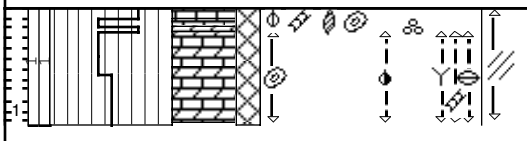
Core Photo

Site 1196 Hole A Core 1R Cored 0.0-9.6 mbsf



DESCRIPTION

SKELETAL PACKSTONE

Pinkish white to pale red

General Description: Skeletal components are dominantly large and small benthic foraminifers. Coralline algae branch fragments up to 1 cm are present, and bivalves are rare. The top surface shows infilling of 0-8 mm irregular relief by light brown packstone with abundant planktonic and benthic foraminifers and minor echinoderm fragments. Black staining on this surface and overlying bioclasts may indicate phosphatization.

SKELETAL RUDSTONE

White to light reddish brown

General Description: Skeletal components are dominantly rhodoliths. Gastropods up to 2 cm in size are present in a coarse-grained packstone matrix consisting benthic foraminifers and rare coralline algae. There is a gradational darkening of reddish brown coloring toward the top of this interval.

DOLOMITIC SKELETAL PACKSTONE

Pink

General Description: Skeletal components are dominantly planktonic, benthic foraminifers are present. Color of mud matrix varies from lighter to darker within layers 1-8 mm thick.

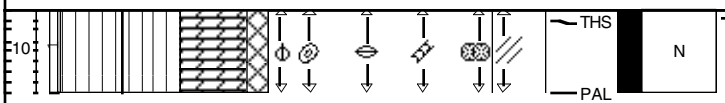
DOLOMITIC SKELETAL RUDSTONE/FLOATSTONE

White

General Description: Skeletal components are dominantly rhodoliths (1-5 cm) in a coarse-grained grainstone matrix of benthic foraminifers with present coralline algae, bryozoans, and bivalves.

Core Photo

Site 1196 Hole A Core 2R Cored 9.6-18.9 mbsf



DESCRIPTION

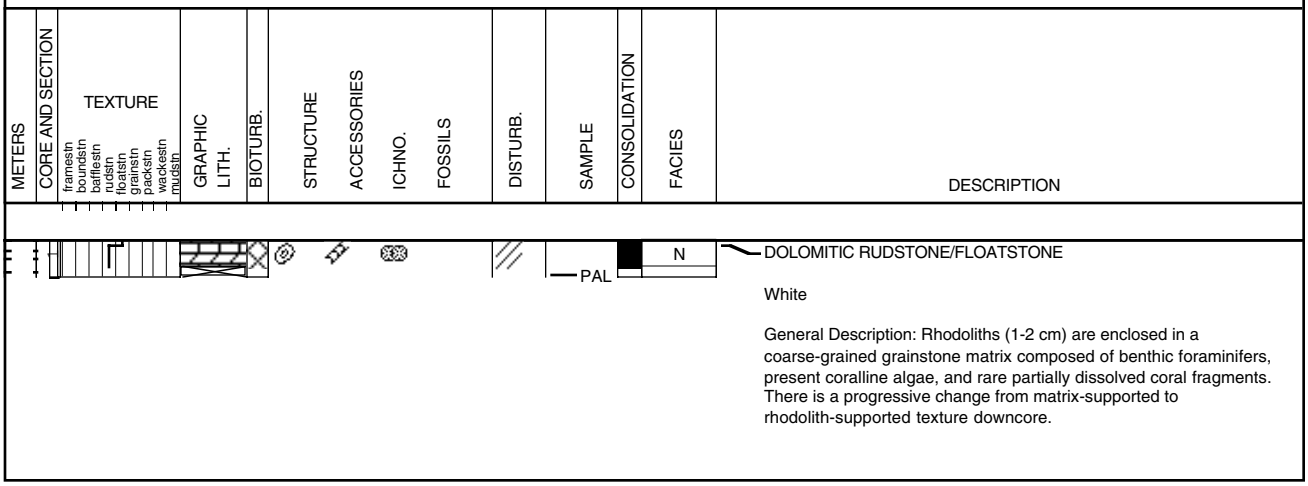
DOLOSTONE

White

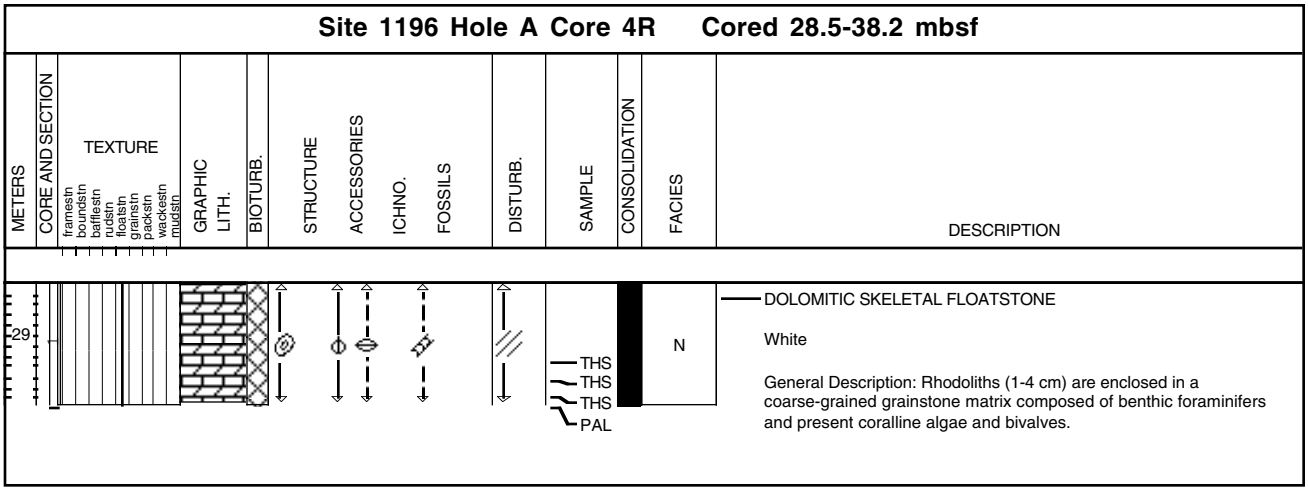
General Description: Bioclasts are dominantly rhodoliths (1-5 cm) and coral fragments, floating in a coarse-grained grainstone matrix of benthic foraminifers, coralline algae, and surbordinate mollusks and bryozoans. Corals and coralline algae show common sponge borings. Prior to dolomitization, this rock was probably a skeletal floatstone.

Core Photo

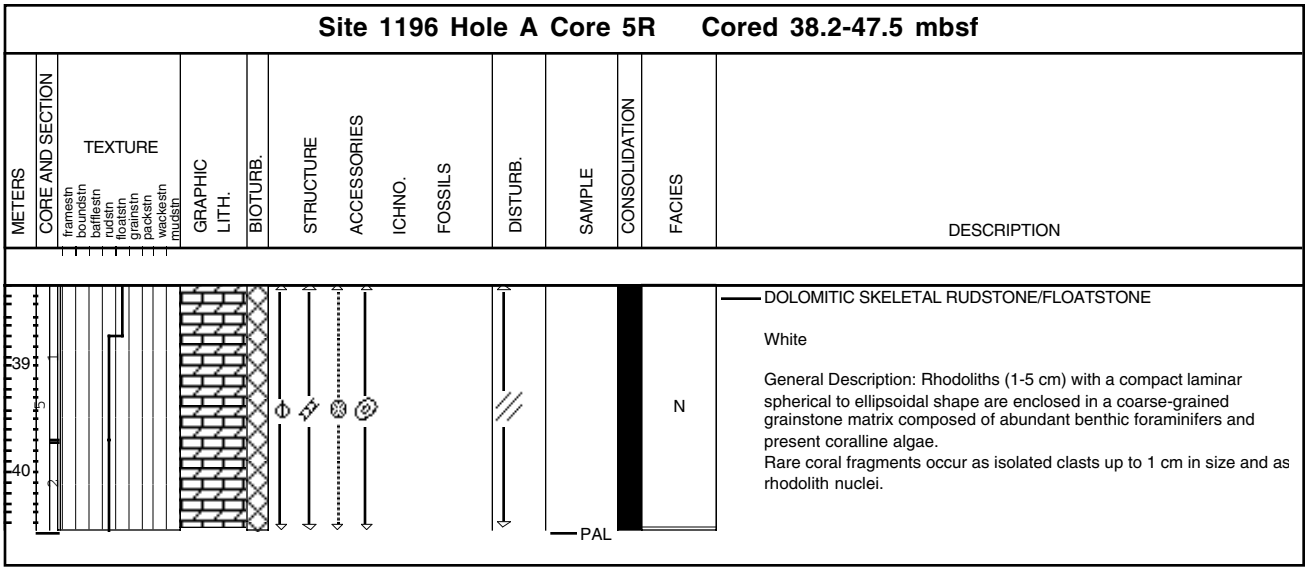
Site 1196 Hole A Core 3R Cored 18.9-28.5 mbsf



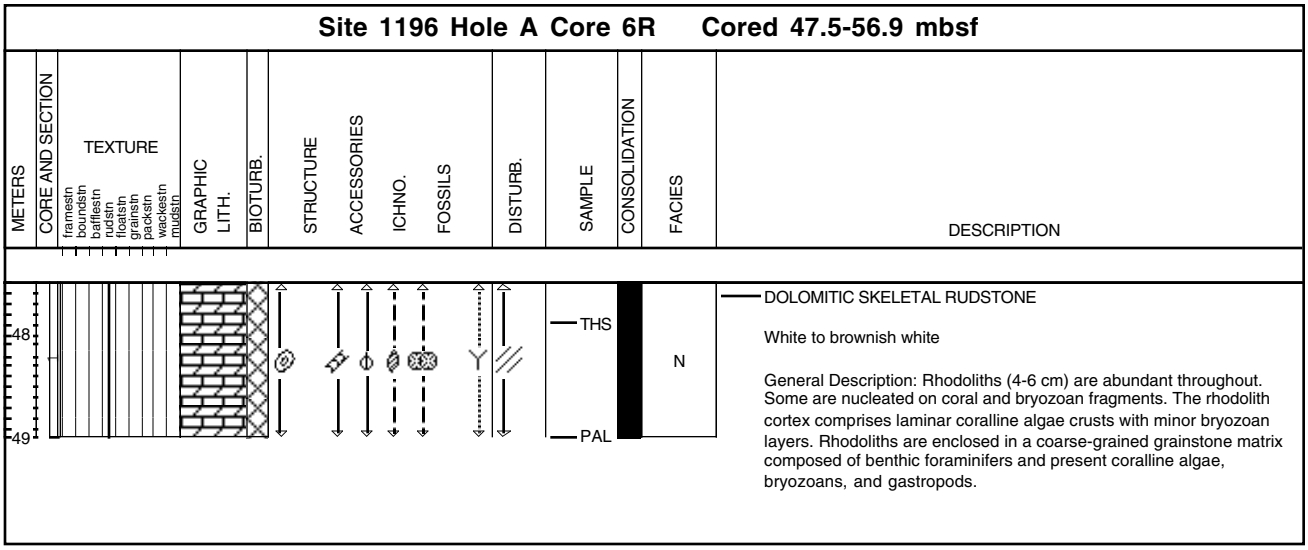
Core Photo


Site 1196 Hole A Core 4R Cored 28.5-38.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
29
THS
THS
THS
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
White
General Description: Rhodoliths (1-4 cm) are enclosed in a coarse-grained grainstone matrix composed of benthic foraminifers and present coralline algae and bivalves.

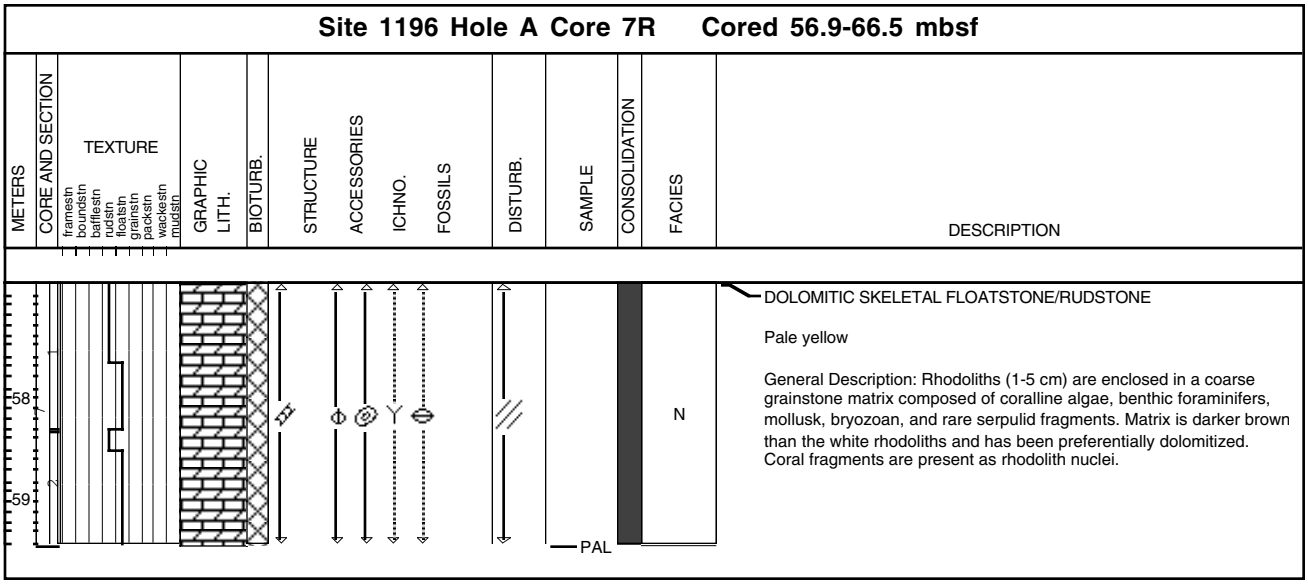
Core Photo


Site 1196 Hole A Core 5R Cored 38.2-47.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
39
40
1
5
2
N
PAL
DOLOMITIC SKELETAL RUDSTONE/FLOATSTONE
White
General Description: Rhodoliths (1-5 cm) with a compact laminar spherical to ellipsoidal shape are enclosed in a coarse-grained grainstone matrix composed of abundant benthic foraminifers and present coralline algae.
Rare coral fragments occur as isolated clasts up to 1 cm in size and as rhodolith nuclei.

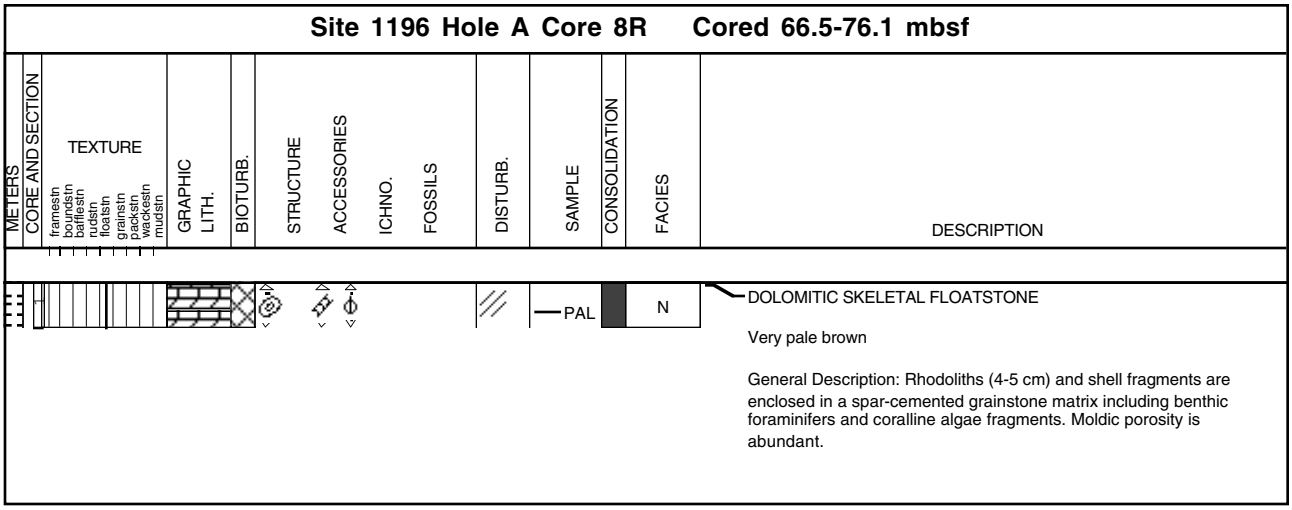
Core Photo


Site 1196 Hole A Core 6R Cored 47.5-56.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
48
49
THS
PAL
N
DOLOMITIC SKELETAL RUDSTONE
White to brownish white
General Description: Rhodoliths (4-6 cm) are abundant throughout. Some are nucleated on coral and bryozoan fragments. The rhodolith cortex comprises laminar coralline algae crusts with minor bryozoan layers. Rhodoliths are enclosed in a coarse-grained grainstone matrix composed of benthic foraminifers and present coralline algae, bryozoans, and gastropods.

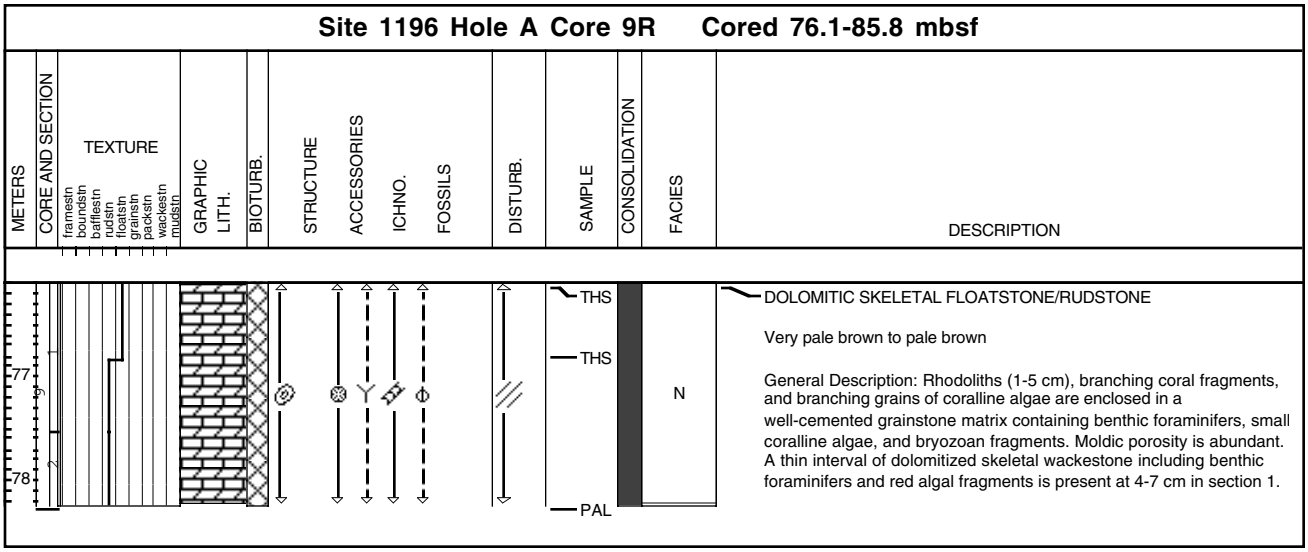
Core Photo


Site 1196 Hole A Core 7R Cored 56.9-66.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
58
59
PAL
N
DOLOMITIC SKELETAL FLOATSTONE/RUDSTONE
Pale yellow
General Description: Rhodoliths (1-5 cm) are enclosed in a coarse grainstone matrix composed of coralline algae, benthic foraminifers, mollusk, bryozoan, and rare serpulid fragments. Matrix is darker brown than the white rhodoliths and has been preferentially dolomitized. Coral fragments are present as rhodolith nuclei.

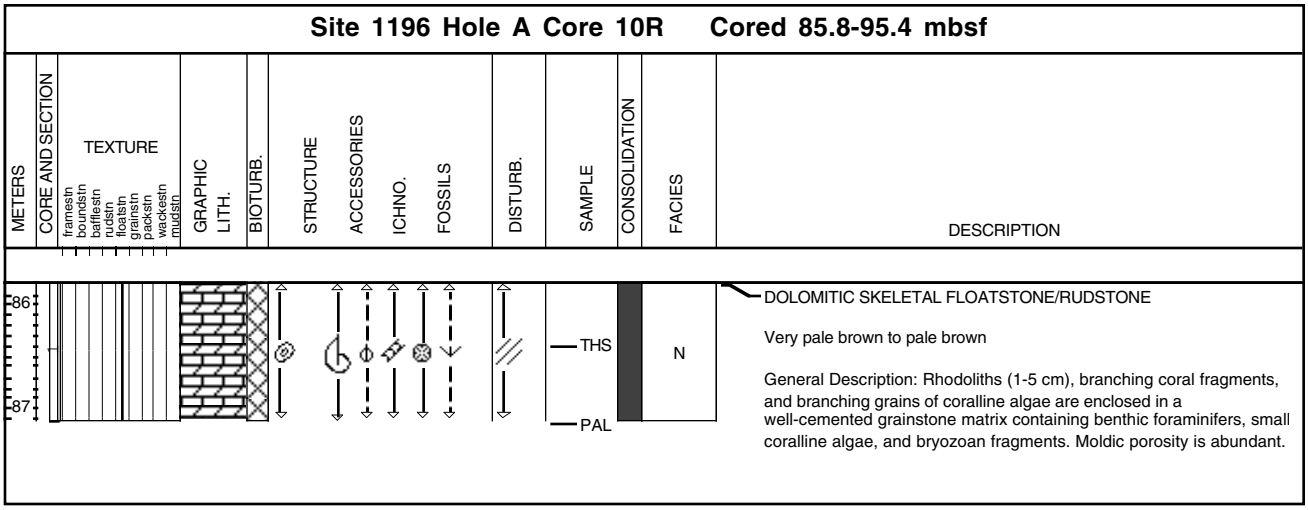
Core Photo


Site 1196 Hole A Core 8R Cored 66.5-76.1 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Rhodoliths (4-5 cm) and shell fragments are enclosed in a spar-cemented grainstone matrix including benthic foraminifers and coralline algae fragments. Moldic porosity is abundant.

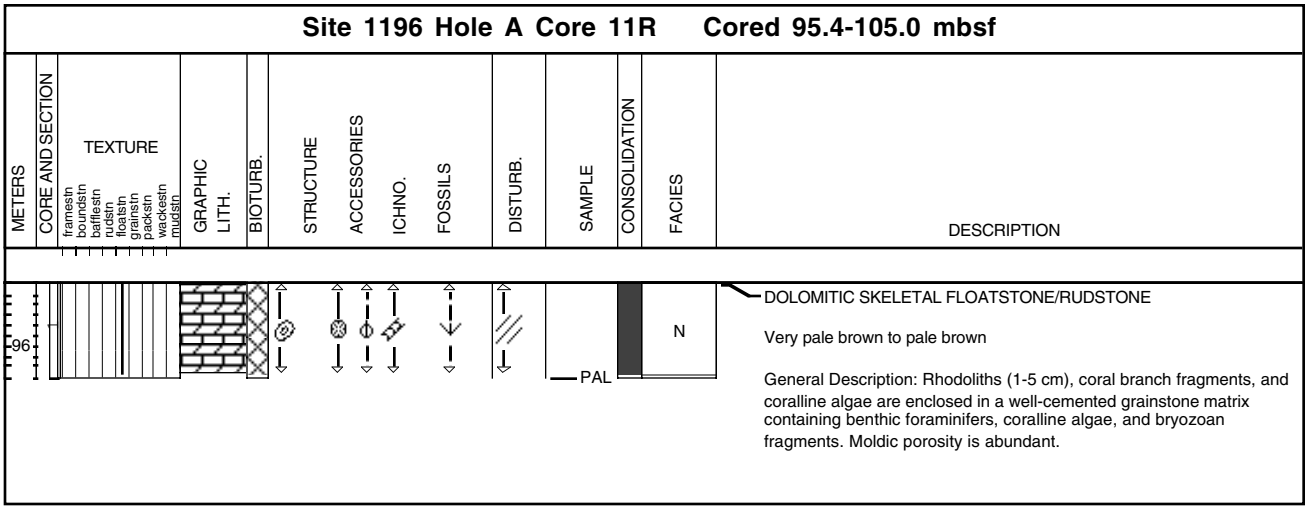
Core Photo


Site 1196 Hole A Core 9R Cored 76.1-85.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
77
78
THS
THS
PAL
N
DOLOMITIC SKELETAL FLOATSTONE/RUDSTONE
Very pale brown to pale brown
General Description: Rhodoliths (1-5 cm), branching coral fragments, and branching grains of coralline algae are enclosed in a well-cemented grainstone matrix containing benthic foraminifers, small coralline algae, and bryozoan fragments. Moldic porosity is abundant. A thin interval of dolomitized skeletal wackestone including benthic foraminifers and red algal fragments is present at 4-7 cm in section 1.

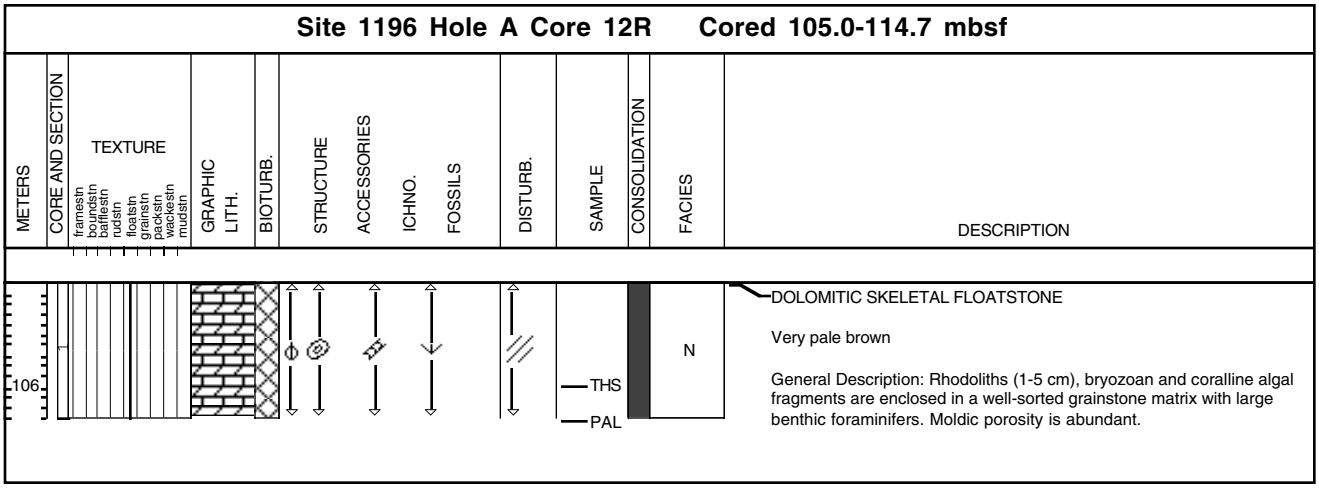
Core Photo


Site 1196 Hole A Core 10R Cored 85.8-95.4 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
86
87
THS
PAL
N
DOLOMITIC SKELETAL FLOATSTONE/RUDSTONE
Very pale brown to pale brown
General Description: Rhodoliths (1-5 cm), branching coral fragments, and branching grains of coralline algae are enclosed in a well-cemented grainstone matrix containing benthic foraminifers, small coralline algae, and bryozoan fragments. Moldic porosity is abundant.

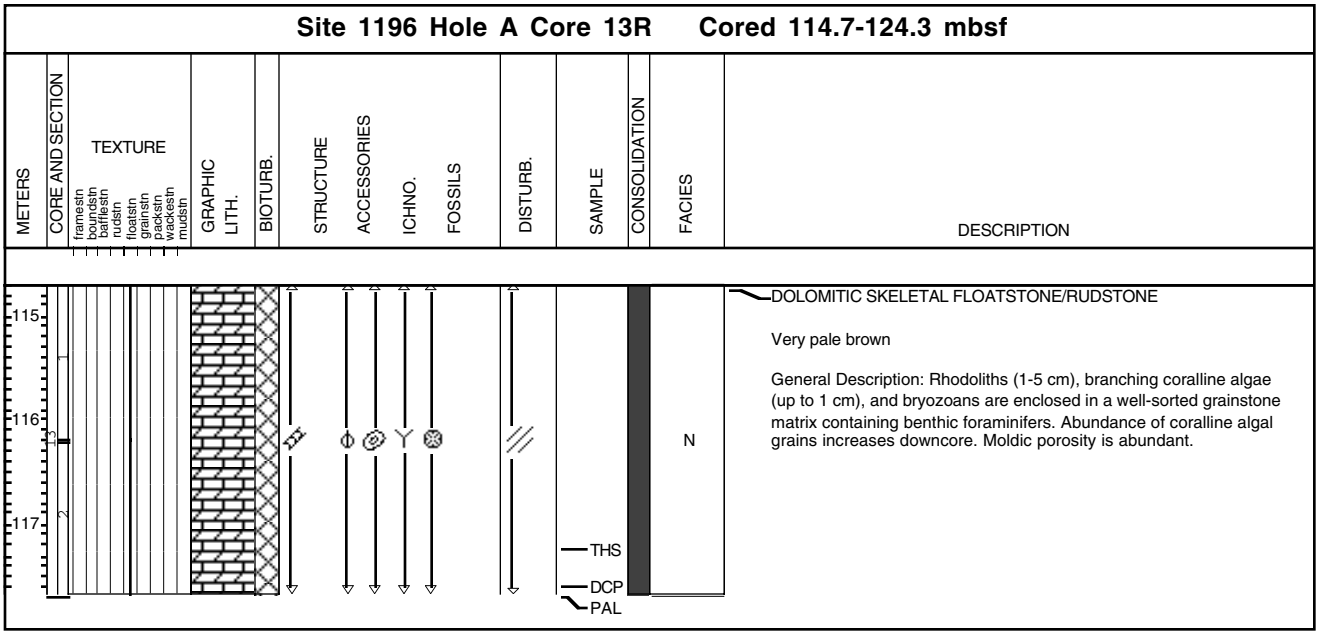
Core Photo


Site 1196 Hole A Core 11R Cored 95.4-105.0 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
96
PAL
N
DOLOMITIC SKELETAL FLOATSTONE/RUDSTONE
Very pale brown to pale brown
General Description: Rhodoliths (1-5 cm), coral branch fragments, and coralline algae are enclosed in a well-cemented grainstone matrix containing benthic foraminifers, coralline algae, and bryozoan fragments. Moldic porosity is abundant.

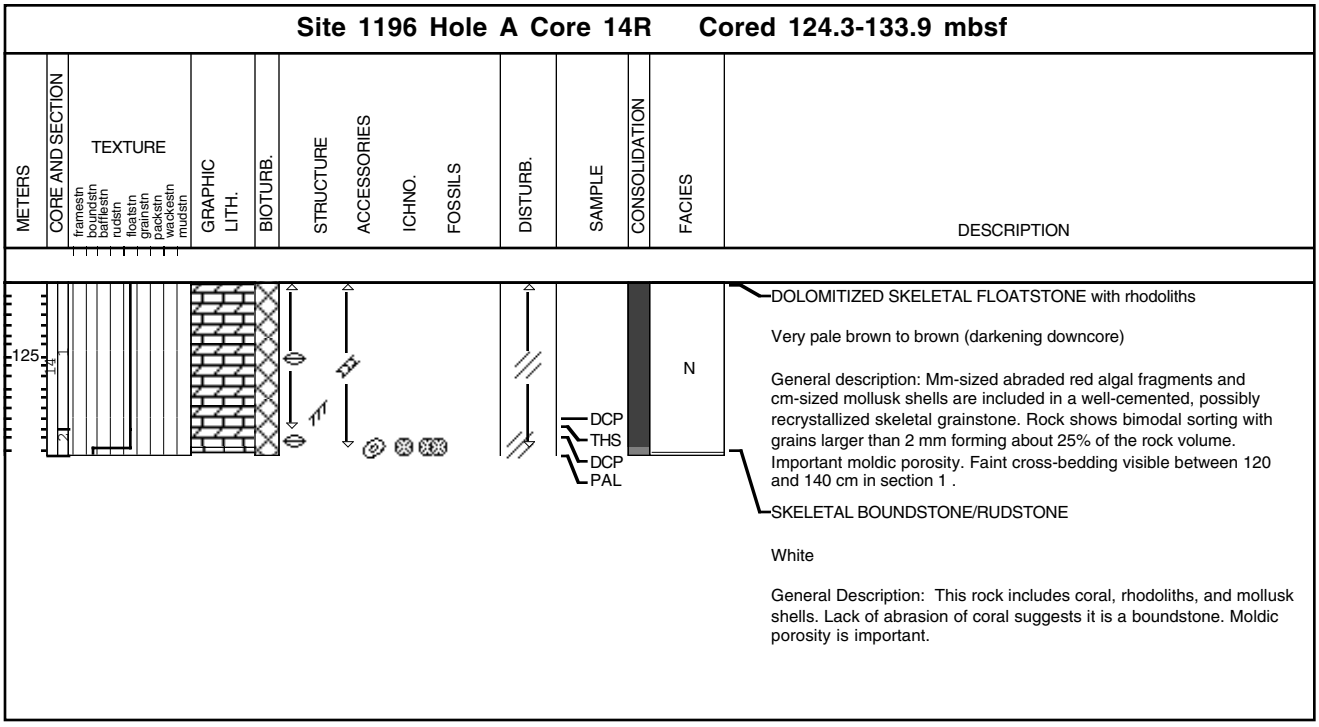
Core Photo


Site 1196 Hole A Core 12R Cored 105.0-114.7 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
106
THS
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Rhodoliths (1-5 cm), bryozoan and coralline algal fragments are enclosed in a well-sorted grainstone matrix with large benthic foraminifers. Moldic porosity is abundant.

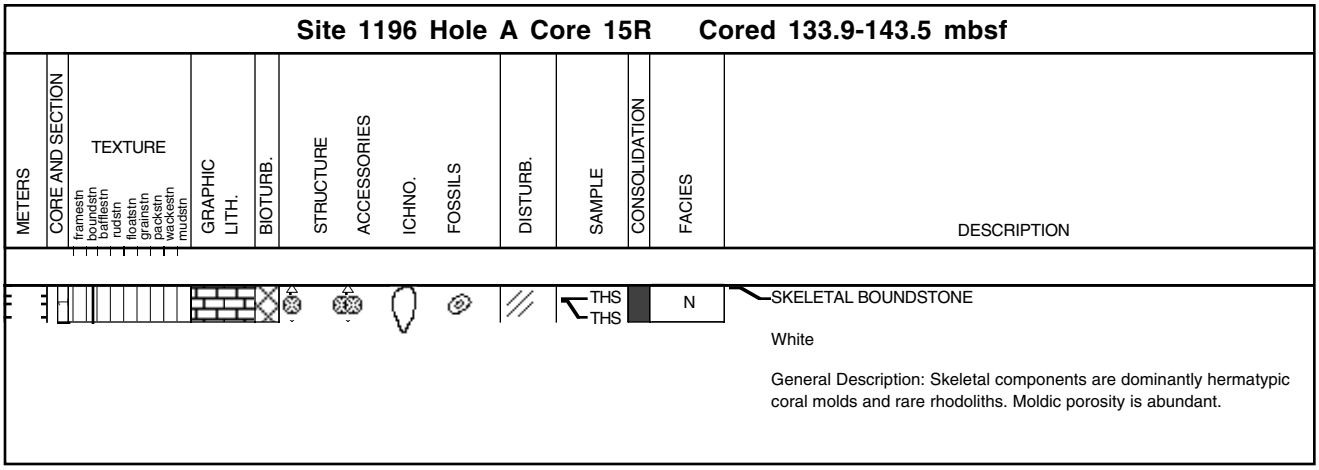
Core Photo


Site 1196 Hole A Core 13R Cored 114.7-124.3 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
115
116
117
1
2
3
THS
DCP
PAL
N
DOLOMITIC SKELETAL FLOATSTONE/RUDSTONE
Very pale brown
General Description: Rhodoliths (1-5 cm), branching coralline algae (up to 1 cm), and bryozoans are enclosed in a well-sorted grainstone matrix containing benthic foraminifers. Abundance of coralline algal grains increases downcore. Moldic porosity is abundant.

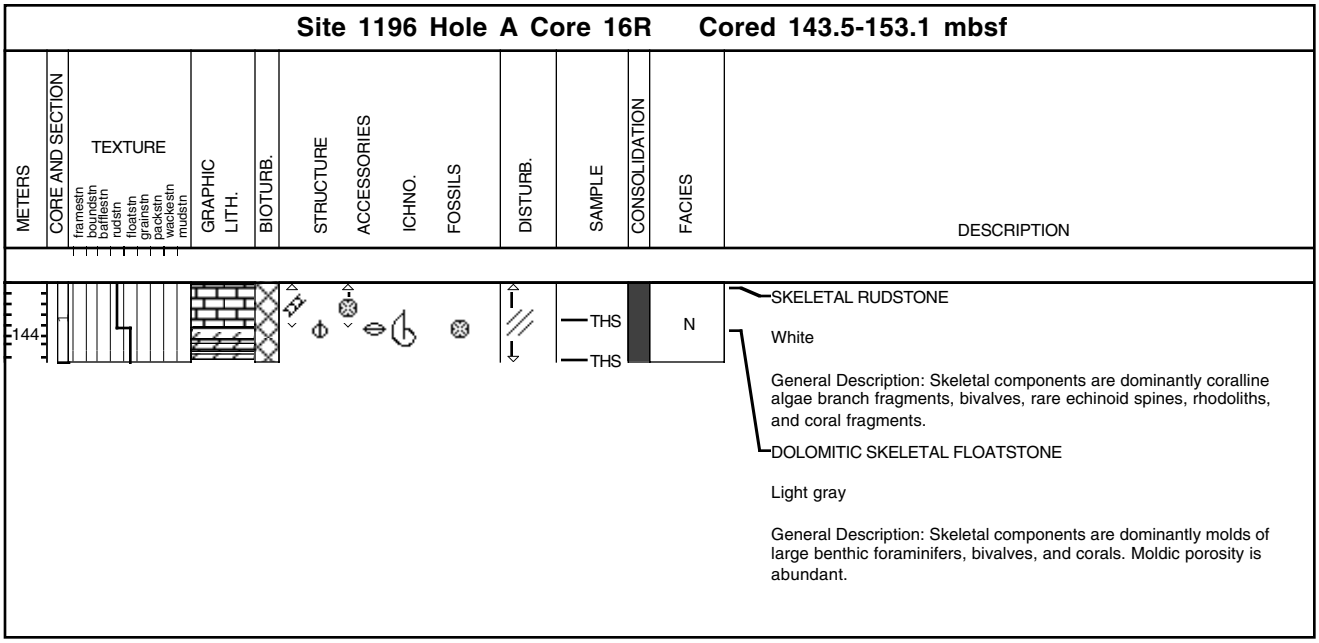
Core Photo


Site 1196 Hole A Core 14R Cored 124.3-133.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
125
1
2
DCP
THS
DCP
PAL
N
DOLOMITIZED SKELETAL FLOATSTONE with rhodoliths
Very pale brown to brown (darkening downcore)
General description: Mm-sized abraded red algal fragments and cm-sized mollusk shells are included in a well-cemented, possibly recrystallized skeletal grainstone. Rock shows bimodal sorting with grains larger than 2 mm forming about 25% of the rock volume. Important moldic porosity. Faint cross-bedding visible between 120 and 140 cm in section 1 .
SKELETAL BOUNDSTONE/RUDSTONE
White
General Description: This rock includes coral, rhodoliths, and mollusk shells. Lack of abrasion of coral suggests it is a boundstone. Moldic porosity is important.

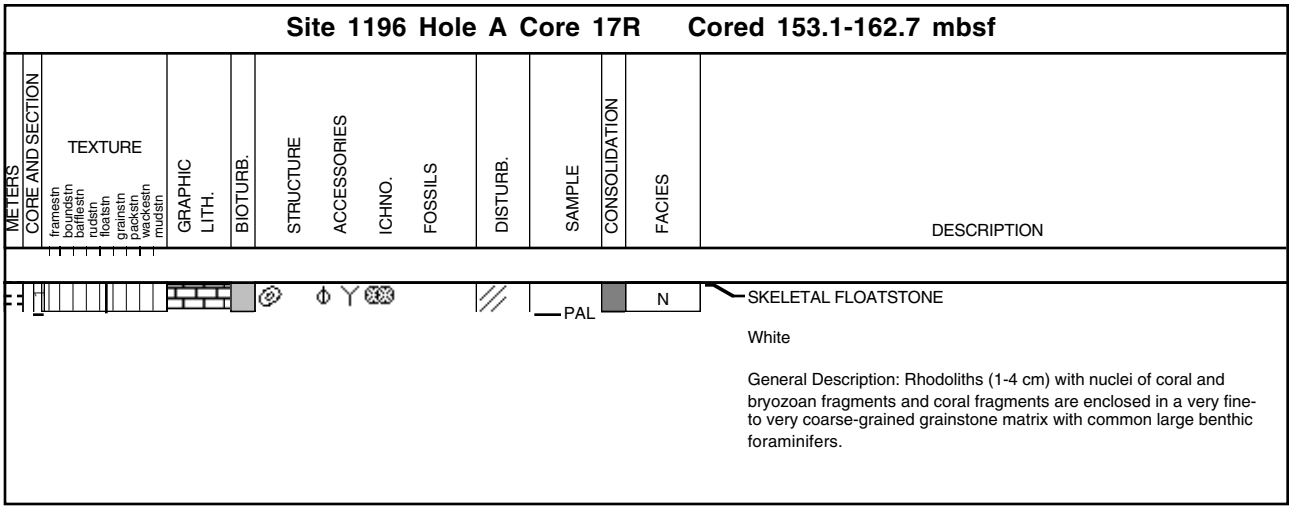
Core Photo


Site 1196 Hole A Core 15R Cored 133.9-143.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framesn
boundstn
batflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
THS
THS
N
SKELETAL BOUNDSTONE
White
General Description: Skeletal components are dominantly hermatypic coral molds and rare rhodoliths. Moldic porosity is abundant.

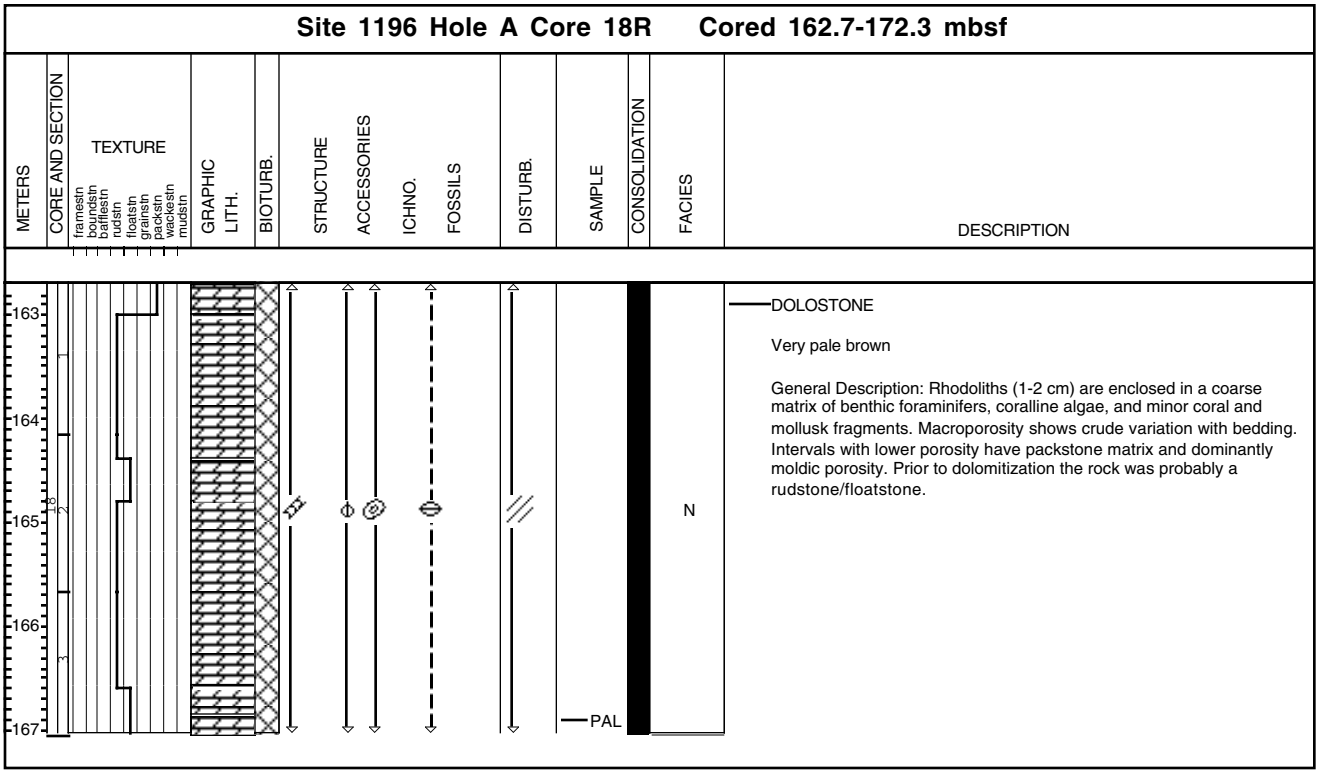
Core Photo


Site 1196 Hole A Core 16R Cored 143.5-153.1 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
batflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
144
THS
THS
N
SKELETAL RUDSTONE
White
General Description: Skeletal components are dominantly coralline algae branch fragments, bivalves, rare echinoid spines, rhodoliths, and coral fragments.
DOLOMITIC SKELETAL FLOATSTONE
Light gray
General Description: Skeletal components are dominantly molds of large benthic foraminifers, bivalves, and corals. Moldic porosity is abundant.

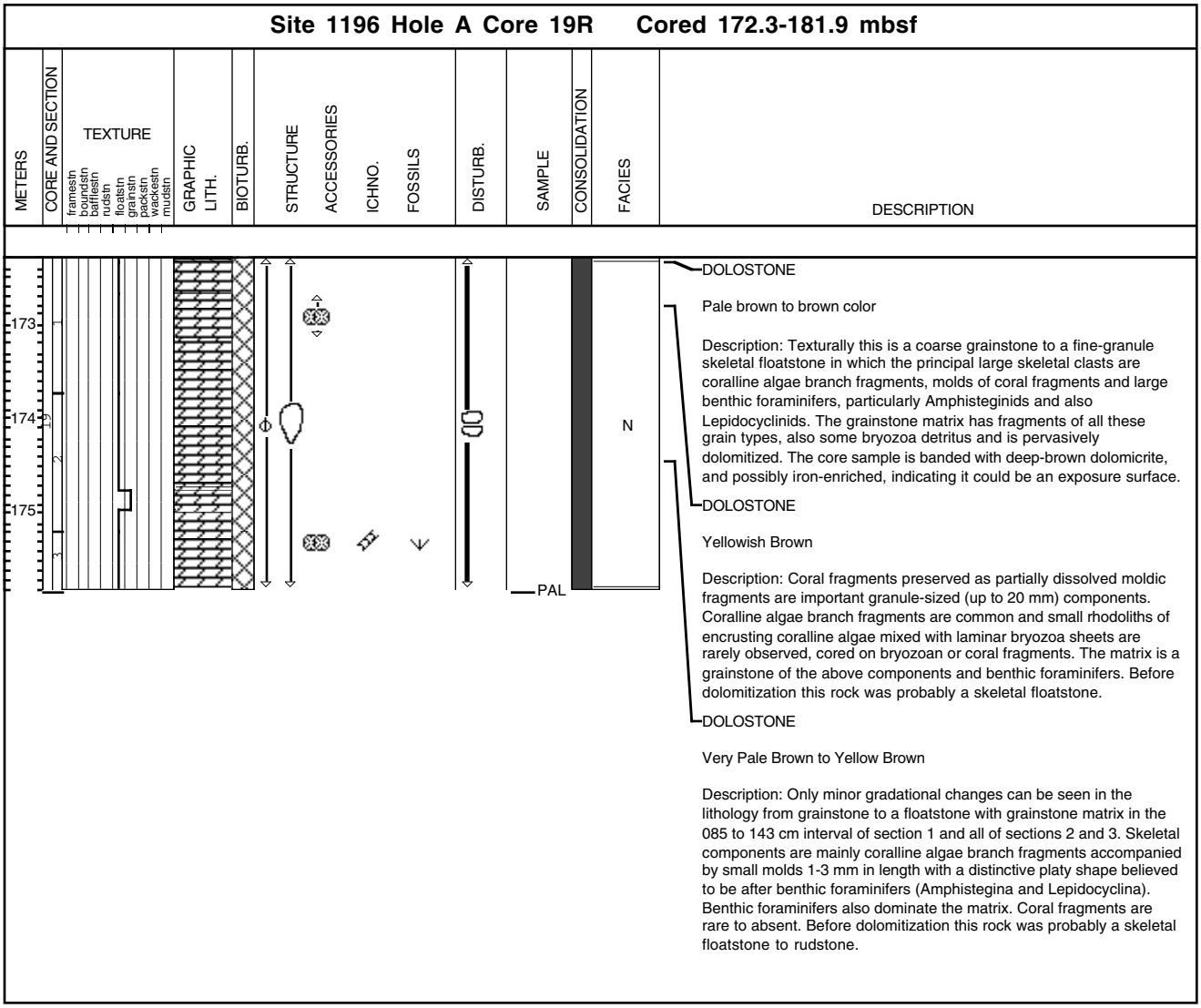
Core Photo


Site 1196 Hole A Core 17R Cored 153.1-162.7 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
SKELETAL FLOATSTONE
White
General Description: Rhodoliths (1-4 cm) with nuclei of coral and bryozoan fragments and coral fragments are enclosed in a very fine- to very coarse-grained grainstone matrix with common large benthic foraminifers.

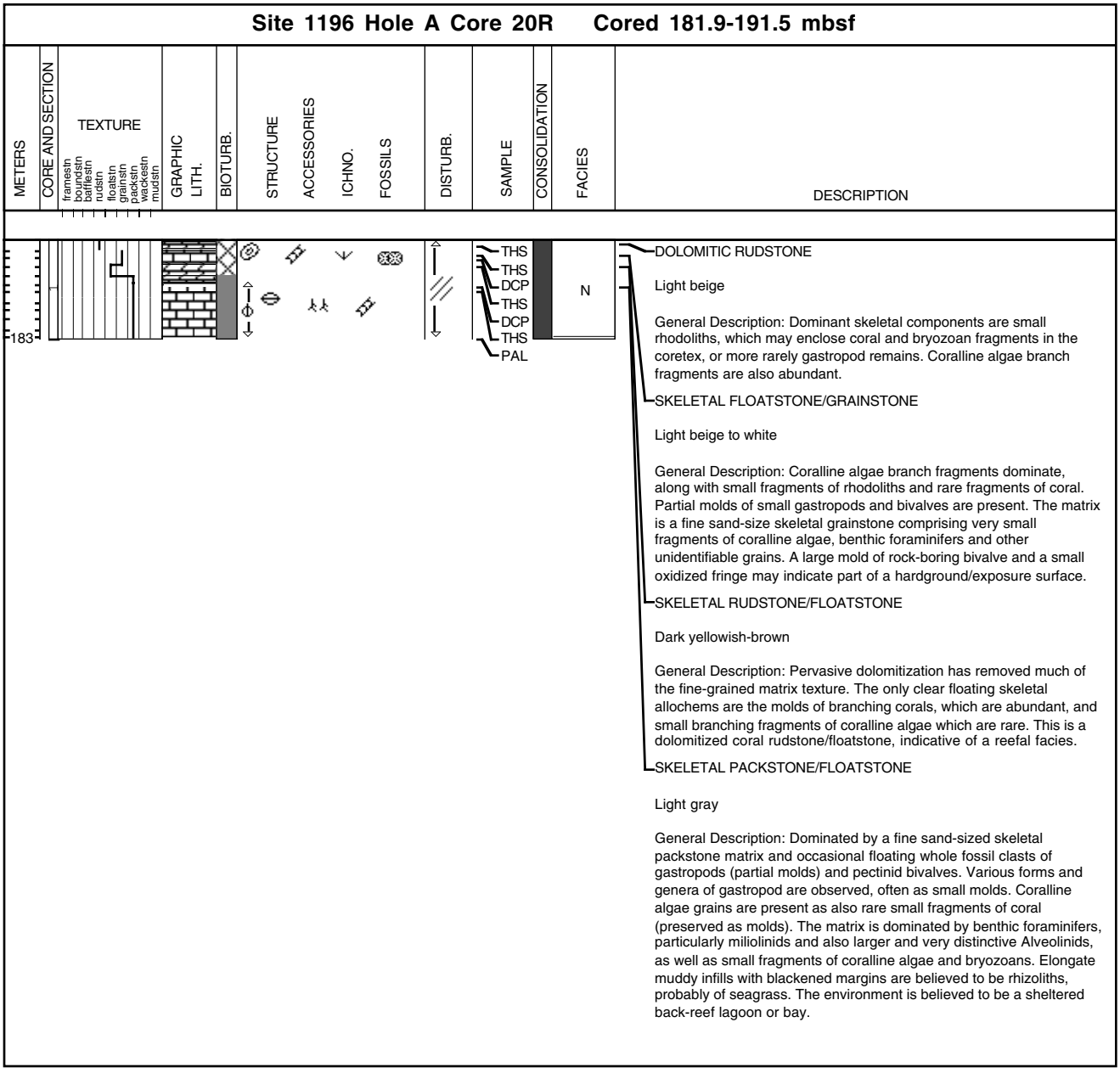
Core Photo


Site 1196 Hole A Core 18R Cored 162.7-172.3 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
batflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
163
164
165
166
167
1
2
3
18
PAL
N
DOLOSTONE
Very pale brown
General Description: Rhodoliths (1-2 cm) are enclosed in a coarse matrix of benthic foraminifers, coralline algae, and minor coral and mollusk fragments. Macroporosity shows crude variation with bedding. Intervals with lower porosity have packstone matrix and dominantly moldic porosity. Prior to dolomitization the rock was probably a rudstone/floatstone.

