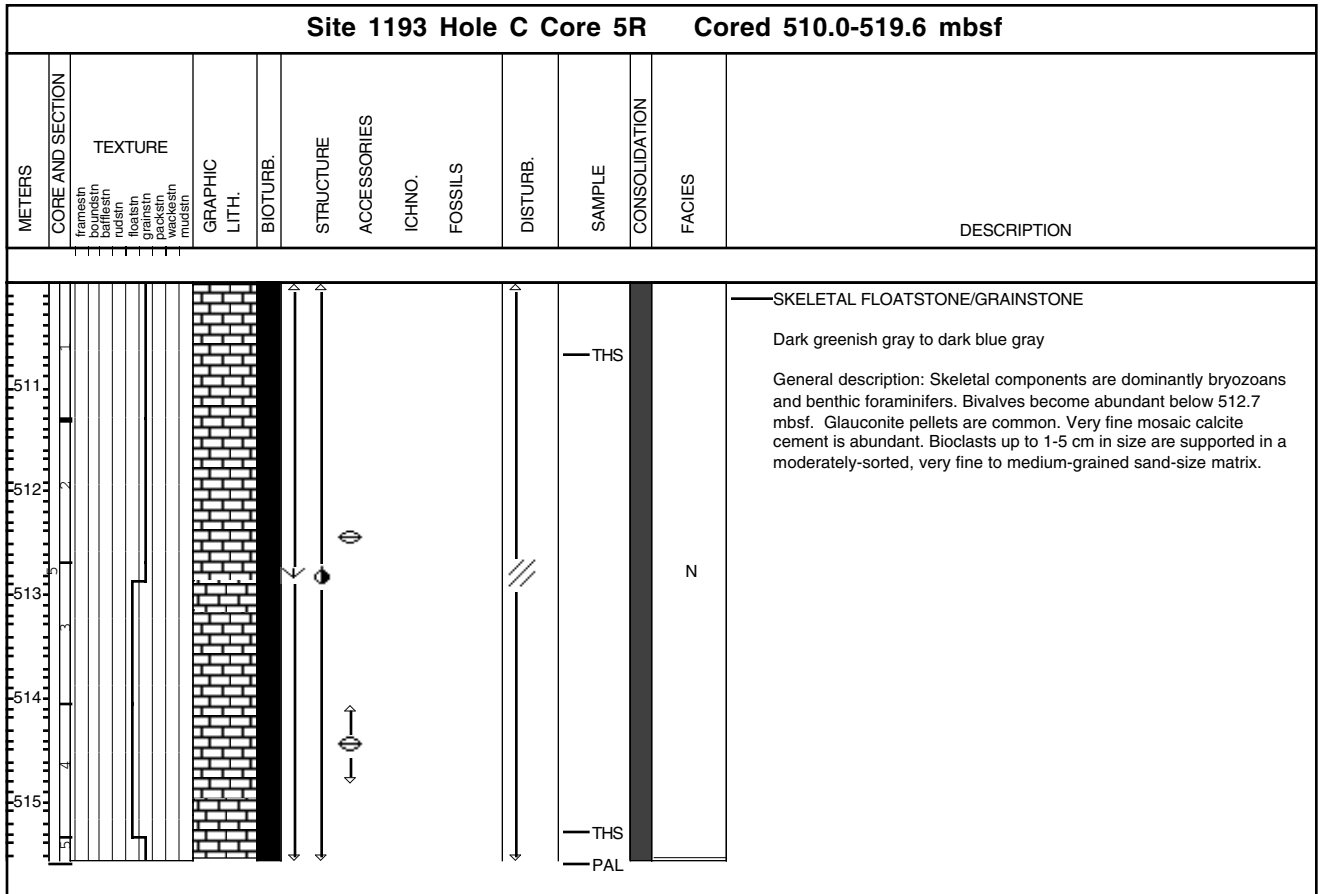
Core Photo

Site 1193 Hole C Core 3R Cored 51.4-60.6 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
		framesin bohrmsin ludsin floatsin grainsin packsin framesin mudsin											<p>SKELETAL RUDSTONE</p> <p>White</p> <p>General description: Skeletal components are dominantly bryozoans, larger benthic foraminifers, and coralline algae. Glauconite is rare.</p>

Core Photo

Site 1193 Hole C Core 4R Cored 60.6-70.1 mbsf										
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	DESCRIPTION
	frameshr baffleshr buffsh rudsh floatsh grainsh packsh wacksh mudsh									
61									DCP	SKELETAL FLOATSTONE/RUDSTONE White to reddish yellow General description: Skeletal components are dominantly bryozoans and larger benthic foraminifers. Floatstone evolves to rudstone through several coarsening upward sequences. A grainstone matrix with common glauconite is observed.
62									DCP THS THS THS DCP DCP THS DCP	BOUNDSTONE Pink to very pale brown General description: Skeletal components are dominantly bryozoan.
										SKELETAL FLOATSTONE/PACKSTONE with clay Pink to very pale brown General description: Skeletal components are dominant