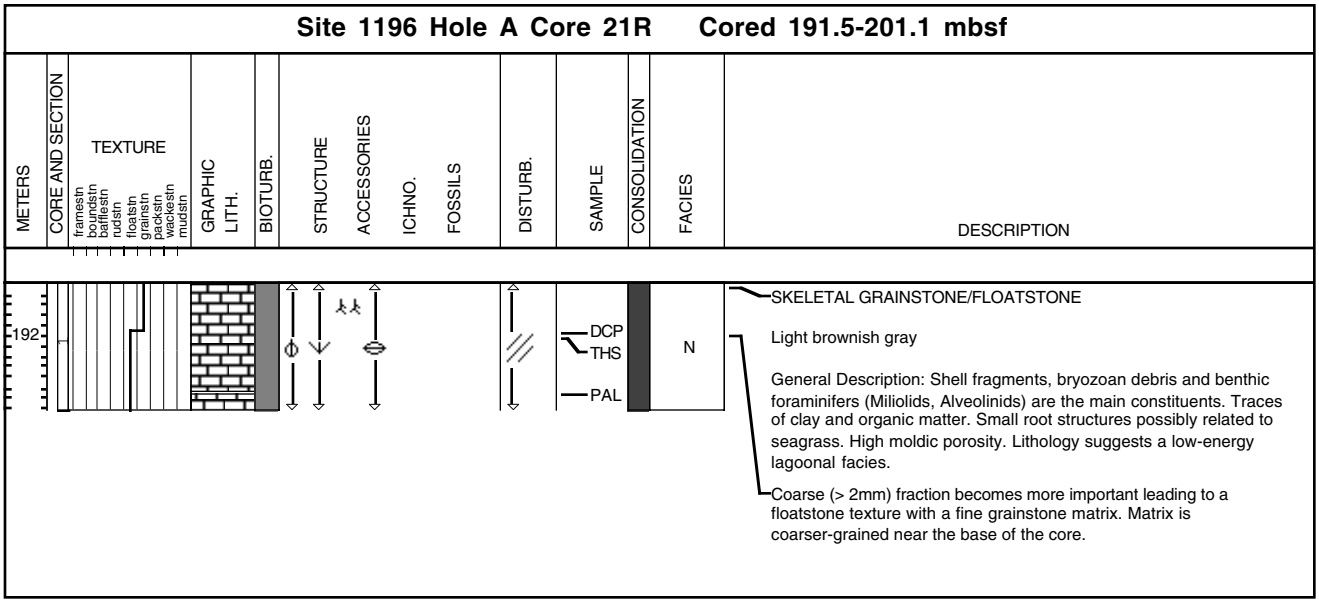
Core Photo


Site 1196 Hole A Core 19R Cored 172.3-181.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
173
174
175
19
1
2
3
PAL
N
DOLOSTONE
Pale brown to brown color
Description: Texturally this is a coarse grainstone to a fine-granule skeletal floatstone in which the principal large skeletal clasts are coralline algae branch fragments, molds of coral fragments and large benthic foraminifers, particularly Amphisteginids and also Lepidocyclinids. The grainstone matrix has fragments of all these grain types, also some bryozoa detritus and is pervasively dolomitized. The core sample is banded with deep-brown dolomicrite, and possibly iron-enriched, indicating it could be an exposure surface.
DOLOSTONE
Yellowish Brown
Description: Coral fragments preserved as partially dissolved moldic fragments are important granule-sized (up to 20 mm) components. Coralline algae branch fragments are common and small rhodoliths of encrusting coralline algae mixed with laminar bryozoa sheets are rarely observed, cored on bryozoan or coral fragments. The matrix is a grainstone of the above components and benthic foraminifers. Before dolomitization this rock was probably a skeletal floatstone.
DOLOSTONE
Very Pale Brown to Yellow Brown
Description: Only minor gradational changes can be seen in the lithology from grainstone to a floatstone with grainstone matrix in the 085 to 143 cm interval of section 1 and all of sections 2 and 3. Skeletal components are mainly coralline algae branch fragments accompanied by small molds 1-3 mm in length with a distinctive platy shape believed to be after benthic foraminifers (Amphistegina and Lepidocyclina). Benthic foraminifers also dominate the matrix. Coral fragments are rare to absent. Before dolomitization this rock was probably a skeletal floatstone to rudstone.

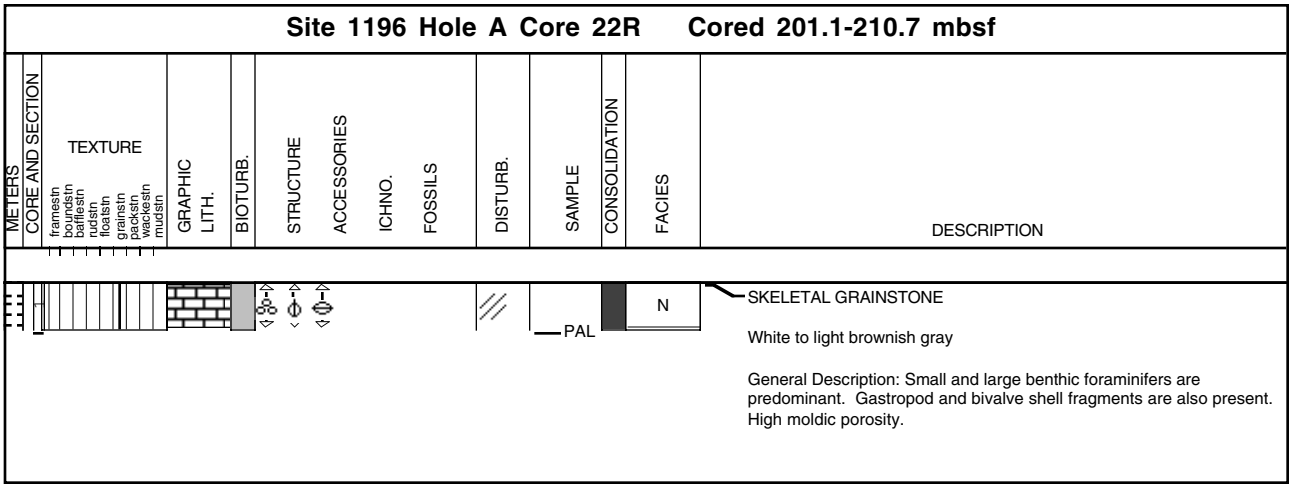
Core Photo


Site 1196 Hole A Core 20R Cored 181.9-191.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
183
THS
THS
DCP
THS
DCP
THS
PAL
N
DOLOMITIC RUDSTONE
Light beige
General Description: Dominant skeletal components are small rhodoliths, which may enclose coral and bryozoan fragments in the coretex, or more rarely gastropod remains. Coralline algae branch fragments are also abundant.
SKELETAL FLOATSTONE/GRAINSTONE
Light beige to white
General Description: Coralline algae branch fragments dominate, along with small fragments of rhodoliths and rare fragments of coral. Partial molds of small gastropods and bivalves are present. The matrix is a fine sand-size skeletal grainstone comprising very small fragments of coralline algae, benthic foraminifers and other unidentifiable grains. A large mold of rock-boring bivalve and a small oxidized fringe may indicate part of a hardground/exposure surface.
SKELETAL RUDSTONE/FLOATSTONE
Dark yellowish-brown
General Description: Pervasive dolomitization has removed much of the fine-grained matrix texture. The only clear floating skeletal allochems are the molds of branching corals, which are abundant, and small branching fragments of coralline algae which are rare. This is a dolomitized coral rudstone/floatstone, indicative of a reefal facies.
SKELETAL PACKSTONE/FLOATSTONE
Light gray
General Description: Dominated by a fine sand-sized skeletal packstone matrix and occasional floating whole fossil clasts of gastropods (partial molds) and pectinid bivalves. Various forms and genera of gastropod are observed, often as small molds. Coralline algae grains are present as also rare small fragments of coral (preserved as molds). The matrix is dominated by benthic foraminifers, particularly miliolinids and also larger and very distinctive Alveolinids, as well as small fragments of coralline algae and bryozoans. Elongate muddy infills with blackened margins are believed to be rhizoliths, probably of seagrass. The environment is believed to be a sheltered back-reef lagoon or bay.

Core Photo

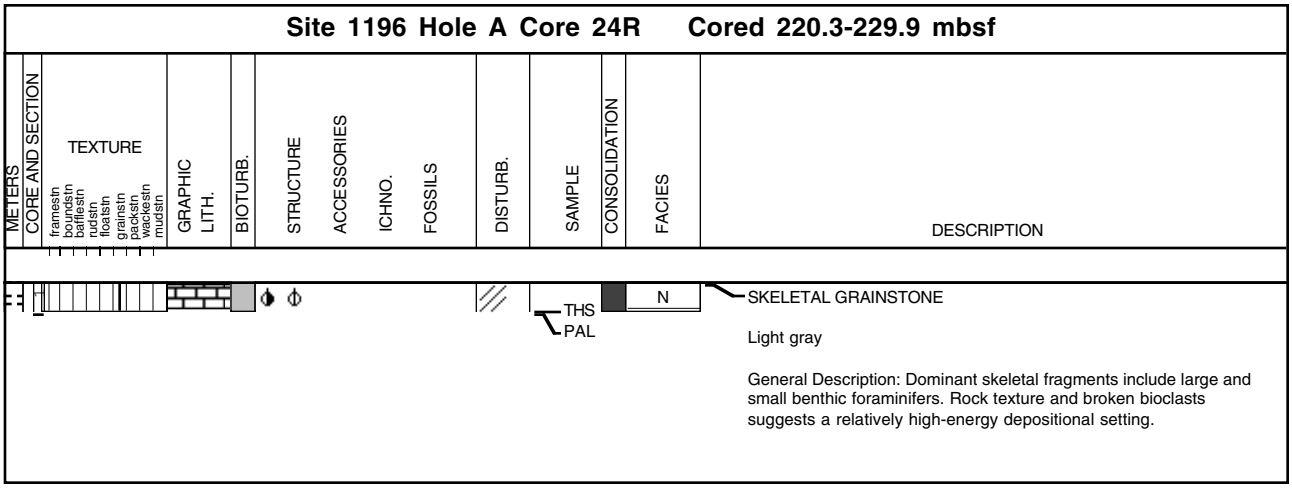

Site 1196 Hole A Core 21R Cored 191.5-201.1 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
192
DCP
THS
PAL
N
SKELETAL GRAINSTONE/FLOATSTONE
Light brownish gray
General Description: Shell fragments, bryozoan debris and benthic foraminifers (Miliolids, Alveolinids) are the main constituents. Traces of clay and organic matter. Small root structures possibly related to seagrass. High moldic porosity. Lithology suggests a low-energy lagoonal facies.
Coarse (> 2mm) fraction becomes more important leading to a floatstone texture with a fine grainstone matrix. Matrix is coarser-grained near the base of the core.

Core Photo

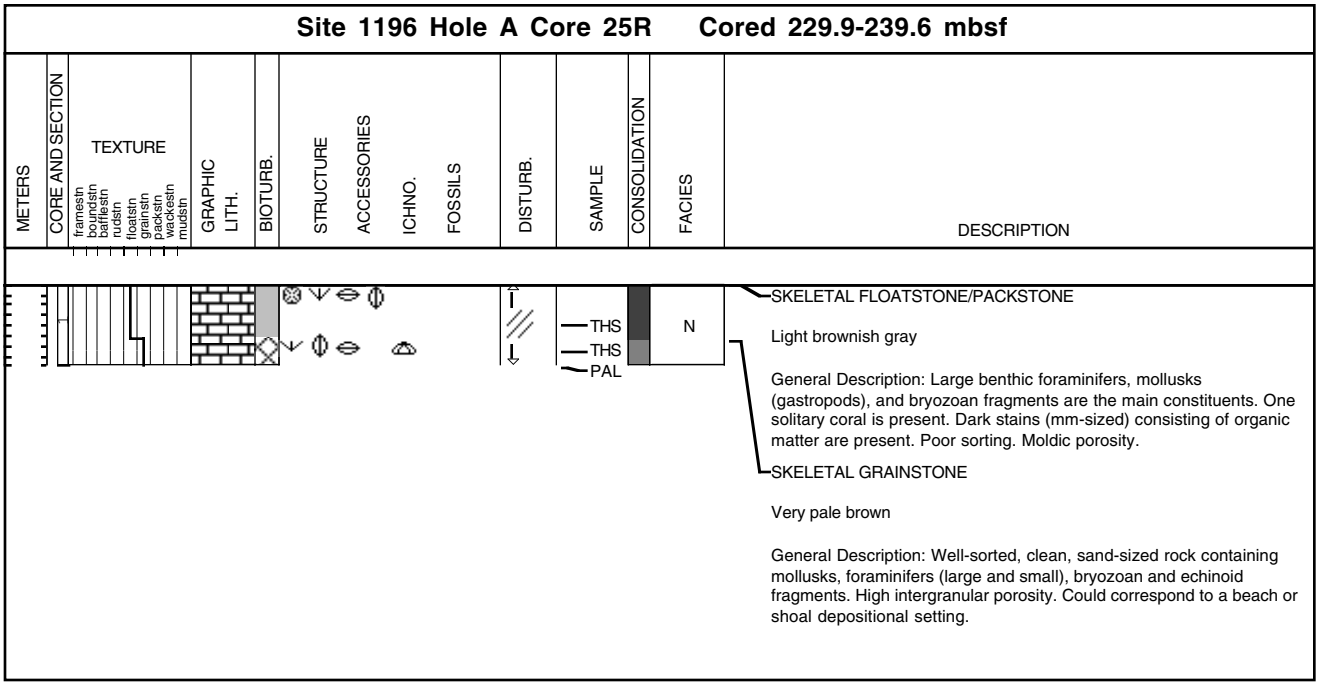


1196A-23R ENTIRE CORE TO PALEONTOLOGISTS

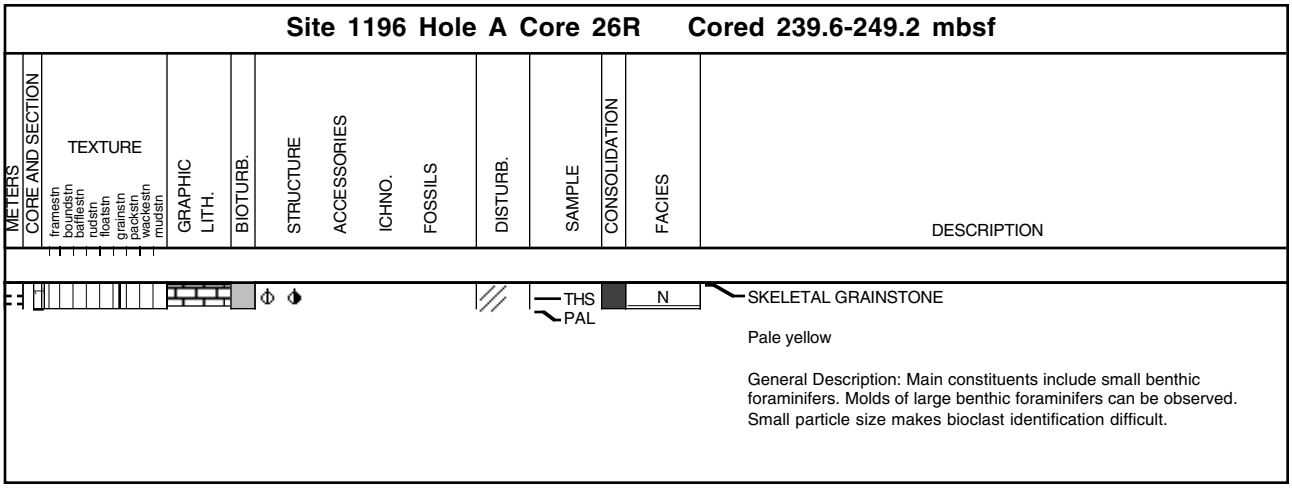
Core Photo


Site 1196 Hole A Core 24R Cored 220.3-229.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
THS
PAL
N
SKELETAL GRAINSTONE
Light gray
General Description: Dominant skeletal fragments include large and small benthic foraminifers. Rock texture and broken bioclasts suggests a relatively high-energy depositional setting.

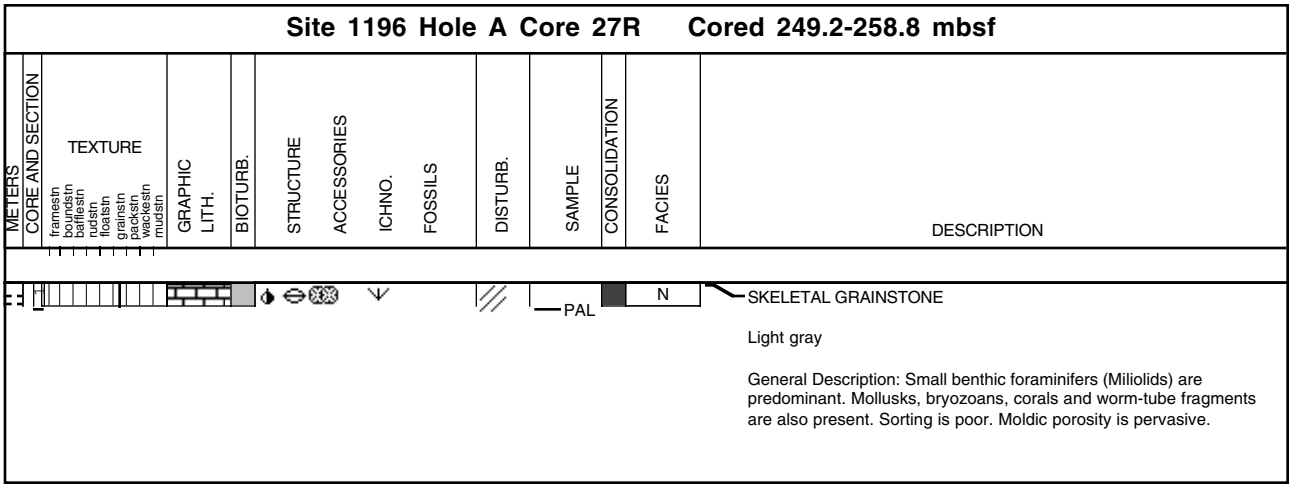
Core Photo


Site 1196 Hole A Core 25R Cored 229.9-239.6 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
THS
THS
PAL
N
SKELETAL FLOATSTONE/PACKSTONE
Light brownish gray
General Description: Large benthic foraminifers, mollusks (gastropods), and bryozoan fragments are the main constituents. One solitary coral is present. Dark stains (mm-sized) consisting of organic matter are present. Poor sorting. Moldic porosity.
SKELETAL GRAINSTONE
Very pale brown
General Description: Well-sorted, clean, sand-sized rock containing mollusks, foraminifers (large and small), bryozoan and echinoid fragments. High intergranular porosity. Could correspond to a beach or shoal depositional setting.

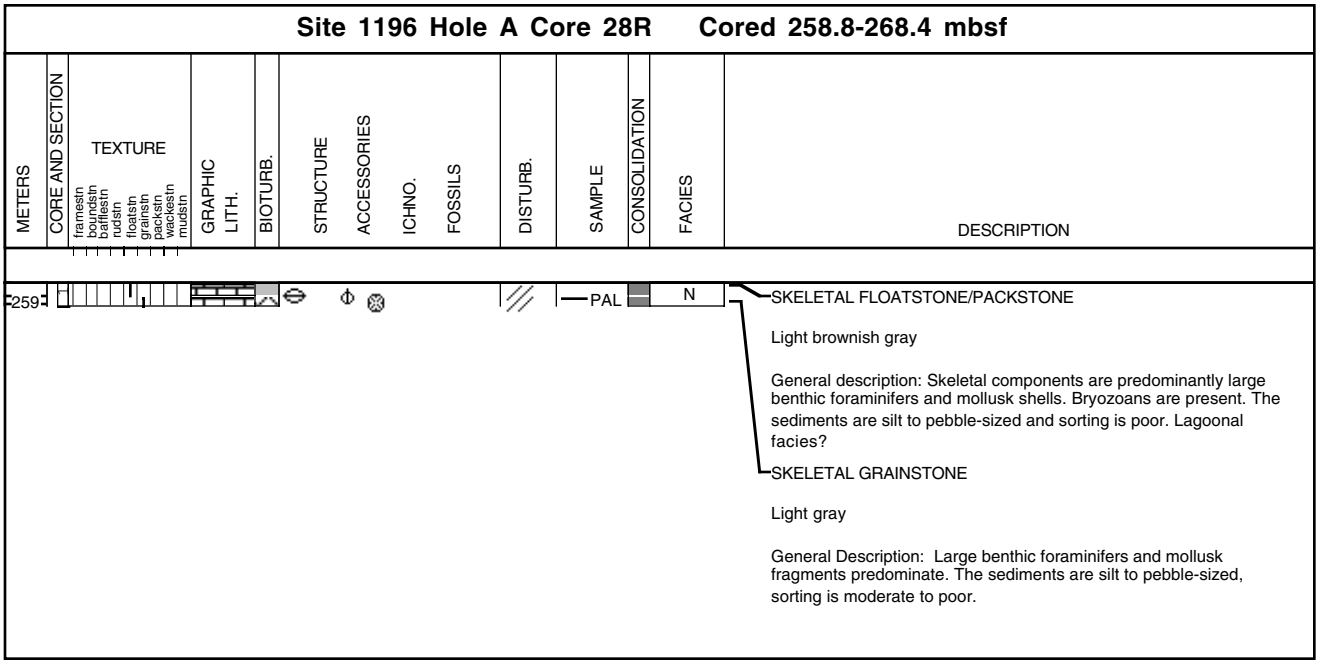
Core Photo


Site 1196 Hole A Core 26R Cored 239.6-249.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
THS
PAL
N
SKELETAL GRAINSTONE
Pale yellow
General Description: Main constituents include small benthic foraminifers. Molds of large benthic foraminifers can be observed. Small particle size makes bioclast identification difficult.

Core Photo


Site 1196 Hole A Core 27R Cored 249.2-258.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
SKELETAL GRAINSTONE
Light gray
General Description: Small benthic foraminifers (Miliolids) are predominant. Mollusks, bryozoans, corals and worm-tube fragments are also present. Sorting is poor. Moldic porosity is pervasive.

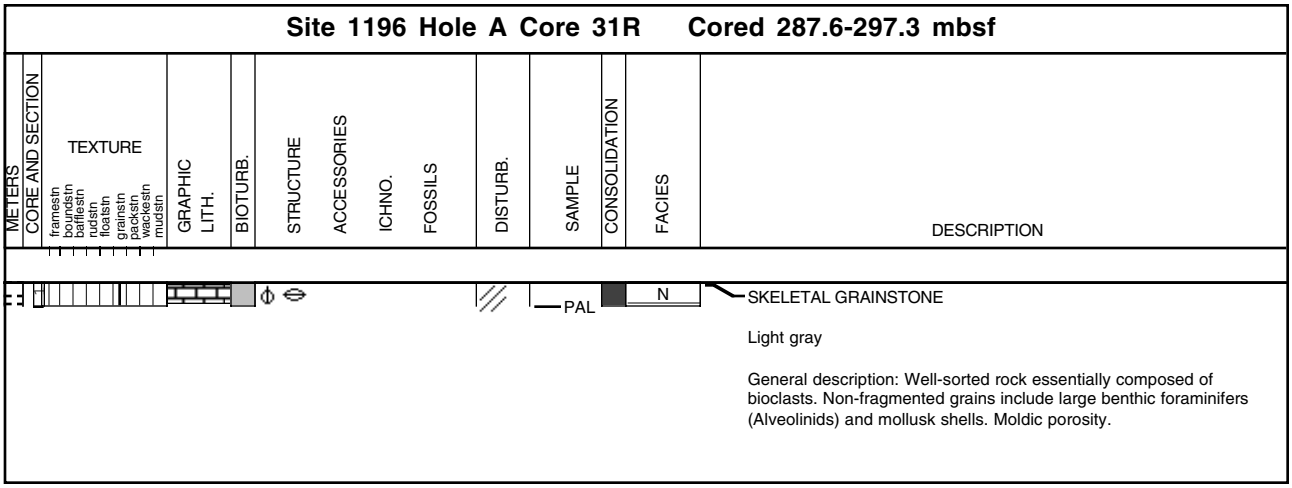
Core Photo



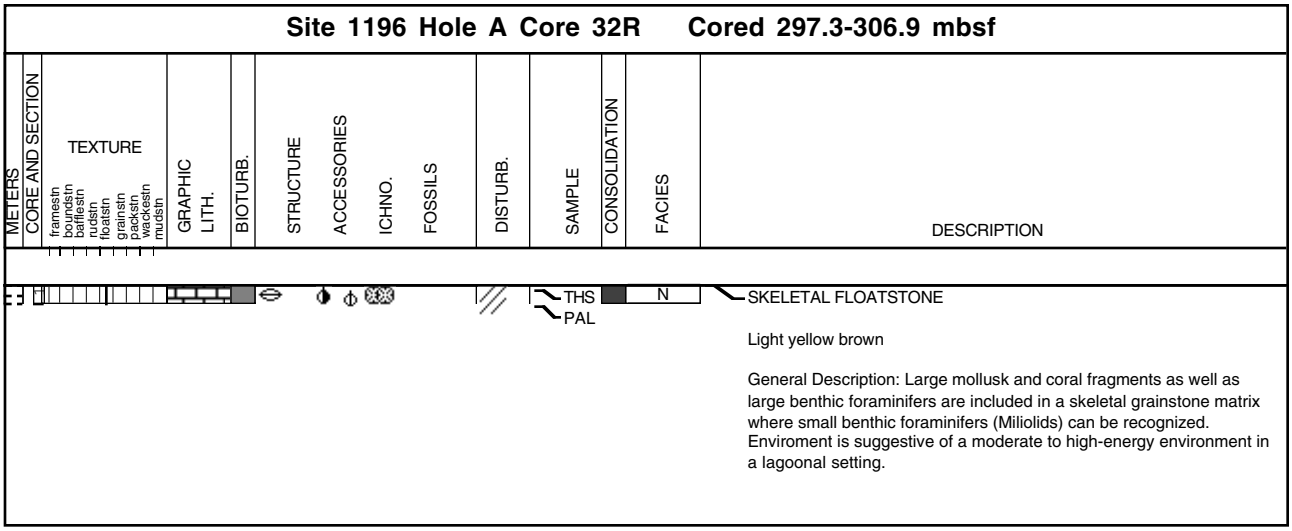
1196A-29R NO RECOVERY

1196A-30R ENTIRE CORE TO PALEONTOLOGISTS

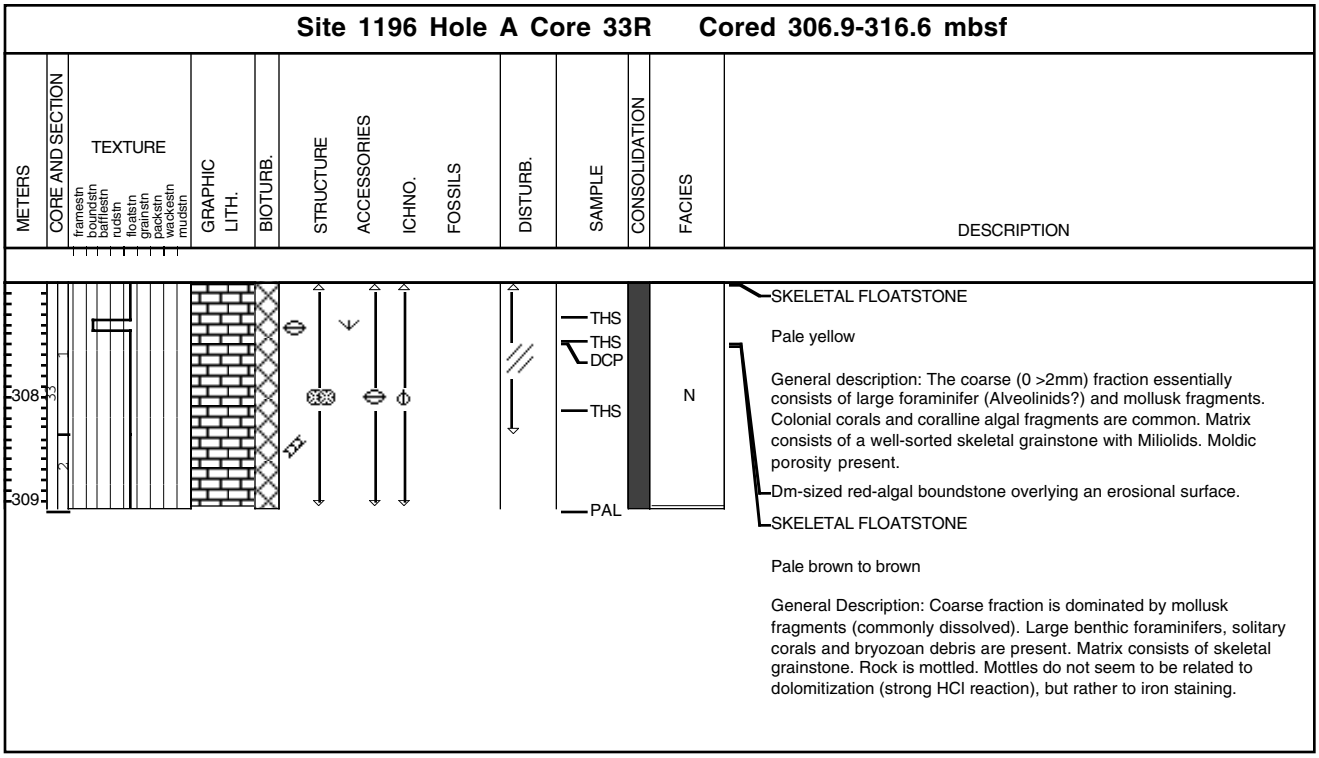
Core Photo


Site 1196 Hole A Core 31R Cored 287.6-297.3 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
SKELETAL GRAINSTONE
Light gray
General description: Well-sorted rock essentially composed of bioclasts. Non-fragmented grains include large benthic foraminifers (Alveolinids) and mollusk shells. Moldic porosity.

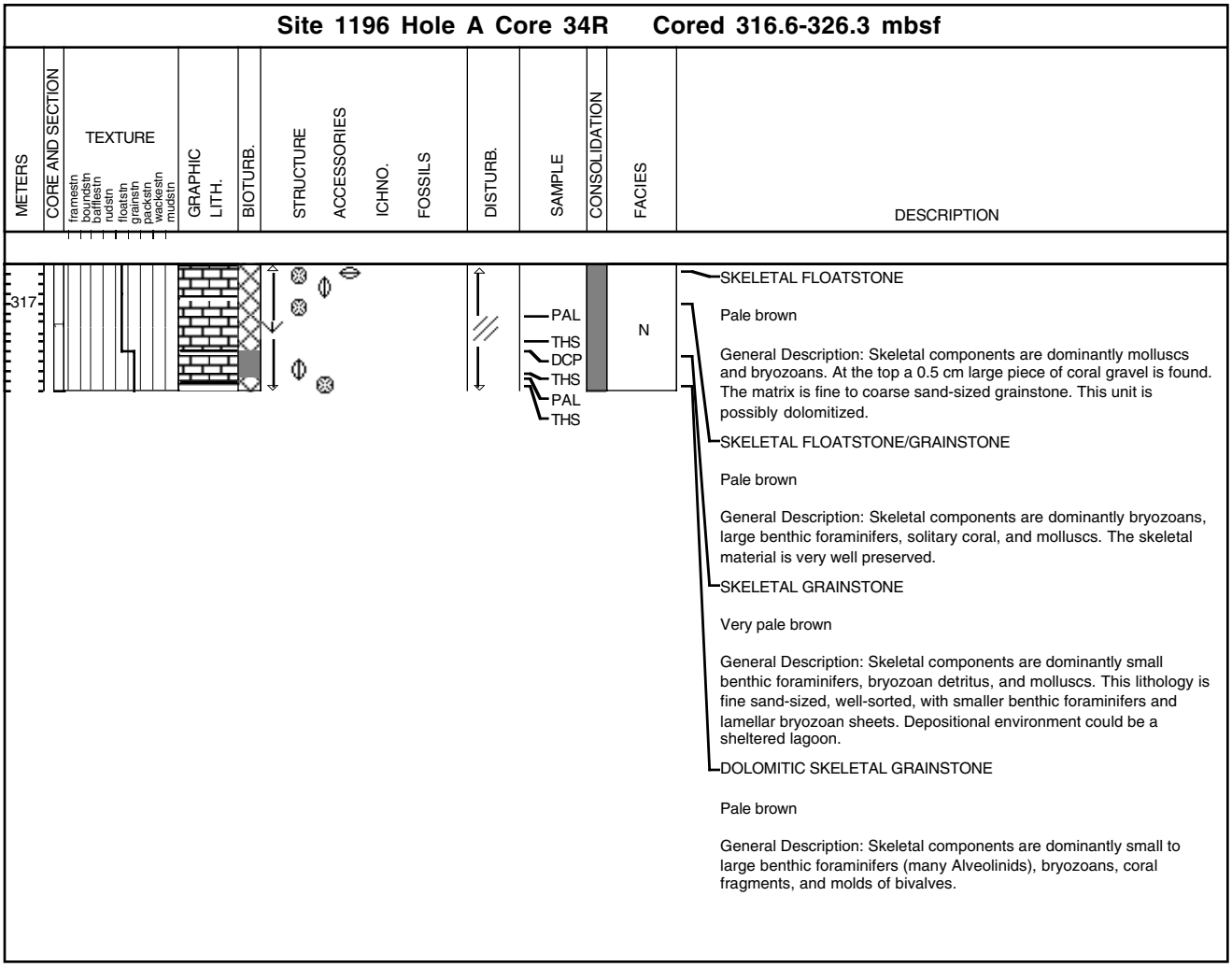
Core Photo


Site 1196 Hole A Core 32R Cored 297.3-306.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
THS
PAL
N
SKELETAL FLOATSTONE
Light yellow brown
General Description: Large mollusk and coral fragments as well as large benthic foraminifers are included in a skeletal grainstone matrix where small benthic foraminifers (Miliolids) can be recognized. Enviroment is suggestive of a moderate to high-energy environment in a lagoonal setting.

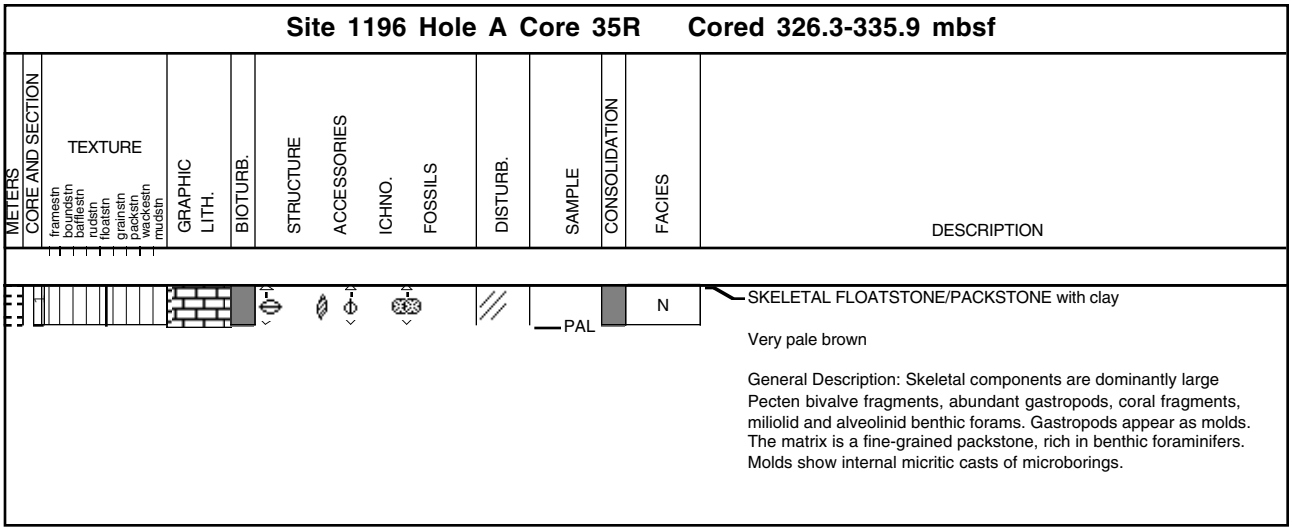
Core Photo


Site 1196 Hole A Core 33R Cored 306.9-316.6 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
308
309
33
1
2
THS
THS
DCP
THS
PAL
N
SKELETAL FLOATSTONE
Pale yellow
General description: The coarse (0 >2mm) fraction essentially consists of large foraminifer (Alveolinids?) and mollusk fragments. Colonial corals and coralline algal fragments are common. Matrix consists of a well-sorted skeletal grainstone with Miliolids. Moldic porosity present.
Dm-sized red-algal boundstone overlying an erosional surface.
SKELETAL FLOATSTONE
Pale brown to brown
General Description: Coarse fraction is dominated by mollusk fragments (commonly dissolved). Large benthic foraminifers, solitary corals and bryozoan debris are present. Matrix consists of skeletal grainstone. Rock is mottled. Mottles do not seem to be related to dolomitization (strong HCl reaction), but rather to iron staining.

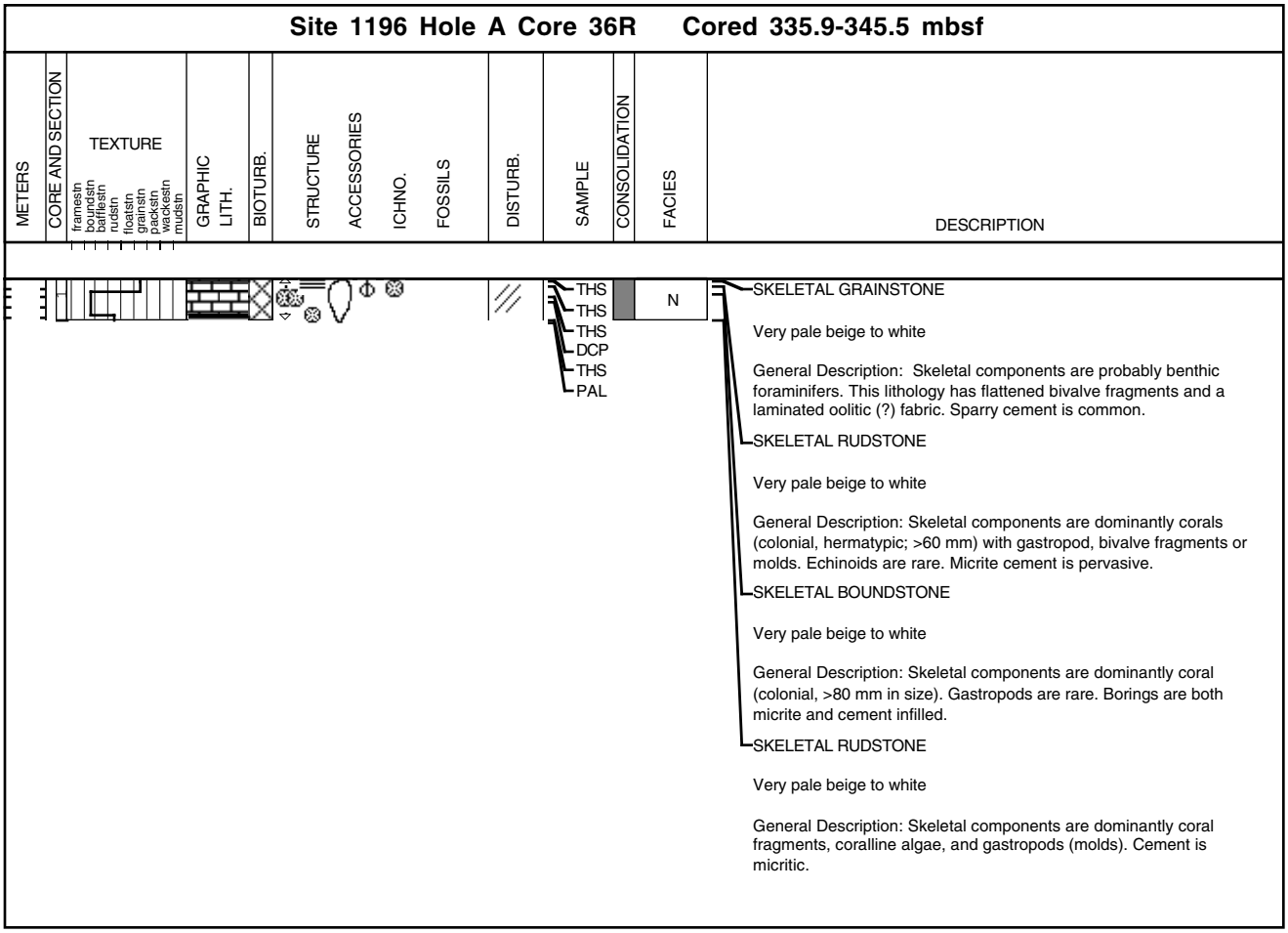
Core Photo


Site 1196 Hole A Core 34R Cored 316.6-326.3 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
317
PAL
THS
DCP
THS
PAL
THS
N
SKELETAL FLOATSTONE
Pale brown
General Description: Skeletal components are dominantly molluscs and bryozoans. At the top a 0.5 cm large piece of coral gravel is found. The matrix is fine to coarse sand-sized grainstone. This unit is possibly dolomitized.
SKELETAL FLOATSTONE/GRAINSTONE
Pale brown
General Description: Skeletal components are dominantly bryozoans, large benthic foraminifers, solitary coral, and molluscs. The skeletal material is very well preserved.
SKELETAL GRAINSTONE
Very pale brown
General Description: Skeletal components are dominantly small benthic foraminifers, bryozoan detritus, and molluscs. This lithology is fine sand-sized, well-sorted, with smaller benthic foraminifers and lamellar bryozoan sheets. Depositional environment could be a sheltered lagoon.
DOLOMITIC SKELETAL GRAINSTONE
Pale brown
General Description: Skeletal components are dominantly small to large benthic foraminifers (many Alveolinids), bryozoans, coral fragments, and molds of bivalves.

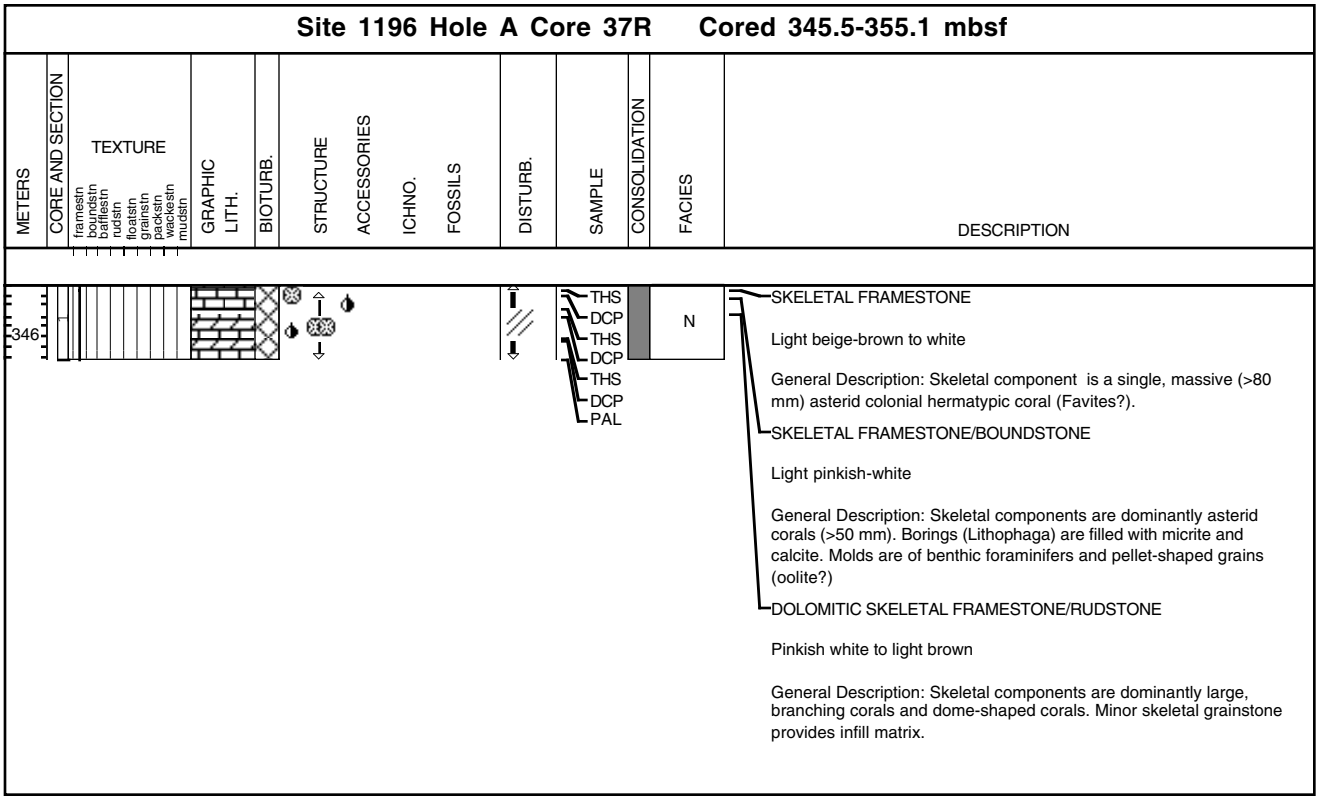
Core Photo


Site 1196 Hole A Core 35R Cored 326.3-335.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
SKELETAL FLOATSTONE/PACKSTONE with clay
Very pale brown
General Description: Skeletal components are dominantly large Pecten bivalve fragments, abundant gastropods, coral fragments, miliolid and alveolinid benthic forams. Gastropods appear as molds. The matrix is a fine-grained packstone, rich in benthic foraminifers. Molds show internal micritic casts of microborings.

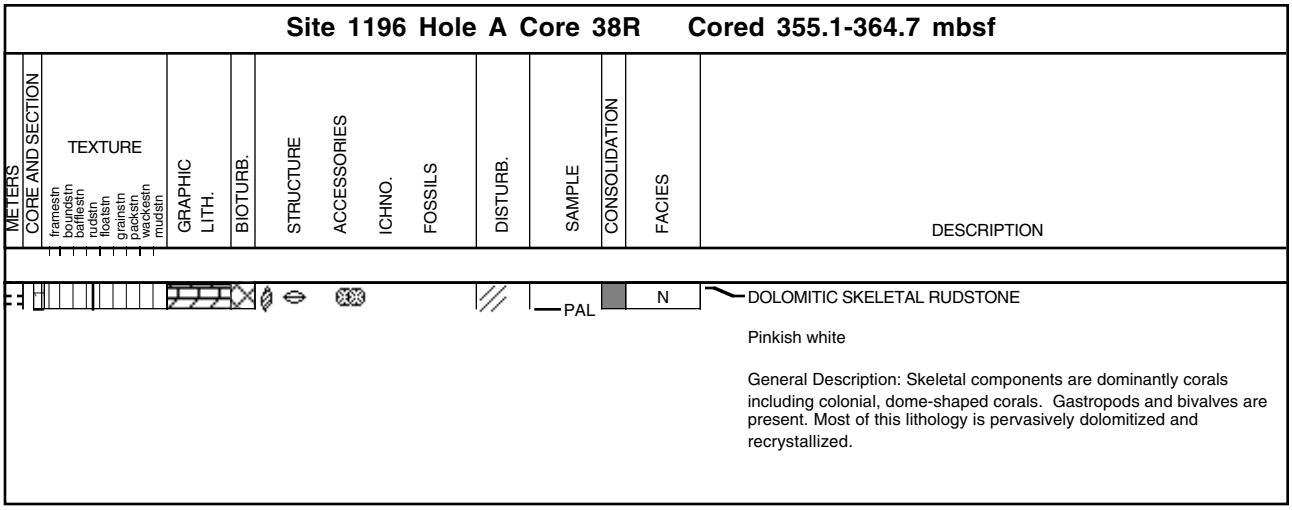
Core Photo


Site 1196 Hole A Core 36R Cored 335.9-345.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
barflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
THS
THS
THS
DCP
THS
PAL
N
SKELETAL GRAINSTONE
Very pale beige to white
General Description: Skeletal components are probably benthic foraminifers. This lithology has flattened bivalve fragments and a laminated oolitic (?) fabric. Sparry cement is common.
SKELETAL RUDSTONE
Very pale beige to white
General Description: Skeletal components are dominantly corals (colonial, hermatypic; >60 mm) with gastropod, bivalve fragments or molds. Echinoids are rare. Micrite cement is pervasive.
SKELETAL BOUNDSTONE
Very pale beige to white
General Description: Skeletal components are dominantly coral (colonial, >80 mm in size). Gastropods are rare. Borings are both micrite and cement infilled.
SKELETAL RUDSTONE
Very pale beige to white
General Description: Skeletal components are dominantly coral fragments, coralline algae, and gastropods (molds). Cement is micritic.

Core Photo


Site 1196 Hole A Core 37R Cored 345.5-355.1 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
346
THS
DCP
THS
DCP
THS
DCP
PAL
N
SKELETAL FRAMESTONE
Light beige-brown to white
General Description: Skeletal component is a single, massive (>80 mm) asterid colonial hermatypic coral (Favites?).
SKELETAL FRAMESTONE/BOUNDSTONE
Light pinkish-white
General Description: Skeletal components are dominantly asterid corals (>50 mm). Borings (Lithophaga) are filled with micrite and calcite. Molds are of benthic foraminifers and pellet-shaped grains (oolite?)
DOLOMITIC SKELETAL FRAMESTONE/RUDSTONE
Pinkish white to light brown
General Description: Skeletal components are dominantly large, branching corals and dome-shaped corals. Minor skeletal grainstone provides infill matrix.

Core Photo

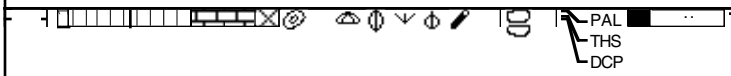


1196A-39R ENTIRE CORE TO PALEONTOLOGISTS
1196A-40R NO RECOVERY

Core Photo

Site 1196 Hole A Core 41R Cored 383.9-393.5 mbsf

METERS | CORE AND SECTION | TEXTURE (framestn, boundstn, baffllestn, rudstn, floatstn, grainstn, packstn, wackestn, mudstn) | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | CONSOLIDATION | FACIES | DESCRIPTION

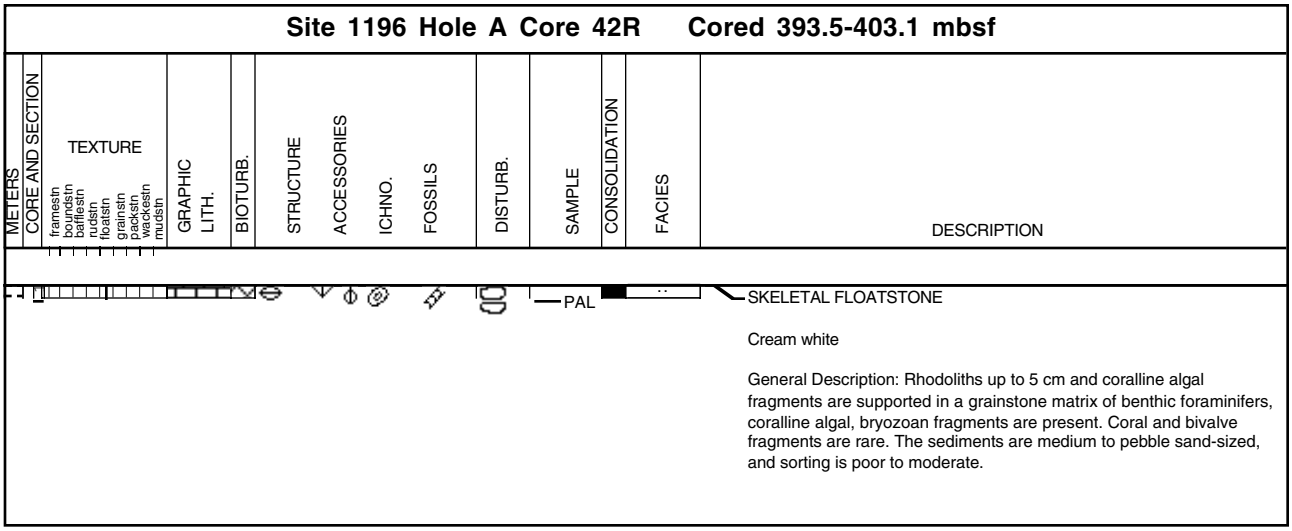


SKELETAL FLOATSTONE

Cream white

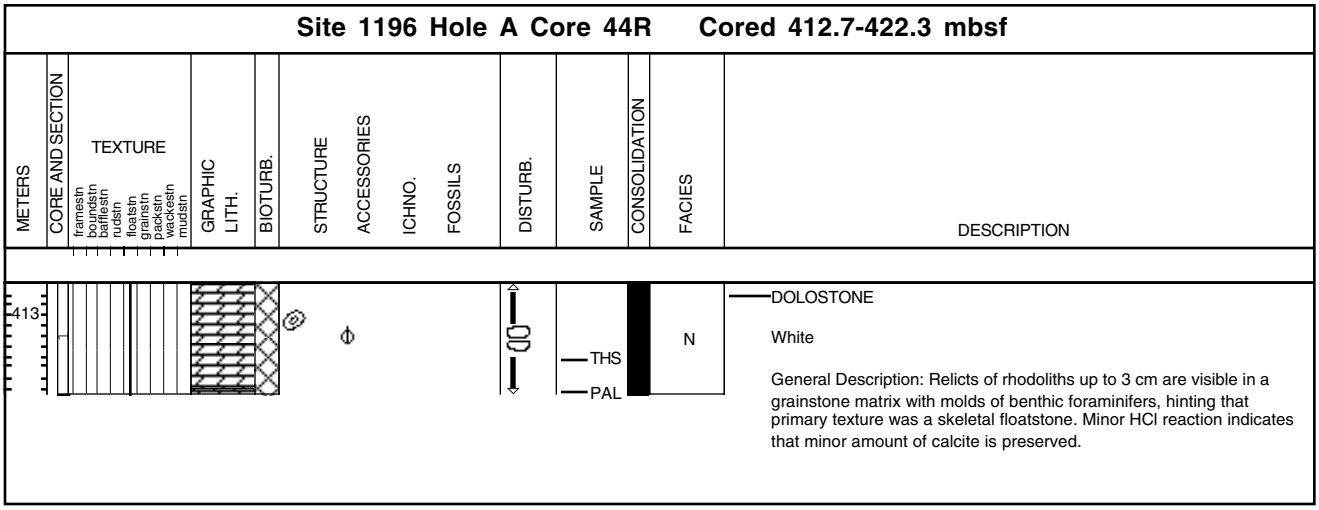
General Description: Rhodoliths up to 5 cm in size and coralline algal fragments are supported in a grainstone matrix of benthic foraminifers, coralline algal, bryozoan, serpulid and echinoderm fragments. The sediments are medium to pebble-sized, and sorting is poor to moderate.

Core Photo



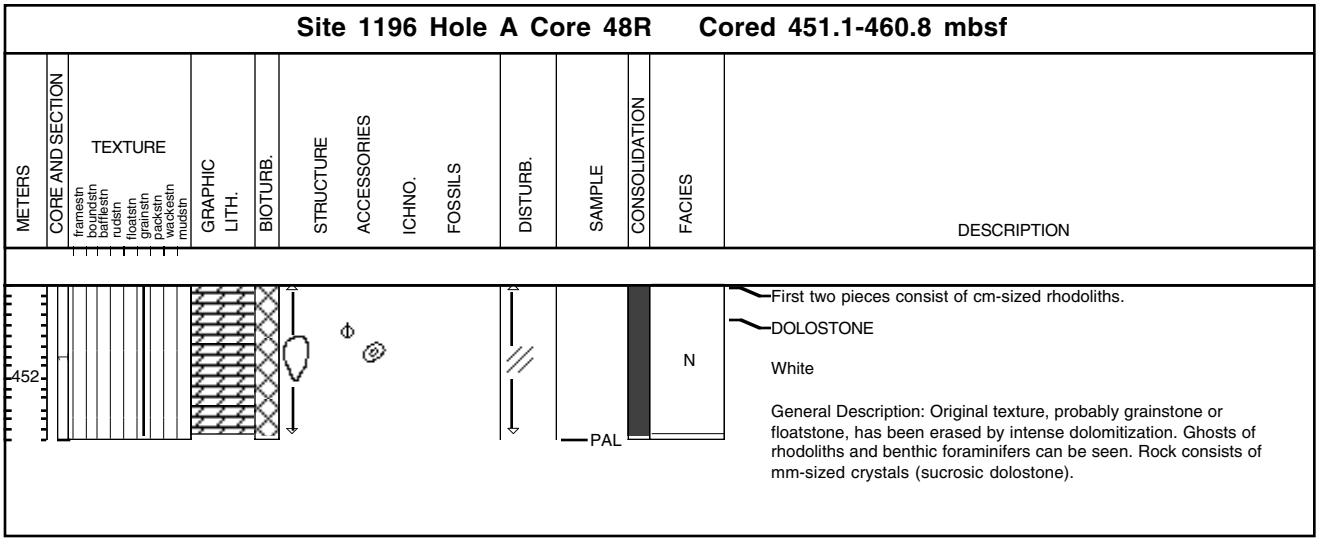
1196A-43R ENTIRE CORE TO PALEONTOLOGISTS

Core Photo



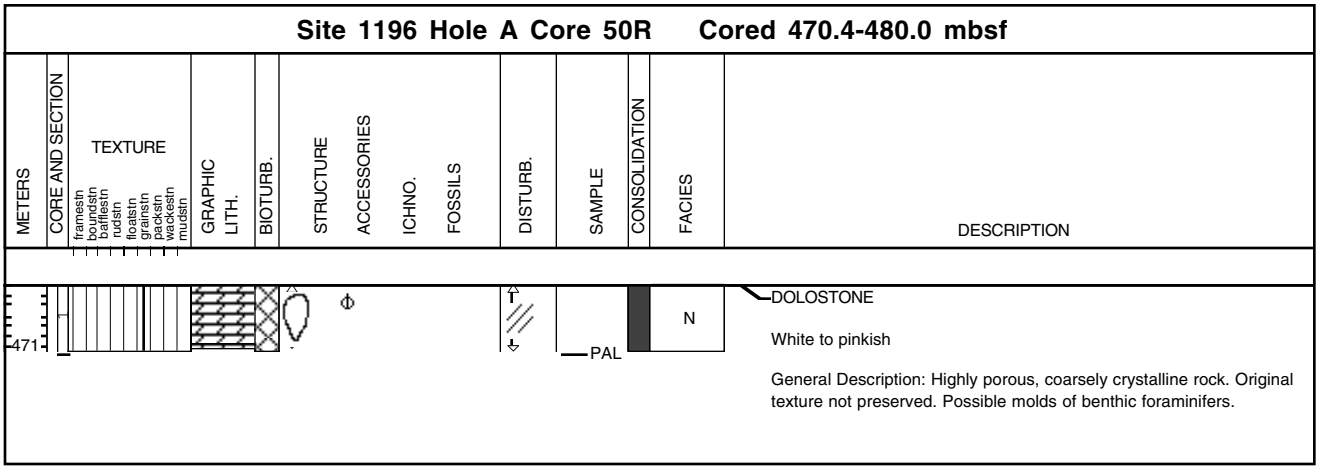
1196A-45R NO RECOVERY
1196A-46R NO RECOVERY
1196A-47R NO RECOVERY

Core Photo

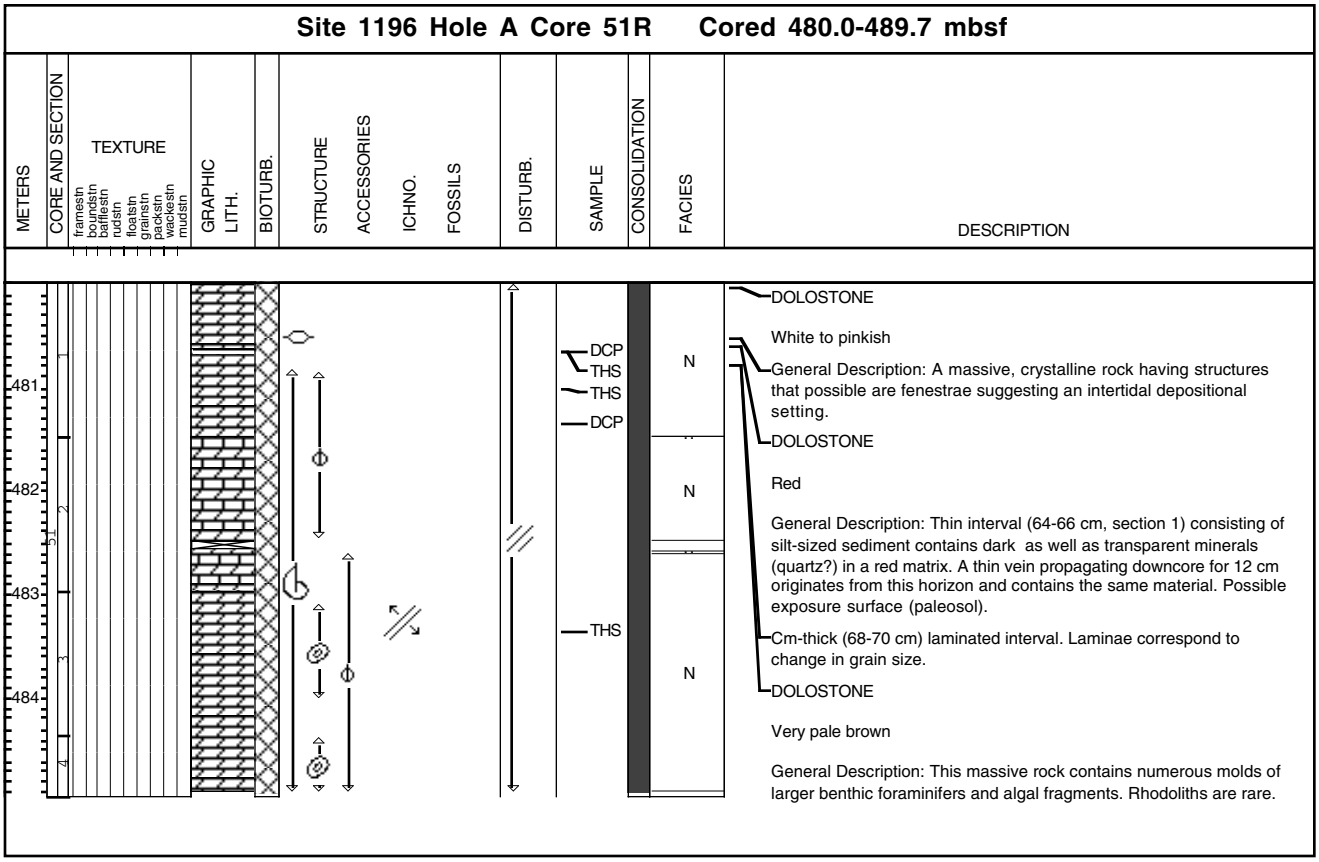


1196A-49R NO RECOVERY

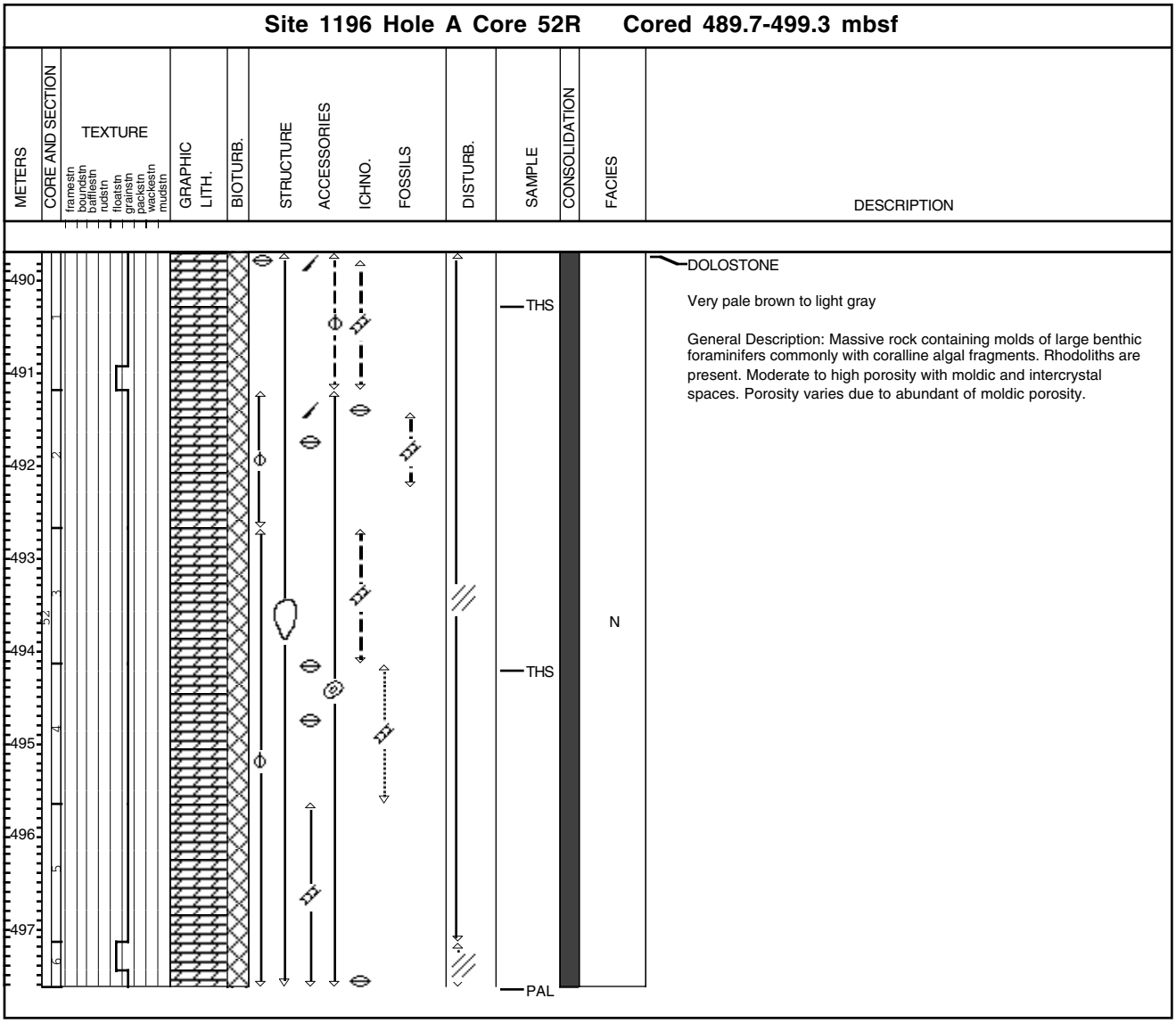
Core Photo


Site 1196 Hole A Core 50R Cored 470.4-480.0 mbsf
METERS
CORE AND SECTION
TEXTURE
framesn
boundstn
batflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
471
PAL
N
DOLOSTONE
White to pinkish
General Description: Highly porous, coarsely crystalline rock. Original texture not preserved. Possible molds of benthic foraminifers.

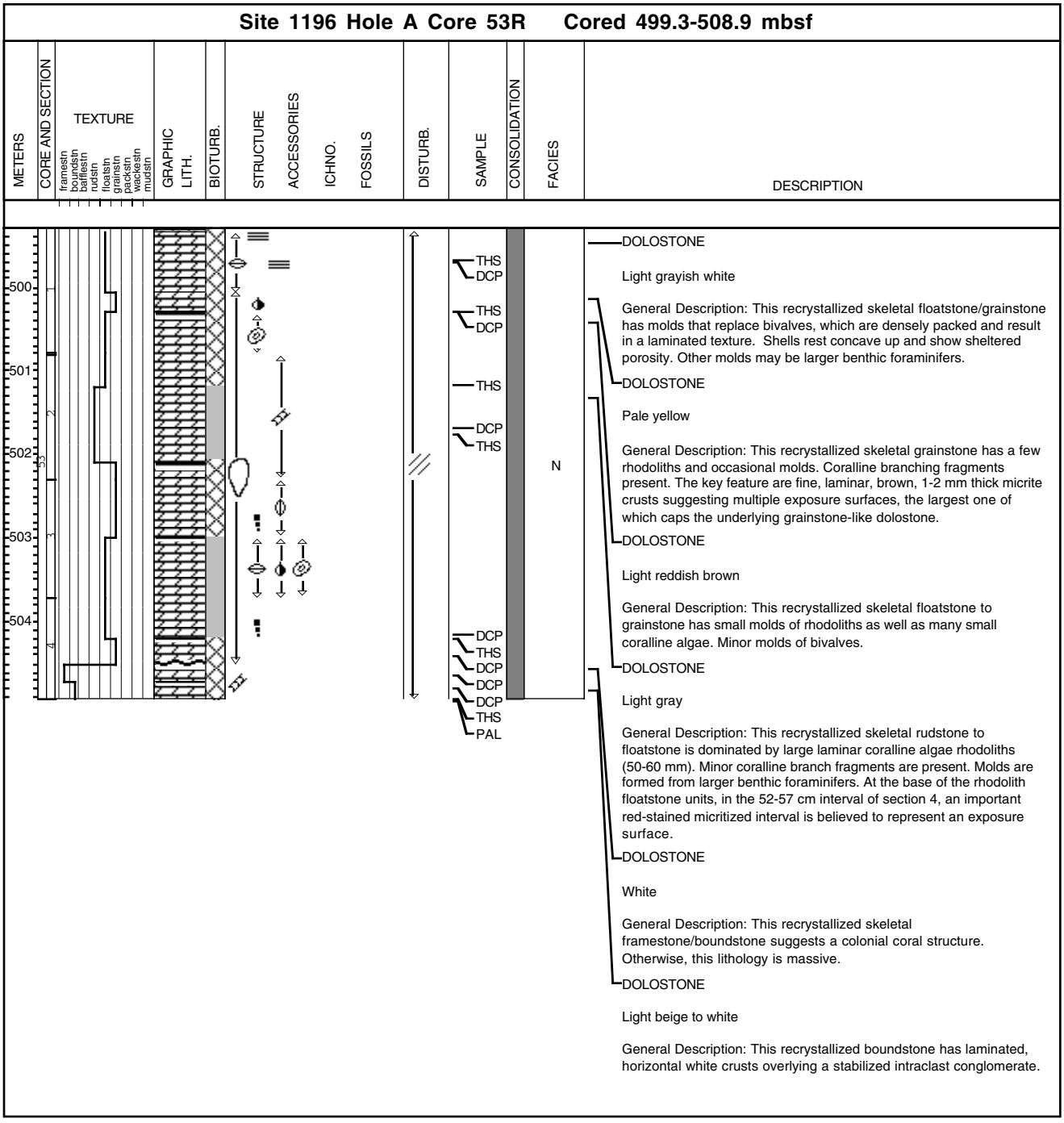
Core Photo


Site 1196 Hole A Core 51R Cored 480.0-489.7 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
481
482
483
484
DCP
THS
THS
DCP
THS
N
N
N
DOLOSTONE
White to pinkish
General Description: A massive, crystalline rock having structures that possible are fenestrae suggesting an intertidal depositional setting.
DOLOSTONE
Red
General Description: Thin interval (64-66 cm, section 1) consisting of silt-sized sediment contains dark as well as transparent minerals (quartz?) in a red matrix. A thin vein propagating downcore for 12 cm originates from this horizon and contains the same material. Possible exposure surface (paleosol).
Cm-thick (68-70 cm) laminated interval. Laminae correspond to change in grain size.
DOLOSTONE
Very pale brown
General Description: This massive rock contains numerous molds of larger benthic foraminifers and algal fragments. Rhodoliths are rare.

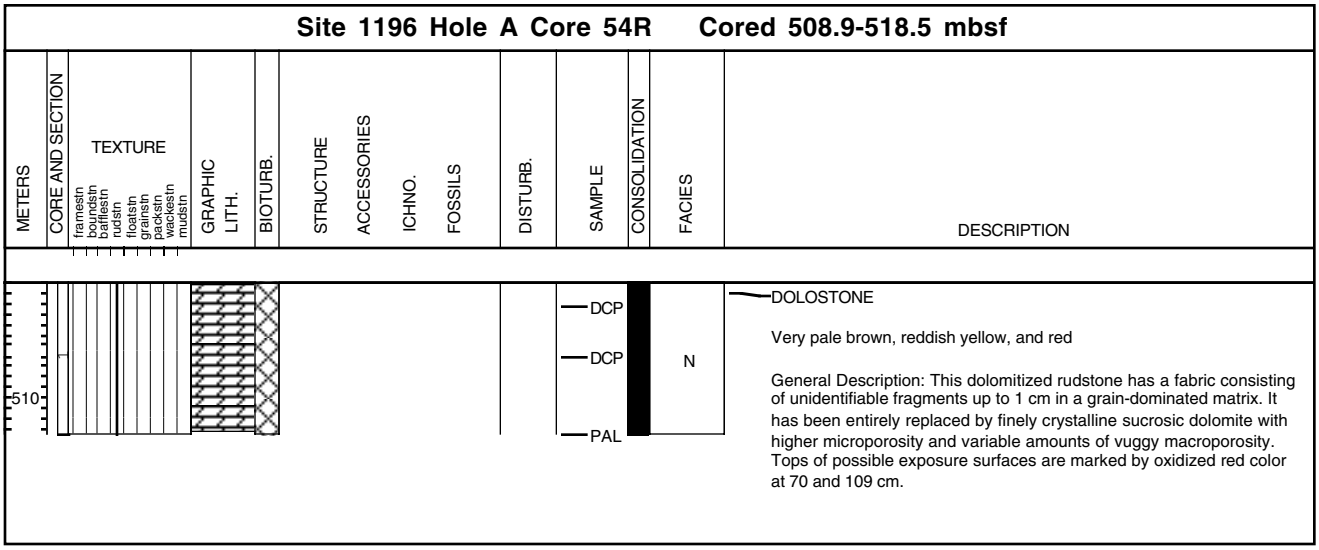
Core Photo


Site 1196 Hole A Core 52R Cored 489.7-499.3 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffliestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
490
491
492
493
494
495
496
497
THS
THS
PAL
N
DOLOSTONE
Very pale brown to light gray
General Description: Massive rock containing molds of large benthic foraminifers commonly with coralline algal fragments. Rhodoliths are present. Moderate to high porosity with moldic and intercrystal spaces. Porosity varies due to abundant of moldic porosity.

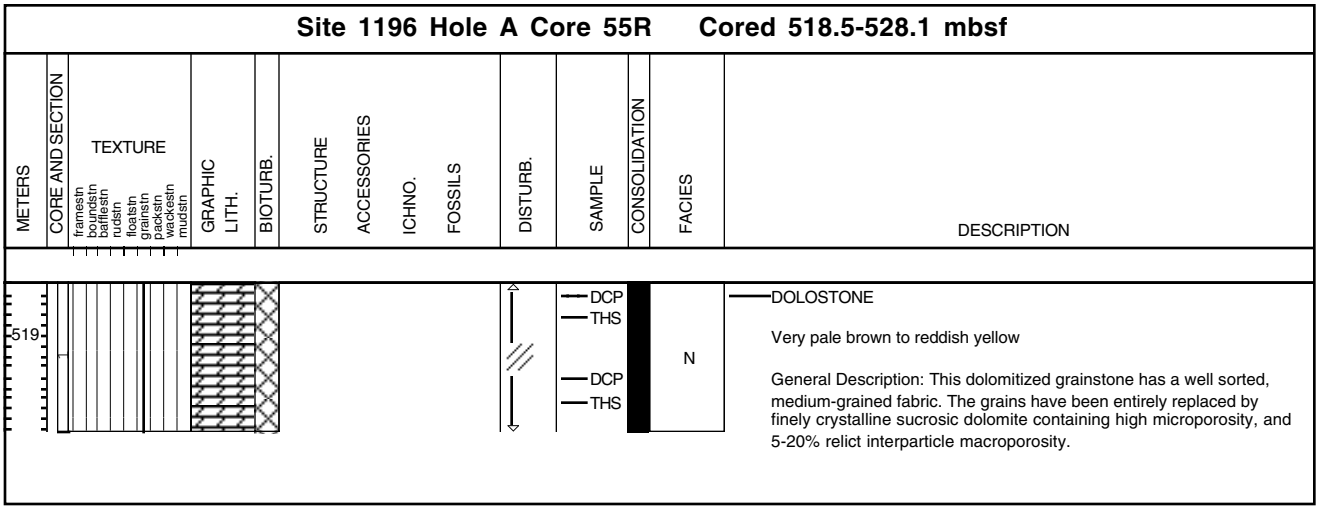
Core Photo


Site 1196 Hole A Core 53R Cored 499.3-508.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
500
501
502
503
504
53
1
2
3
4
THS
DCP
N
PAL
DOLOSTONE
Light grayish white
General Description: This recrystallized skeletal floatstone/grainstone has molds that replace bivalves, which are densely packed and result in a laminated texture. Shells rest concave up and show sheltered porosity. Other molds may be larger benthic foraminifers.
DOLOSTONE
Pale yellow
General Description: This recrystallized skeletal grainstone has a few rhodoliths and occasional molds. Coralline branching fragments present. The key feature are fine, laminar, brown, 1-2 mm thick micrite crusts suggesting multiple exposure surfaces, the largest one of which caps the underlying grainstone-like dolostone.
DOLOSTONE
Light reddish brown
General Description: This recrystallized skeletal floatstone to grainstone has small molds of rhodoliths as well as many small coralline algae. Minor molds of bivalves.
DOLOSTONE
Light gray
General Description: This recrystallized skeletal rudstone to floatstone is dominated by large laminar coralline algae rhodoliths (50-60 mm). Minor coralline branch fragments are present. Molds are formed from larger benthic foraminifers. At the base of the rhodolith floatstone units, in the 52-57 cm interval of section 4, an important red-stained micritized interval is believed to represent an exposure surface.
DOLOSTONE
White
General Description: This recrystallized skeletal framestone/boundstone suggests a colonial coral structure. Otherwise, this lithology is massive.
DOLOSTONE
Light beige to white
General Description: This recrystallized boundstone has laminated, horizontal white crusts overlying a stabilized intraclast conglomerate.

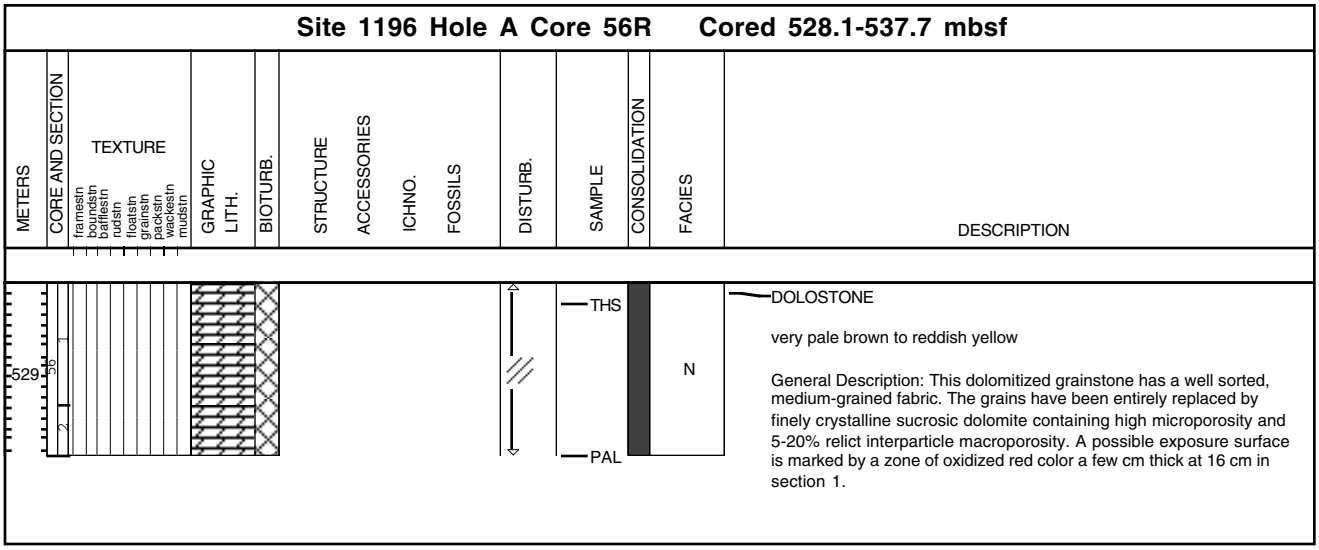
Core Photo


Site 1196 Hole A Core 54R Cored 508.9-518.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
510
DCP
DCP
PAL
N
DOLOSTONE
Very pale brown, reddish yellow, and red
General Description: This dolomitized rudstone has a fabric consisting of unidentifiable fragments up to 1 cm in a grain-dominated matrix. It has been entirely replaced by finely crystalline sucrosic dolomite with higher microporosity and variable amounts of vuggy macroporosity. Tops of possible exposure surfaces are marked by oxidized red color at 70 and 109 cm.

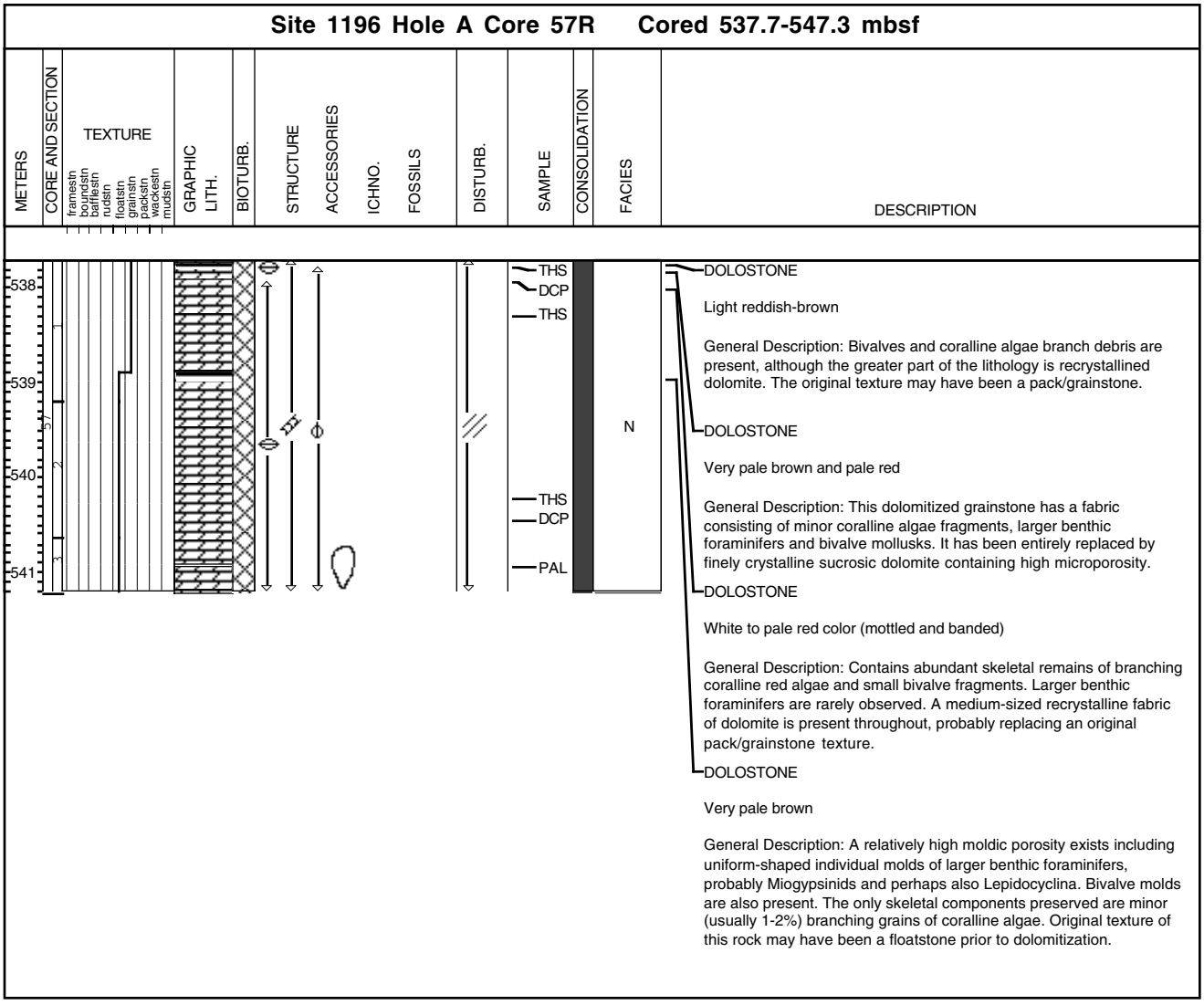
Core Photo


Site 1196 Hole A Core 55R Cored 518.5-528.1 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
519
DCP
THS
DCP
THS
N
DOLOSTONE
Very pale brown to reddish yellow
General Description: This dolomitized grainstone has a well sorted, medium-grained fabric. The grains have been entirely replaced by finely crystalline sucrosic dolomite containing high microporosity, and 5-20% relict interparticle macroporosity.

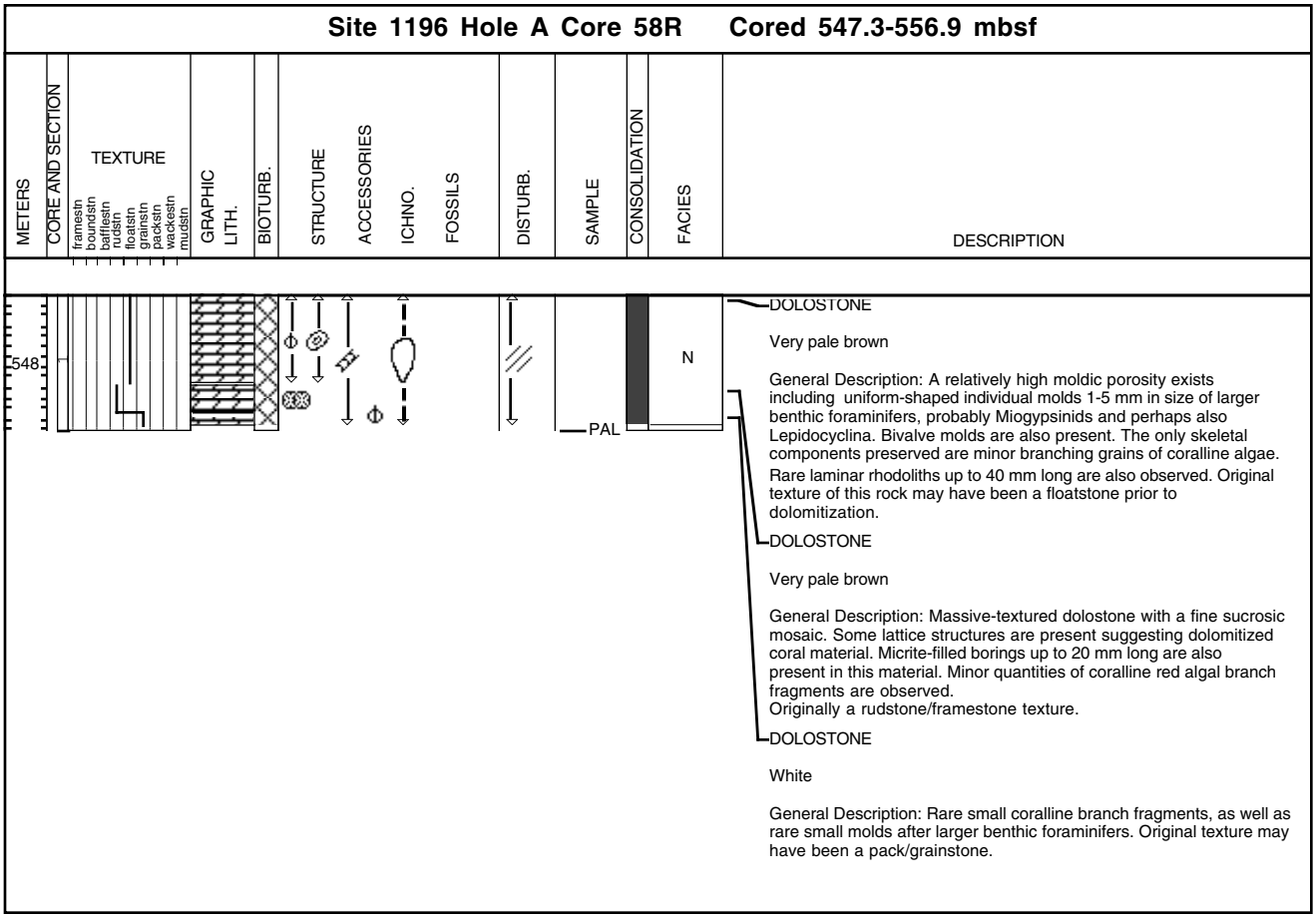
Core Photo


Site 1196 Hole A Core 56R Cored 528.1-537.7 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
batflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
529
56
1
2
THS
PAL
N
DOLOSTONE
very pale brown to reddish yellow
General Description: This dolomitized grainstone has a well sorted, medium-grained fabric. The grains have been entirely replaced by finely crystalline sucrosic dolomite containing high microporosity and 5-20% relict interparticle macroporosity. A possible exposure surface is marked by a zone of oxidized red color a few cm thick at 16 cm in section 1.

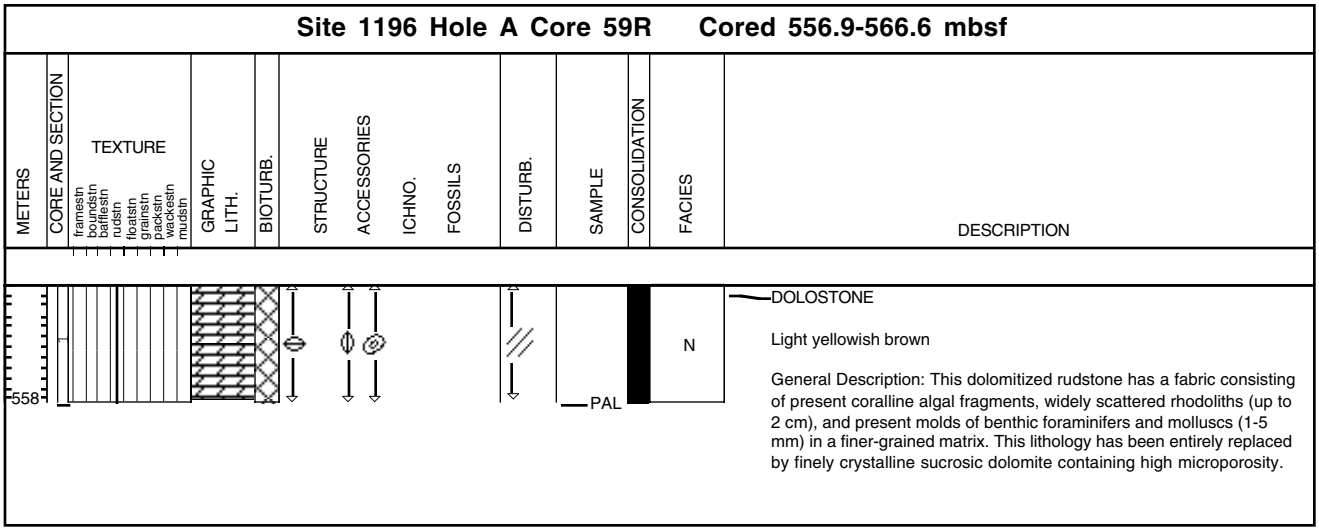
Core Photo


Site 1196 Hole A Core 57R Cored 537.7-547.3 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
538
539
540
541
THS
DCP
THS
THS
DCP
PAL
N
DOLOSTONE
Light reddish-brown
General Description: Bivalves and coralline algae branch debris are present, although the greater part of the lithology is recrystallined dolomite. The original texture may have been a pack/grainstone.
DOLOSTONE
Very pale brown and pale red
General Description: This dolomitized grainstone has a fabric consisting of minor coralline algae fragments, larger benthic foraminifers and bivalve mollusks. It has been entirely replaced by finely crystalline sucrosic dolomite containing high microporosity.
DOLOSTONE
White to pale red color (mottled and banded)
General Description: Contains abundant skeletal remains of branching coralline red algae and small bivalve fragments. Larger benthic foraminifers are rarely observed. A medium-sized recrystalline fabric of dolomite is present throughout, probably replacing an original pack/grainstone texture.
DOLOSTONE
Very pale brown
General Description: A relatively high moldic porosity exists including uniform-shaped individual molds of larger benthic foraminifers, probably Miogypsinids and perhaps also Lepidocyclina. Bivalve molds are also present. The only skeletal components preserved are minor (usually 1-2%) branching grains of coralline algae. Original texture of this rock may have been a floatstone prior to dolomitization.

Core Photo

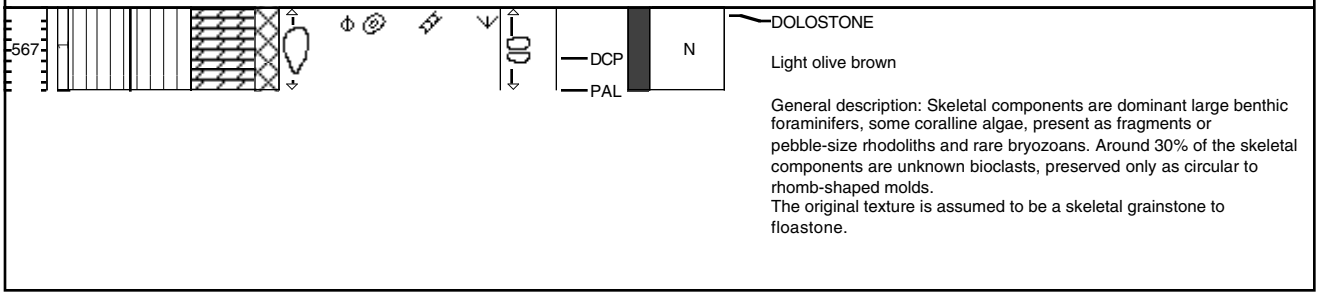

Site 1196 Hole A Core 58R Cored 547.3-556.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
548
PAL
N
DOLOSTONE
Very pale brown
General Description: A relatively high moldic porosity exists including uniform-shaped individual molds 1-5 mm in size of larger benthic foraminifers, probably Miogypsinids and perhaps also Lepidocyclina. Bivalve molds are also present. The only skeletal components preserved are minor branching grains of coralline algae. Rare laminar rhodoliths up to 40 mm long are also observed. Original texture of this rock may have been a floatstone prior to dolomitization.
DOLOSTONE
Very pale brown
General Description: Massive-textured dolostone with a fine sucrosic mosaic. Some lattice structures are present suggesting dolomitized coral material. Micrite-filled borings up to 20 mm long are also present in this material. Minor quantities of coralline red algal branch fragments are observed.
Originally a rudstone/framestone texture.
DOLOSTONE
White
General Description: Rare small coralline branch fragments, as well as rare small molds after larger benthic foraminifers. Original texture may have been a pack/grainstone.

Core Photo


Site 1196 Hole A Core 59R Cored 556.9-566.6 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
558
PAL
N
DOLOSTONE
Light yellowish brown
General Description: This dolomitized rudstone has a fabric consisting of present coralline algal fragments, widely scattered rhodoliths (up to 2 cm), and present molds of benthic foraminifers and molluscs (1-5 mm) in a finer-grained matrix. This lithology has been entirely replaced by finely crystalline sucrosic dolomite containing high microporosity.

Core Photo

Site 1196 Hole A Core 60R Cored 566.6-576.2 mbsf



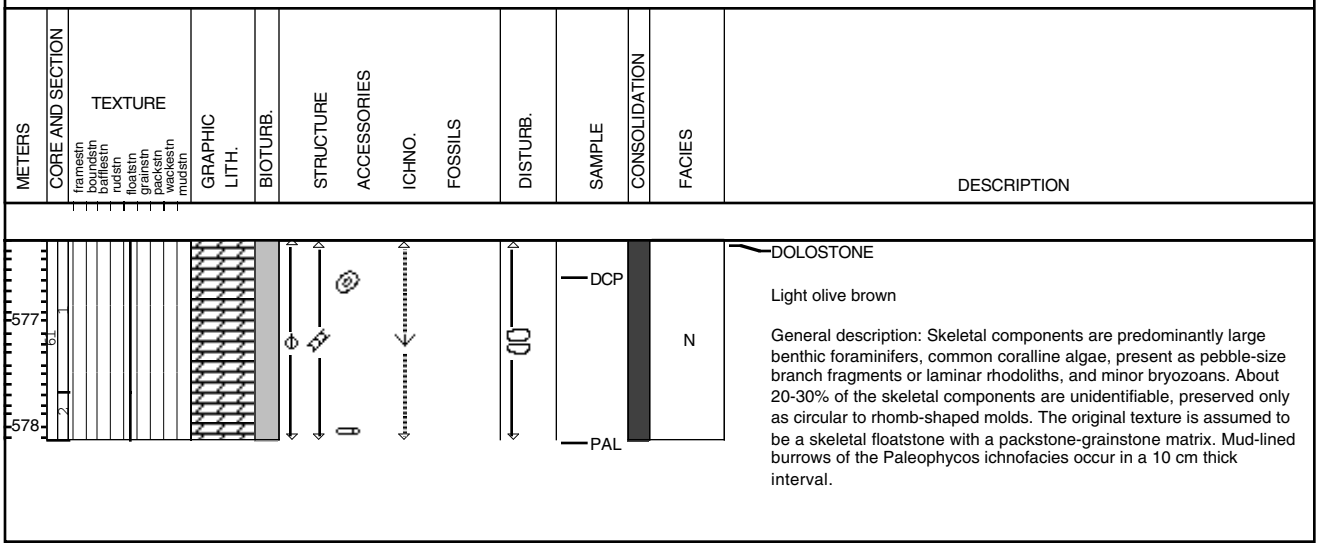
DOLOSTONE

Light olive brown

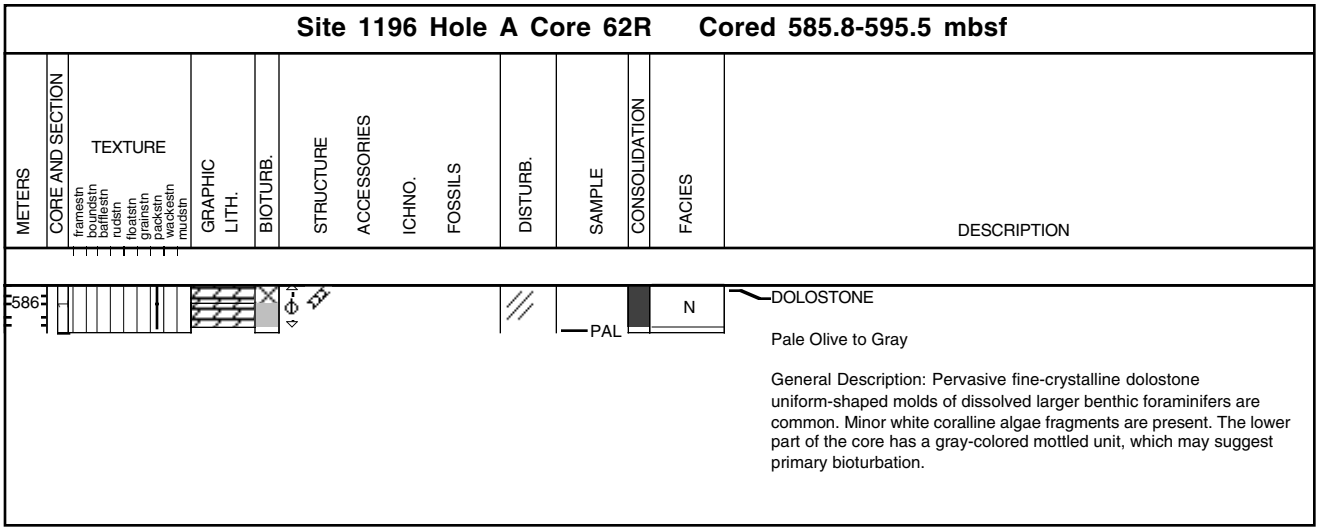
General description: Skeletal components are dominant large benthic foraminifers, some coralline algae, present as fragments or pebble-size rhodoliths and rare bryozoans. Around 30% of the skeletal components are unknown bioclasts, preserved only as circular to rhomb-shaped molds.
The original texture is assumed to be a skeletal grainstone to floastone.

Core Photo

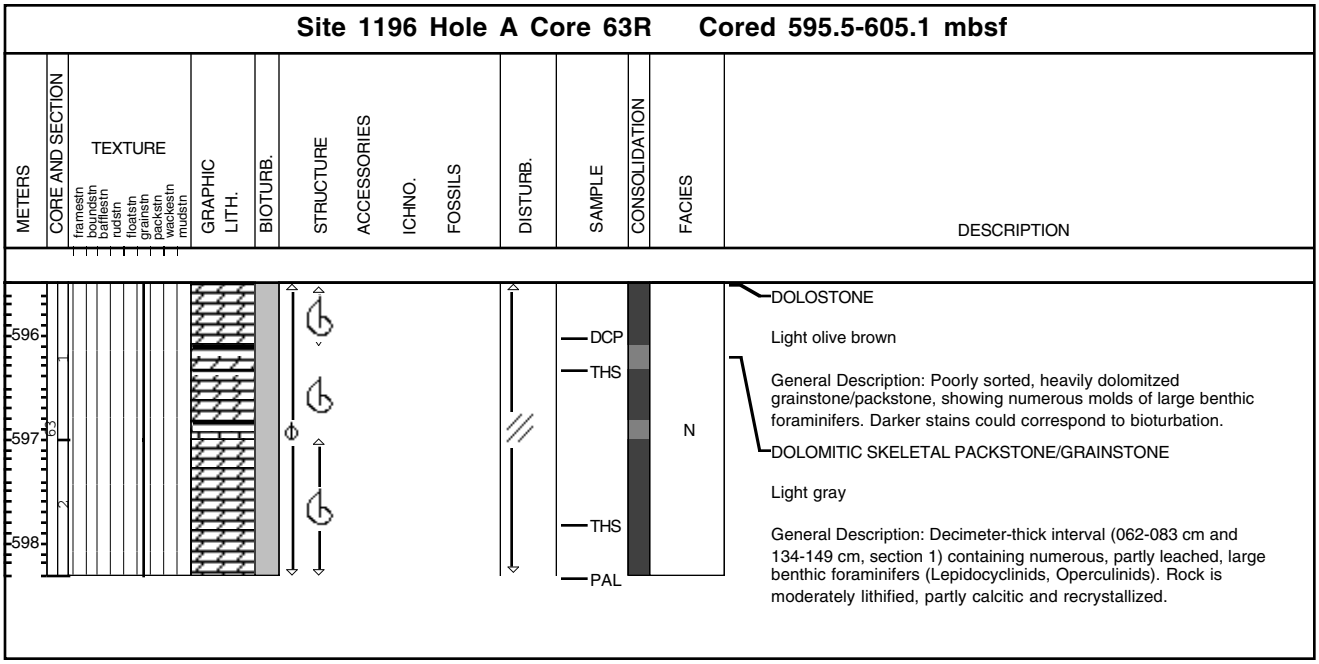
Site 1196 Hole A Core 61R Cored 576.2-585.8 mbsf



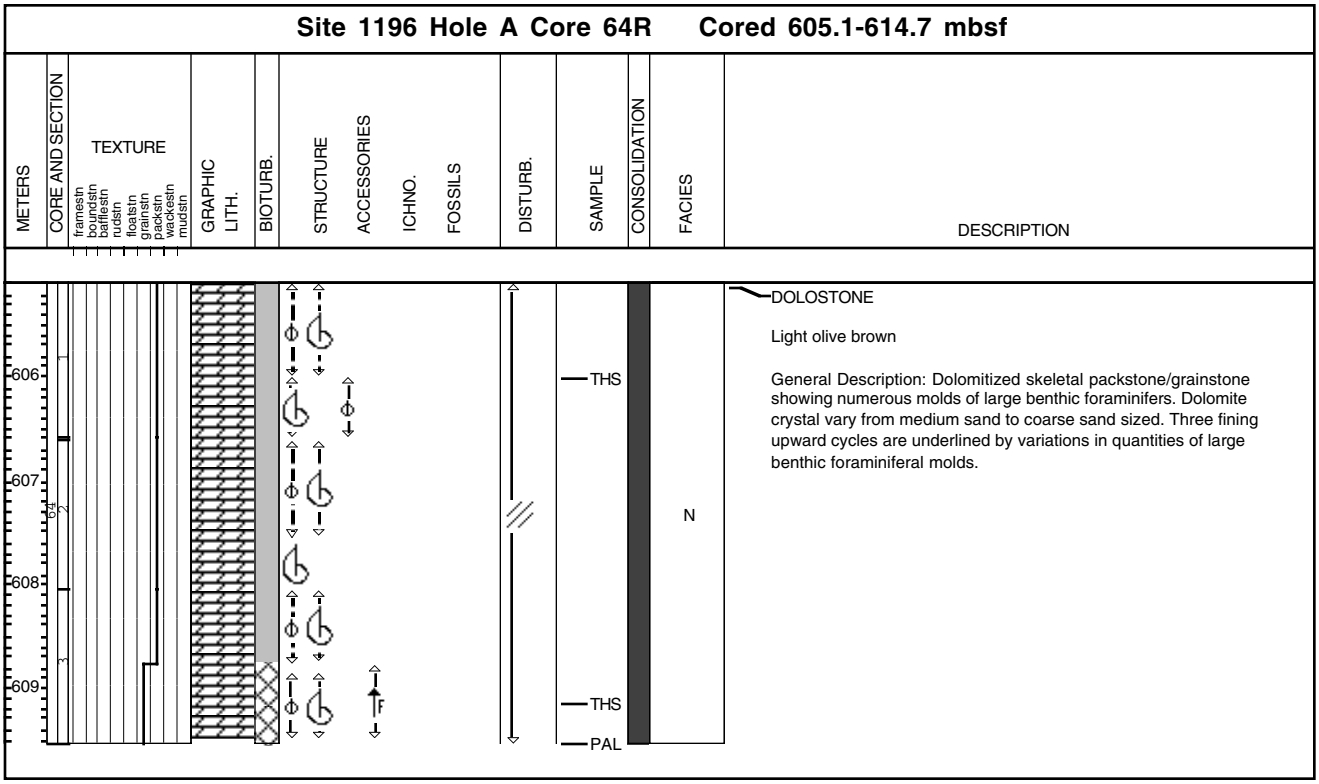
Core Photo


Site 1196 Hole A Core 62R Cored 585.8-595.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
586
PAL
N
DOLOSTONE
Pale Olive to Gray
General Description: Pervasive fine-crystalline dolostone uniform-shaped molds of dissolved larger benthic foraminifers are common. Minor white coralline algae fragments are present. The lower part of the core has a gray-colored mottled unit, which may suggest primary bioturbation.