Core Photo



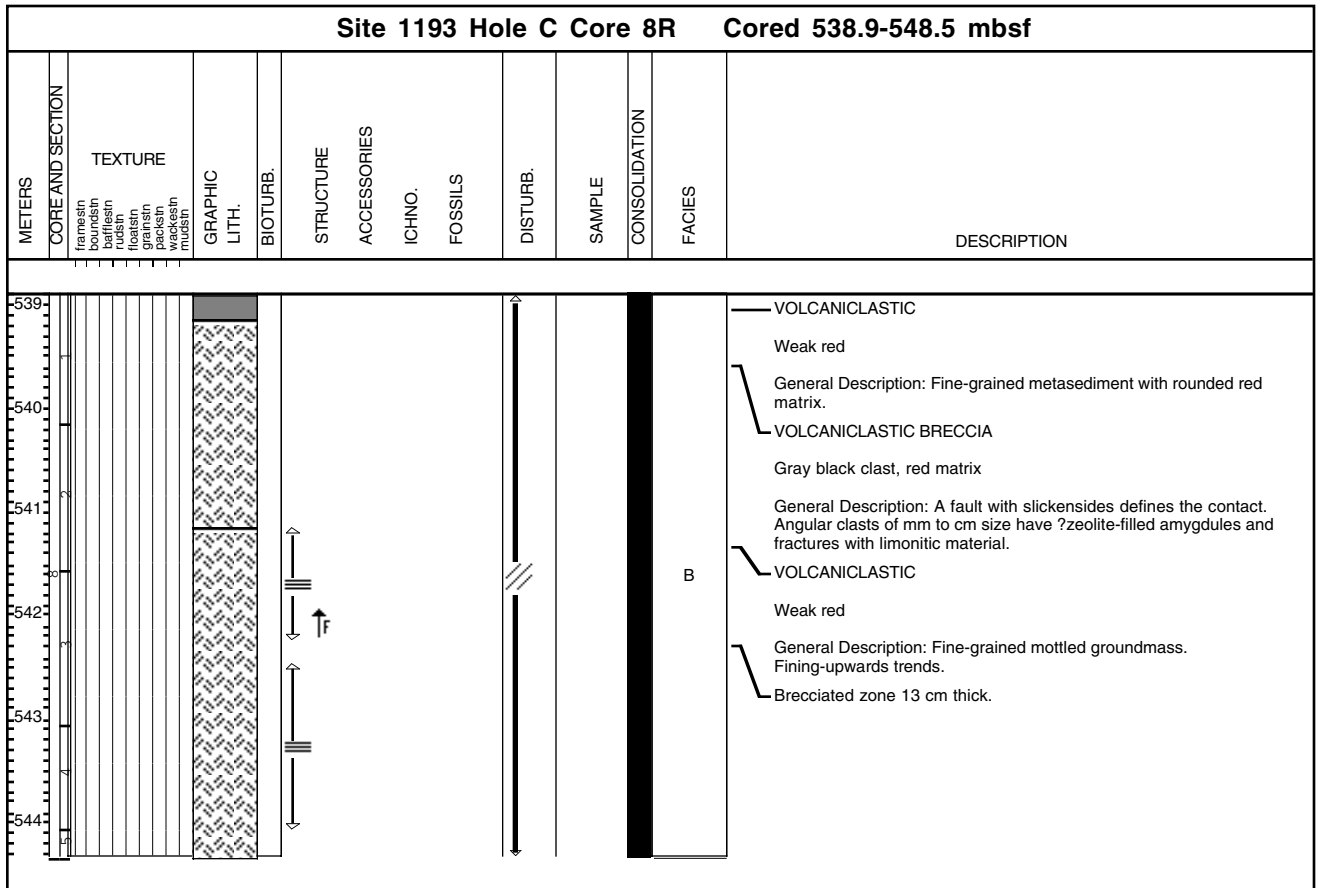
Core Photo

Site 1193 Hole C Core 6R Cored 519.6-529.3 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
520													<p>— SKELETAL FLOATSTONE with quartz</p> <p>Dark greenish black</p> <p>General Description: Skeletal components are dominantly benthic foraminifers with common larger foraminifers and gravel-sized oysters and bryozoans. Coralline algae and bivalve fragments are present. Quartz is common as are pellets of glauconite.</p>
521													<p>— SKELETAL GRAINSTONE with quartz</p> <p>Very dark greenish black</p> <p>General Description: Benthic foraminifers are the dominant skeletal component, with minor mollusk (gastropod and bivalve) and bryozoan fragments. Bi-directional ripples, occasionally interrupted by planar lamination, are a common feature. Quartz sand and glauconite are common, often differentially segregated in 'bands' within the ripple laminated unit.</p>
522													<p>— CLAYSTONE with bioclasts</p> <p>Dark greenish gray</p> <p>General Description: Very fine sub-mm lamination is the key feature of this interval, although it is locally disturbed by moderate bioturbation that imports grainy detritus from the overlying grainstone. Some lamination surfaces contain fine bioclastic detritus of benthic foraminifers, oyster fragments and coralline algae.</p>

Core Photo

Site 1193 Hole C Core 7R Cored 529.3-538.9 mbsf													
METERS	CORE AND SECTION	TEXTURE	GRAPHIC LITH.	BIOTURB.	STRUCTURE	ACCESSORIES	ICHNO.	FOSSILS	DISTURB.	SAMPLE	CONSOLIDATION	FACIES	DESCRIPTION
530	7									THS		N	<p>QUARTZ SILTSTONE with bioclasts</p> <p>Greenish gray General Description: Large oyster shells are the only identifiable skeletal components. Some intervals with higher bioclastic content (probably broken shell fragments). The sediments consists of silt to coarse sand-sized grains, and are poorly sorted. The moderate porosity is intergranular.</p>