Core Photo

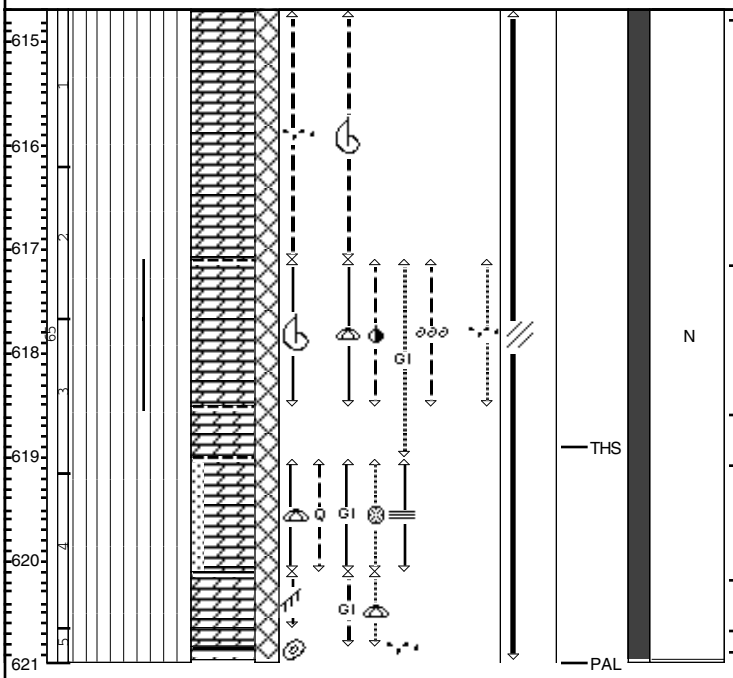

Site 1196 Hole A Core 63R Cored 595.5-605.1 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
596
597
598
63
1
2
DCP
THS
THS
PAL
N
DOLOSTONE
Light olive brown
General Description: Poorly sorted, heavily dolomitzed grainstone/packstone, showing numerous molds of large benthic foraminifers. Darker stains could correspond to bioturbation.
DOLOMITIC SKELETAL PACKSTONE/GRAINSTONE
Light gray
General Description: Decimeter-thick interval (062-083 cm and 134-149 cm, section 1) containing numerous, partly leached, large benthic foraminifers (Lepidocyclinids, Operculinids). Rock is moderately lithified, partly calcitic and recrystallized.

Core Photo


Site 1196 Hole A Core 64R Cored 605.1-614.7 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
606
607
608
609
64
2
3
THS
THS
PAL
F
N
DOLOSTONE
Light olive brown
General Description: Dolomitized skeletal packstone/grainstone showing numerous molds of large benthic foraminifers. Dolomite crystal vary from medium sand to coarse sand sized. Three fining upward cycles are underlined by variations in quantities of large benthic foraminiferal molds.

Core Photo

Site 1196 Hole A Core 65R Cored 614.7-624.4 mbsf



DESCRIPTION

DOLOSTONE

Pinkish gray

General description: The original rock fabric is largely lost due to dolomitization. Porosity is high, mostly intergranular. Some molds of large benthic forams are present. Weakly mottled with red stains consisting of dolomite rhombs mixed with finer red material (oxidized?). These structures are similar to burrows.

DOLOSTONE

Pinkish gray

General Description: The lithology is heavily dolomitized. Skeletal components include common echinoid spine fragments, present shell fragments and benthic foraminifers. Molds of large benthic foraminifers are common, glauconite is rare. The lithology is mottled red-green. The primary texture probably has been a skeletal grainstone.

DOLOSTONE

Weak red

General Description: Highly dolomitized unit, some skeletal particles visible, but not identifiable. Common burrows, infilled with glauconite.

DOLOSTONE

Strong brown

General Description: Skeletal components include abundant echinoid spine fragments and rare coral fragments. Quartz is present and glauconite abundant. Some rounded clasts (1 mm in size), pale yellow, are present throughout the interval. These may be reworked vadose silts (?).
Throughout the unit cm-scale laminae of brown material are present. They are composed of fine micrite with wavy lamination (algal mats?).

DOLOSTONE

Strong brown

General Description: Skeletal particles are rare and composed of echinoid spine fragments. Glauconite is present. This unit features cross-stratifications, the layers being cm-thick.

DOLOSTONE

Weak red

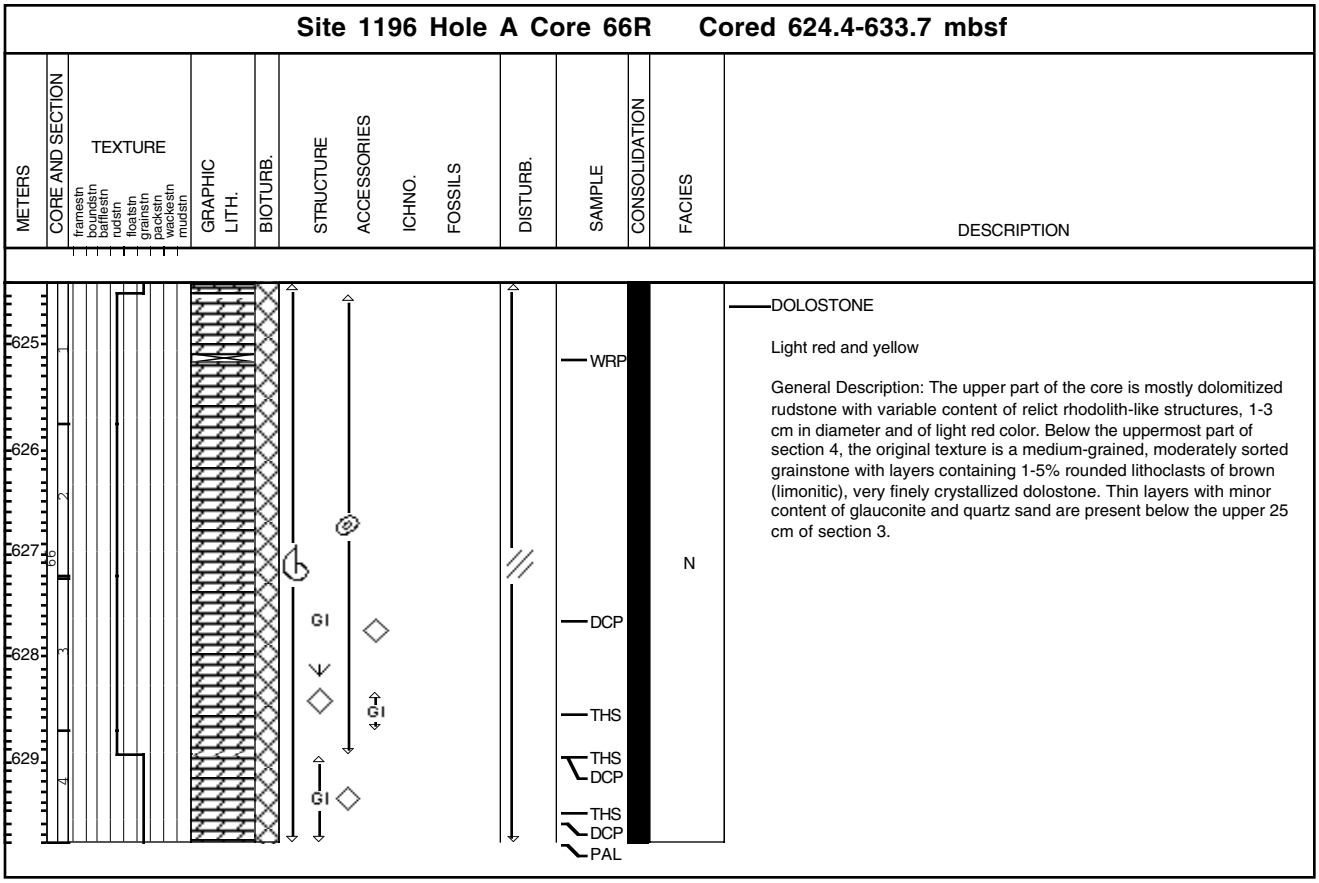
General Description: Skeletal components are rare echinoid fragments. Glauconite is rare. No layering visible.

DOLOSTONE

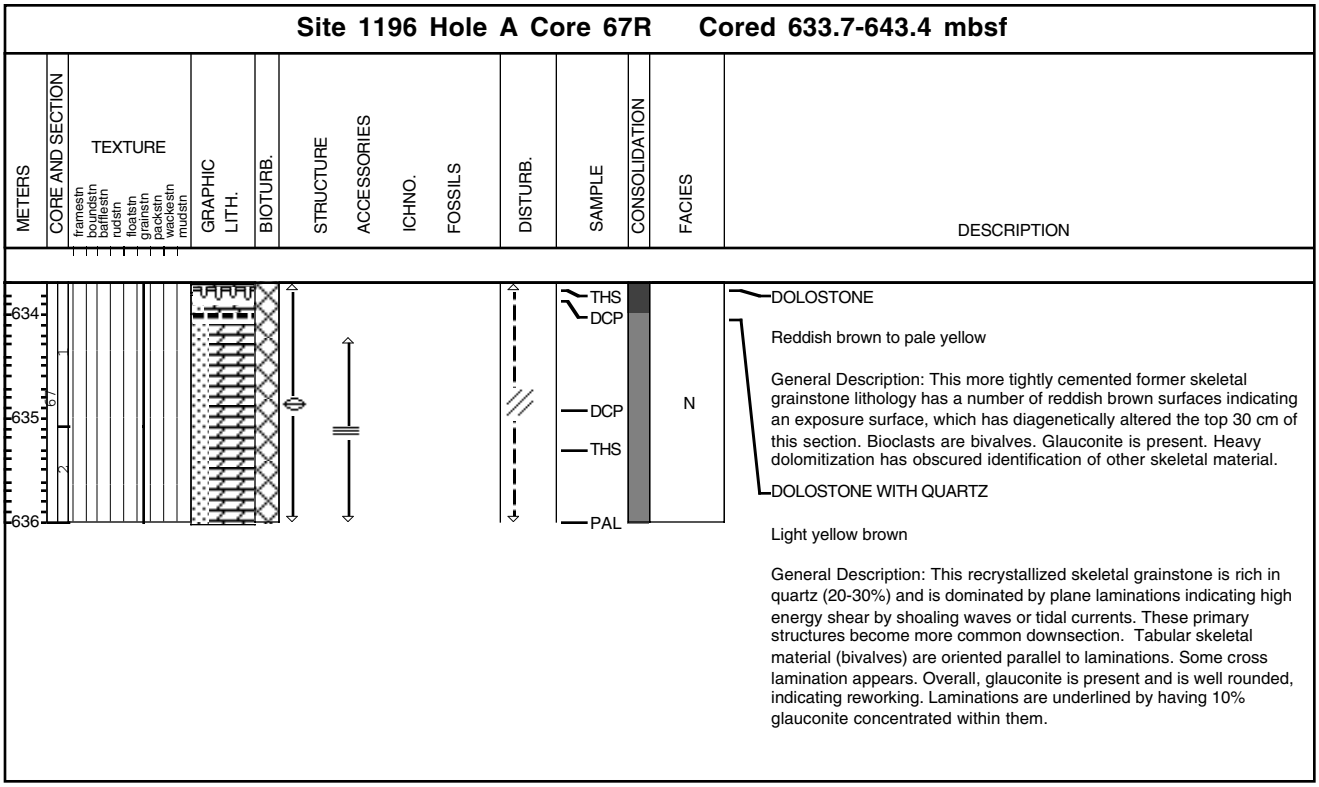
Pale red

General Description: The unit is mottled with dark red. These common darker zone are similar to dolomitized rhodoliths.

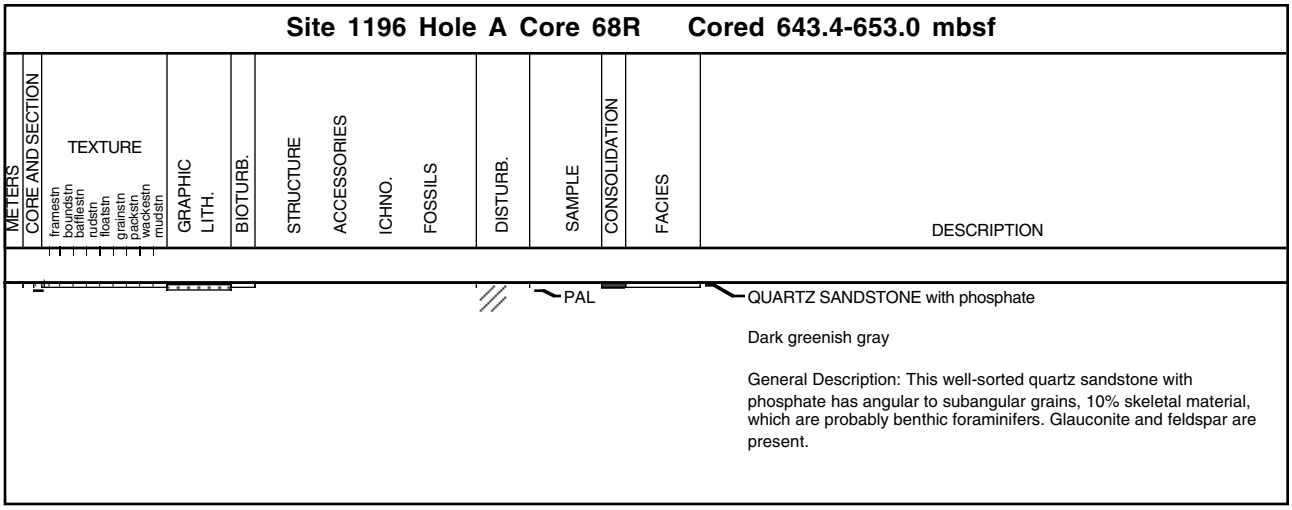
Core Photo


Site 1196 Hole A Core 66R Cored 624.4-633.7 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
625
626
627
628
629
66
1
2
3
4
GI
GI
GI
WRP
DCP
THS
THS
DCP
THS
DCP
PAL
N
DOLOSTONE
Light red and yellow
General Description: The upper part of the core is mostly dolomitized rudstone with variable content of relict rhodolith-like structures, 1-3 cm in diameter and of light red color. Below the uppermost part of section 4, the original texture is a medium-grained, moderately sorted grainstone with layers containing 1-5% rounded lithoclasts of brown (limonitic), very finely crystallized dolostone. Thin layers with minor content of glauconite and quartz sand are present below the upper 25 cm of section 3.

Core Photo

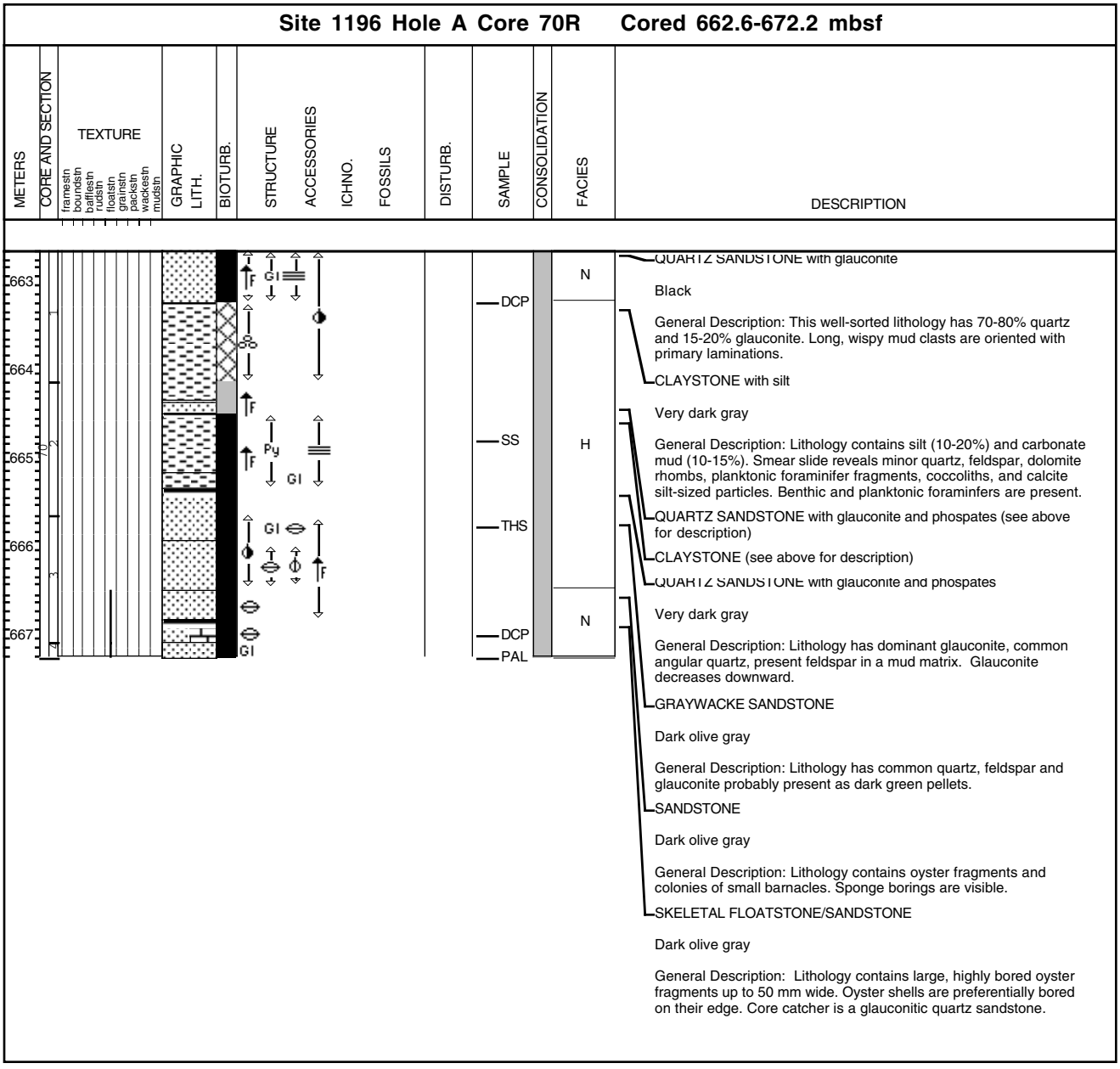

Site 1196 Hole A Core 67R Cored 633.7-643.4 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
634
635
636
67
1
2
THS
DCP
DCP
THS
PAL
N
DOLOSTONE
Reddish brown to pale yellow
General Description: This more tightly cemented former skeletal grainstone lithology has a number of reddish brown surfaces indicating an exposure surface, which has diagenetically altered the top 30 cm of this section. Bioclasts are bivalves. Glauconite is present. Heavy dolomitization has obscured identification of other skeletal material.
DOLOSTONE WITH QUARTZ
Light yellow brown
General Description: This recrystallized skeletal grainstone is rich in quartz (20-30%) and is dominated by plane laminations indicating high energy shear by shoaling waves or tidal currents. These primary structures become more common downsection. Tabular skeletal material (bivalves) are oriented parallel to laminations. Some cross lamination appears. Overall, glauconite is present and is well rounded, indicating reworking. Laminations are underlined by having 10% glauconite concentrated within them.

Core Photo

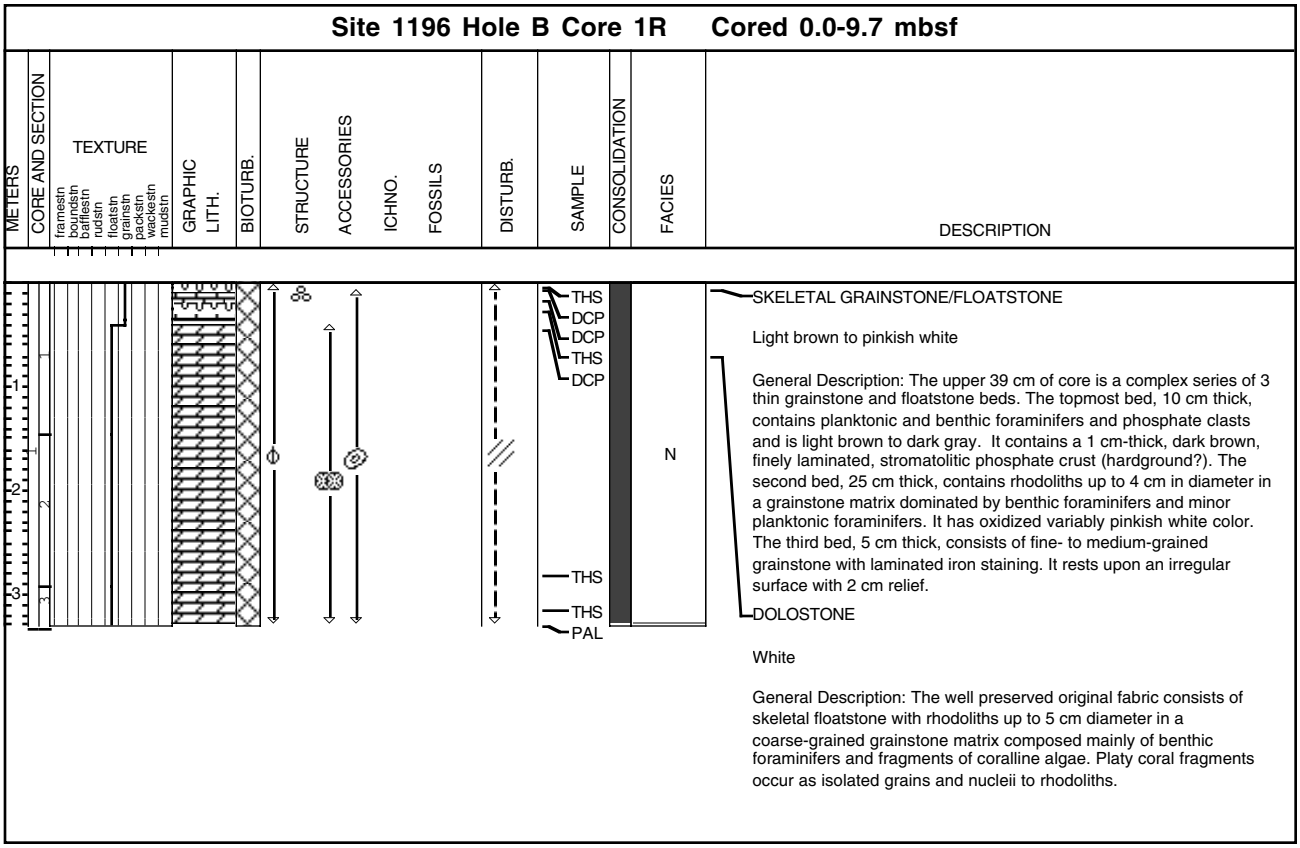


1196A-69R NO RECOVERY

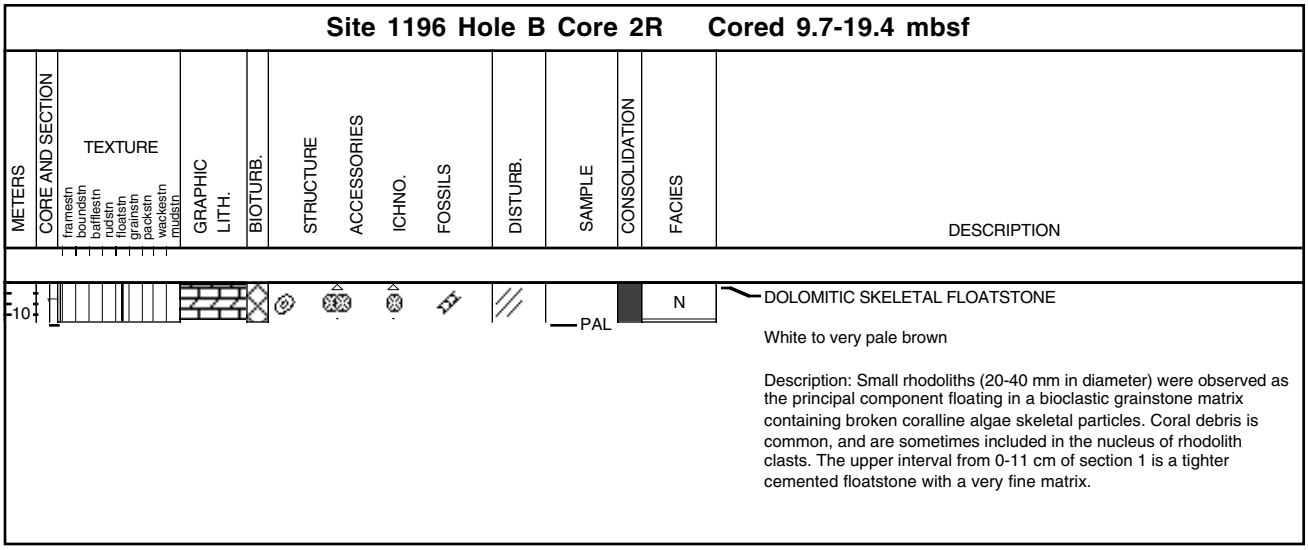
Core Photo


Site 1196 Hole A Core 70R Cored 662.6-672.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
663
664
665
666
667
DCP
SS
THS
DCP
PAL
N
H
N
QUARTZ SANDSTONE with glauconite
Black
General Description: This well-sorted lithology has 70-80% quartz and 15-20% glauconite. Long, wispy mud clasts are oriented with primary laminations.
CLAYSTONE with silt
Very dark gray
General Description: Lithology contains silt (10-20%) and carbonate mud (10-15%). Smear slide reveals minor quartz, feldspar, dolomite rhombs, planktonic foraminifer fragments, coccoliths, and calcite silt-sized particles. Benthic and planktonic foraminfers are present.
QUARTZ SANDSTONE with glauconite and phospates (see above for description)
CLAYSTONE (see above for description)
QUARTZ SANDSTONE with glauconite and phospates
Very dark gray
General Description: Lithology has dominant glauconite, common angular quartz, present feldspar in a mud matrix. Glauconite decreases downward.
GRAYWACKE SANDSTONE
Dark olive gray
General Description: Lithology has common quartz, feldspar and glauconite probably present as dark green pellets.
SANDSTONE
Dark olive gray
General Description: Lithology contains oyster fragments and colonies of small barnacles. Sponge borings are visible.
SKELETAL FLOATSTONE/SANDSTONE
Dark olive gray
General Description: Lithology contains large, highly bored oyster fragments up to 50 mm wide. Oyster shells are preferentially bored on their edge. Core catcher is a glauconitic quartz sandstone.

Core Photo

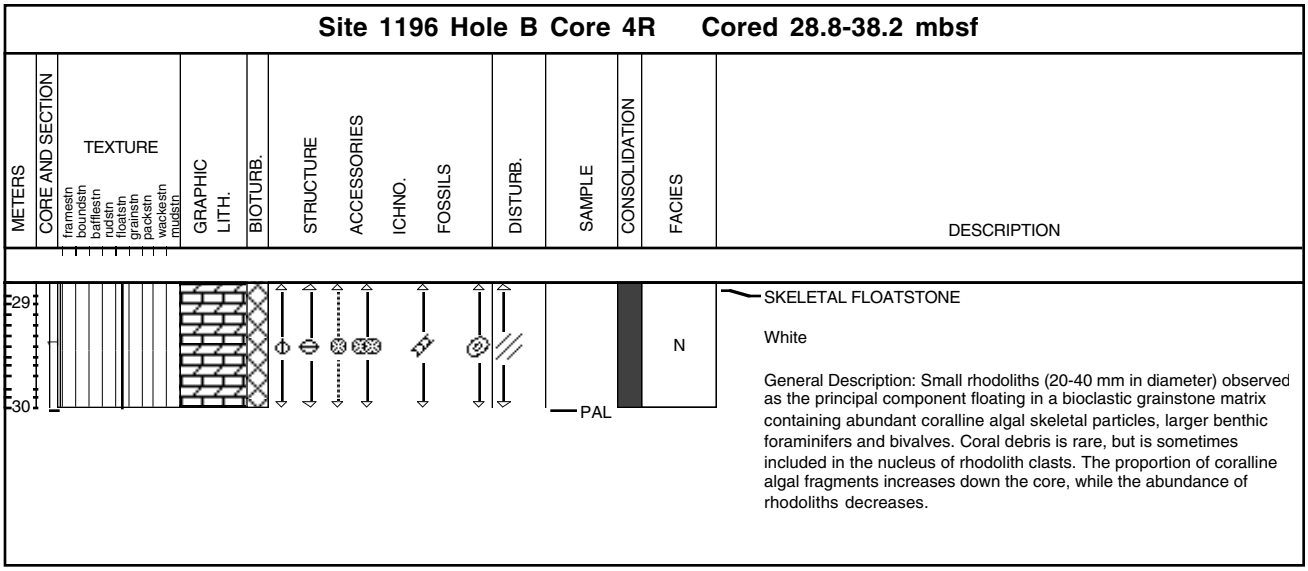

Site 1196 Hole B Core 1R Cored 0.0-9.7 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
oidstn
floatstn
rudstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
THS
DCP
DCP
THS
DCP
N
THS
THS
PAL
SKELETAL GRAINSTONE/FLOATSTONE
Light brown to pinkish white
General Description: The upper 39 cm of core is a complex series of 3 thin grainstone and floatstone beds. The topmost bed, 10 cm thick, contains planktonic and benthic foraminifers and phosphate clasts and is light brown to dark gray. It contains a 1 cm-thick, dark brown, finely laminated, stromatolitic phosphate crust (hardground?). The second bed, 25 cm thick, contains rhodoliths up to 4 cm in diameter in a grainstone matrix dominated by benthic foraminifers and minor planktonic foraminifers. It has oxidized variably pinkish white color. The third bed, 5 cm thick, consists of fine- to medium-grained grainstone with laminated iron staining. It rests upon an irregular surface with 2 cm relief.
DOLOSTONE
White
General Description: The well preserved original fabric consists of skeletal floatstone with rhodoliths up to 5 cm diameter in a coarse-grained grainstone matrix composed mainly of benthic foraminifers and fragments of coralline algae. Platy coral fragments occur as isolated grains and nucleii to rhodoliths.

Core Photo

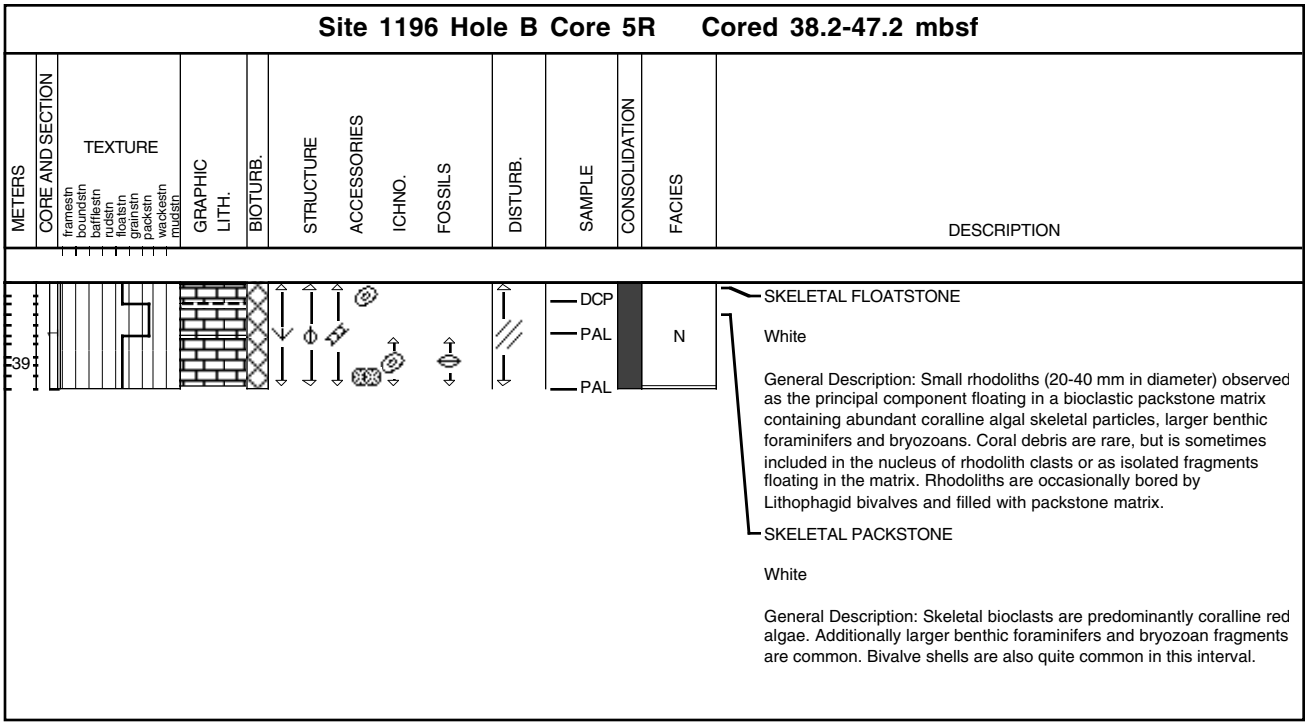


1196B-3R ENTIRE CORE TO PALEONTOLOGISTS

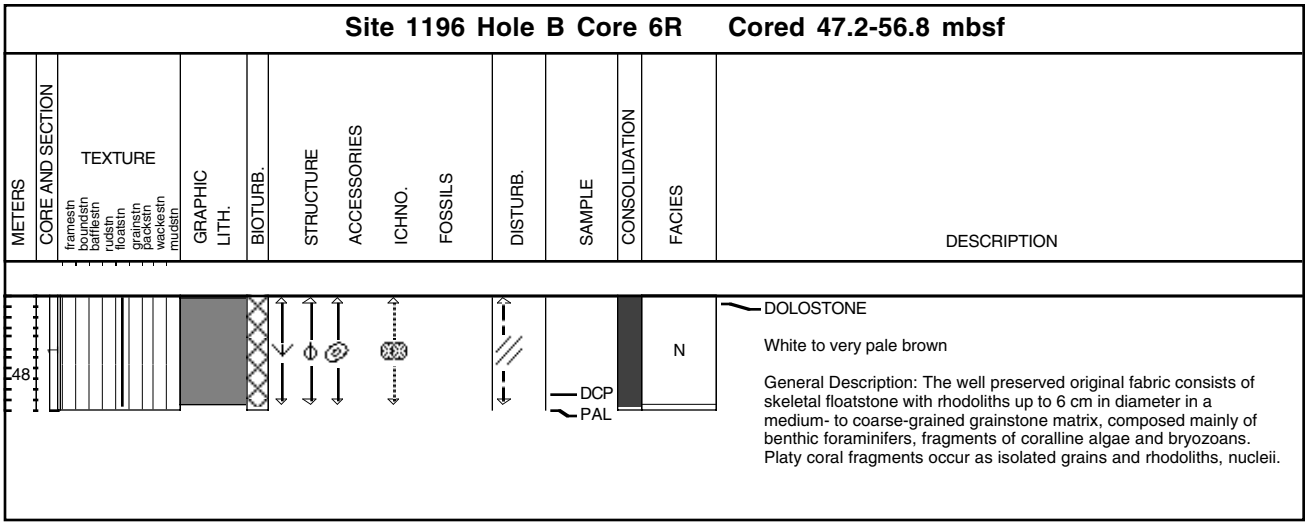
Core Photo


Site 1196 Hole B Core 4R Cored 28.8-38.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
29
30
PAL
N
SKELETAL FLOATSTONE
White
General Description: Small rhodoliths (20-40 mm in diameter) observed as the principal component floating in a bioclastic grainstone matrix containing abundant coralline algal skeletal particles, larger benthic foraminifers and bivalves. Coral debris is rare, but is sometimes included in the nucleus of rhodolith clasts. The proportion of coralline algal fragments increases down the core, while the abundance of rhodoliths decreases.

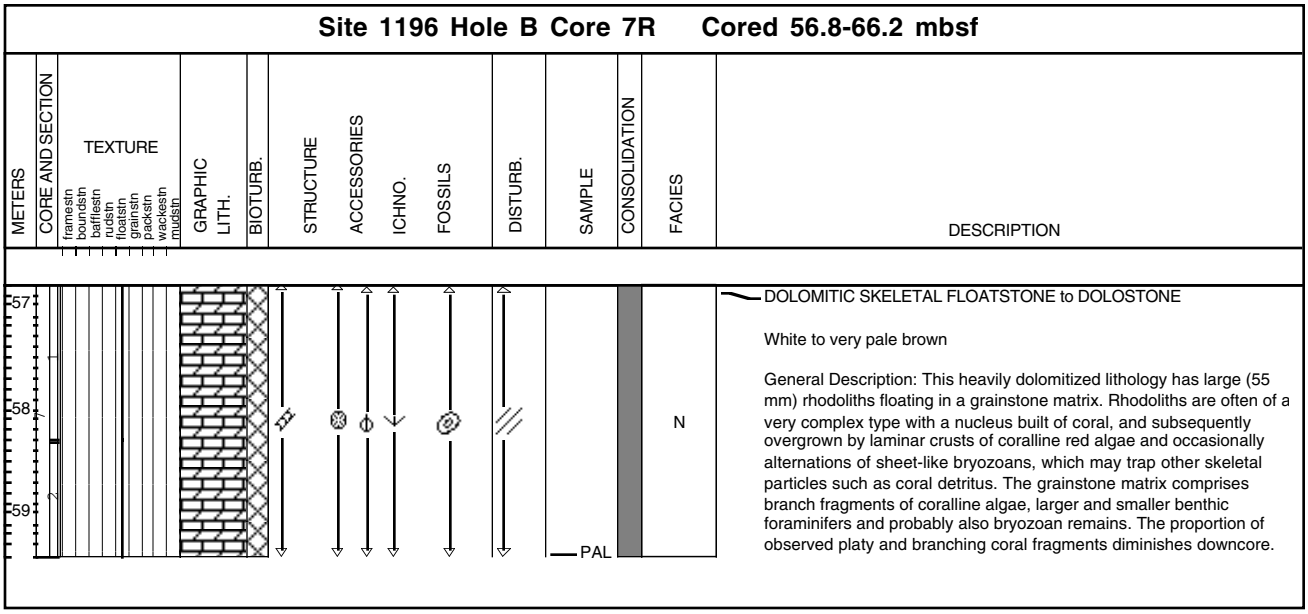
Core Photo


Site 1196 Hole B Core 5R Cored 38.2-47.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
39
DCP
PAL
PAL
N
SKELETAL FLOATSTONE
White
General Description: Small rhodoliths (20-40 mm in diameter) observed as the principal component floating in a bioclastic packstone matrix containing abundant coralline algal skeletal particles, larger benthic foraminifers and bryozoans. Coral debris are rare, but is sometimes included in the nucleus of rhodolith clasts or as isolated fragments floating in the matrix. Rhodoliths are occasionally bored by Lithophagid bivalves and filled with packstone matrix.
SKELETAL PACKSTONE
White
General Description: Skeletal bioclasts are predominantly coralline red algae. Additionally larger benthic foraminifers and bryozoan fragments are common. Bivalve shells are also quite common in this interval.

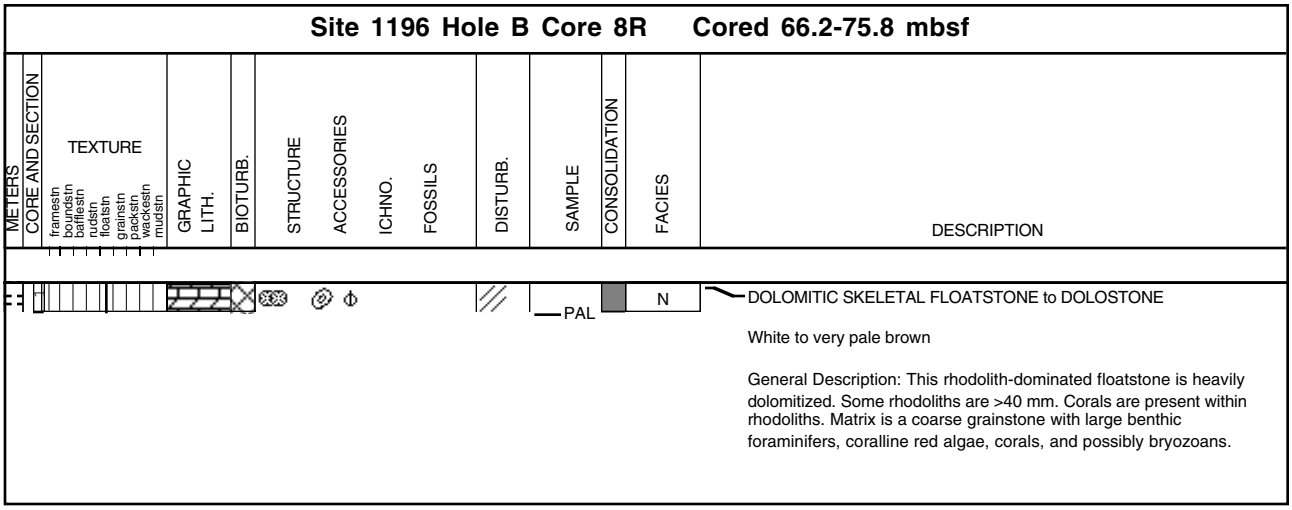
Core Photo


Site 1196 Hole B Core 6R Cored 47.2-56.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
48
DCP
PAL
N
DOLOSTONE
White to very pale brown
General Description: The well preserved original fabric consists of skeletal floatstone with rhodoliths up to 6 cm in diameter in a medium- to coarse-grained grainstone matrix, composed mainly of benthic foraminifers, fragments of coralline algae and bryozoans. Platy coral fragments occur as isolated grains and rhodoliths, nucleii.

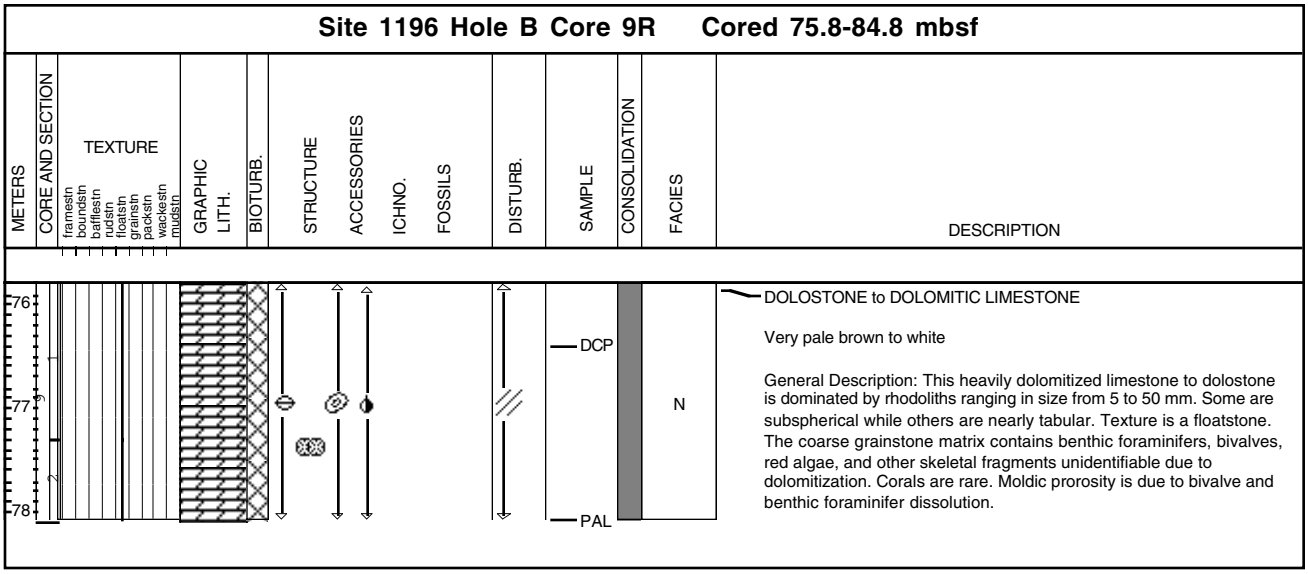
Core Photo


Site 1196 Hole B Core 7R Cored 56.8-66.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
57
58
59
PAL
N
DOLOMITIC SKELETAL FLOATSTONE to DOLOSTONE
White to very pale brown
General Description: This heavily dolomitized lithology has large (55 mm) rhodoliths floating in a grainstone matrix. Rhodoliths are often of a very complex type with a nucleus built of coral, and subsequently overgrown by laminar crusts of coralline red algae and occasionally alternations of sheet-like bryozoans, which may trap other skeletal particles such as coral detritus. The grainstone matrix comprises branch fragments of coralline algae, larger and smaller benthic foraminifers and probably also bryozoan remains. The proportion of observed platy and branching coral fragments diminishes downcore.

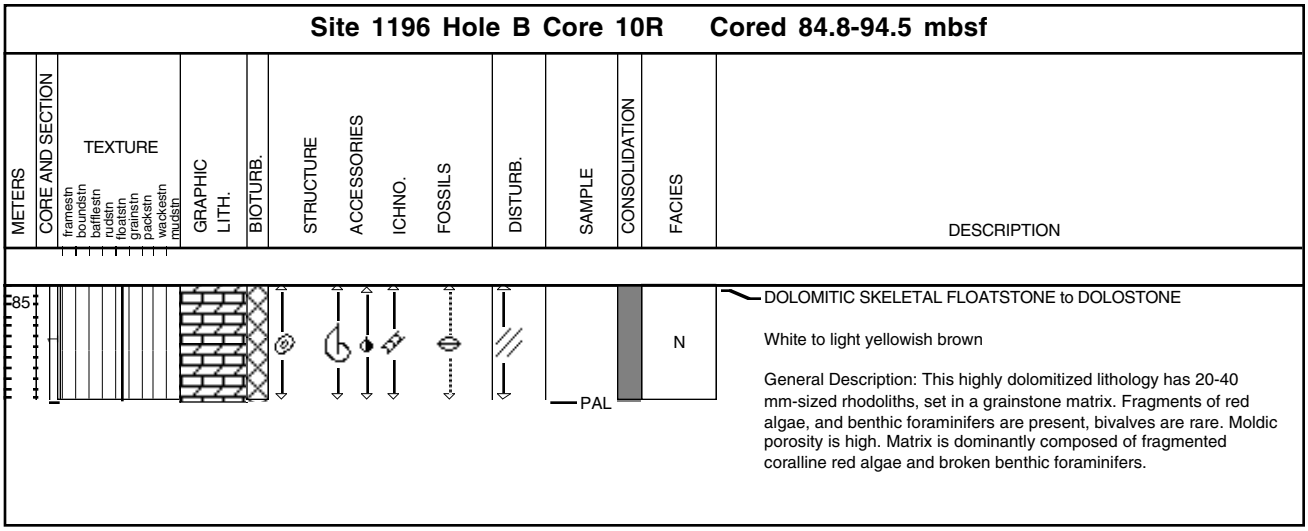
Core Photo


Site 1196 Hole B Core 8R Cored 66.2-75.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
DOLOMITIC SKELETAL FLOATSTONE to DOLOSTONE
White to very pale brown
General Description: This rhodolith-dominated floatstone is heavily dolomitized. Some rhodoliths are >40 mm. Corals are present within rhodoliths. Matrix is a coarse grainstone with large benthic foraminifers, coralline red algae, corals, and possibly bryozoans.

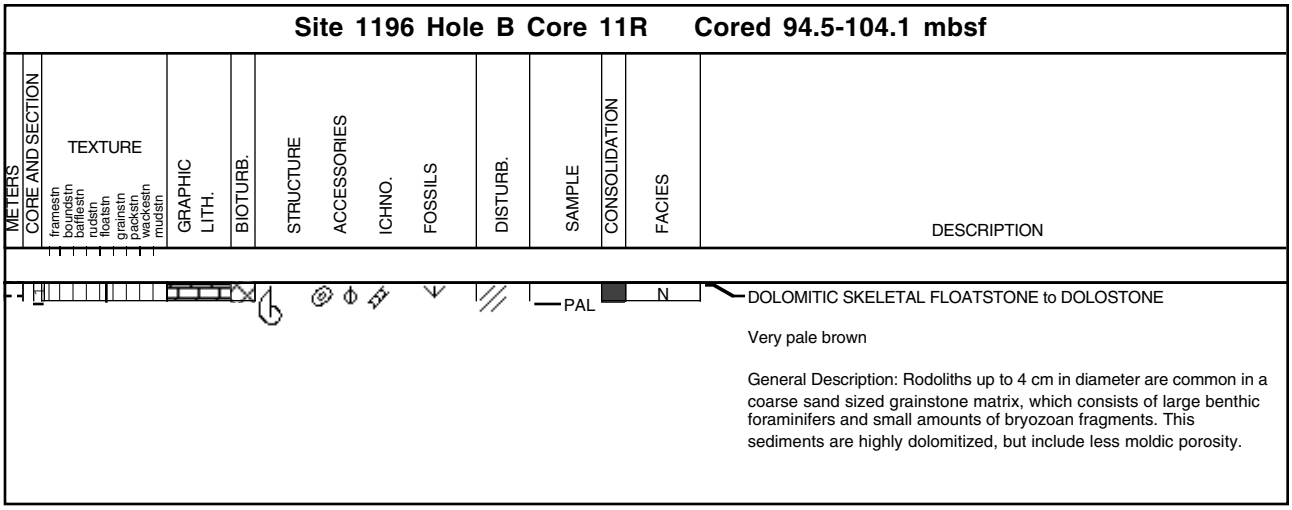
Core Photo


Site 1196 Hole B Core 9R Cored 75.8-84.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
76
77
78
DCP
PAL
N
DOLOSTONE to DOLOMITIC LIMESTONE
Very pale brown to white
General Description: This heavily dolomitized limestone to dolostone is dominated by rhodoliths ranging in size from 5 to 50 mm. Some are subspherical while others are nearly tabular. Texture is a floatstone. The coarse grainstone matrix contains benthic foraminifers, bivalves, red algae, and other skeletal fragments unidentifiable due to dolomitization. Corals are rare. Moldic prorosity is due to bivalve and benthic foraminifer dissolution.

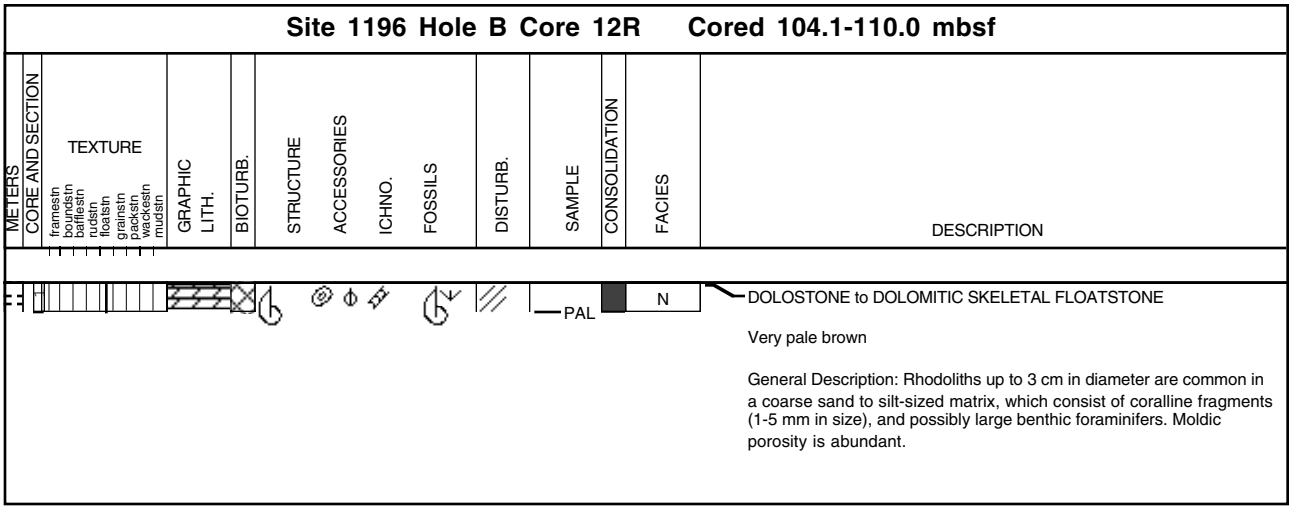
Core Photo


Site 1196 Hole B Core 10R Cored 84.8-94.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
85
PAL
N
DOLOMITIC SKELETAL FLOATSTONE to DOLOSTONE
White to light yellowish brown
General Description: This highly dolomitized lithology has 20-40 mm-sized rhodoliths, set in a grainstone matrix. Fragments of red algae, and benthic foraminifers are present, bivalves are rare. Moldic porosity is high. Matrix is dominantly composed of fragmented coralline red algae and broken benthic foraminifers.

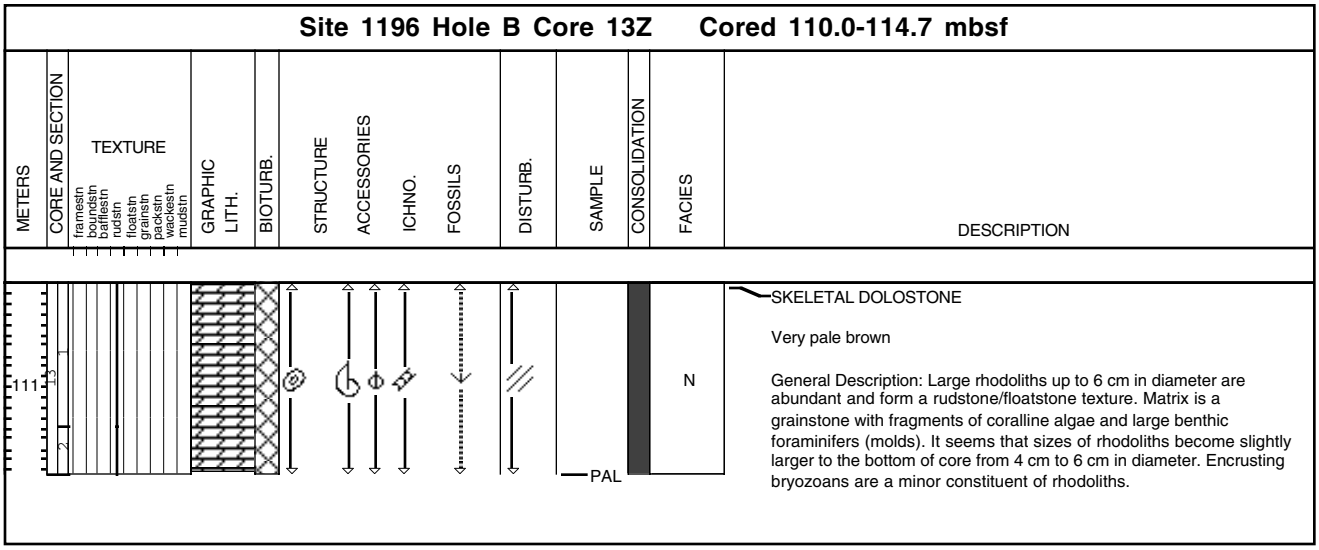
Core Photo


Site 1196 Hole B Core 11R Cored 94.5-104.1 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
DOLOMITIC SKELETAL FLOATSTONE to DOLOSTONE
Very pale brown
General Description: Rodoliths up to 4 cm in diameter are common in a coarse sand sized grainstone matrix, which consists of large benthic foraminifers and small amounts of bryozoan fragments. This sediments are highly dolomitized, but include less moldic porosity.

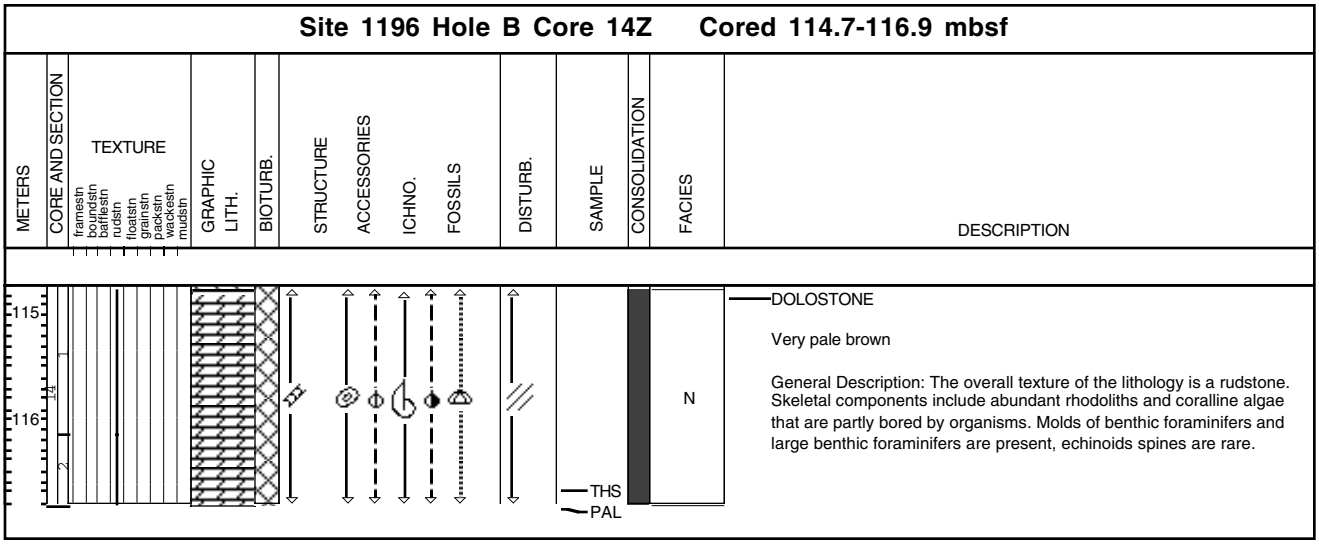
Core Photo


Site 1196 Hole B Core 12R Cored 104.1-110.0 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
DOLOSTONE to DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Rhodoliths up to 3 cm in diameter are common in a coarse sand to silt-sized matrix, which consist of coralline fragments (1-5 mm in size), and possibly large benthic foraminifers. Moldic porosity is abundant.

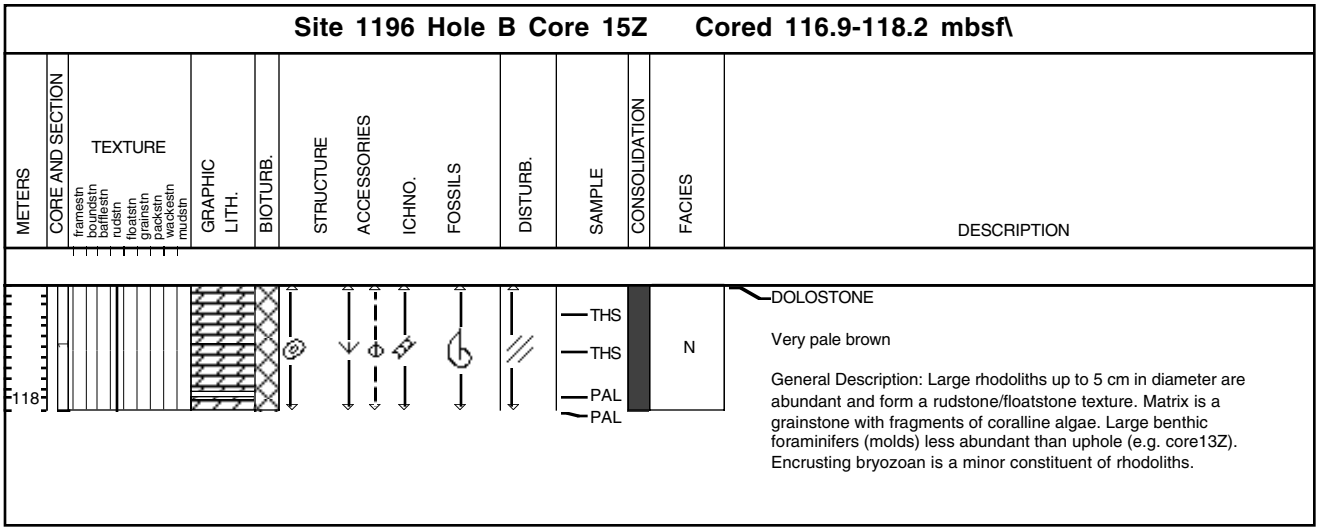
Core Photo


Site 1196 Hole B Core 13Z Cored 110.0-114.7 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
111
13
1
2
PAL
N
SKELETAL DOLOSTONE
Very pale brown
General Description: Large rhodoliths up to 6 cm in diameter are abundant and form a rudstone/floatstone texture. Matrix is a grainstone with fragments of coralline algae and large benthic foraminifers (molds). It seems that sizes of rhodoliths become slightly larger to the bottom of core from 4 cm to 6 cm in diameter. Encrusting bryozoans are a minor constituent of rhodoliths.

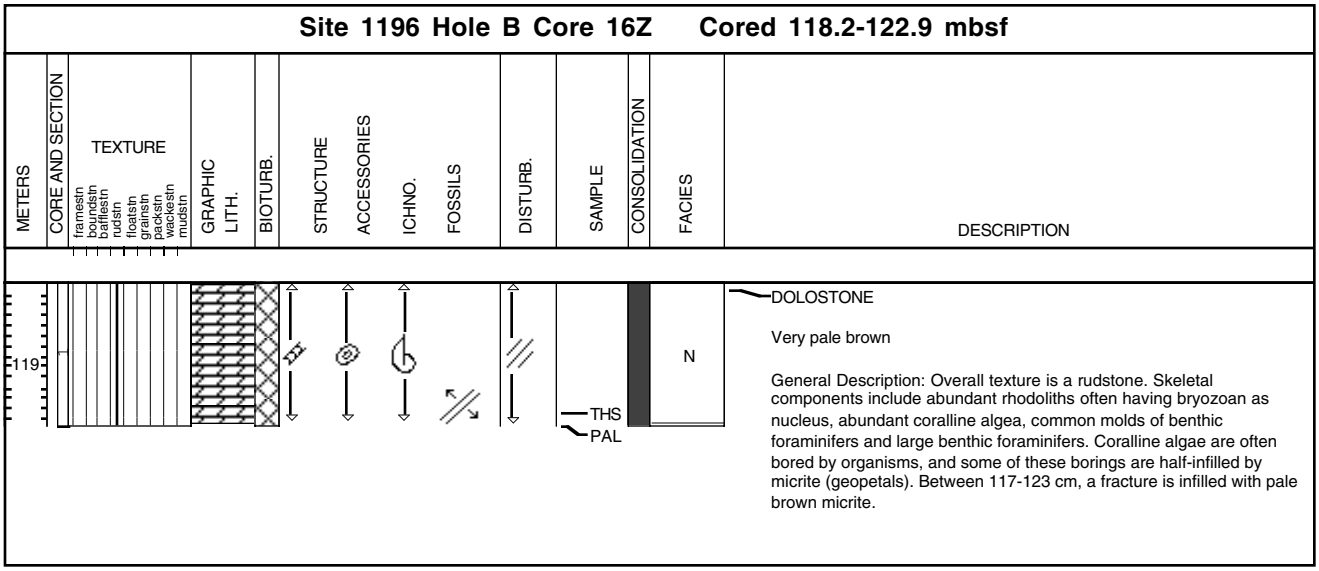
Core Photo


Site 1196 Hole B Core 14Z Cored 114.7-116.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
115
116
14
1
2
THS
PAL
N
DOLOSTONE
Very pale brown
General Description: The overall texture of the lithology is a rudstone. Skeletal components include abundant rhodoliths and coralline algae that are partly bored by organisms. Molds of benthic foraminifers and large benthic foraminifers are present, echinoids spines are rare.

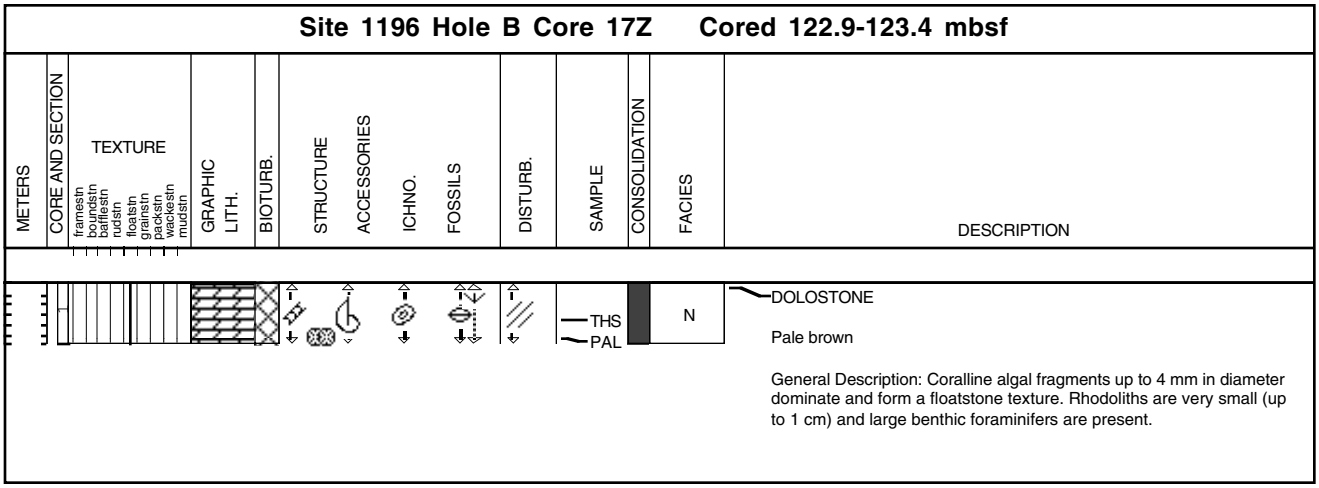
Core Photo


Site 1196 Hole B Core 15Z Cored 116.9-118.2 mbsf\
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
118
THS
THS
PAL
PAL
N
DOLOSTONE
Very pale brown
General Description: Large rhodoliths up to 5 cm in diameter are abundant and form a rudstone/floatstone texture. Matrix is a grainstone with fragments of coralline algae. Large benthic foraminifers (molds) less abundant than uphole (e.g. core13Z). Encrusting bryozoan is a minor constituent of rhodoliths.

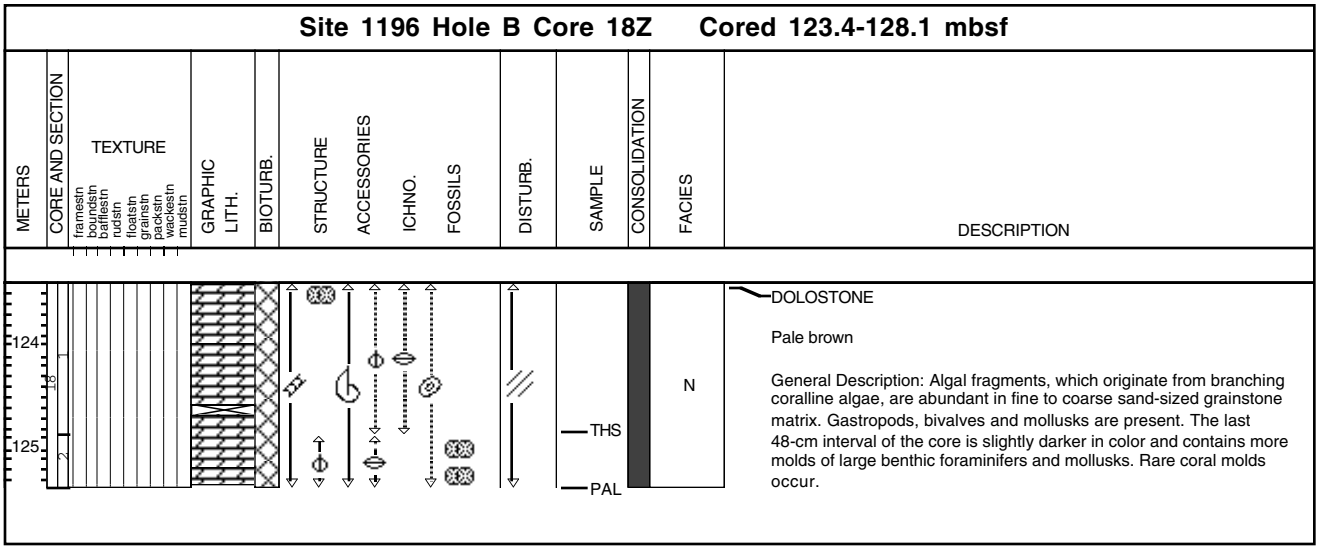
Core Photo


Site 1196 Hole B Core 16Z Cored 118.2-122.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
119
THS
PAL
N
DOLOSTONE
Very pale brown
General Description: Overall texture is a rudstone. Skeletal components include abundant rhodoliths often having bryozoan as nucleus, abundant coralline algea, common molds of benthic foraminifers and large benthic foraminifers. Coralline algae are often bored by organisms, and some of these borings are half-infilled by micrite (geopetals). Between 117-123 cm, a fracture is infilled with pale brown micrite.

Core Photo

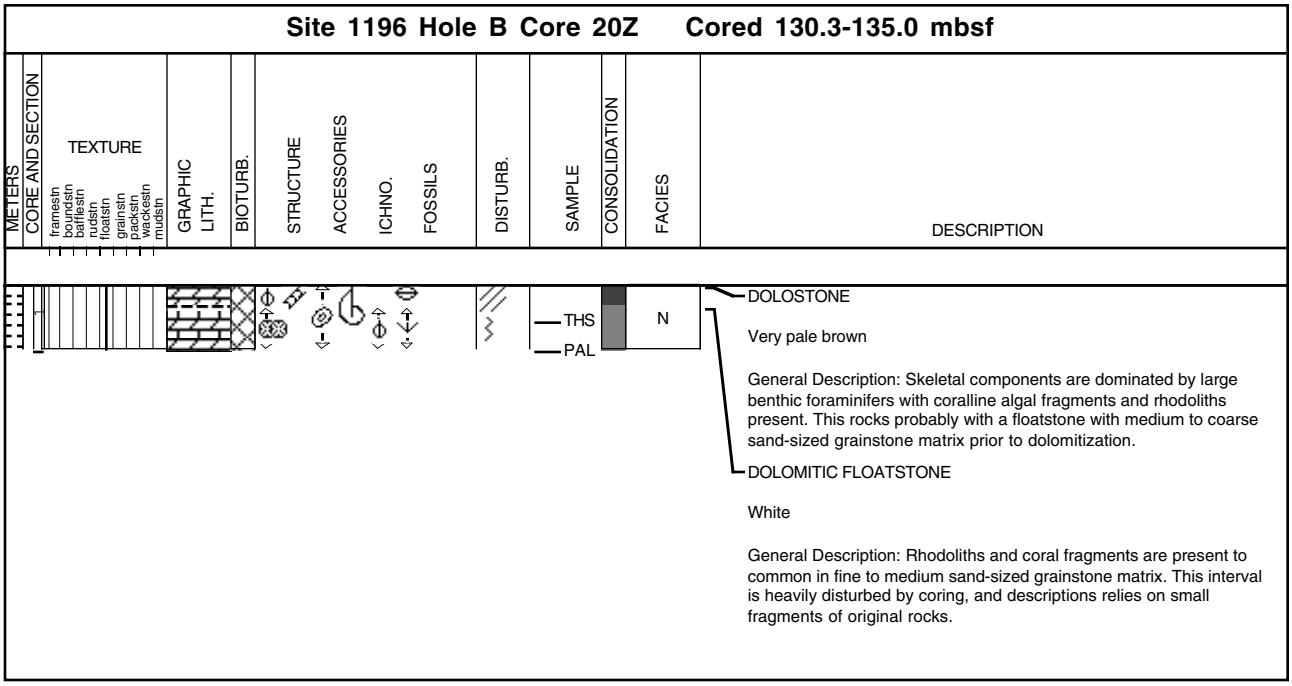

Site 1196 Hole B Core 17Z Cored 122.9-123.4 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
THS
PAL
N
DOLOSTONE
Pale brown
General Description: Coralline algal fragments up to 4 mm in diameter dominate and form a floatstone texture. Rhodoliths are very small (up to 1 cm) and large benthic foraminifers are present.

Core Photo



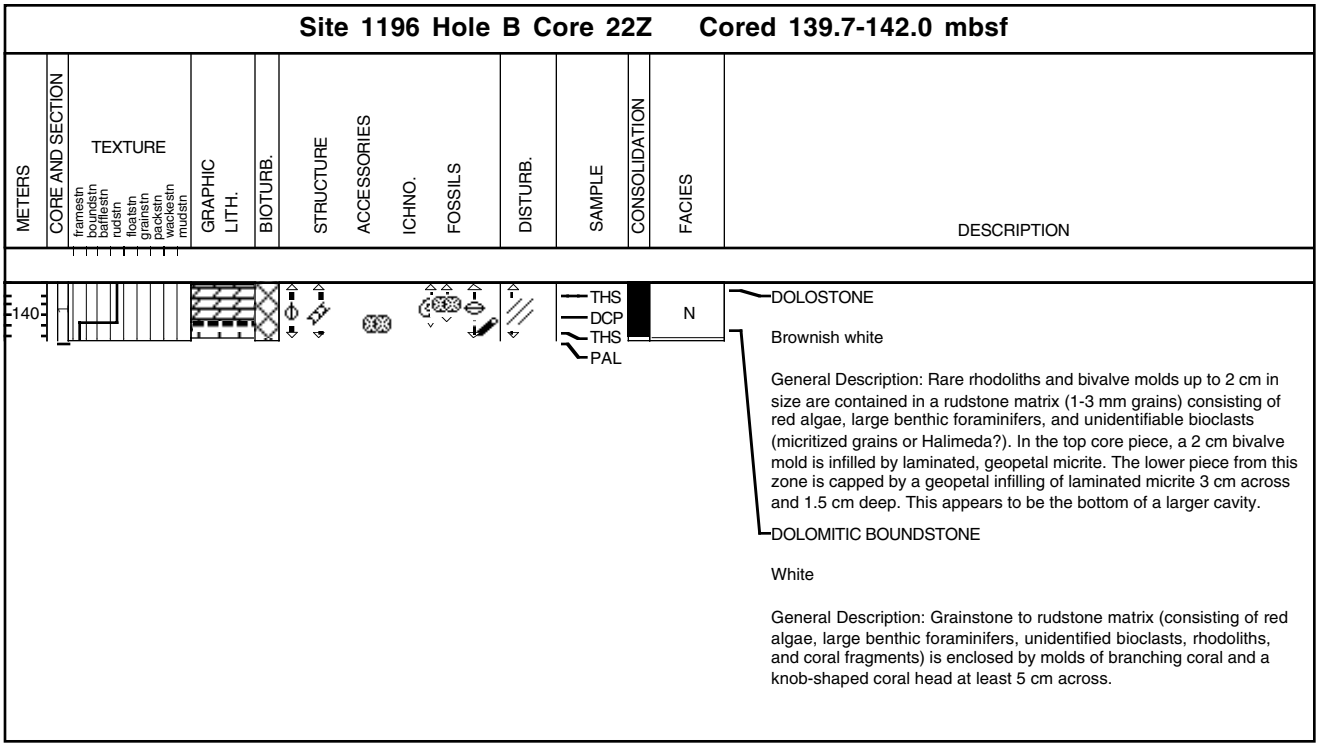
1196B-19Z NO RECOVERY

Core Photo



1196B-21Z NO RECOVERY

Core Photo

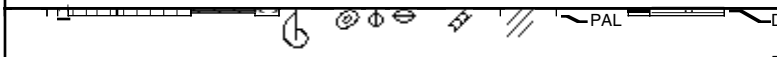


1196B-23Z NO RECOVERY

Core Photo

Site 1196 Hole B Core 24Z Cored 145.0-149.7 mbsf

METERS | CORE AND SECTION | TEXTURE (framestn, boundstn, baffiestn, rudstn, floatstn, grainstn, packstn, wackestn, mudstn) | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | CONSOLIDATION | FACIES | DESCRIPTION

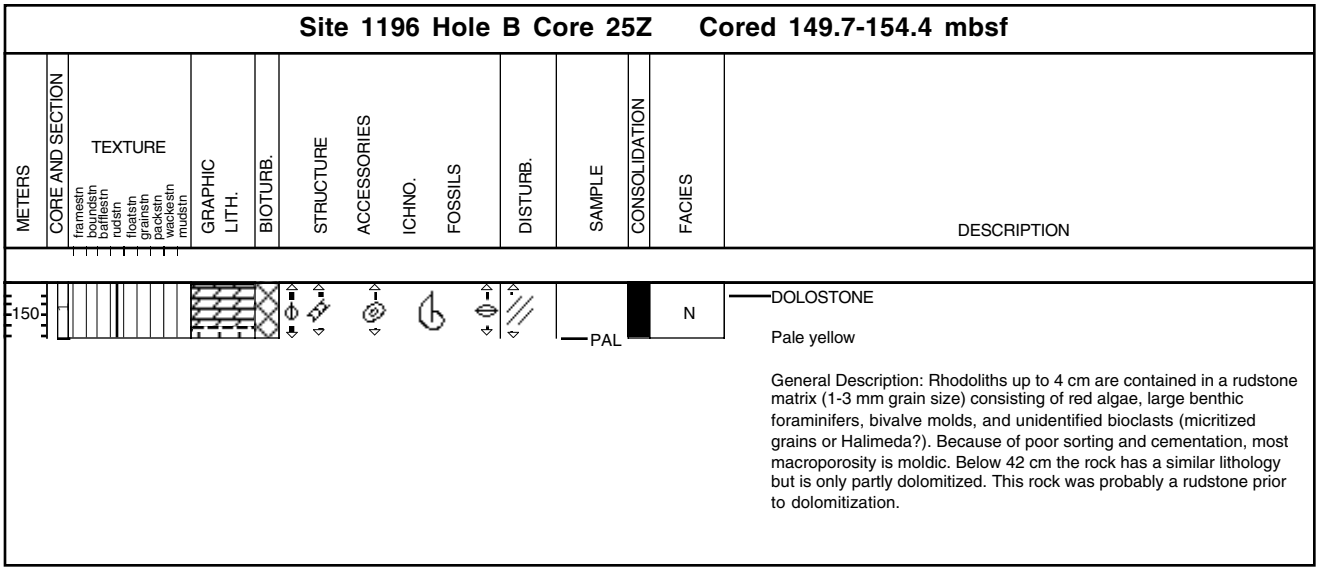


DOLOSTONE

Pale yellow

General Description: Rhodoliths up to 4 cm in size are contained in a rudstone matrix (1-3 mm grain size) consisting of red algae, large benthic foraminifers, bivalve molds, and unidentifiable bioclasts (micritized grains or Halimeda?). This rock was probably a rudstone prior to dolomitization.

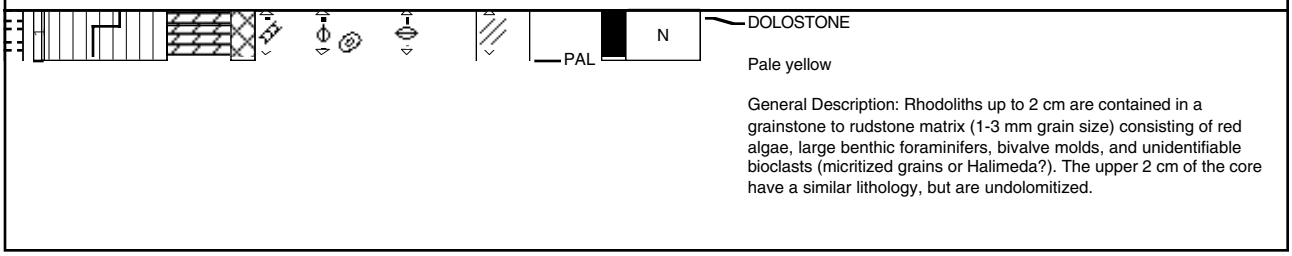
Core Photo



1196B-26Z NO RECOVERY

Core Photo

Site 1196 Hole B Core 27Z Cored 159.1-163.8 mbsf

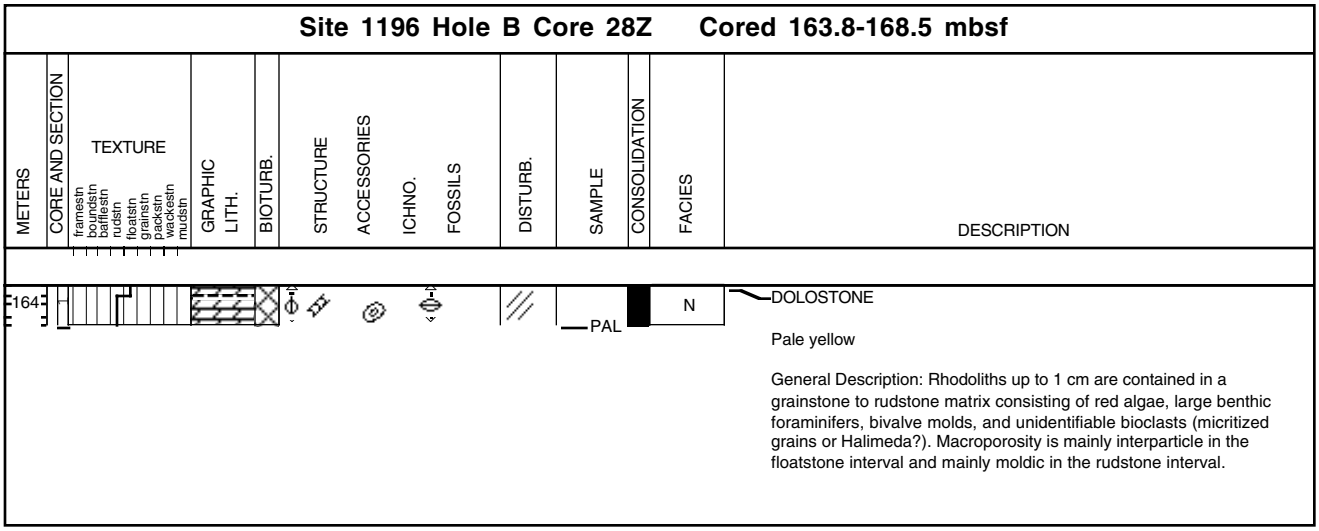


DOLOSTONE

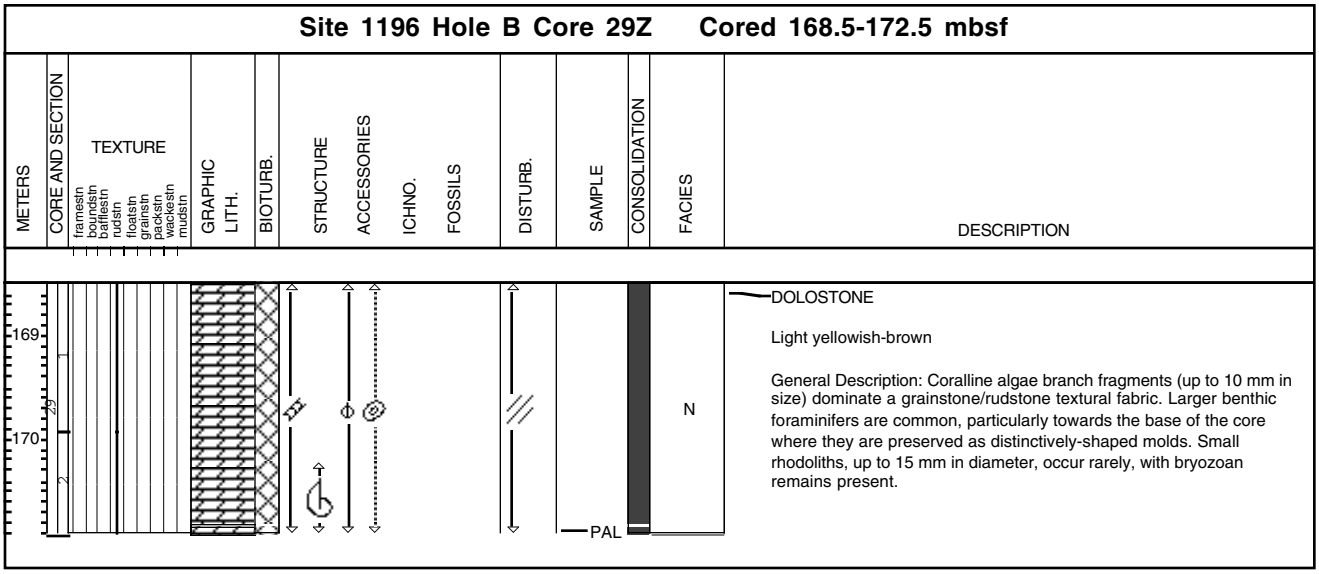
Pale yellow

General Description: Rhodoliths up to 2 cm are contained in a grainstone to rudstone matrix (1-3 mm grain size) consisting of red algae, large benthic foraminifers, bivalve molds, and unidentifiable bioclasts (micritized grains or Halimeda?). The upper 2 cm of the core have a similar lithology, but are undolomitized.

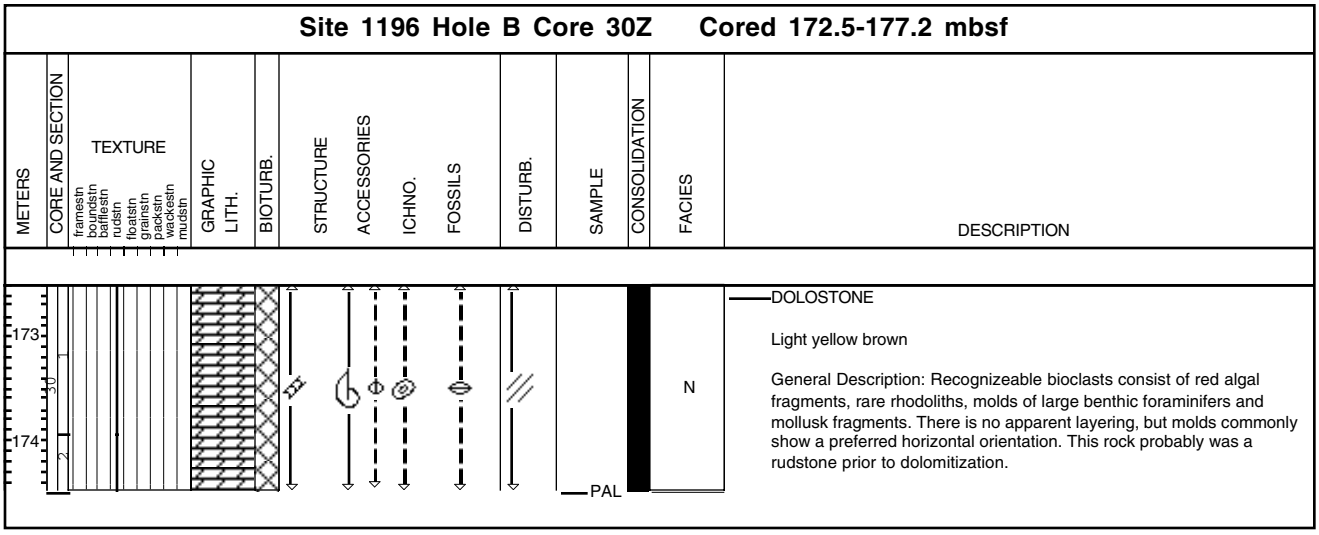
Core Photo


Site 1196 Hole B Core 28Z Cored 163.8-168.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
164
PAL
N
DOLOSTONE
Pale yellow
General Description: Rhodoliths up to 1 cm are contained in a grainstone to rudstone matrix consisting of red algae, large benthic foraminifers, bivalve molds, and unidentifiable bioclasts (micritized grains or Halimeda?). Macroporosity is mainly interparticle in the floatstone interval and mainly moldic in the rudstone interval.

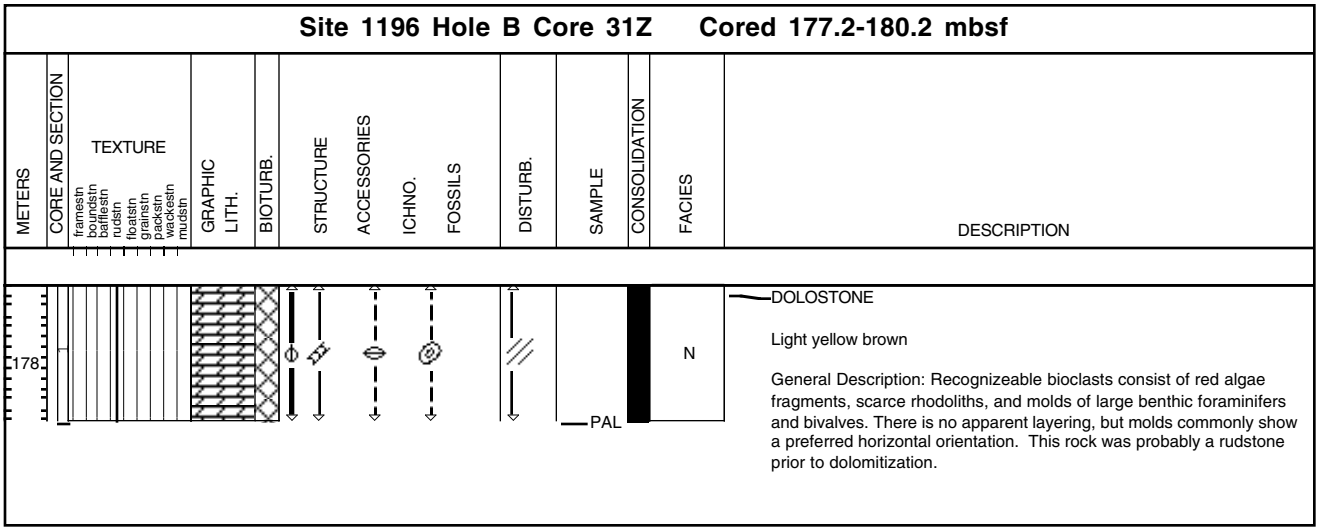
Core Photo


Site 1196 Hole B Core 29Z Cored 168.5-172.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
169
170
29
1
2
PAL
N
DOLOSTONE
Light yellowish-brown
General Description: Coralline algae branch fragments (up to 10 mm in size) dominate a grainstone/rudstone textural fabric. Larger benthic foraminifers are common, particularly towards the base of the core where they are preserved as distinctively-shaped molds. Small rhodoliths, up to 15 mm in diameter, occur rarely, with bryozoan remains present.

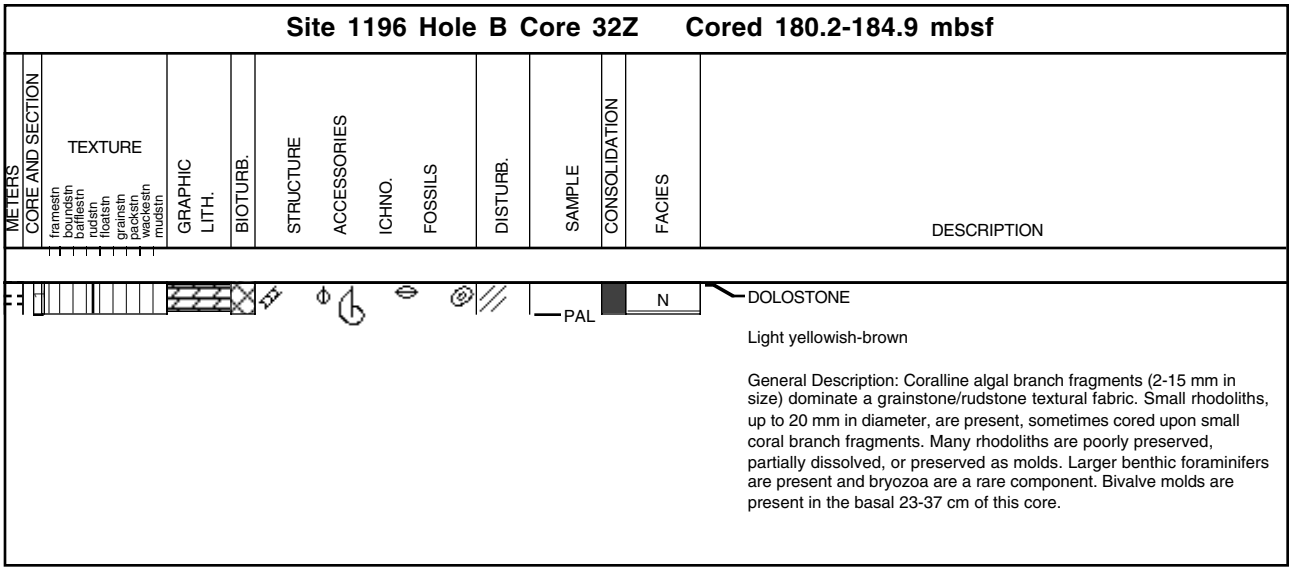
Core Photo


Site 1196 Hole B Core 30Z Cored 172.5-177.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
173
174
30
1
2
PAL
N
DOLOSTONE
Light yellow brown
General Description: Recognizeable bioclasts consist of red algal fragments, rare rhodoliths, molds of large benthic foraminifers and mollusk fragments. There is no apparent layering, but molds commonly show a preferred horizontal orientation. This rock probably was a rudstone prior to dolomitization.

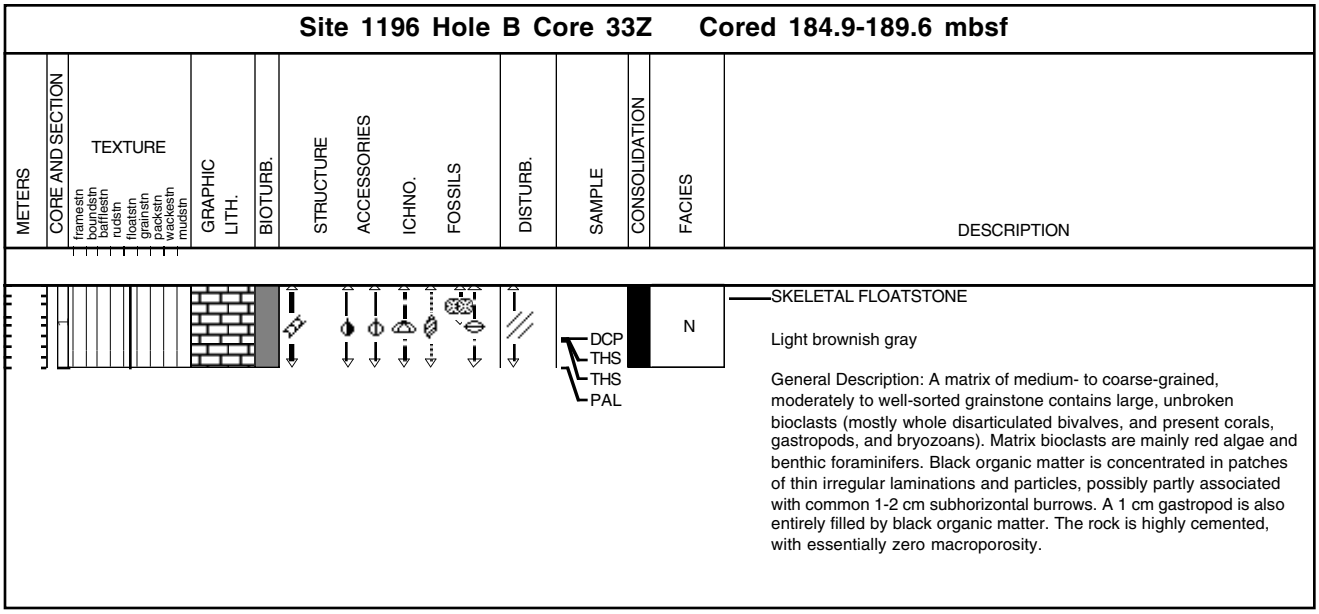
Core Photo


Site 1196 Hole B Core 31Z Cored 177.2-180.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
178
PAL
N
DOLOSTONE
Light yellow brown
General Description: Recognizeable bioclasts consist of red algae fragments, scarce rhodoliths, and molds of large benthic foraminifers and bivalves. There is no apparent layering, but molds commonly show a preferred horizontal orientation. This rock was probably a rudstone prior to dolomitization.

Core Photo

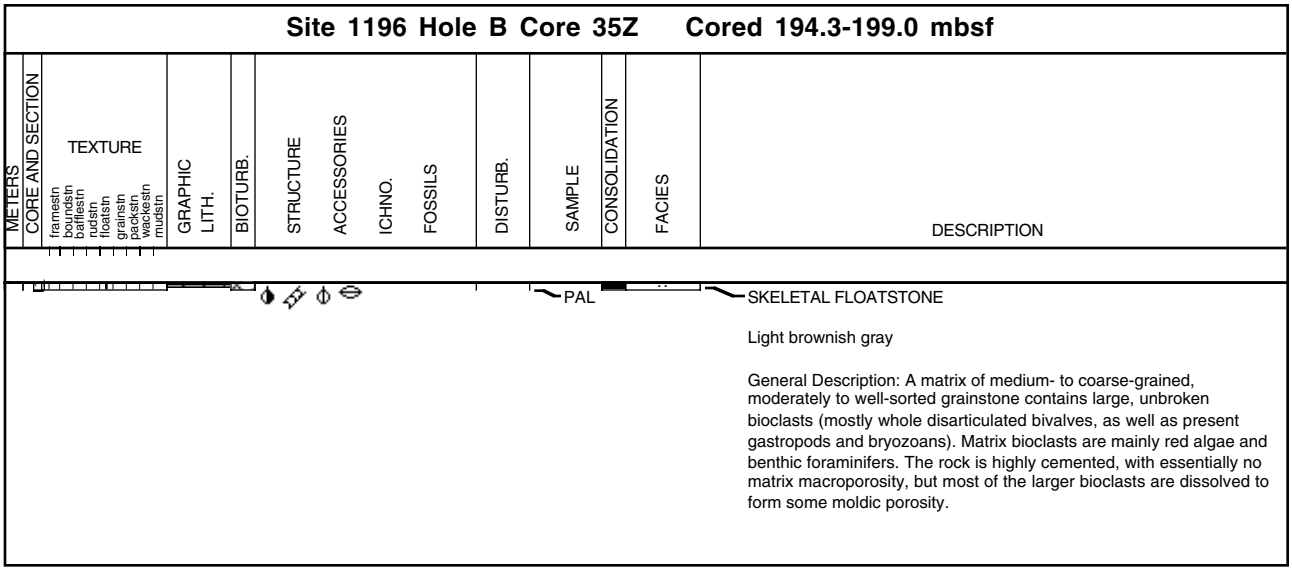

Site 1196 Hole B Core 32Z Cored 180.2-184.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
DOLOSTONE
Light yellowish-brown
General Description: Coralline algal branch fragments (2-15 mm in size) dominate a grainstone/rudstone textural fabric. Small rhodoliths, up to 20 mm in diameter, are present, sometimes cored upon small coral branch fragments. Many rhodoliths are poorly preserved, partially dissolved, or preserved as molds. Larger benthic foraminifers are present and bryozoa are a rare component. Bivalve molds are present in the basal 23-37 cm of this core.

Core Photo

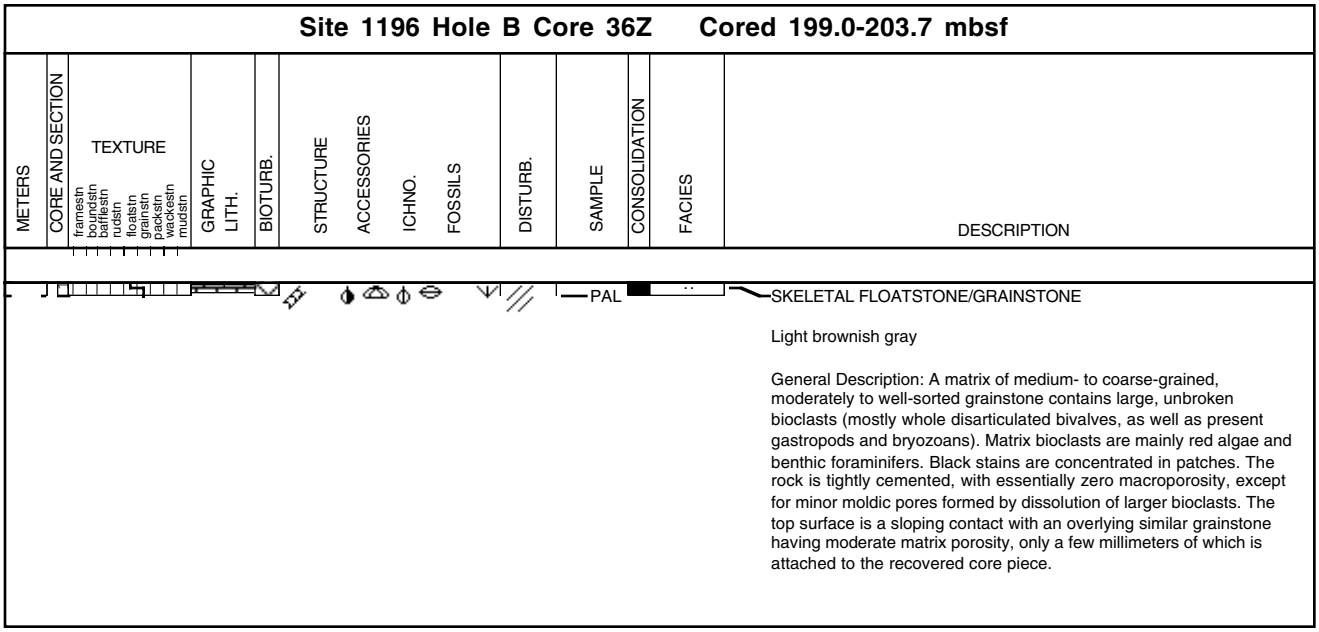


1196B-34Z NO RECOVERY

Core Photo

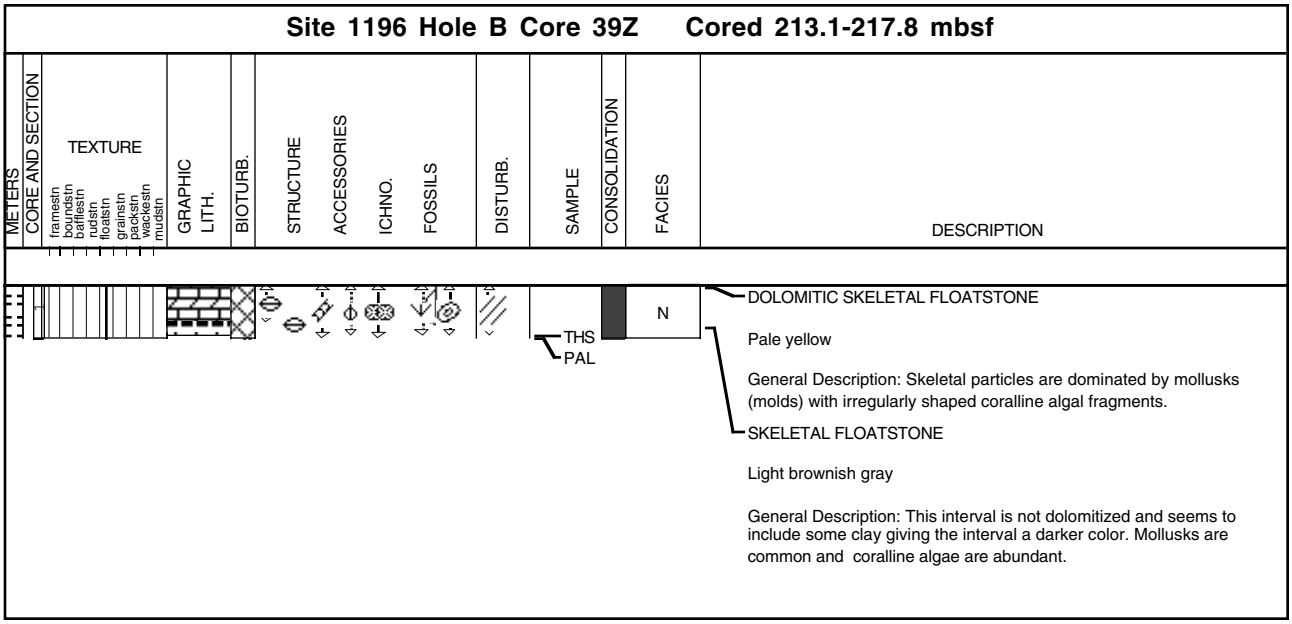

Site 1196 Hole B Core 35Z Cored 194.3-199.0 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
SKELETAL FLOATSTONE
Light brownish gray
General Description: A matrix of medium- to coarse-grained, moderately to well-sorted grainstone contains large, unbroken bioclasts (mostly whole disarticulated bivalves, as well as present gastropods and bryozoans). Matrix bioclasts are mainly red algae and benthic foraminifers. The rock is highly cemented, with essentially no matrix macroporosity, but most of the larger bioclasts are dissolved to form some moldic porosity.

Core Photo

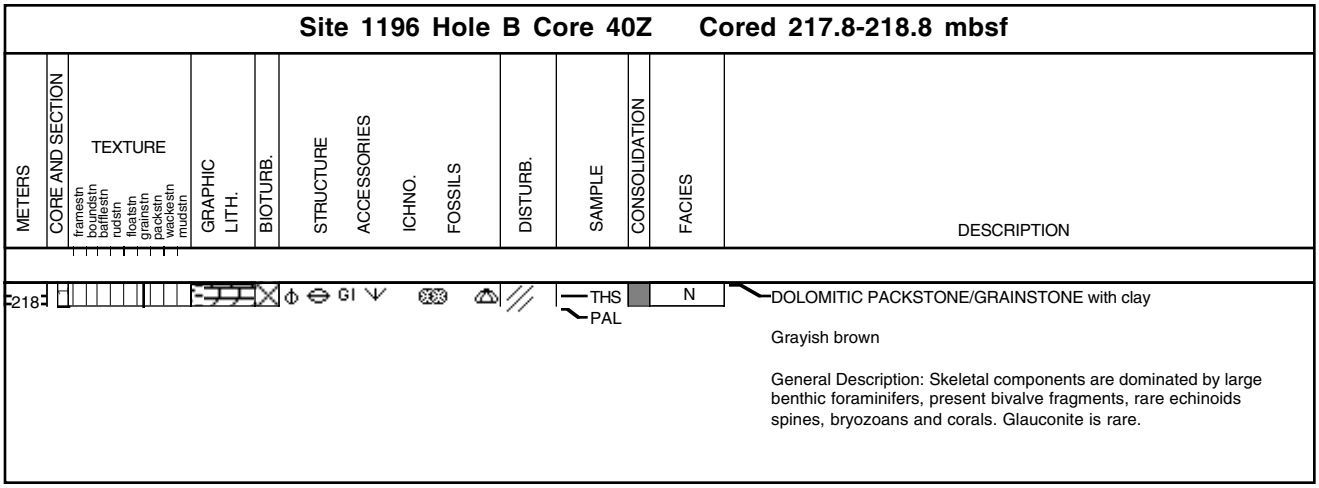


1196B-37Z NO RECOVERY
1196B-38Z NO RECOVERY

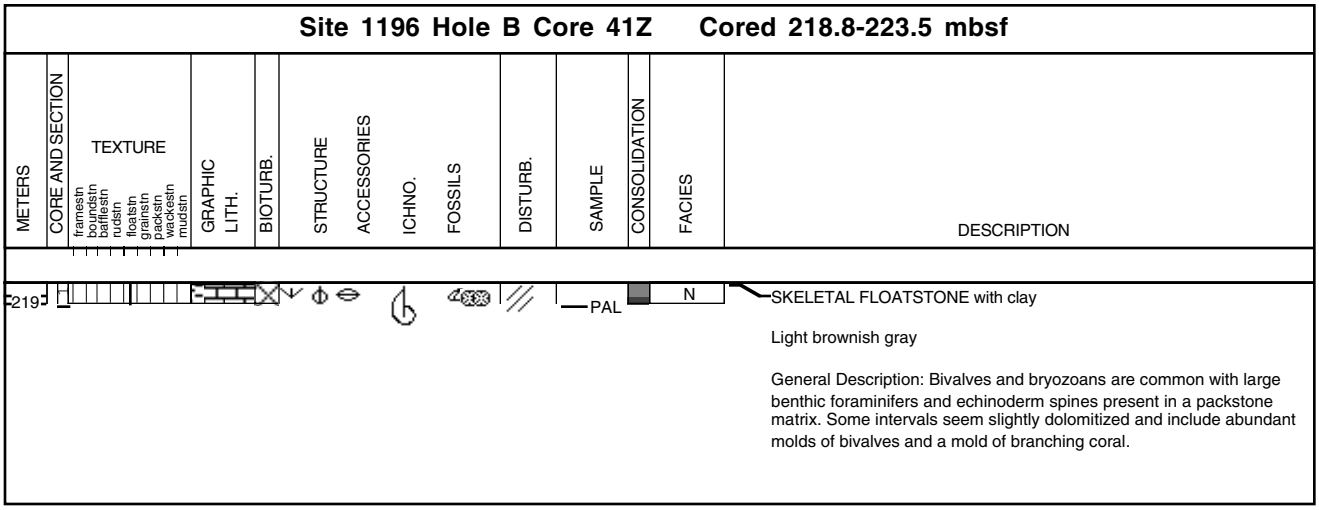
Core Photo


Site 1196 Hole B Core 39Z Cored 213.1-217.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
THS
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Pale yellow
General Description: Skeletal particles are dominated by mollusks (molds) with irregularly shaped coralline algal fragments.
SKELETAL FLOATSTONE
Light brownish gray
General Description: This interval is not dolomitized and seems to include some clay giving the interval a darker color. Mollusks are common and coralline algae are abundant.