531	2									THS		B	<p>QUARTZ SILTSTONE with bioclasts</p> <p>Greenish gray General Description: The only identifiable skeletal component are oyster shells. The sediment consists of silt to coarse sand-sized grains, and sorting is poor. Porosity is interparticle. Between 530.86-530.89m a black, dense pebble with a glassy matrix was observed, which might be basalt.</p> <p>QUARTZ SANDSTONE with bioclasts</p> <p>Light olive gray General Description: Siliciclastic lithoclasts are common, carbonate grains are present. The unlithified sediment is coarse sand-sized, and well sorted. Porosity is intergranular. The section probably is a weathered horizon (paleosol).</p> <p>QUARTZ SANDSTONE</p> <p>Greenish gray General Description: In the sandstone matrix non-calcareous lithoclasts of up to pebble size as well as shell fragments are interbedded. From 531.05 to 531.13 and 531.24 to 531.32 mbsf two "fining upwards" cycles from very fine sand to pebble sized grains are observed.</p> <p>VOLCANIC BASEMENT</p> <p>Reddish brown General Description: Highly altered volcanic flow of amygdaloid olivine basalt. Vugs are infilled with nutrolite, characterized by fine radiatic fiber.</p>

Core Photo



Site 1193 Smear Slides																					
Core	Type	Section	Top (cm)	Depth (mbsf)	Lithology	Texture			Mineral						Biogenic						Comments
						Sand	Silt	Clay	Calcite	Dolomite	Glauconite	Muscovite	Pyrite	Quartz	Benthic Forams	Calcspheres	Coccolith	Discoaster	Echinoid	Planktonic Forams	
1193A																					
3	H	5	68	22.78	D	R	A	A	0	0	R	0	*	0	P	0	D	A	R	P	
4	H	2	52	27.62	D	P	C	D	C	0	0	*	R	*	P	R	D	A	0	C	nice slide, make photo
31	X	CC	1	169.19	D	C	P	D	0	P	C	0	R	P	P	0	0	0	0	0	
32	X	1	50	172	D	P	C	D	0	R	R	0	R	P	P	0	*	*	0	0	
41	X	1	26	219.86	D	*	A	D	0	P	P	0	R	C	P	0	*	*	0	*	nice slide, make photo
43	X	1	60	229.8	D	*	D	A	0	*	C	0	P	P	P	0	0	0	0	0	
44	X	1	96	234.96	D	R	A	D	0	0	C	0	P	P	C	0	R	*	*	0	
44	X	2	70	236.2	D	*	D	A	0	0	P	0	P	R	P	0	*	0	0	0	
46	X	1	62	244.22	D	R	D	A	0	D	C	0	P	R	P	0	*	*	0	0	
47	X	4	119	258.79	D	P	P	D	0	A	P	0	R	P	P	0	0	0	0	0	
57	X	1	70	330.8	D	R	A	D	0	P	P	0	P	P	P	0	R	0	0	0	
61	X	3	53	371.97	D	*	D	A	0	C	0	0	0	C	P	0	P	0	0	0	
62	X	1	68	378.98	M	*	D	A	0	C	0	0	R	*	0	0	P	R	0	R	