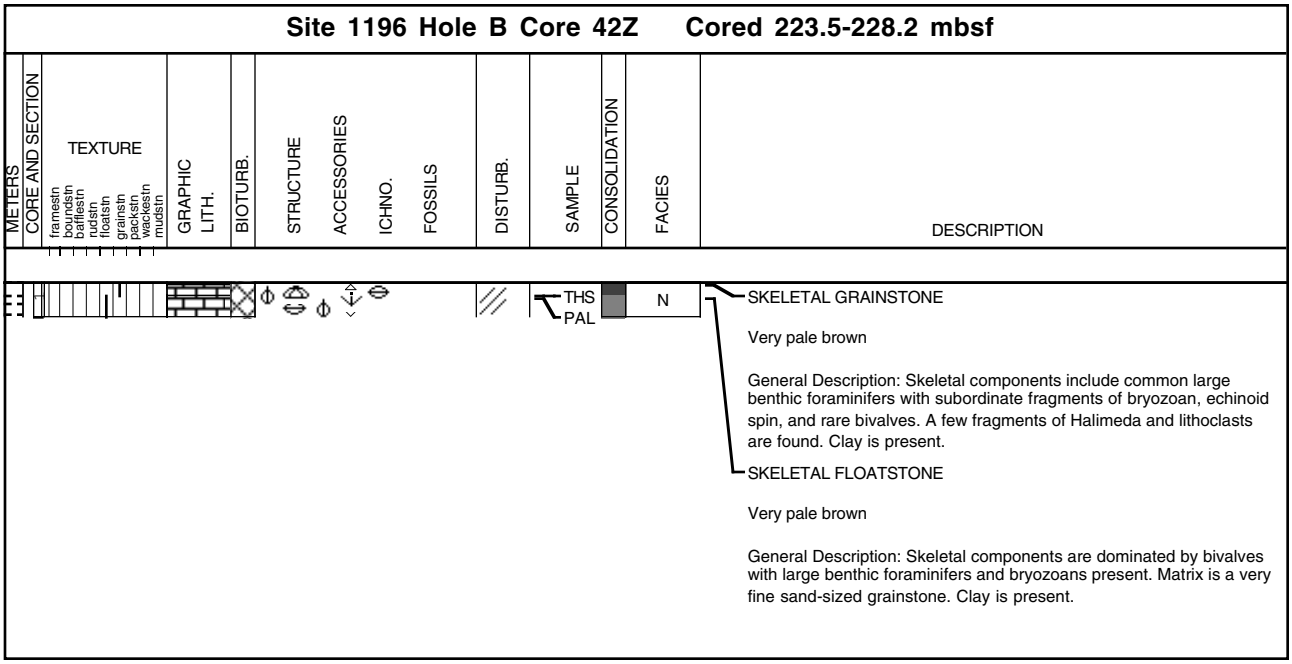
Core Photo


Site 1196 Hole B Core 40Z Cored 217.8-218.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
218
GI
THS
PAL
N
DOLOMITIC PACKSTONE/GRAINSTONE with clay
Grayish brown
General Description: Skeletal components are dominated by large benthic foraminifers, present bivalve fragments, rare echinoids spines, bryozoans and corals. Glauconite is rare.

Core Photo


Site 1196 Hole B Core 41Z Cored 218.8-223.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
219
PAL
N
SKELETAL FLOATSTONE with clay
Light brownish gray
General Description: Bivalves and bryozoans are common with large benthic foraminifers and echinoderm spines present in a packstone matrix. Some intervals seem slightly dolomitized and include abundant molds of bivalves and a mold of branching coral.

Core Photo

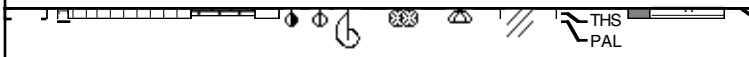


1196B-43Z NO RECOVERY

Core Photo

Site 1196 Hole B Core 44Z Cored 232.9-234.3 mbsf

METERS | CORE AND SECTION | TEXTURE (framestn, boundstn, baffllestn, rudstn, floatstn, grainstn, packstn, wackestn, mudstn) | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | CONSOLIDATION | FACIES | DESCRIPTION

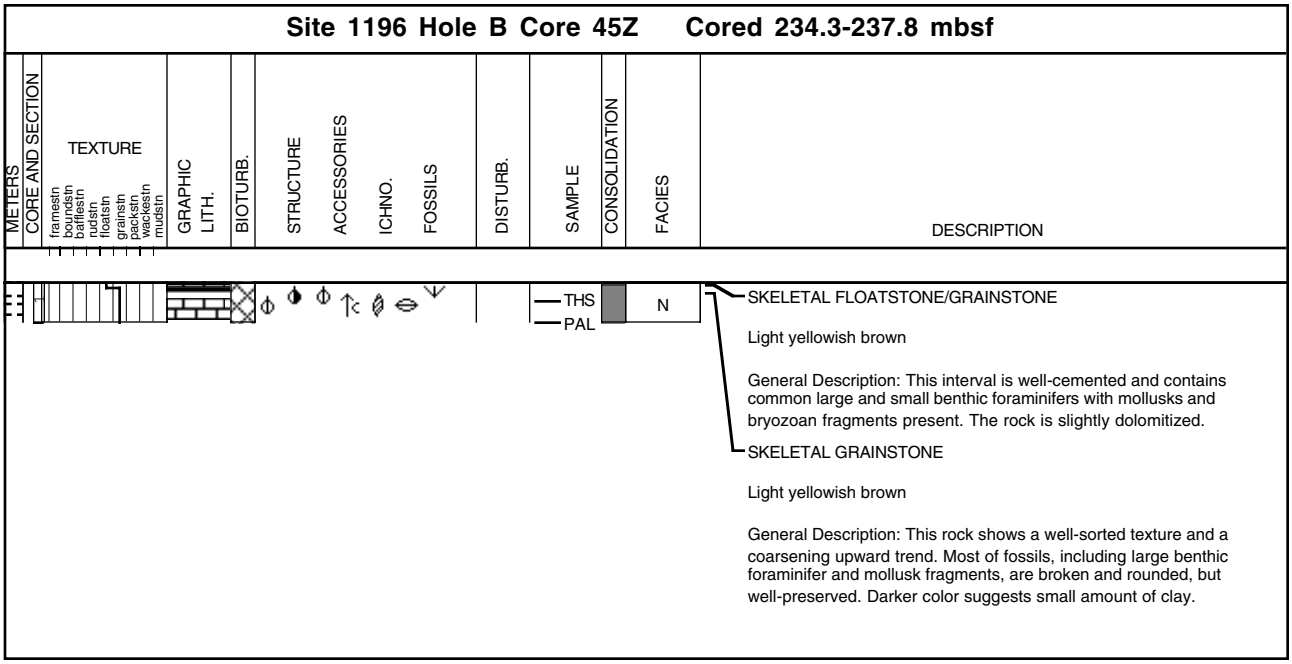


DOLOMITIC SKELETAL GRAINSTONE with clay

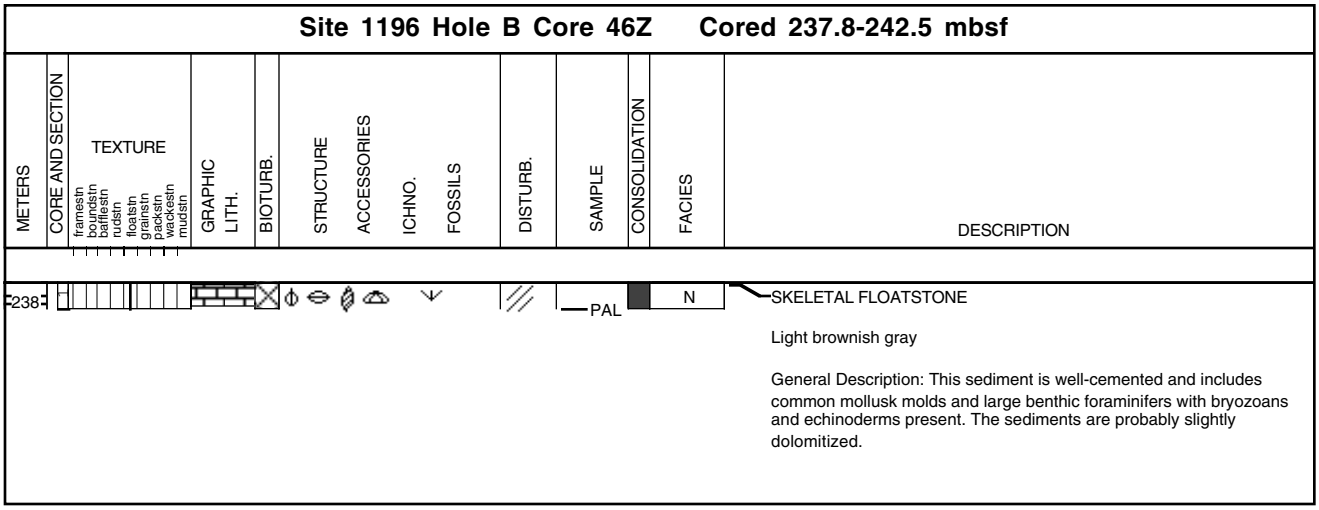
Very pale brown

General Description: Skeletal components are dominated by benthic foraminifers, with abundant fragments of large benthic foraminifers, present molds of molluscs, rare coral fragments and echinoids spines. Some burrows structures are filled with darker, clayish (?) sediment, containing the same skeletal components as above.

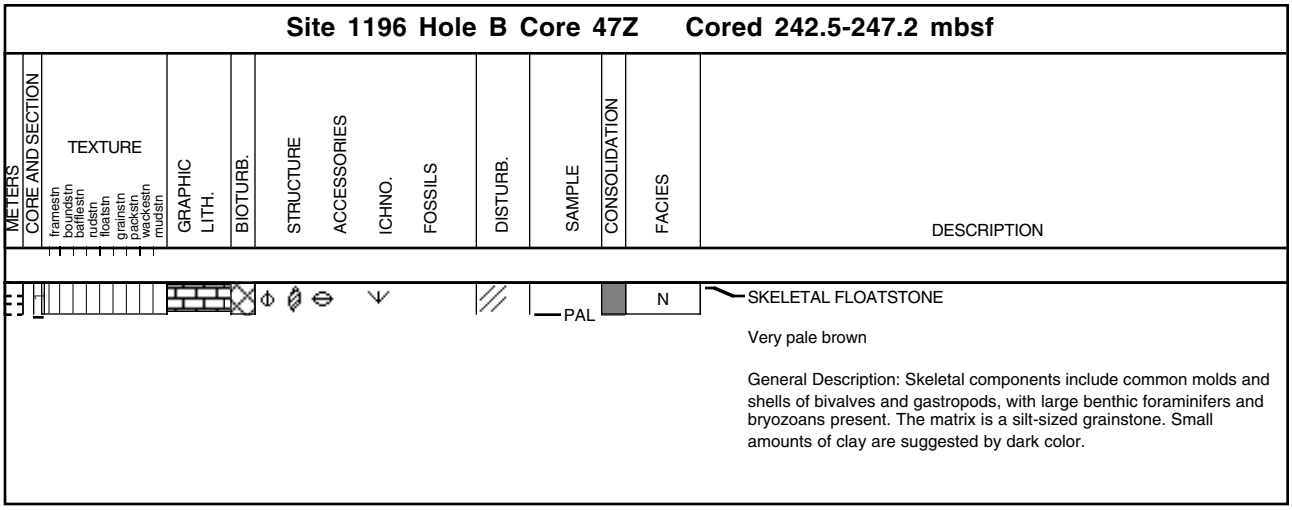
Core Photo


Site 1196 Hole B Core 45Z Cored 234.3-237.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffilestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
THS
PAL
N
SKELETAL FLOATSTONE/GRAINSTONE
Light yellowish brown
General Description: This interval is well-cemented and contains common large and small benthic foraminifers with mollusks and bryozoan fragments present. The rock is slightly dolomitized.
SKELETAL GRAINSTONE
Light yellowish brown
General Description: This rock shows a well-sorted texture and a coarsening upward trend. Most of fossils, including large benthic foraminifer and mollusk fragments, are broken and rounded, but well-preserved. Darker color suggests small amount of clay.

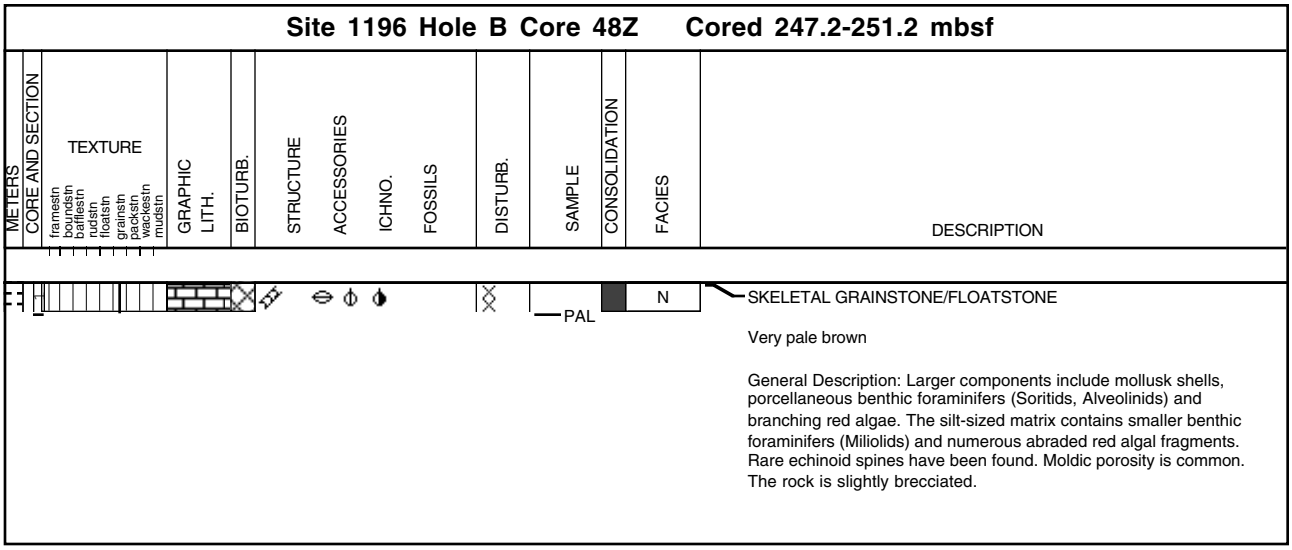
Core Photo


Site 1196 Hole B Core 46Z Cored 237.8-242.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
238
PAL
N
SKELETAL FLOATSTONE
Light brownish gray
General Description: This sediment is well-cemented and includes common mollusk molds and large benthic foraminifers with bryozoans and echinoderms present. The sediments are probably slightly dolomitized.

Core Photo


Site 1196 Hole B Core 47Z Cored 242.5-247.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
SKELETAL FLOATSTONE
Very pale brown
General Description: Skeletal components include common molds and shells of bivalves and gastropods, with large benthic foraminifers and bryozoans present. The matrix is a silt-sized grainstone. Small amounts of clay are suggested by dark color.

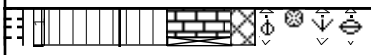
Core Photo


Site 1196 Hole B Core 48Z Cored 247.2-251.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
SKELETAL GRAINSTONE/FLOATSTONE
Very pale brown
General Description: Larger components include mollusk shells, porcellaneous benthic foraminifers (Soritids, Alveolinids) and branching red algae. The silt-sized matrix contains smaller benthic foraminifers (Miliolids) and numerous abraded red algal fragments. Rare echinoid spines have been found. Moldic porosity is common. The rock is slightly brecciated.

Core Photo

Site 1196 Hole B Core 49Z Cored 251.2-255.9 mbsf

METERS | CORE AND SECTION | TEXTURE (framestn, boundstn, baffllestn, rudstn, floatstn, grainstn, packstn, wackestn, mudstn) | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | CONSOLIDATION | FACIES | DESCRIPTION



PAL

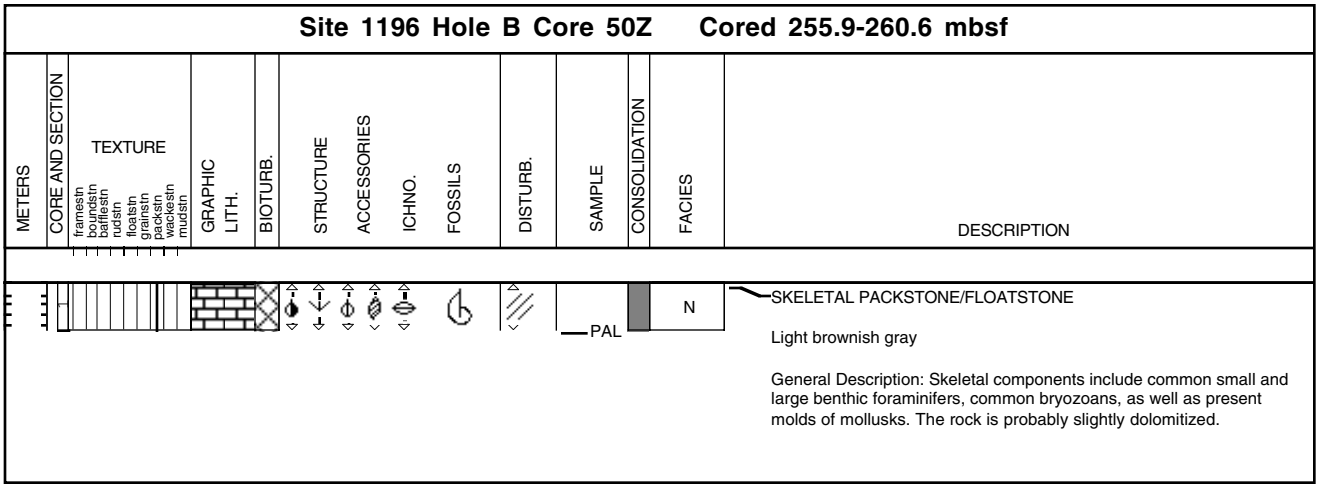
N

SKELETAL GRAINSTONE

Very pale brown

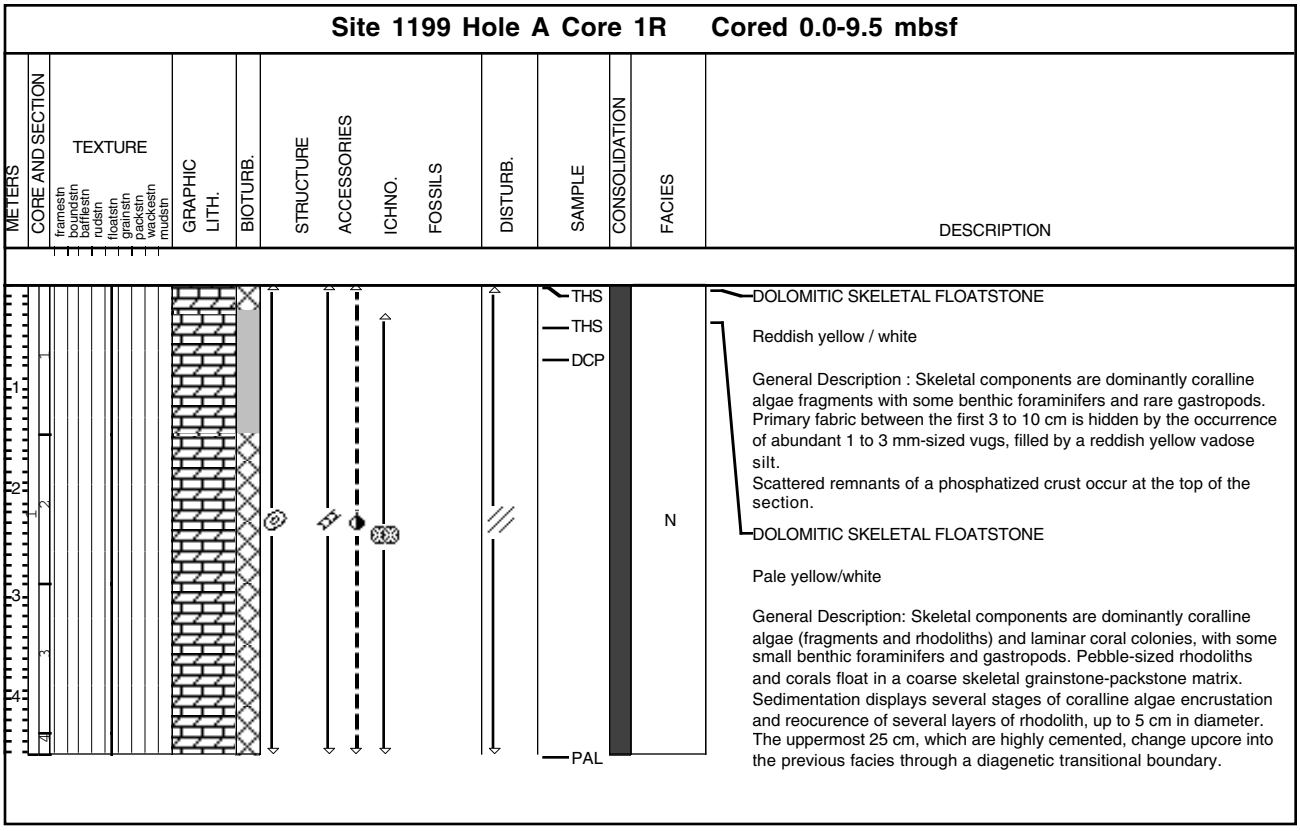
General Description: The dominant skeletal components are large and small benthic foraminifers. Shell fragments are common, bryozoa and gastropod fragments are present. Solitary corals are rare. All these components are part of or are within a matrix of fine to medium sand-sized neritic bioclasts. The sediment is moderately to well-sorted. Porosity is moderate, intergranular and moldic. Small patches of up to 5mm are evident, which are highly recrystallized, sometimes also slightly dolotimized.

Core Photo

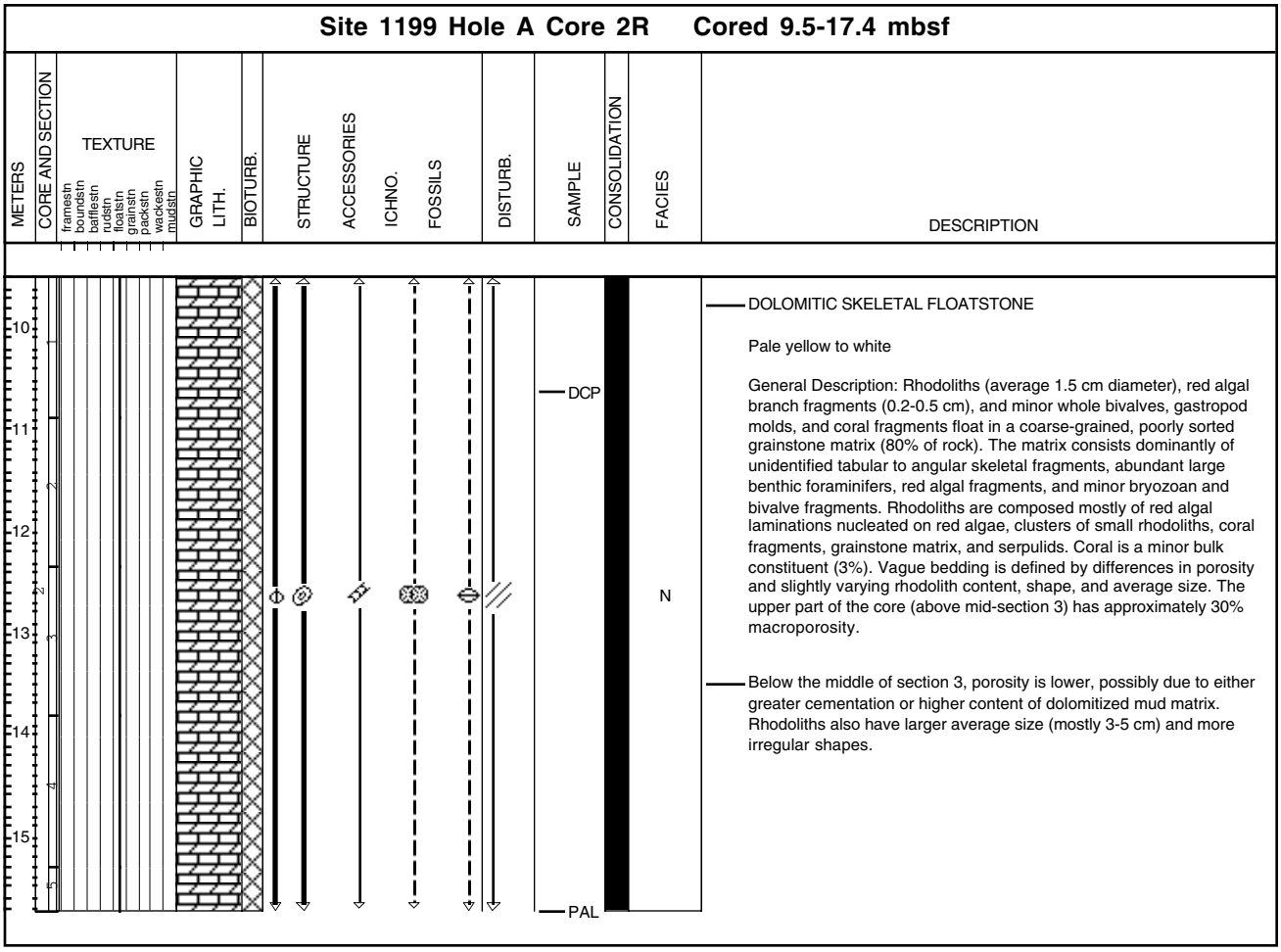


1196B-51Z ENTIRE CORE TO PALEONTOLOGISTS

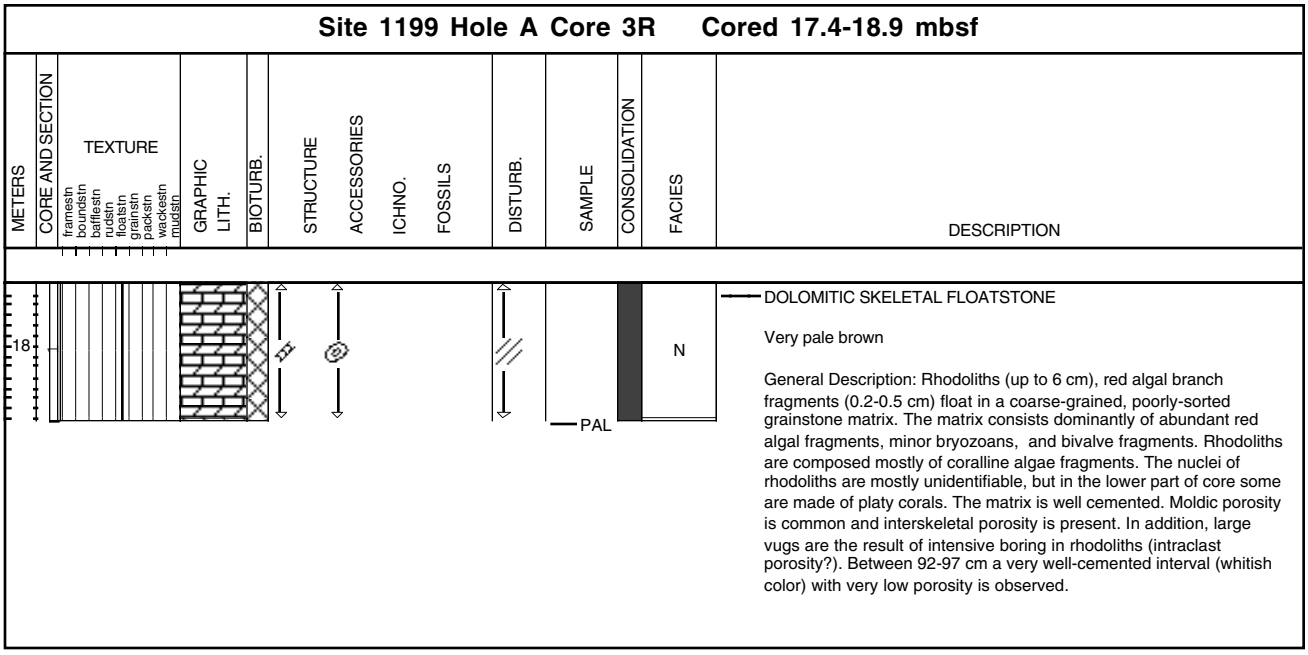
Core Photo


Site 1199 Hole A Core 1R Cored 0.0-9.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
THS
THS
DCP
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Reddish yellow / white
General Description : Skeletal components are dominantly coralline algae fragments with some benthic foraminifers and rare gastropods. Primary fabric between the first 3 to 10 cm is hidden by the occurrence of abundant 1 to 3 mm-sized vugs, filled by a reddish yellow vadose silt.
Scattered remnants of a phosphatized crust occur at the top of the section.
DOLOMITIC SKELETAL FLOATSTONE
Pale yellow/white
General Description: Skeletal components are dominantly coralline algae (fragments and rhodoliths) and laminar coral colonies, with some small benthic foraminifers and gastropods. Pebble-sized rhodoliths and corals float in a coarse skeletal grainstone-packstone matrix. Sedimentation displays several stages of coralline algae encrustation and reocurence of several layers of rhodolith, up to 5 cm in diameter. The uppermost 25 cm, which are highly cemented, change upcore into the previous facies through a diagenetic transitional boundary.

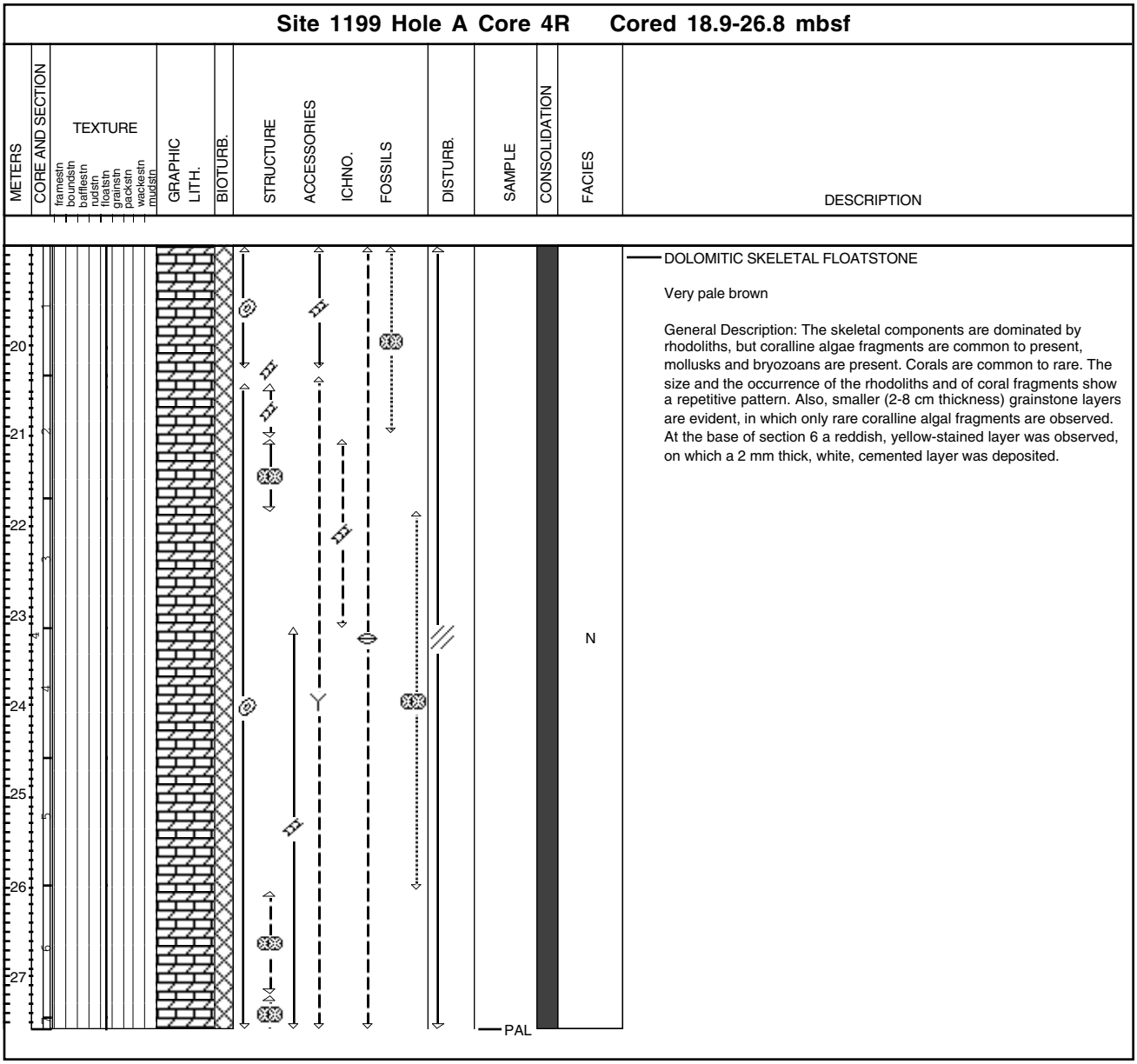
Core Photo


Site 1199 Hole A Core 2R Cored 9.5-17.4 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
10
11
12
13
14
15
DCP
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Pale yellow to white
General Description: Rhodoliths (average 1.5 cm diameter), red algal branch fragments (0.2-0.5 cm), and minor whole bivalves, gastropod molds, and coral fragments float in a coarse-grained, poorly sorted grainstone matrix (80% of rock). The matrix consists dominantly of unidentified tabular to angular skeletal fragments, abundant large benthic foraminifers, red algal fragments, and minor bryozoan and bivalve fragments. Rhodoliths are composed mostly of red algal laminations nucleated on red algae, clusters of small rhodoliths, coral fragments, grainstone matrix, and serpulids. Coral is a minor bulk constituent (3%). Vague bedding is defined by differences in porosity and slightly varying rhodolith content, shape, and average size. The upper part of the core (above mid-section 3) has approximately 30% macroporosity.
Below the middle of section 3, porosity is lower, possibly due to either greater cementation or higher content of dolomitized mud matrix. Rhodoliths also have larger average size (mostly 3-5 cm) and more irregular shapes.

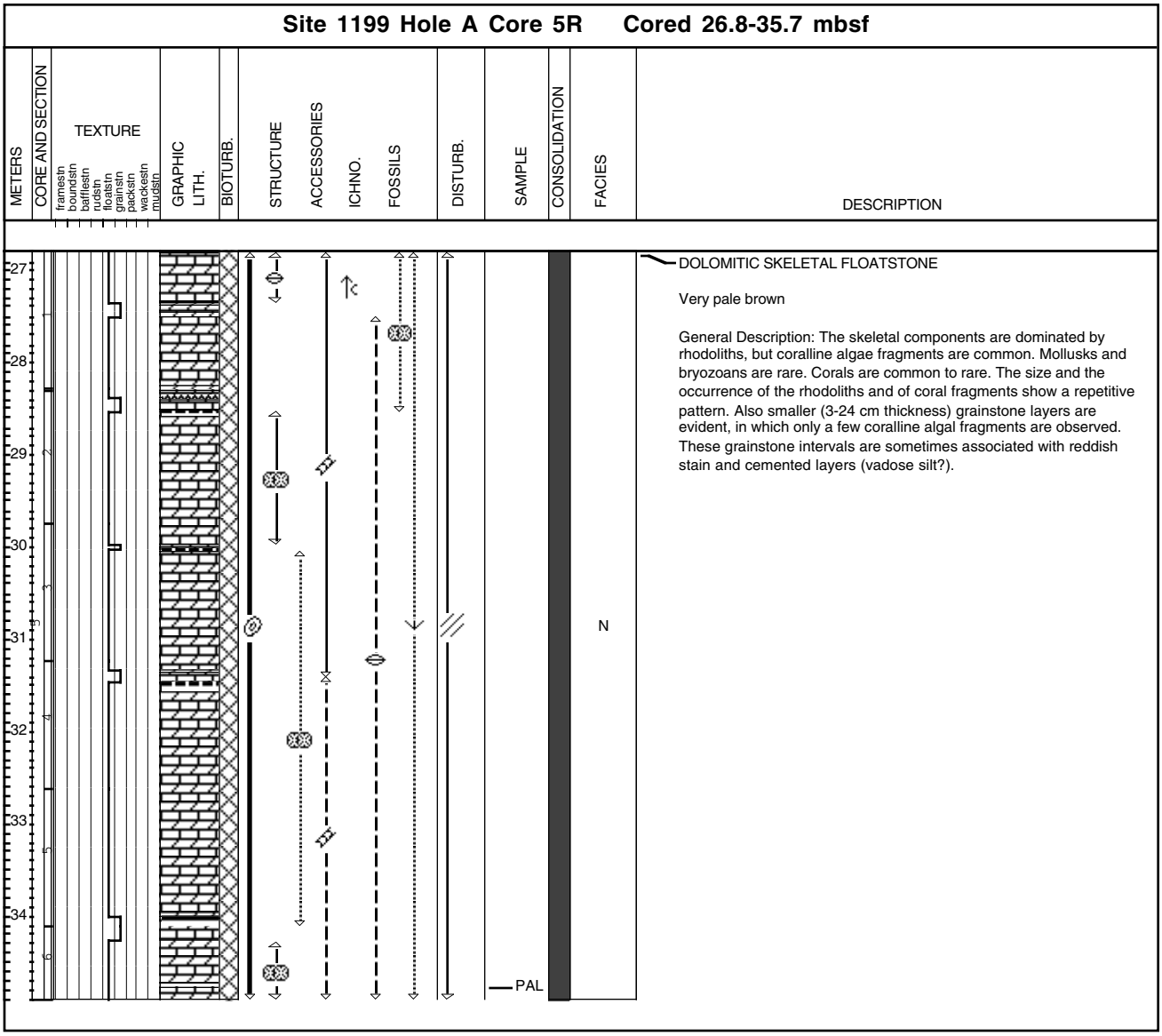
Core Photo


Site 1199 Hole A Core 3R Cored 17.4-18.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
18
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Rhodoliths (up to 6 cm), red algal branch fragments (0.2-0.5 cm) float in a coarse-grained, poorly-sorted grainstone matrix. The matrix consists dominantly of abundant red algal fragments, minor bryozoans, and bivalve fragments. Rhodoliths are composed mostly of coralline algae fragments. The nuclei of rhodoliths are mostly unidentifiable, but in the lower part of core some are made of platy corals. The matrix is well cemented. Moldic porosity is common and interskeletal porosity is present. In addition, large vugs are the result of intensive boring in rhodoliths (intraclast porosity?). Between 92-97 cm a very well-cemented interval (whitish color) with very low porosity is observed.

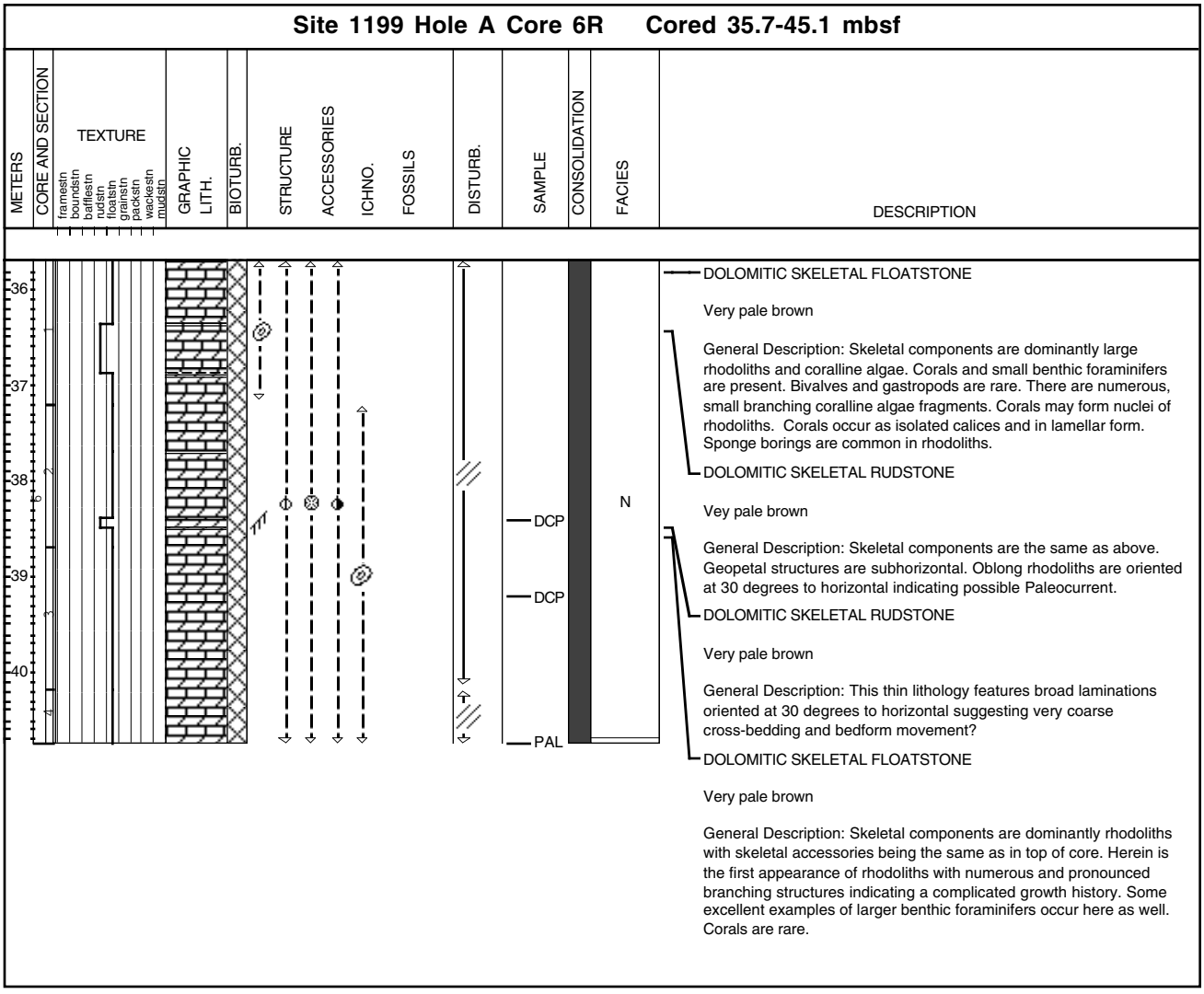
Core Photo


Site 1199 Hole A Core 4R Cored 18.9-26.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
20
21
22
23
24
25
26
27
N
PAL
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: The skeletal components are dominated by rhodoliths, but coralline algae fragments are common to present, mollusks and bryozoans are present. Corals are common to rare. The size and the occurrence of the rhodoliths and of coral fragments show a repetitive pattern. Also, smaller (2-8 cm thickness) grainstone layers are evident, in which only rare coralline algal fragments are observed. At the base of section 6 a reddish, yellow-stained layer was observed, on which a 2 mm thick, white, cemented layer was deposited.

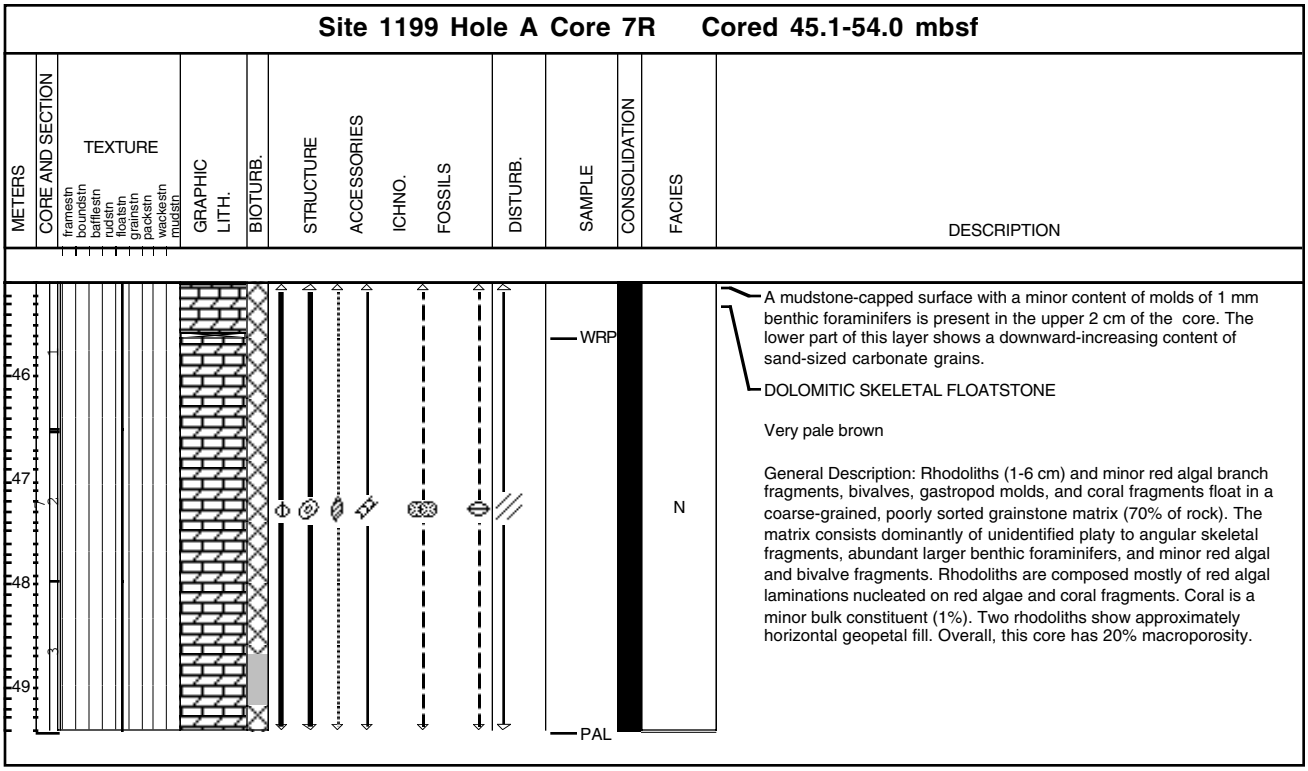
Core Photo


Site 1199 Hole A Core 5R Cored 26.8-35.7 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffliestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
27
28
29
30
31
32
33
34
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: The skeletal components are dominated by rhodoliths, but coralline algae fragments are common. Mollusks and bryozoans are rare. Corals are common to rare. The size and the occurrence of the rhodoliths and of coral fragments show a repetitive pattern. Also smaller (3-24 cm thickness) grainstone layers are evident, in which only a few coralline algal fragments are observed. These grainstone intervals are sometimes associated with reddish stain and cemented layers (vadose silt?).

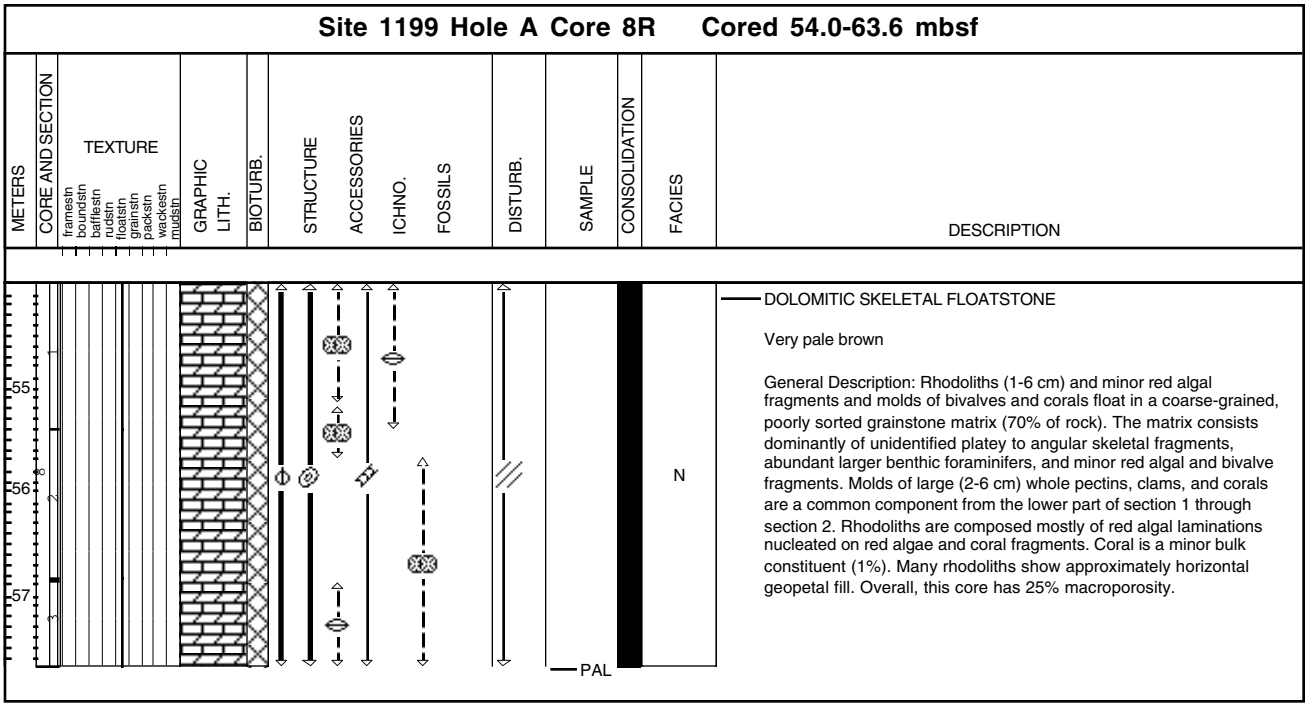
Core Photo


Site 1199 Hole A Core 6R Cored 35.7-45.1 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
36
37
38
39
40
DCP
DCP
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Skeletal components are dominantly large rhodoliths and coralline algae. Corals and small benthic foraminifers are present. Bivalves and gastropods are rare. There are numerous, small branching coralline algae fragments. Corals may form nuclei of rhodoliths. Corals occur as isolated calices and in lamellar form. Sponge borings are common in rhodoliths.
DOLOMITIC SKELETAL RUDSTONE
Vey pale brown
General Description: Skeletal components are the same as above. Geopetal structures are subhorizontal. Oblong rhodoliths are oriented at 30 degrees to horizontal indicating possible Paleocurrent.
DOLOMITIC SKELETAL RUDSTONE
Very pale brown
General Description: This thin lithology features broad laminations oriented at 30 degrees to horizontal suggesting very coarse cross-bedding and bedform movement?
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Skeletal components are dominantly rhodoliths with skeletal accessories being the same as in top of core. Herein is the first appearance of rhodoliths with numerous and pronounced branching structures indicating a complicated growth history. Some excellent examples of larger benthic foraminifers occur here as well. Corals are rare.

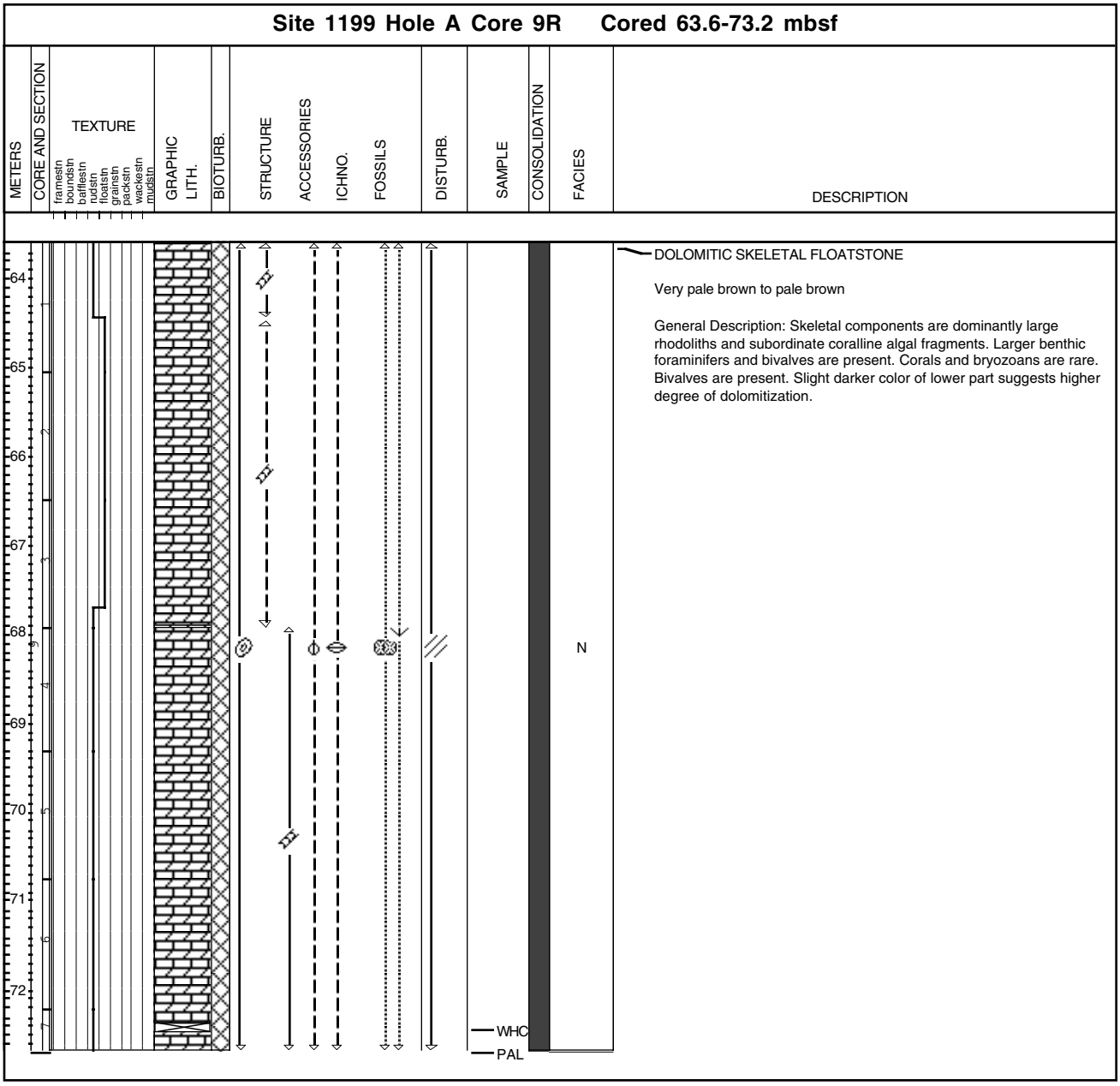
Core Photo


Site 1199 Hole A Core 7R Cored 45.1-54.0 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
46
47
48
49
WRP
PAL
N
A mudstone-capped surface with a minor content of molds of 1 mm benthic foraminifers is present in the upper 2 cm of the core. The lower part of this layer shows a downward-increasing content of sand-sized carbonate grains.
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Rhodoliths (1-6 cm) and minor red algal branch fragments, bivalves, gastropod molds, and coral fragments float in a coarse-grained, poorly sorted grainstone matrix (70% of rock). The matrix consists dominantly of unidentified platy to angular skeletal fragments, abundant larger benthic foraminifers, and minor red algal and bivalve fragments. Rhodoliths are composed mostly of red algal laminations nucleated on red algae and coral fragments. Coral is a minor bulk constituent (1%). Two rhodoliths show approximately horizontal geopetal fill. Overall, this core has 20% macroporosity.

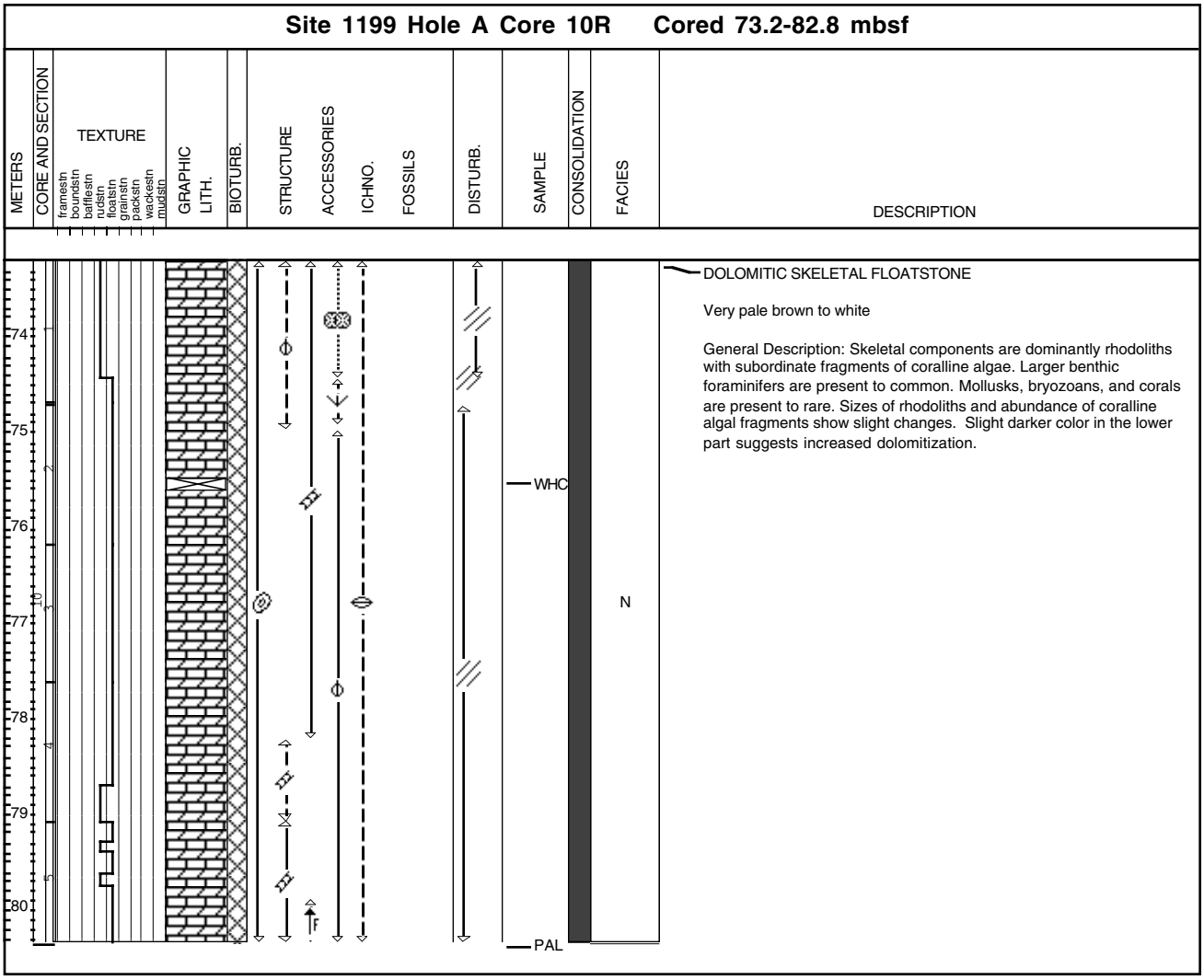
Core Photo


Site 1199 Hole A Core 8R Cored 54.0-63.6 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
55
56
57
N
PAL
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Rhodoliths (1-6 cm) and minor red algal fragments and molds of bivalves and corals float in a coarse-grained, poorly sorted grainstone matrix (70% of rock). The matrix consists dominantly of unidentified platey to angular skeletal fragments, abundant larger benthic foraminifers, and minor red algal and bivalve fragments. Molds of large (2-6 cm) whole pectins, clams, and corals are a common component from the lower part of section 1 through section 2. Rhodoliths are composed mostly of red algal laminations nucleated on red algae and coral fragments. Coral is a minor bulk constituent (1%). Many rhodoliths show approximately horizontal geopetal fill. Overall, this core has 25% macroporosity.

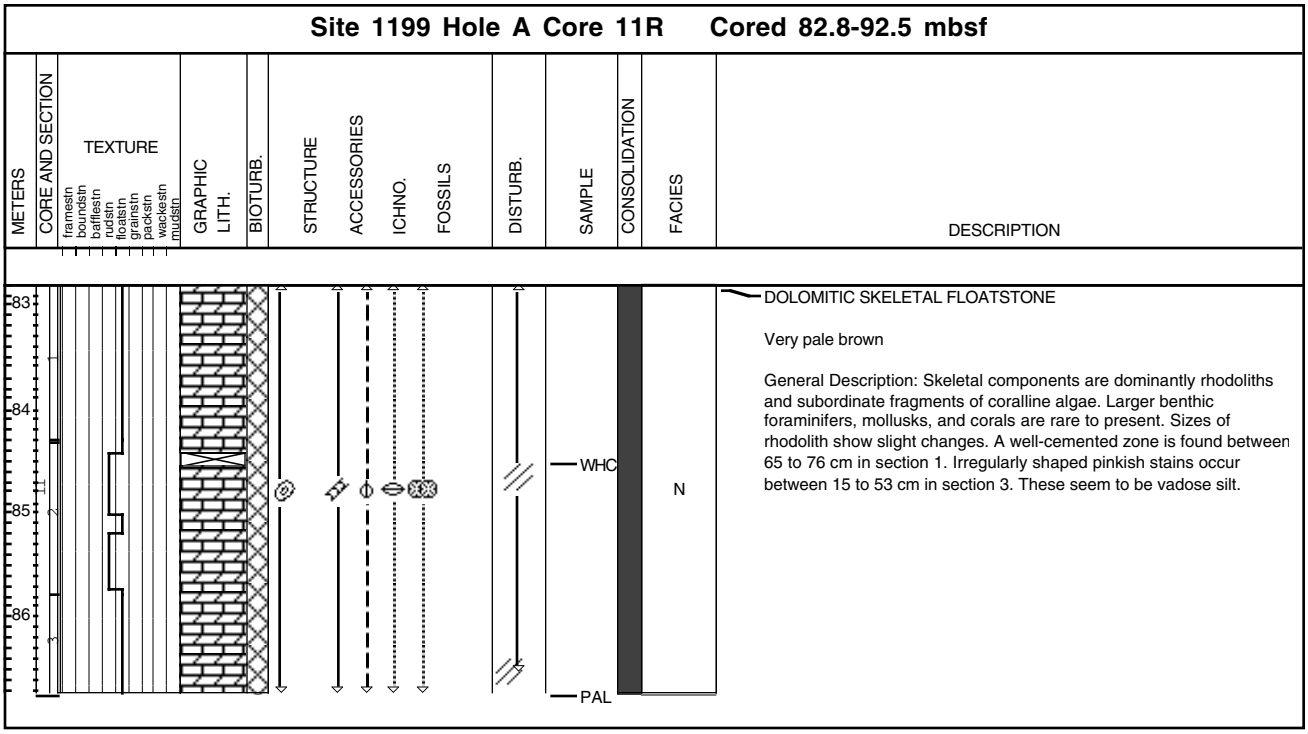
Core Photo


Site 1199 Hole A Core 9R Cored 63.6-73.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
64
65
66
67
68
69
70
71
72
WHC
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown to pale brown
General Description: Skeletal components are dominantly large rhodoliths and subordinate coralline algal fragments. Larger benthic foraminifers and bivalves are present. Corals and bryozoans are rare. Bivalves are present. Slight darker color of lower part suggests higher degree of dolomitization.

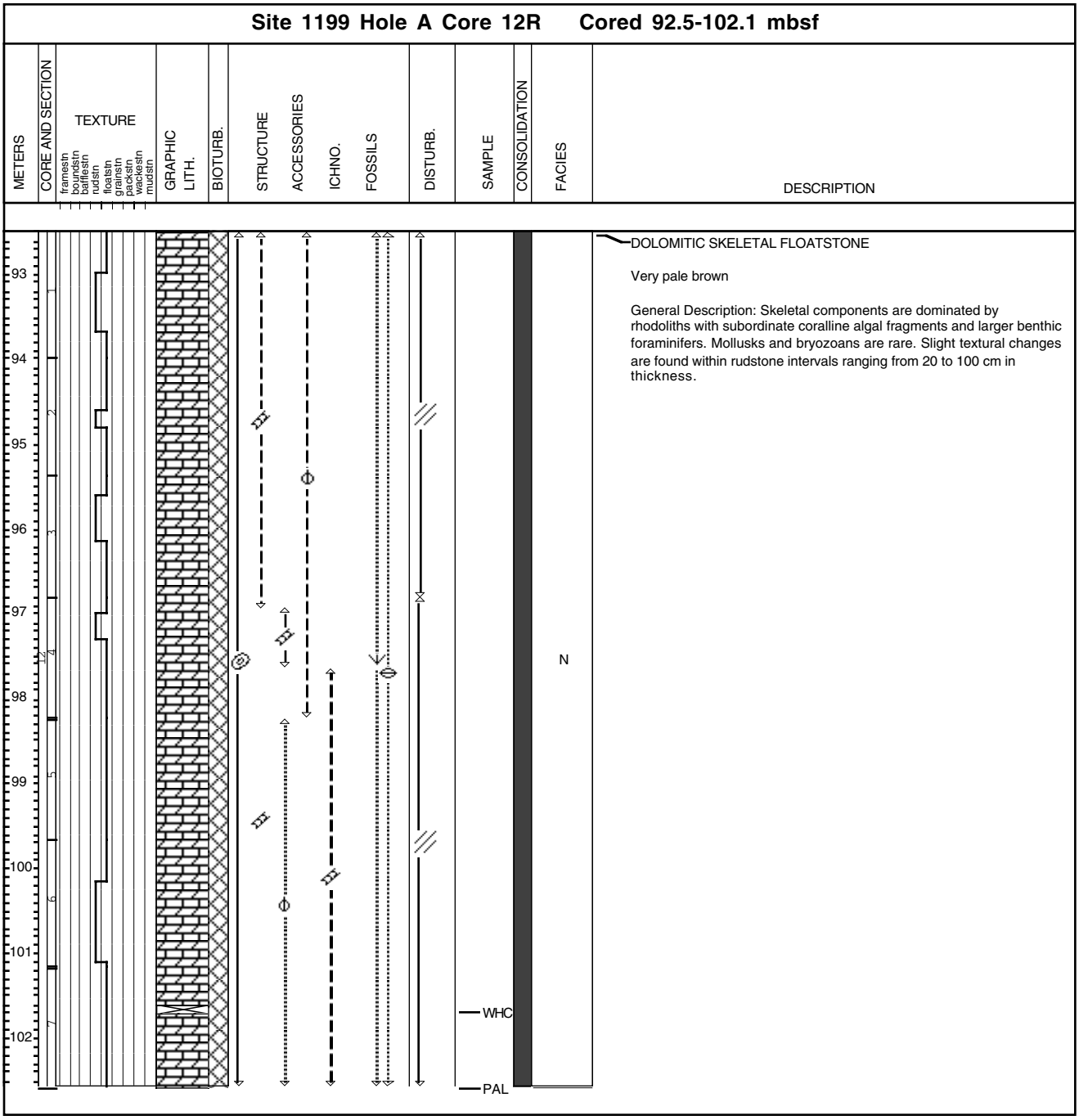
Core Photo


Site 1199 Hole A Core 10R Cored 73.2-82.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
74
75
76
77
78
79
80
WHC
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown to white
General Description: Skeletal components are dominantly rhodoliths with subordinate fragments of coralline algae. Larger benthic foraminifers are present to common. Mollusks, bryozoans, and corals are present to rare. Sizes of rhodoliths and abundance of coralline algal fragments show slight changes. Slight darker color in the lower part suggests increased dolomitization.

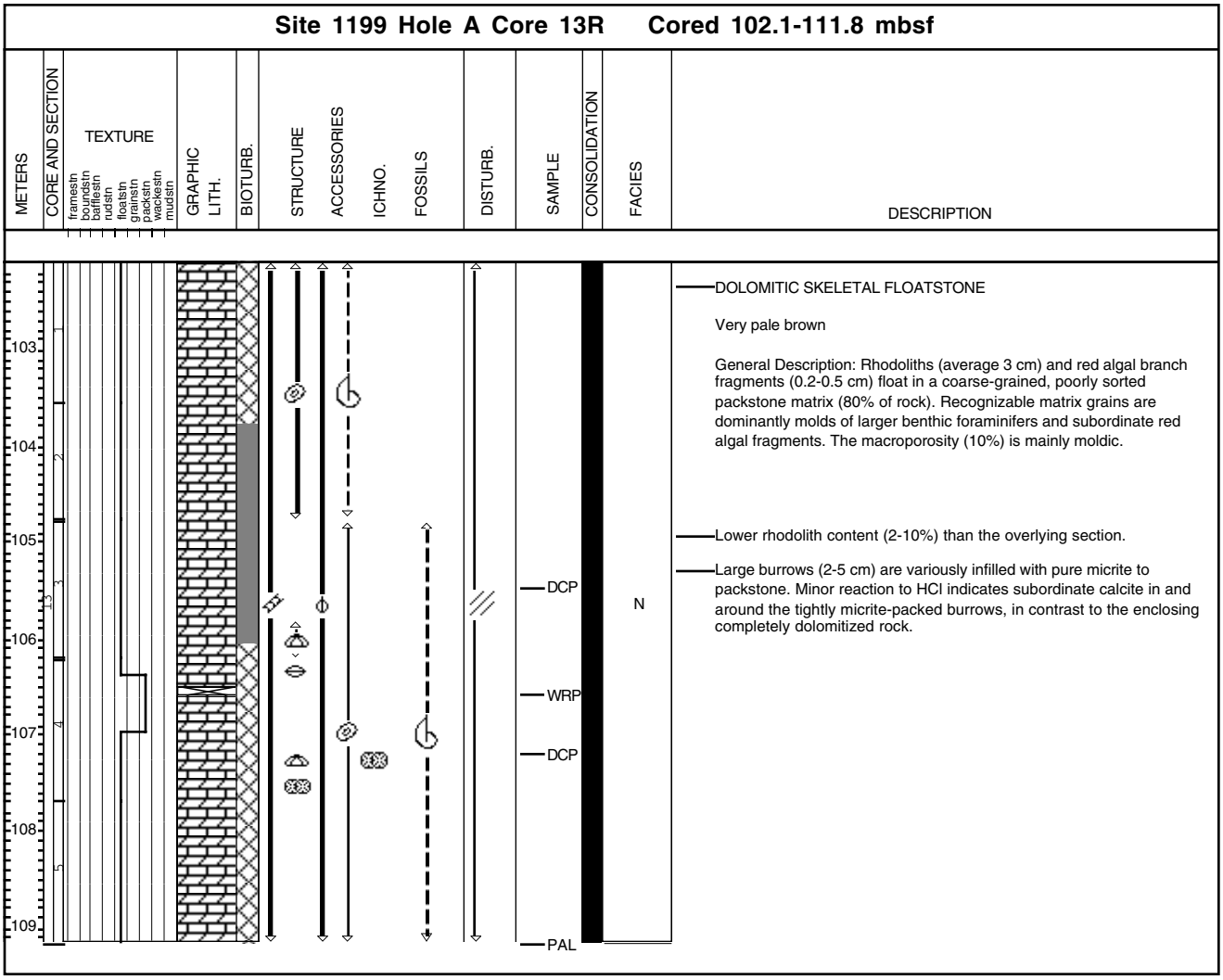
Core Photo


Site 1199 Hole A Core 11R Cored 82.8-92.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
83
84
85
86
WHC
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Skeletal components are dominantly rhodoliths and subordinate fragments of coralline algae. Larger benthic foraminifers, mollusks, and corals are rare to present. Sizes of rhodolith show slight changes. A well-cemented zone is found between 65 to 76 cm in section 1. Irregularly shaped pinkish stains occur between 15 to 53 cm in section 3. These seem to be vadose silt.

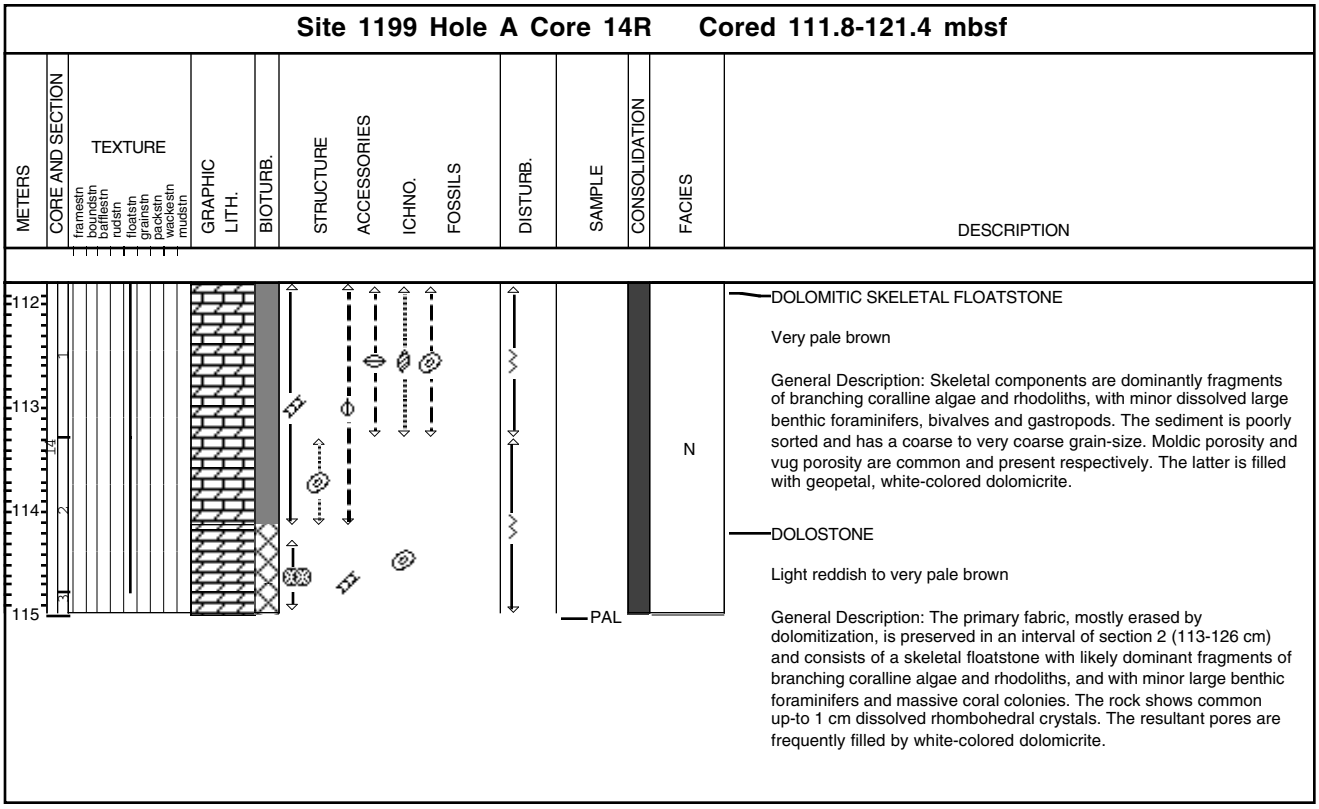
Core Photo


Site 1199 Hole A Core 12R Cored 92.5-102.1 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
93
94
95
96
97
98
99
100
101
102
1
2
3
4
5
6
7
N
WHC
PAL
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Skeletal components are dominated by rhodoliths with subordinate coralline algal fragments and larger benthic foraminifers. Mollusks and bryozoans are rare. Slight textural changes are found within rudstone intervals ranging from 20 to 100 cm in thickness.

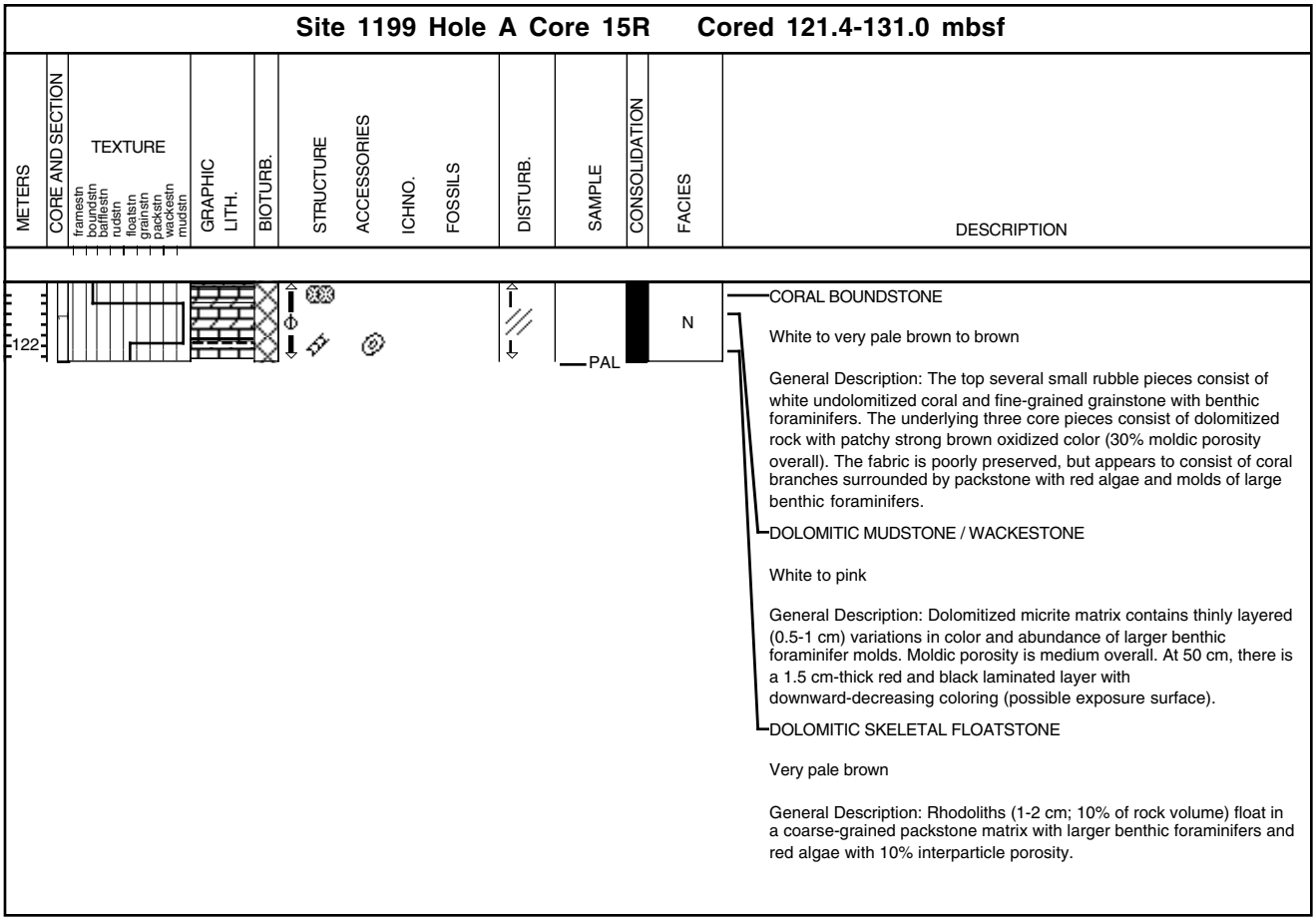
Core Photo


Site 1199 Hole A Core 13R Cored 102.1-111.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
103
104
105
106
107
108
109
DCP
WRP
DCP
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Rhodoliths (average 3 cm) and red algal branch fragments (0.2-0.5 cm) float in a coarse-grained, poorly sorted packstone matrix (80% of rock). Recognizable matrix grains are dominantly molds of larger benthic foraminifers and subordinate red algal fragments. The macroporosity (10%) is mainly moldic.
Lower rhodolith content (2-10%) than the overlying section.
Large burrows (2-5 cm) are variously infilled with pure micrite to packstone. Minor reaction to HCl indicates subordinate calcite in and around the tightly micrite-packed burrows, in contrast to the enclosing completely dolomitized rock.

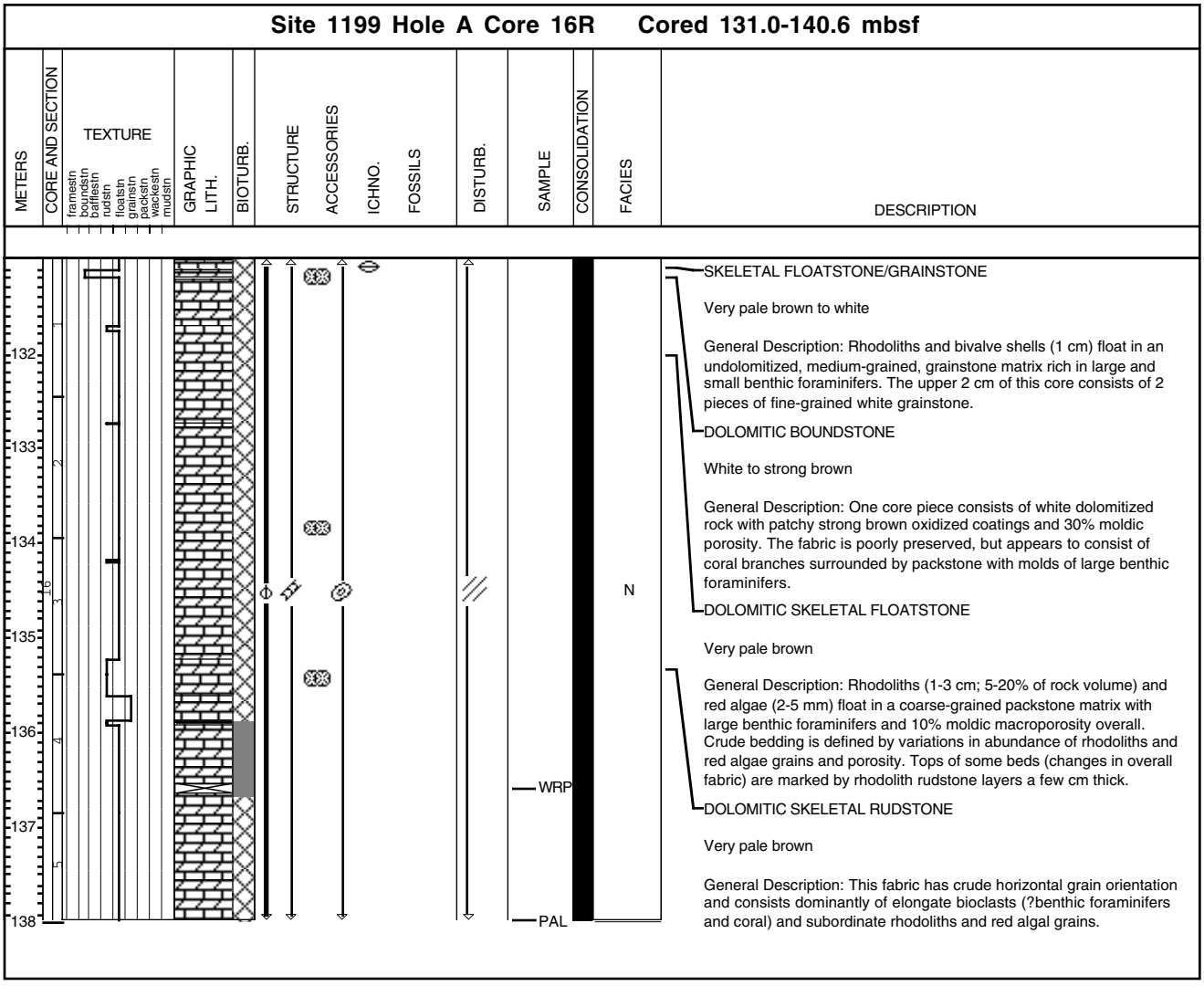
Core Photo


Site 1199 Hole A Core 14R Cored 111.8-121.4 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
112
113
114
115
1
2
3
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Skeletal components are dominantly fragments of branching coralline algae and rhodoliths, with minor dissolved large benthic foraminifers, bivalves and gastropods. The sediment is poorly sorted and has a coarse to very coarse grain-size. Moldic porosity and vug porosity are common and present respectively. The latter is filled with geopetal, white-colored dolomicrite.
DOLOSTONE
Light reddish to very pale brown
General Description: The primary fabric, mostly erased by dolomitization, is preserved in an interval of section 2 (113-126 cm) and consists of a skeletal floatstone with likely dominant fragments of branching coralline algae and rhodoliths, and with minor large benthic foraminifers and massive coral colonies. The rock shows common up-to 1 cm dissolved rhombohedral crystals. The resultant pores are frequently filled by white-colored dolomicrite.

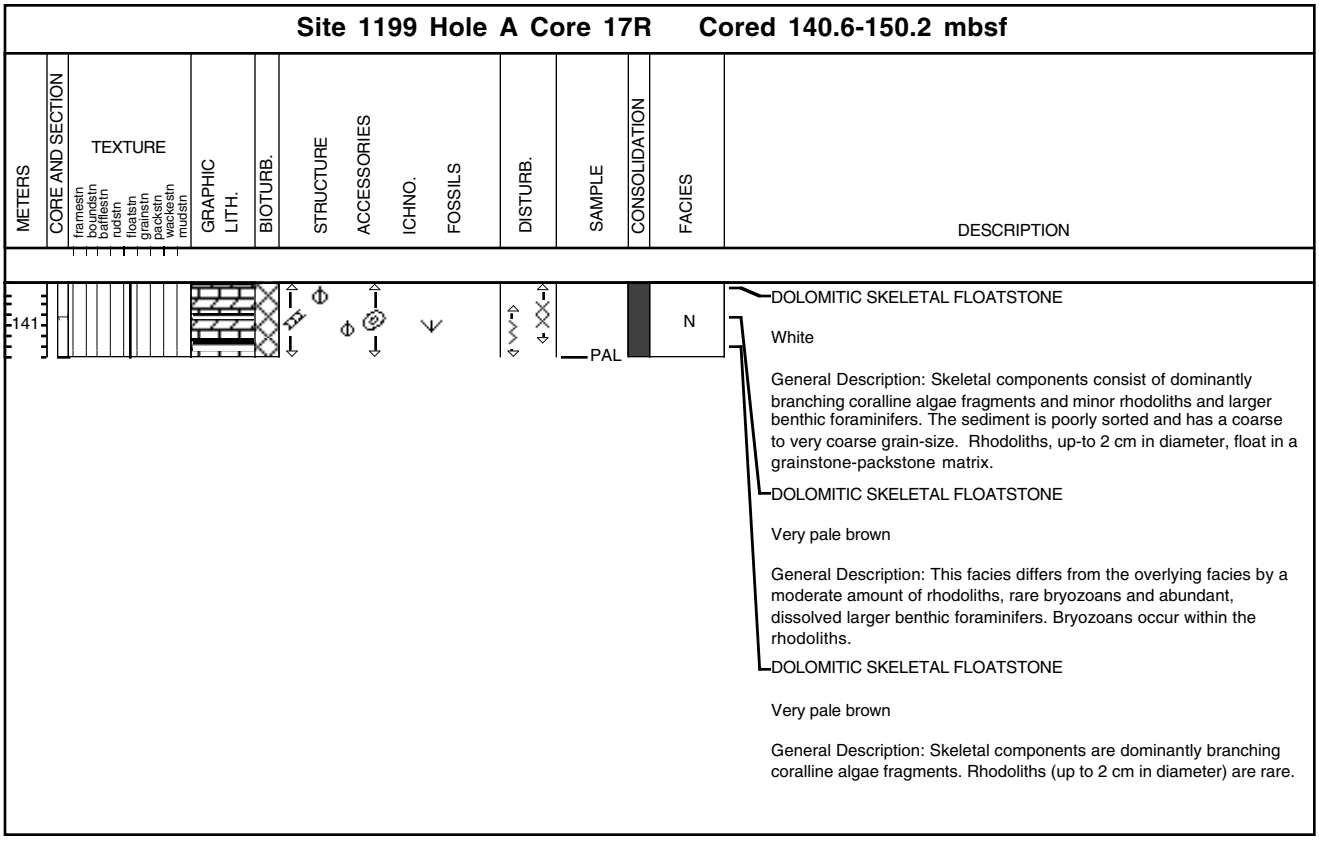
Core Photo


Site 1199 Hole A Core 15R Cored 121.4-131.0 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
122
PAL
N
CORAL BOUNDSTONE
White to very pale brown to brown
General Description: The top several small rubble pieces consist of white undolomitized coral and fine-grained grainstone with benthic foraminifers. The underlying three core pieces consist of dolomitized rock with patchy strong brown oxidized color (30% moldic porosity overall). The fabric is poorly preserved, but appears to consist of coral branches surrounded by packstone with red algae and molds of large benthic foraminifers.
DOLOMITIC MUDSTONE / WACKESTONE
White to pink
General Description: Dolomitized micrite matrix contains thinly layered (0.5-1 cm) variations in color and abundance of larger benthic foraminifer molds. Moldic porosity is medium overall. At 50 cm, there is a 1.5 cm-thick red and black laminated layer with downward-decreasing coloring (possible exposure surface).
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Rhodoliths (1-2 cm; 10% of rock volume) float in a coarse-grained packstone matrix with larger benthic foraminifers and red algae with 10% interparticle porosity.

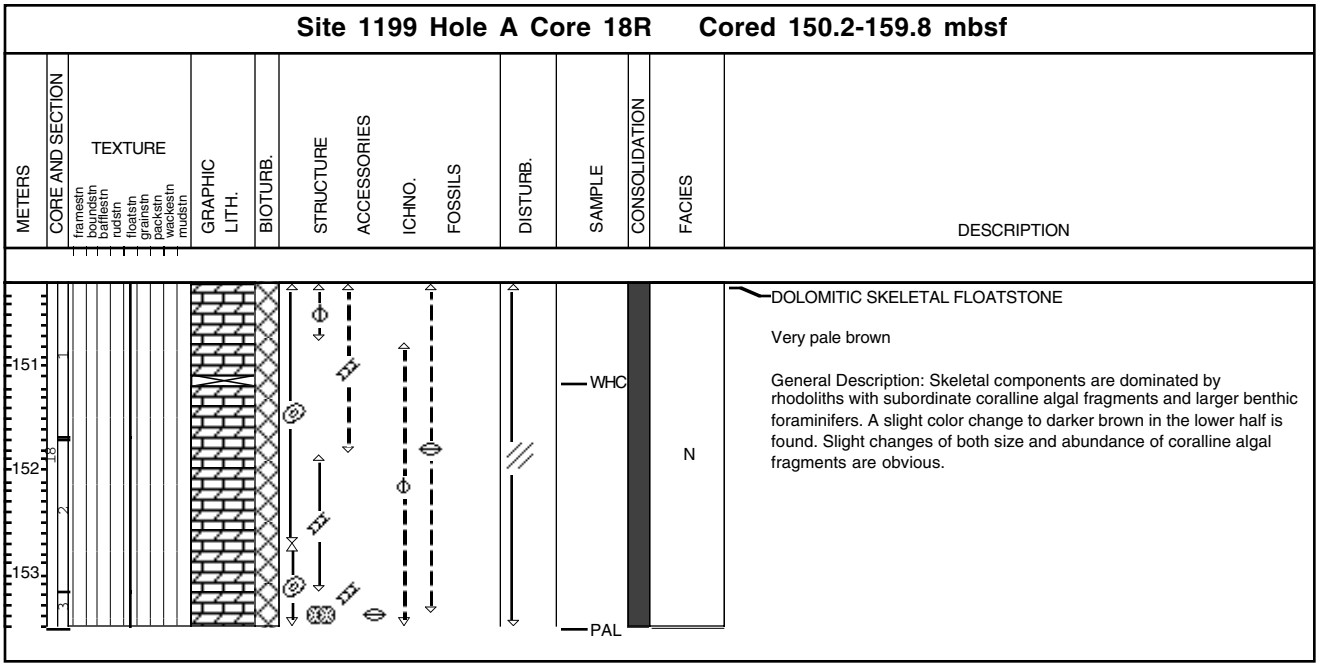
Core Photo


Site 1199 Hole A Core 16R Cored 131.0-140.6 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
132
133
134
135
136
137
138
WRP
PAL
N
SKELETAL FLOATSTONE/GRAINSTONE
Very pale brown to white
General Description: Rhodoliths and bivalve shells (1 cm) float in an undolomitized, medium-grained, grainstone matrix rich in large and small benthic foraminifers. The upper 2 cm of this core consists of 2 pieces of fine-grained white grainstone.
DOLOMITIC BOUNDSTONE
White to strong brown
General Description: One core piece consists of white dolomitized rock with patchy strong brown oxidized coatings and 30% moldic porosity. The fabric is poorly preserved, but appears to consist of coral branches surrounded by packstone with molds of large benthic foraminifers.
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Rhodoliths (1-3 cm; 5-20% of rock volume) and red algae (2-5 mm) float in a coarse-grained packstone matrix with large benthic foraminifers and 10% moldic macroporosity overall. Crude bedding is defined by variations in abundance of rhodoliths and red algae grains and porosity. Tops of some beds (changes in overall fabric) are marked by rhodolith rudstone layers a few cm thick.
DOLOMITIC SKELETAL RUDSTONE
Very pale brown
General Description: This fabric has crude horizontal grain orientation and consists dominantly of elongate bioclasts (?benthic foraminifers and coral) and subordinate rhodoliths and red algal grains.

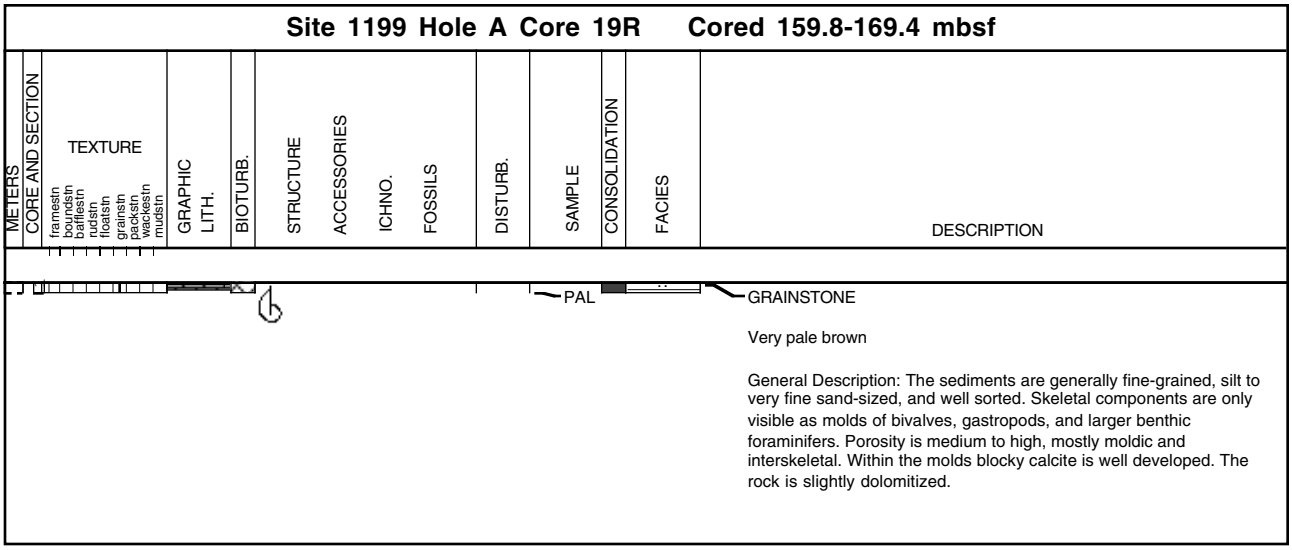
Core Photo


Site 1199 Hole A Core 17R Cored 140.6-150.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
141
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
White
General Description: Skeletal components consist of dominantly branching coralline algae fragments and minor rhodoliths and larger benthic foraminifers. The sediment is poorly sorted and has a coarse to very coarse grain-size. Rhodoliths, up-to 2 cm in diameter, float in a grainstone-packstone matrix.
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: This facies differs from the overlying facies by a moderate amount of rhodoliths, rare bryozoans and abundant, dissolved larger benthic foraminifers. Bryozoans occur within the rhodoliths.
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Skeletal components are dominantly branching coralline algae fragments. Rhodoliths (up to 2 cm in diameter) are rare.

Core Photo

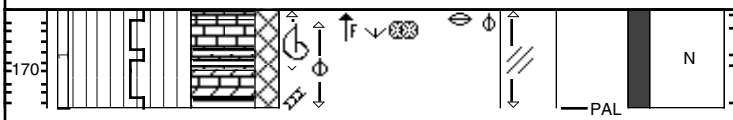

Site 1199 Hole A Core 18R Cored 150.2-159.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
151
152
153
18
1
2
3
WHC
PAL
N
DOLOMITIC SKELETAL FLOATSTONE
Very pale brown
General Description: Skeletal components are dominated by rhodoliths with subordinate coralline algal fragments and larger benthic foraminifers. A slight color change to darker brown in the lower half is found. Slight changes of both size and abundance of coralline algal fragments are obvious.

Core Photo


Site 1199 Hole A Core 19R Cored 159.8-169.4 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
GRAINSTONE
Very pale brown
General Description: The sediments are generally fine-grained, silt to very fine sand-sized, and well sorted. Skeletal components are only visible as molds of bivalves, gastropods, and larger benthic foraminifers. Porosity is medium to high, mostly moldic and interskeletal. Within the molds blocky calcite is well developed. The rock is slightly dolomitized.

Core Photo

Site 1199 Hole A Core 20R Cored 169.4-179.0 mbsf



GRAINSTONE

Very pale brown

General Description: The sediments are silt to very fine sand-sized and well sorted. Skeletal components are only visible as molds of bivalves, gastropods, and larger benthic foraminifers. The size of these components is larger than those in core 19R. Porosity is medium to high and mostly moldic and interskeletal. Within the molds blocky calcite is well developed. The rock is slightly dolomitized.

SKELETAL FLOATSTONE

Light gray to very pale brown

General Description: The sediments are well cemented. Skeletal components are visible as common to abundant molds of bivalves, common larger benthic foraminifers and gastropods, present to common corals, and rare to present bryozoans. Grain size is of very fine- sand to pebble-sized, and sorting is poor. The recovered fragments of this lithology resemble a fining upward sequence. Porosity is medium, mostly moldic and interskeletal. Within moldic spaces slight reddish stains are evident. The rock is slightly dolomitized. Between 30-39 cm vadose silt is observed

DOLOMITIC SKELETAL GRAINSTONE

Light yellowish brown

General Description: Larger benthic foraminifers are common and bryozoans are present. The sediment is very fine to coarse sand-sized and well sorted.

SKELETAL FLOATSTONE/DOLOMITIC SKELETAL FLOATSTONE

Pale brown to very pale brown

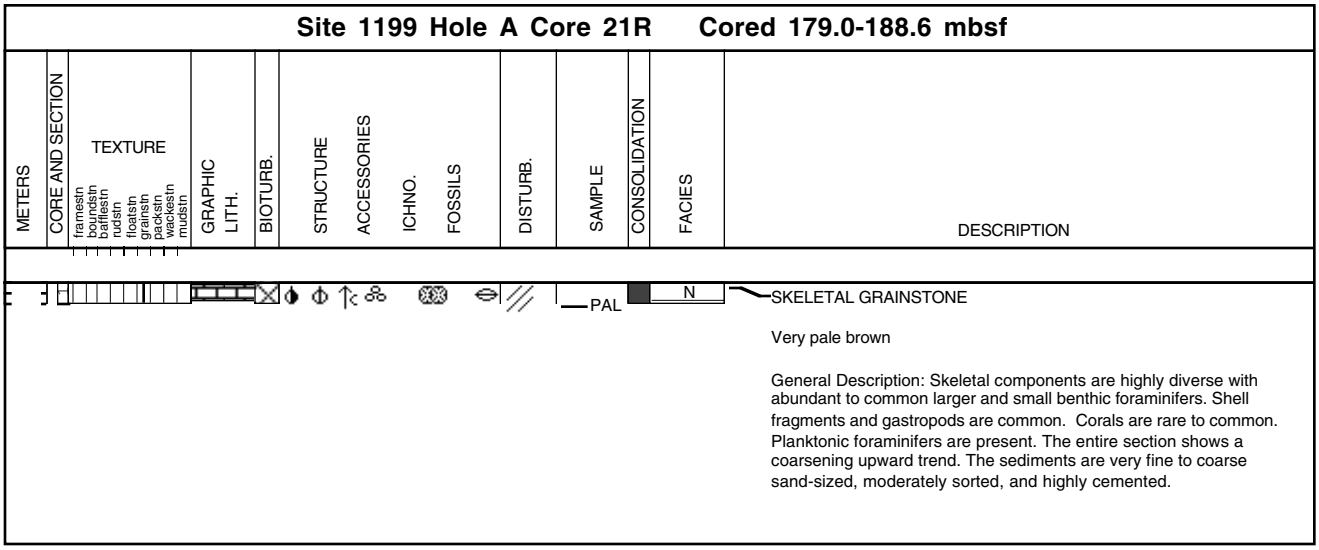
General Description: Skeletal components are abundant coral fragments and common bryozoans. Larger benthic foraminifers, bivalves, coralline algae are present, echinoids are rare. The grainstone matrix is silt to very fine sand-sized, but the entire sediment is poorly sorted. Vadose silt is observed. At 82 cm a brown colored part is evident (dolomitization?). Between 48-58 cm this lithology is only slightly dolomitized. Between 58-84 cm the sediments are more strongly dolomitized.

SKELETAL GRAINSTONE

White

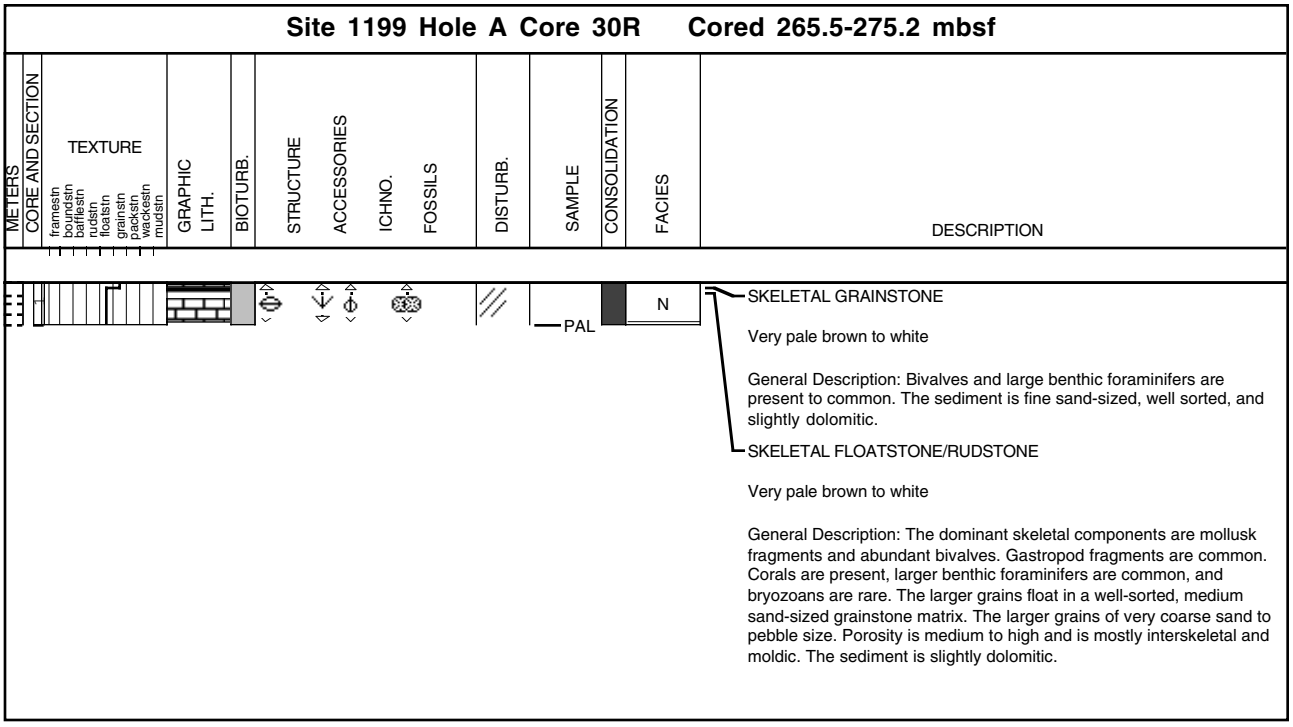
General Description: Larger (and small?) benthic foraminifers are abundant, shell fragments common, gastropods present. Solitary corals and planktonic foraminifers (?) are rare. The sediment is silt to very coarse sand-sized, and moderately sorted.

Core Photo

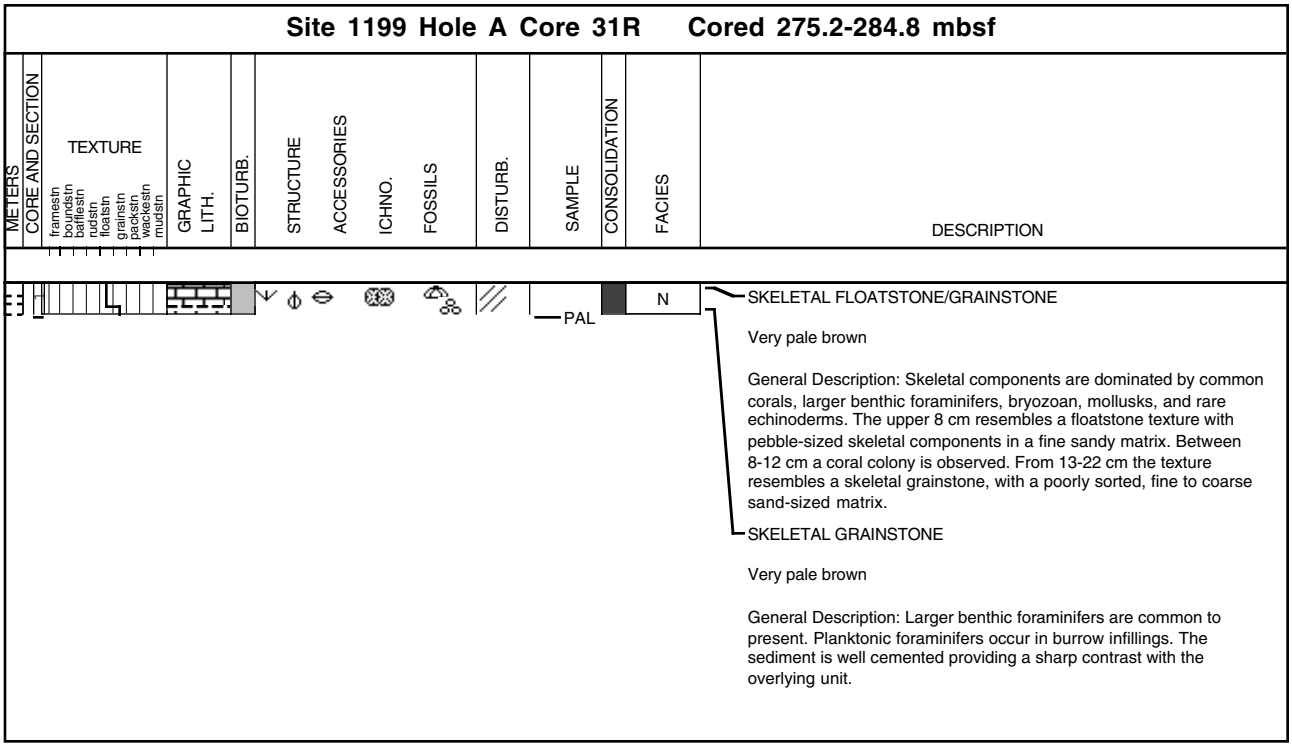


1199A-22R ENTIRE CORE TO PALEONTOLOGISTS
1199A-23R ENTIRE CORE TO PALEONTOLOGISTS
1199A-24R ENTIRE CORE TO PALEONTOLOGISTS
1199A-25R ENTIRE CORE TO PALEONTOLOGISTS
1199A-26R NO RECOVERY
1199A-27R ENTIRE CORE TO PALEONTOLOGISTS
1199A-28R NO RECOVERY
1199A-29R ENTIRE CORE TO PALEONTOLOGISTS

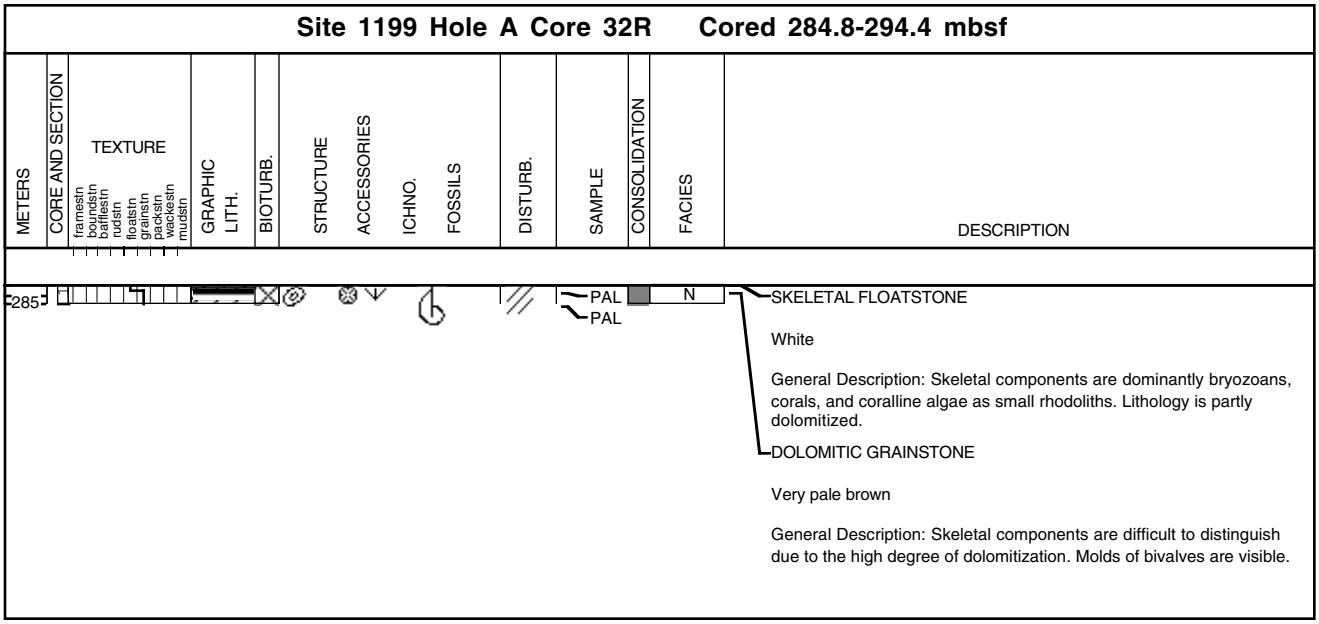
Core Photo


Site 1199 Hole A Core 30R Cored 265.5-275.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
SKELETAL GRAINSTONE
Very pale brown to white
General Description: Bivalves and large benthic foraminifers are present to common. The sediment is fine sand-sized, well sorted, and slightly dolomitic.
SKELETAL FLOATSTONE/RUDSTONE
Very pale brown to white
General Description: The dominant skeletal components are mollusk fragments and abundant bivalves. Gastropod fragments are common. Corals are present, larger benthic foraminifers are common, and bryozoans are rare. The larger grains float in a well-sorted, medium sand-sized grainstone matrix. The larger grains of very coarse sand to pebble size. Porosity is medium to high and is mostly interskeletal and moldic. The sediment is slightly dolomitic.

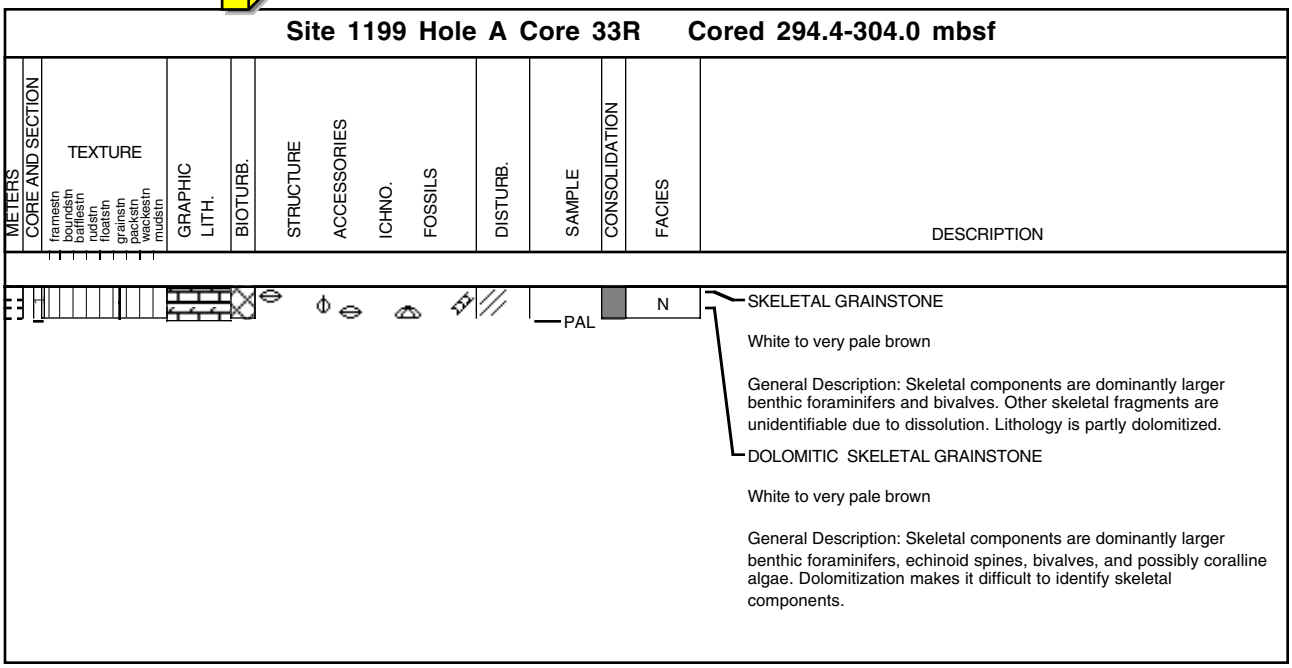
Core Photo


Site 1199 Hole A Core 31R Cored 275.2-284.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffiestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
SKELETAL FLOATSTONE/GRAINSTONE
Very pale brown
General Description: Skeletal components are dominated by common corals, larger benthic foraminifers, bryozoan, mollusks, and rare echinoderms. The upper 8 cm resembles a floatstone texture with pebble-sized skeletal components in a fine sandy matrix. Between 8-12 cm a coral colony is observed. From 13-22 cm the texture resembles a skeletal grainstone, with a poorly sorted, fine to coarse sand-sized matrix.
SKELETAL GRAINSTONE
Very pale brown
General Description: Larger benthic foraminifers are common to present. Planktonic foraminifers occur in burrow infillings. The sediment is well cemented providing a sharp contrast with the overlying unit.

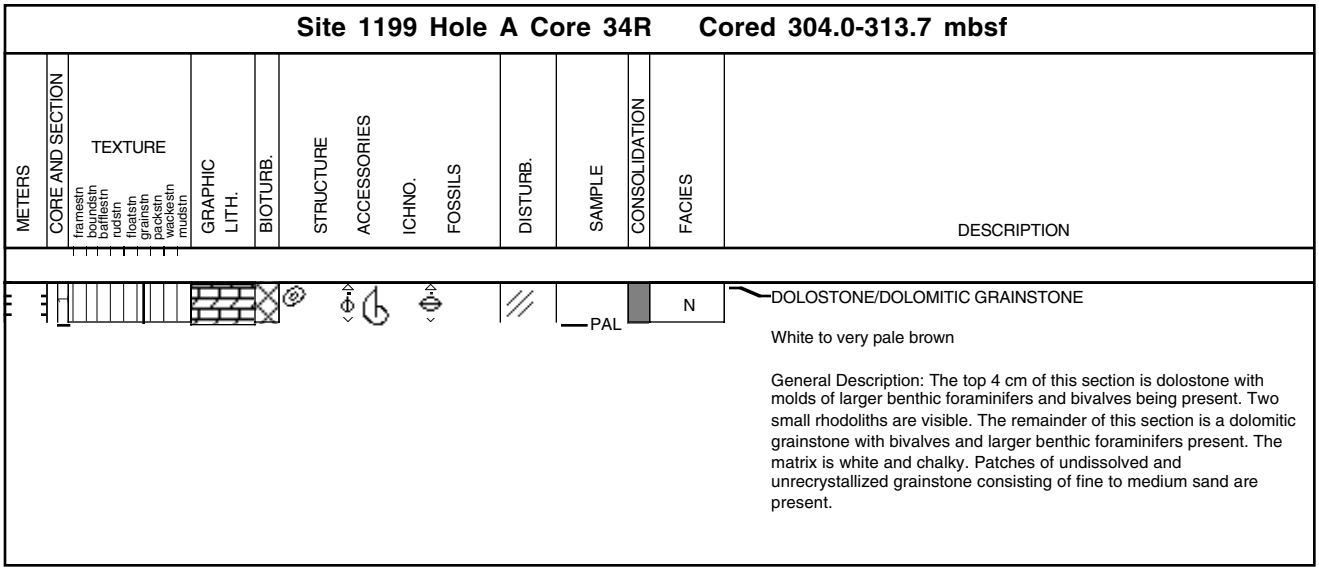
Core Photo


Site 1199 Hole A Core 32R Cored 284.8-294.4 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
285
PAL
PAL
N
SKELETAL FLOATSTONE
White
General Description: Skeletal components are dominantly bryozoans, corals, and coralline algae as small rhodoliths. Lithology is partly dolomitized.
DOLOMITIC GRAINSTONE
Very pale brown
General Description: Skeletal components are difficult to distinguish due to the high degree of dolomitization. Molds of bivalves are visible.

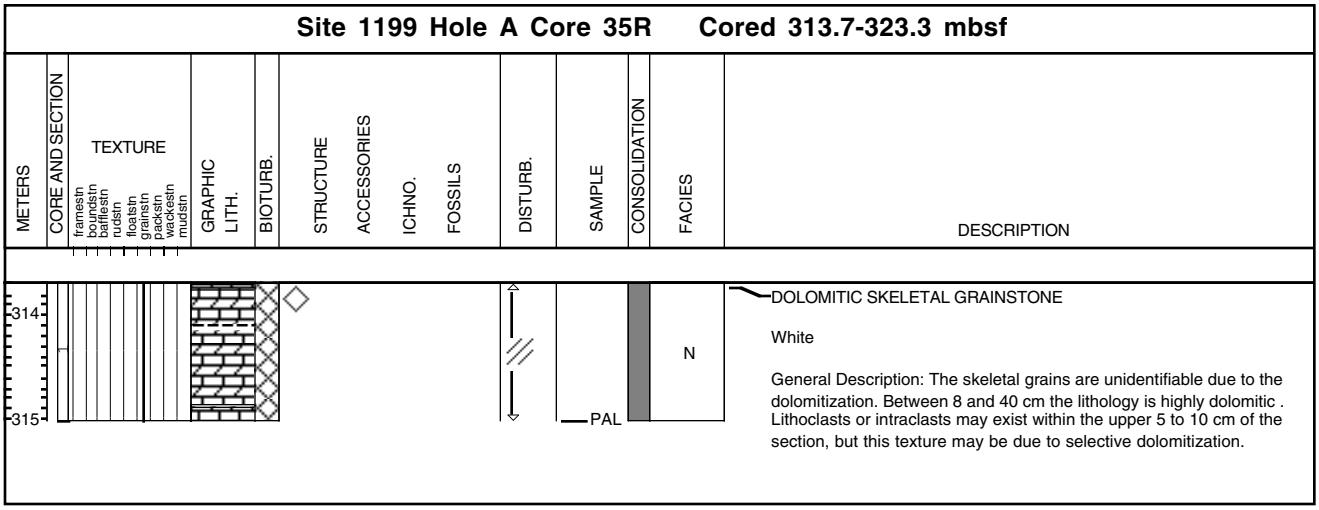
Core Photo


Site 1199 Hole A Core 33R Cored 294.4-304.0 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
SKELETAL GRAINSTONE
White to very pale brown
General Description: Skeletal components are dominantly larger benthic foraminifers and bivalves. Other skeletal fragments are unidentifiable due to dissolution. Lithology is partly dolomitized.
DOLOMITIC SKELETAL GRAINSTONE
White to very pale brown
General Description: Skeletal components are dominantly larger benthic foraminifers, echinoid spines, bivalves, and possibly coralline algae. Dolomitization makes it difficult to identify skeletal components.

Core Photo

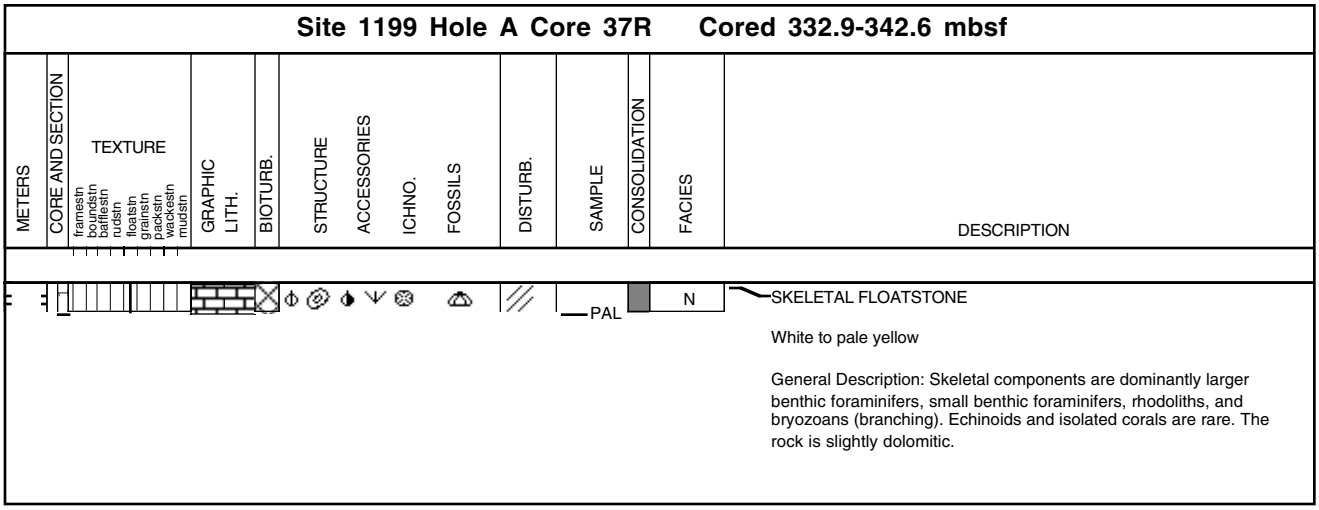

Site 1199 Hole A Core 34R Cored 304.0-313.7 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
batflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
DOLOSTONE/DOLOMITIC GRAINSTONE
White to very pale brown
General Description: The top 4 cm of this section is dolostone with molds of larger benthic foraminifers and bivalves being present. Two small rhodoliths are visible. The remainder of this section is a dolomitic grainstone with bivalves and larger benthic foraminifers present. The matrix is white and chalky. Patches of undissolved and unrecrystallized grainstone consisting of fine to medium sand are present.

Core Photo

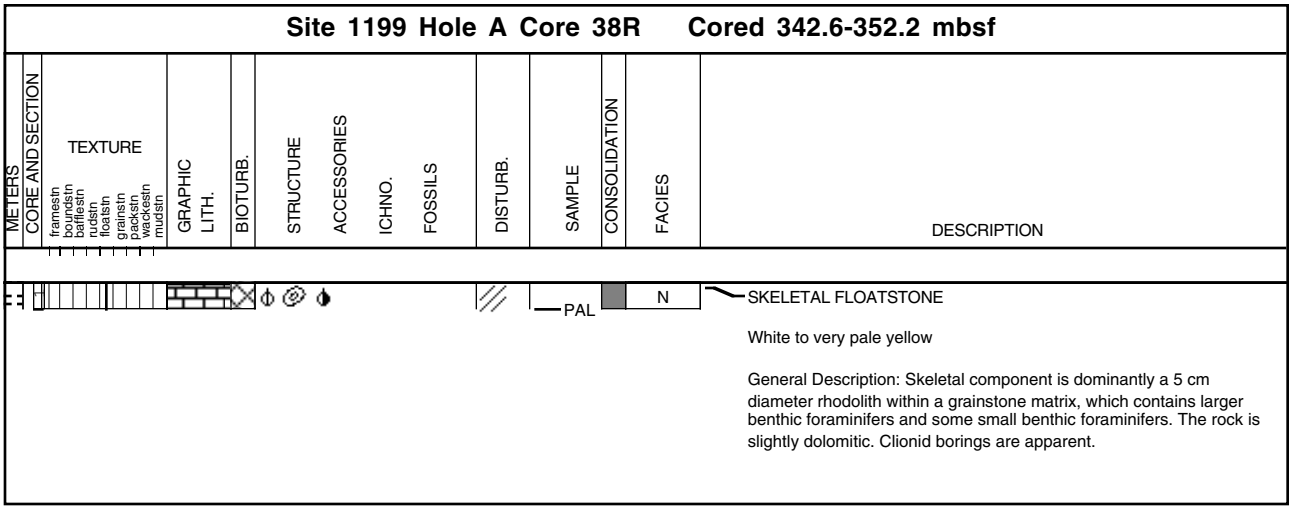


1199A-36R ENTIRE CORE TO PALEONTOLOGISTS

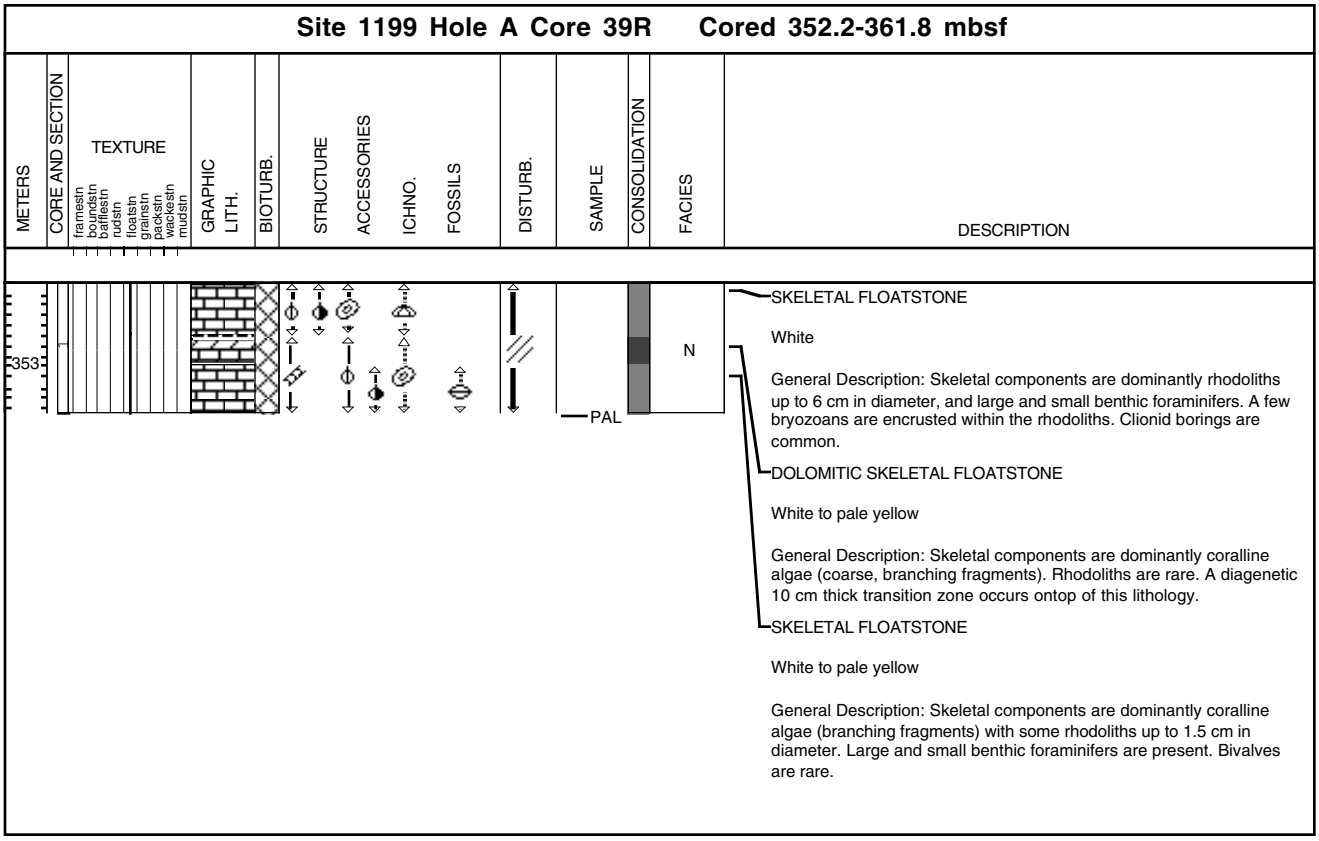
Core Photo


Site 1199 Hole A Core 37R Cored 332.9-342.6 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
SKELETAL FLOATSTONE
White to pale yellow
General Description: Skeletal components are dominantly larger benthic foraminifers, small benthic foraminifers, rhodoliths, and bryozoans (branching). Echinoids and isolated corals are rare. The rock is slightly dolomitic.

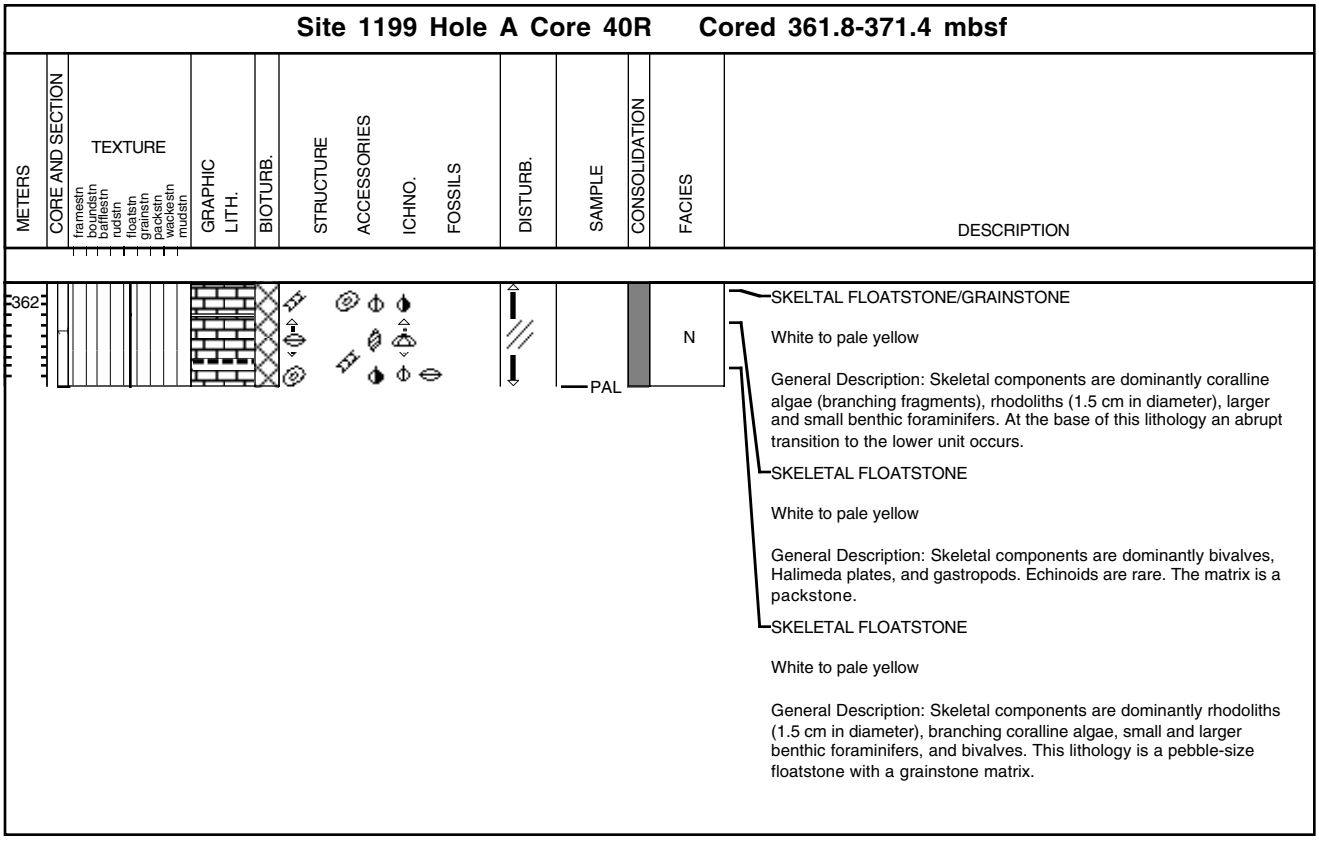
Core Photo


Site 1199 Hole A Core 38R Cored 342.6-352.2 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
SKELETAL FLOATSTONE
White to very pale yellow
General Description: Skeletal component is dominantly a 5 cm diameter rhodolith within a grainstone matrix, which contains larger benthic foraminifers and some small benthic foraminifers. The rock is slightly dolomitic. Clionid borings are apparent.

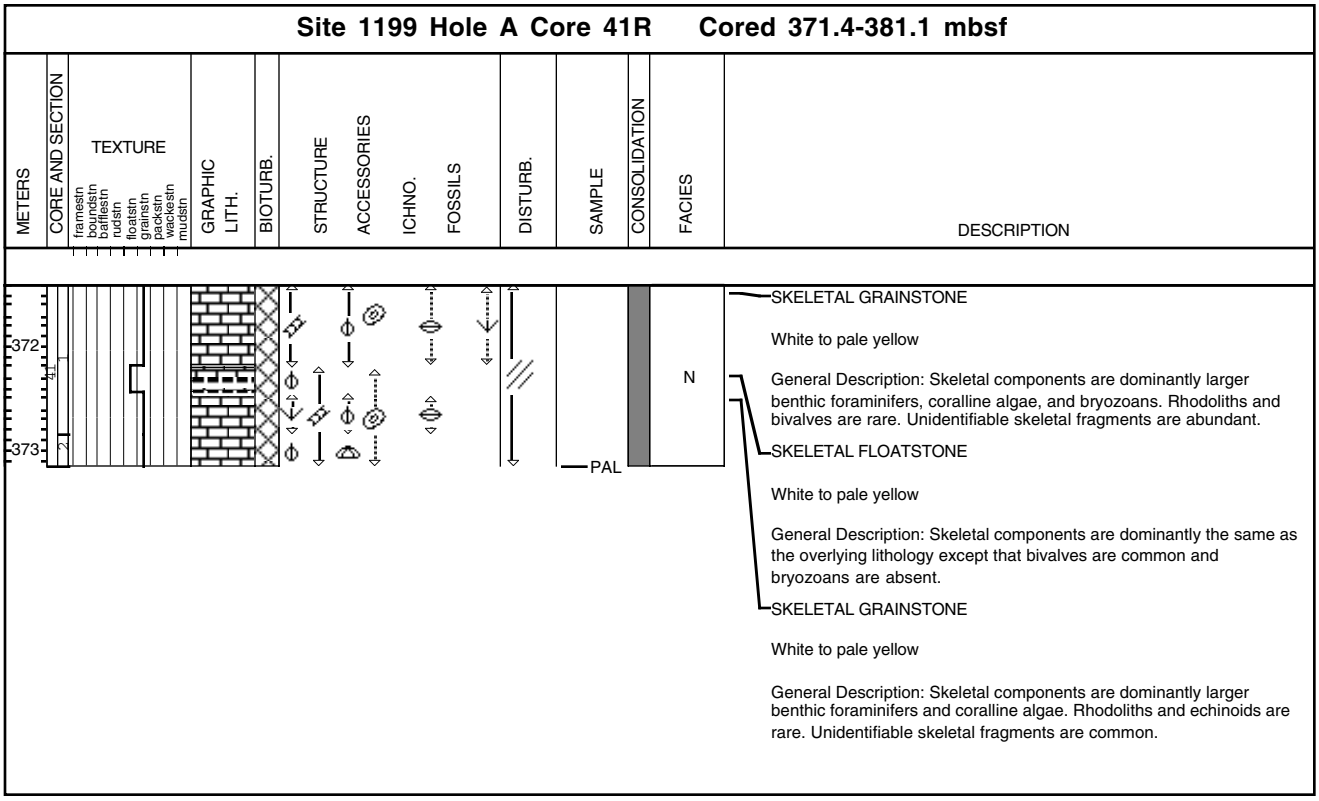
Core Photo


Site 1199 Hole A Core 39R Cored 352.2-361.8 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
353
PAL
N
SKELETAL FLOATSTONE
White
General Description: Skeletal components are dominantly rhodoliths up to 6 cm in diameter, and large and small benthic foraminifers. A few bryozoans are encrusted within the rhodoliths. Clionid borings are common.
DOLOMITIC SKELETAL FLOATSTONE
White to pale yellow
General Description: Skeletal components are dominantly coralline algae (coarse, branching fragments). Rhodoliths are rare. A diagenetic 10 cm thick transition zone occurs ontop of this lithology.
SKELETAL FLOATSTONE
White to pale yellow
General Description: Skeletal components are dominantly coralline algae (branching fragments) with some rhodoliths up to 1.5 cm in diameter. Large and small benthic foraminifers are present. Bivalves are rare.

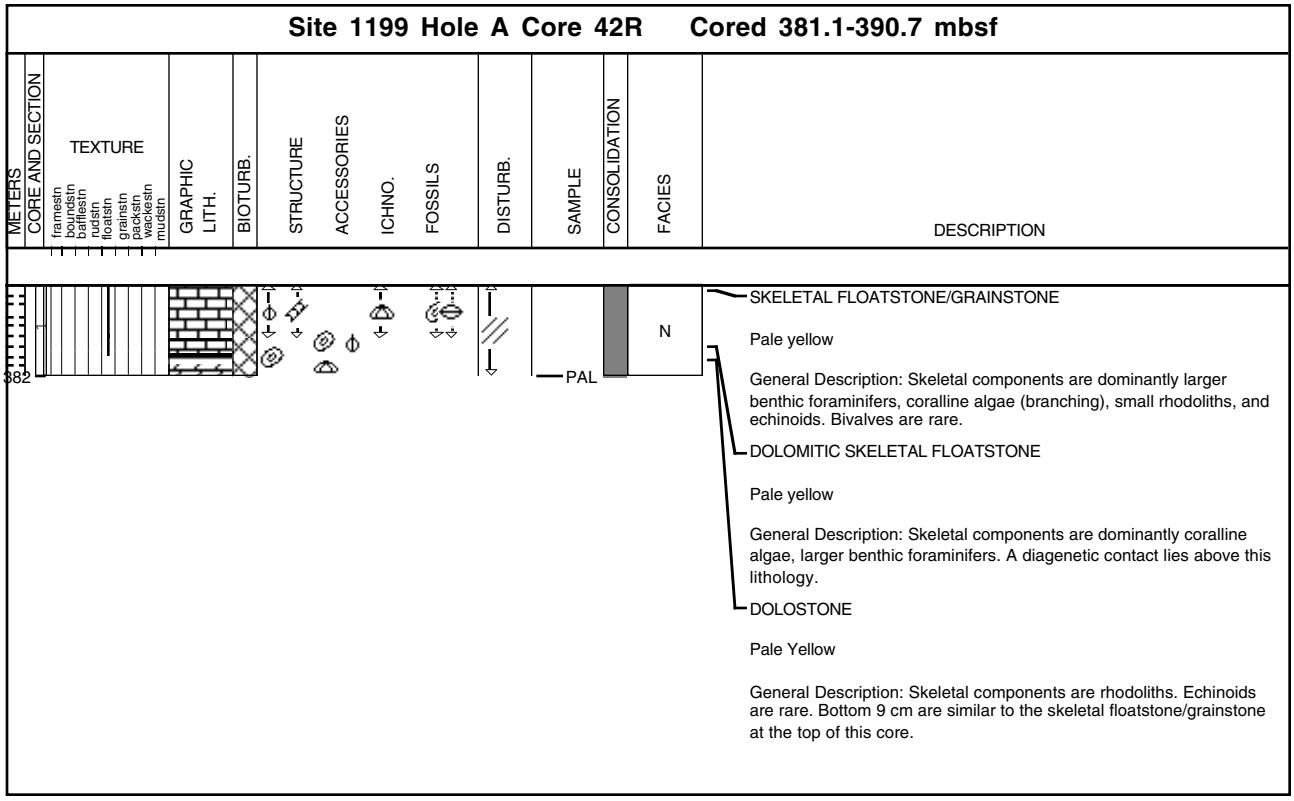
Core Photo


Site 1199 Hole A Core 40R Cored 361.8-371.4 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
362
PAL
N
SKELTAL FLOATSTONE/GRAINSTONE
White to pale yellow
General Description: Skeletal components are dominantly coralline algae (branching fragments), rhodoliths (1.5 cm in diameter), larger and small benthic foraminifers. At the base of this lithology an abrupt transition to the lower unit occurs.
SKELETAL FLOATSTONE
White to pale yellow
General Description: Skeletal components are dominantly bivalves, Halimeda plates, and gastropods. Echinoids are rare. The matrix is a packstone.
SKELETAL FLOATSTONE
White to pale yellow
General Description: Skeletal components are dominantly rhodoliths (1.5 cm in diameter), branching coralline algae, small and larger benthic foraminifers, and bivalves. This lithology is a pebble-size floatstone with a grainstone matrix.

Core Photo


Site 1199 Hole A Core 41R Cored 371.4-381.1 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
bafflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
372
373
41
1
2
PAL
N
SKELETAL GRAINSTONE
White to pale yellow
General Description: Skeletal components are dominantly larger benthic foraminifers, coralline algae, and bryozoans. Rhodoliths and bivalves are rare. Unidentifiable skeletal fragments are abundant.
SKELETAL FLOATSTONE
White to pale yellow
General Description: Skeletal components are dominantly the same as the overlying lithology except that bivalves are common and bryozoans are absent.
SKELETAL GRAINSTONE
White to pale yellow
General Description: Skeletal components are dominantly larger benthic foraminifers and coralline algae. Rhodoliths and echinoids are rare. Unidentifiable skeletal fragments are common.

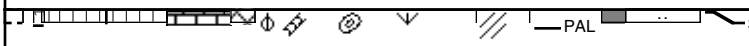
Core Photo


Site 1199 Hole A Core 42R Cored 381.1-390.7 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
382
PAL
N
SKELETAL FLOATSTONE/GRAINSTONE
Pale yellow
General Description: Skeletal components are dominantly larger benthic foraminifers, coralline algae (branching), small rhodoliths, and echinoids. Bivalves are rare.
DOLOMITIC SKELETAL FLOATSTONE
Pale yellow
General Description: Skeletal components are dominantly coralline algae, larger benthic foraminifers. A diagenetic contact lies above this lithology.
DOLOSTONE
Pale Yellow
General Description: Skeletal components are rhodoliths. Echinoids are rare. Bottom 9 cm are similar to the skeletal floatstone/grainstone at the top of this core.

Core Photo

Site 1199 Hole A Core 43R Cored 390.7-400.3 mbsf

METERS | CORE AND SECTION | TEXTURE (framestn, boundstn, baffiestn, rudstn, floatstn, grainstn, packstn, wackestn, mudstn) | GRAPHIC LITH. | BIOTURB. | STRUCTURE | ACCESSORIES | ICHNO. | FOSSILS | DISTURB. | SAMPLE | CONSOLIDATION | FACIES | DESCRIPTION

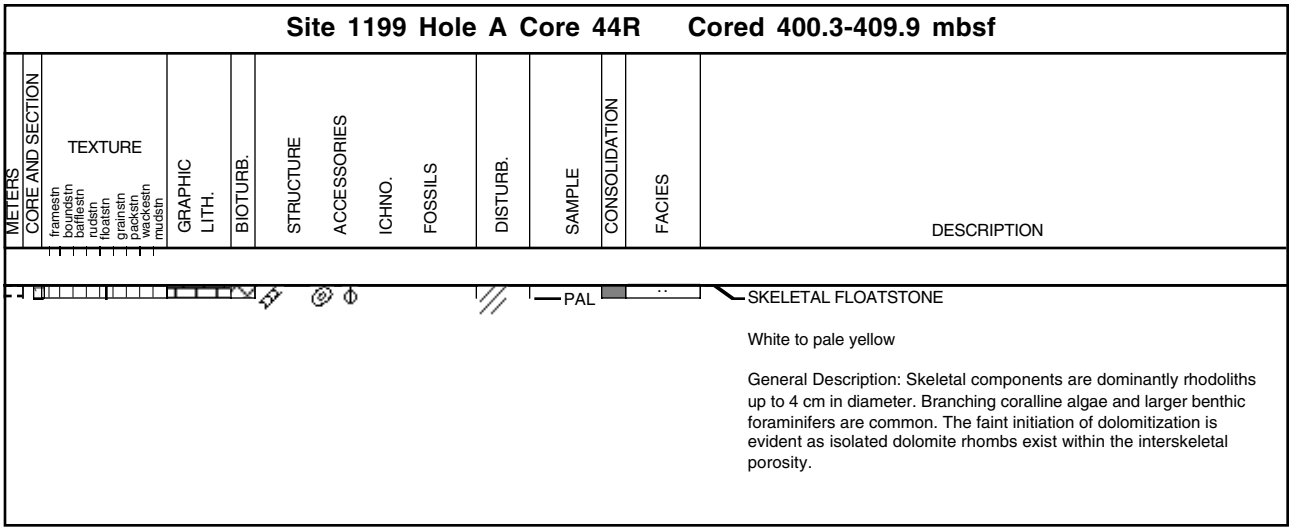


SKELETAL FLOATSTONE

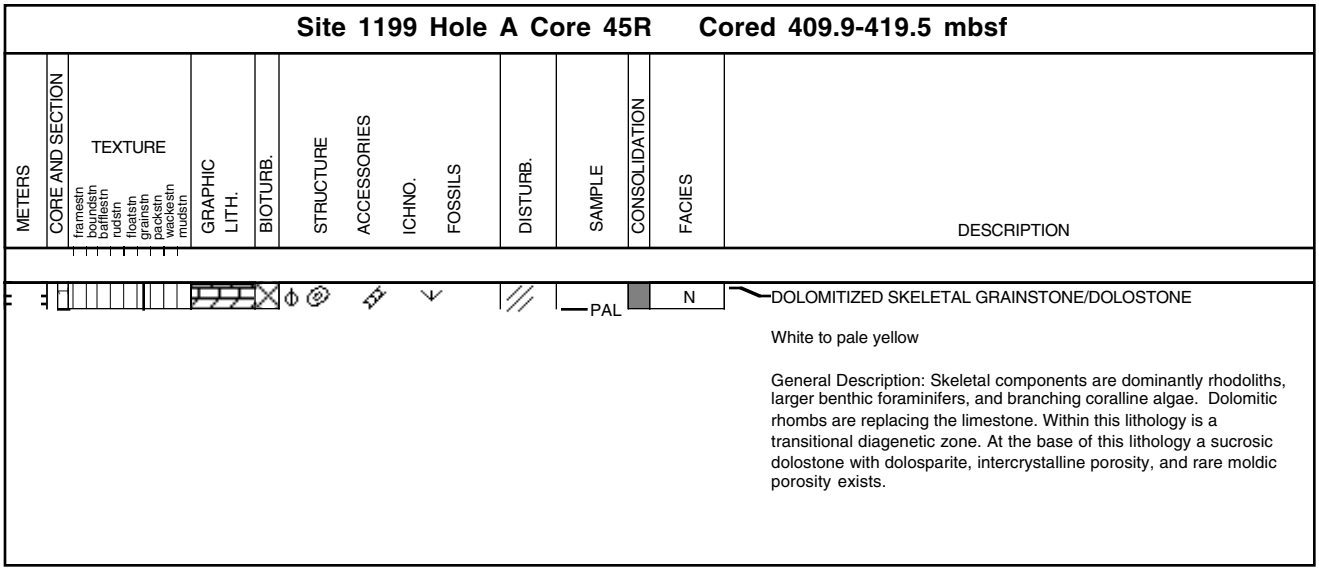
White

General Description: Skeletal components are dominantly coralline algae, branching rhodoliths (up to 3 cm in diameter), and larger benthic foraminifers. Bryozoans are rare and associated with the rhodoliths.

Core Photo


Site 1199 Hole A Core 44R Cored 400.3-409.9 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
baffllestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
SKELETAL FLOATSTONE
White to pale yellow
General Description: Skeletal components are dominantly rhodoliths up to 4 cm in diameter. Branching coralline algae and larger benthic foraminifers are common. The faint initiation of dolomitization is evident as isolated dolomite rhombs exist within the interskeletal porosity.

Core Photo


Site 1199 Hole A Core 45R Cored 409.9-419.5 mbsf
METERS
CORE AND SECTION
TEXTURE
framestn
boundstn
batflestn
rudstn
floatstn
grainstn
packstn
wackestn
mudstn
GRAPHIC LITH.
BIOTURB.
STRUCTURE
ACCESSORIES
ICHNO.
FOSSILS
DISTURB.
SAMPLE
CONSOLIDATION
FACIES
DESCRIPTION
PAL
N
DOLOMITIZED SKELETAL GRAINSTONE/DOLOSTONE
White to pale yellow
General Description: Skeletal components are dominantly rhodoliths, larger benthic foraminifers, and branching coralline algae. Dolomitic rhombs are replacing the limestone. Within this lithology is a transitional diagenetic zone. At the base of this lithology a sucrosic dolostone with dolosparite, intercrystalline porosity, and rare moldic porosity exists.

Site 1196 Thin Sections

Billet	THS	mbsf	photo	Lithology*										Mineral grains						Skeletal grains										Nonskeletal grains				Comments	Cement-minerals			Cement fabrics					Porosity							
				X	M	W	P	G	F	R	B	d	So	gl	qz	fp	py	mi	ph	bent	plank	echi	reda	rhodo	halim	bryo	serp	moll	coral	micr	extra	intra	peloid		calc	arag	dolo	meni	isop	pend	synt	drus	mosa	inter	fene	intra	mold	shel	vug	vd.silt
1196A																																																		
144	1R-1-1a	0	y				X						P		R					C	D	P	P			R				A					R													
	1R-1-1b	0	y					X	X				M							A	R	R	A		C	R		R		C					A				A		R	A		X		X				
145	1R-1-13	0.1	y				X		X				p							C	P	R	A		P	P	T	C						geopetal+vadose silt	C		P		C		R	C	P	X			X				
146	1-R-1-22	0.2	y			X	X						p							C	D	R	R			R		R							C				A			P		X			X				
147	1R-1-36	0.4	y							X			m							R			D	A	R	C									A				C			A		X		X	X				
148	1R-1-71	0.7	y					X	X				p							P		P	D	A	P	P		R							C		P		A			C	C	X			X				
149	2R-1-9	9.7	y						X	X			p							P	R	T	C		P	C		P	A						A		C		A			C	C	X			X	X			
150	4R-1-73	29.2	y					X					g							A	R	R	D		C	C									C				A		R	C	P	X			X				
151	4R-1-91	29.4	y					X					m							A		P	D	A	P	C		C																						
152	4R-1-106	29.6						X					p							A	R	P	D	A	P	P		C																						
153	5R-2-80	40.5						X					p							A		P	D	A	C	P	P	C						50% DOL.																
154	6R-1-34	47.8	y					X					p							D	R	P	A	A		C		P						50% DOL.																
155	6R-1-51	48	y					X					p							C		P	D	A		C		C					R	50% DOL.																
156	6R-1-105	48.6							X			X	p							P		P	D	A		C									C?		A				C	A	X			X				
157	9R-1-68	76.8							X			X										P	D													D				A	A	X			X				
164	10R-1-4	85.8							X			X								C		R	D			C										D				A	D	X			X				
158	10R-1-48	86.3	y						X			X								C			D	A		P										D				A	A	X			X				
159	12R-1-96	106							X			X								P			D			C										D				D	C	X			X				
160	13R-2-103	117.2	y						X			X								R		R	D	A																									
161	14R-1-132	125.6	y						X			X								A			A	A																									
162	15R-1-8	134	y				X		X											P	P		C		P	P		C	D																				
163	15R-1-13	134								X		X									T	R	D			A										D		C			A	C	X			X				
165	16R-1-70	144.2							X			X								A?		R	C											LBF molds		D				D	C	X			X				
173	16R-1-133	144.8	y					X					p							A		P	D		C	P		P																					
166	19R-1-1	172.3	y						X			X								A		P	C			C								50% DOL.		D				C	D				X				
167	19R-2-37	174.1							X			X								R			D												D				A	A				X				
168	19R-3-32	175.5	y						X			X											C																									
169	20R-1-5	182							X			X								C?			A			R										D				A	D				X				
170	20R-1-14	182					X	X					p							C	R	P	D		R	C		R							C			D			P	P	X			X				
171	20R-1-27	182.2							X			X										P	C													D						D	X			X				
172	20R-1-57	182.5					X		X				p							A	P	P	R			C		A							C			C			A				X				
174	21R-1-51	192				X	X						p							C	P	P				R	T	C						rhizocretion??	C			P			C	A			X	X				
175	22R-1-2	201.1	y					X					g							D		C	P			C		C		P		C			D					A	A	D								
176	24R-1-23	220.5	y					X					m							D		C	P			C		C		D																			
177	25R-1-45	230.4	y					X					p							D		C	P			C		C				P	A																
178	25R-1-61	230.5	y					X					g		R					A	R	P	C			P		C						no cement	C			D		R	C		X		X				
179	26R-1-12	239.7					X						p							C	R	P	P			C		C							C			A			P	C				X				
180	32R-1-3	297.6					X						p				P			A	R	C	C			P		C	P						C			C		P		A	X			X				
181	33R-1-19	307.1	y					X					g							C		P	A			R		C	R	D					D							D	X		X	X				
182	33R-1-43	308.8							X				m							C		P	D			C		P							C			C				D	X			X				
183	33R-1-121	308.1	y				X											P		D		P	A							C		C					P								X	X			
184	33R-2-42	308.8						X	X				m							A		R	A			P		C							A			C			C	D				X				
185	34R-1-70	317.3						X					g							C	T	R	C			C		A				C			C			D			C		X		X					
186	34R-1-105	317.7					X	X					m		R		A			C	R	R	P					A							C			A			C		X		X					
187	34R-1-123	317.8	y					X					p							D		C	C			P		C		C		P	C																
188	36R-1-1	335.9						X					g							A		P	C			P		P				C			A		P		A			C	C	X			X				
189	36R-1-15	336.2								X			p									P						R	D						A		P		A				C				X				
190	36R-1-39	335.3				X					X		p				R			P	R		C			P		P							C		P		C			A	A				X				
191	37R-1-2	345.5	y							X	X	X																	D							D							D			X				
192	37R-1-26	345.8	y				X		X				p				P			C	T	P	A			A		C		A					P		P		A			P	C				X				
193	37R-1-53	346	y						X			X	p							R	T	R	C					P	A								D				A	A	X			X				
194	38R-1-8	355.2							X			X								C	T	R	C			C								2 types of dolomite			D				A	D	X			X				
195	41R-1-8	384	y							X	X	X	m							P			D			A								isolated rhombs	C		A		C			P	A								

Site 1196 Thin Sections

Billet	THS	mbsf	photo	Lithology*										Mineral grains						Skeletal grains										Nonskeletal grains				Comments	Cement-minerals			Cement fabrics						Porosity							
				X	M	W	P	G	F	R	B	d	So	gl	qz	fp	py	mi	ph	bent	plank	echi	reda	rhodo	halim	bryo	serp	moll	coral	micr	extra	intra	peloid		calc	arag	dolo	meni	isop	pend	synt	drus	mosa	inter	fene	intra	mold	shel	vug	vd.silt
1196A (continued)																																																	
196	42R-1-7	394.2	y					X					g							A		R	D			C									A		P		A			C	P	X			X			
197	44R-1-70	413.4	y						X			X																								D							D	X						
198	51R-1-59	480.6	y									X										P						R								D							D				X		X	
199	51R-1-63	480.6	y									X								P		P														D							D	X					X	
200	51R-1-69	480.7	y									X																R								D							D							
201	51R-1-99	481	y									X											P													D							D						X	
202	51R-3-36	483.3	y									X										P														D							D						X	
203	52R-1-57	490.3	y									X										R														D							D						X	
204	52R-4-5	494.2	y									X																								D							D						X	
205	53R-1-35	499.7							X			X								A																D							D	X					X	
206	53R-1-94	500.2							X			X								C			A			P		P								D							D	X					X	
207	53R-2-34	501.1							X			X										P	P													D							D						X	
208	53R-2-89	501.7							X			X											A													D							D				X			
209	53R-4-52	504.4							X			X								P			C													D							D	X			X			
210	53R-4-116	504.9										X										P														D							D				X			
211	55R-1-33	518.8	y									X										P														D							D						X	
212	55R-1-112	519.6										X																								D							D	X			X			
213	56R-1-14	528.2	y									X						R				P														D							D						X	
214	56R-1-63	528.7										X																								D							D	X			X			
215	57R-1-8	537.8							X			X											A													D							D	X			X			
216	57R-1-56	538.3	y									X											P													D							D	X						
217	57R-2-99	540.2										X											C													D							A	A	X			X			
218	60R-1-47	567.1							X			X											C													D							D	X			X			
219	63R-1-80	596.3	y				X													D		C								A				Dolomite rhombs	D														
220	63R-2-83	597.8										X								P?																D							D	X			X			
221	64R-1-89	606										X							P?																	D							D	X			X			
222	64R-3-108	609.1										X								C?																D							D				X			
223	65R-2-128	617.5	y									X										R														D							A	D	X						
224	65R-3-121	618.9										X		R			C																																		
225	65R-4-9	619.2						X						R	P				A			A	C													D							A	A				X			
226	65R-5-0	620.7										X		C	R		C?			P												R			D							D	X							
227	66R-3-129	628.5										X		C	P		C?		R																D							D	X							
228	66R-4-23	629	y									X		P								P														D															
229	66R-4-77	629.5	y									X		P	C				C			R										R				D							D	X			X			
230	67R-2-2	635.1	y									X		R	C				C			P														D							D	X			X			
233	67R-2-16	635.2		X										P	D				C													C				A?							D	X							
231	70R-2-130	665.4	y	X										C	C				D	R		P				T		R				D				A?							D								
232	70R-3-14	665.7		X										C	A				D	P		P										D				C							A	A							
1196B																																																		
234#	1R-1-0	0	y				X		X				p						A	C	A	P	C			C		C	T						P				P		P	P				X	X			
235	1R-1-25/up	0.3	y		X															R	D	P								A					R															
	1R-1-25/down	0.3					X													D	C	C	P			P		P	R						P			P												
236	1R-2-136	2.8							X				m							C	P	R	D		P	C		P							C		P		A			A	C	X			X			
237	1R-3-23	3.2							X				p							P	T		D		R	C										A		C		A			A	C	X			X			
238	5R-1-46	38.7					X						p							A	P	R	C		R	C		P					C																	
284	15Z-1-27	117.2							X			X										P	D			P												D							A	A	X			X			
283	15Z-1-63	117.5							X			X										P	D			P												D		C					A	P	X			X			
285	16Z-1-124	119.4							X			X								C			A						C					crystal silt??	C		A		A					D	X			X			
286	17Z-1-31	123.2							X			X										R	A														D		C					D	X			X			
287	18Z-1-142	124.8							X			X										P	D													C		D		P			A	D	X			X			
288	20Z-1-34	130.6							X											P		C	D			A		P								A		P?		A			A	C	X			X			
289	22Z-1-7	139.8							X	X		X										R	D														D		A					D	X			X			
290	22Z-1-46	140.2								X			p								T	R	A			D		C							A				D			C		X			X			
292	33Z-1-2	184.9	y						X			X								P			C			P											D							D	C	X			X			

Site 1196 and 1199 **Thin Sections**

Billet	THS	mbsf	photo	Lithology*										Mineral grains						Skeletal grains											Nonskeletal grains				Comments	Cement-minerals			Cement fabrics					Porosity							
				X	M	W	P	G	F	R	B	d	So	gl	qz	fp	py	mi	ph	bent	plank	echi	reda	rhodo	halim	bryo	serp	moll	coral	micr	extra	intra	peloid		calc	arag	dolo	meni	isop	pend	synt	drus	mosa	inter	fene	intra	mold	shel	vug	vd.silt
1196B (continued)																																																	
291	33Z-1-51	185.4					X	X					p		T?					C		P	P			C		A					P		A						A	C				X			
293	36Z-1-0	199.1							X				p							C		P	C			D		A					P		A				P		A	D			X	X			
294	39Z-1-49	213.6	y							X			p										R			R			D						C							A	A			X				
295	40Z-1-11	217.9					X		X				p		T					C		P	P			P		C							R				A?					X		X				
296	42Z-1-9	223.6						X					m							C		P	C			A		C					P		A				C			D				X	X			
297	44Z-1-5	233						X					m						P	C		P	D			C		P				P			A							A	A			X	X			
298	45Z-1-15	234.5						X	X				m							C		P	C		T?	C		A							P				D					X		X				
1199A																																																	
335	1R-1-3	0							X			X			T					P	R	P	A					P					paleosol with Qz,PF			D					D	A				X			
336	1R-1-41	0.4							X			X								P	T	T	D		P?	C		P								A		C			D	A				X			

Notes: * = lithology abbreviations: X=basement, d=dolostone. # = large thin section. Abundance abbreviations: T = trace, R = rare, P = present, C = common, A = abundant, D = dominant.