

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Pleistocene		~	I	5Y 7/3	UNLITHIFIED PELOIDAL WACKESTONE and UNLITHIFIED MUDSTONE TO WACKESTONE Major Lithologies: This core contains pale yellow (5Y 7/3) very fine- to fine-grained, UNLITHIFIED PELOIDAL
2		2			~		5Y 7/2	WACKESTONE to white (5Y 8/1) UNLITHIFIED MUDSTONE TO-WACKESTONE. Grains identified include peloids, pteropods, echinoderm spines, benthic foraminifers, planktonic foraminifers, bioclasts, ostracodes, sponge spicules and serpulid worm tubes. The clay- to silt-sized fraction contains micrite, aragonite needles, and nannofossils.
3		3			~		5Y 7/2 To 5Y 7/1	Minor Lithologies: Two minor lithologies occur. The first, is a light olive gray (5Y 6/2) UNLITHIFIED PTEROPOD FORAMINIFER GRAINSTONE. The major components in the pebble- to fine sand-size are pteropod casts, clean pteropods, planktonic foraminifers, echinoderm spines, and gray colored clasts. The second is a light gray (5Y 7/1) PARTIALLY LITHIFIED FLOATSTONE. The cobbles present contain planktonic foraminifers and pteropods.
4		4			~		5Y 7/1 To 5Y 8/1	
5		5			~		5Y 6/2	
6		6			~		5Y 7/2	
		5				P I		
		5				M		
<p>General Description: The floatstone interval in Section 5, 23 cm to 1H-CC, 13 cm contains well-cemented parts which may be parts of an entire layer. Serpulid worm tubes are present on the top of a hardground in Section 5, 35 cm.</p>								

SITE 1008 HOLE A CORE 2H CORED 6.6 - 16.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	
1	F.F.F.F.F.F. F.F.F.F.F.F. W.W.W.W.W.W. W.W.W.W.W.W.	1	Pleistocene					UNLITHIFIED PELOIDAL WACKESTONE and UNLITHIFIED PELOIDAL MUDSTONE TO WACKESTONE	
2	W.W.W.W.W.W. W.W.W.W.W.W. W.W.W.W.W.W. W.W.W.W.W.W. M.M.W.W.W.W. M.M.W.W.W.W. M.M.W.W.W.W.	2						5Y 8/1	Major Lithologies: This core consists of light gray (5Y 8/1) UNLITHIFIED PELOIDAL WACKESTONE to pale yellow (5Y 8/2) UNLITHIFIED PELOIDAL MUDSTONE TO WACKESTONE. In addition to peloids, very fine- to fine sand-sized grains include planktonic and benthic foraminifers, pteropods (mainly casts), bivalves, tunicates, ostracodes, bioclasts and some phosphatic grains. The matrix contains micrite, and aragonite needles.
3	M.M.W.W.W.W. M.M.W.W.W.W. M.M.W.W.W.W.	3				I	S		
4	P.F.F.F.F.F. P.F.F.F.F.F. P.F.F.F.F.F. P.F.F.F.F.F. P.F.F.F.F.F. P.F.F.F.F.F. P.F.F.F.F.F. P.F.F.F.F.F.	4						5Y 6/4	Minor Lithologies: This core consists of light gray (5Y 8/1) PARTIALLY LITHIFIED FLOATSTONE to PARTIALLY LITHIFIED FLOATSTONE TO PACKSTONE. Both lithologies contain fine- to granule-sized grains like planktonic and benthic foraminifers, pteropods, ostracodes, echinoderm fragments, gastropods, lithoclasts and bioclasts. Nodules appear in these lithologies with a maximum size of 7 cm.
5	P.F.F.F.F.F. P.F.F.F.F.F. P.F.F.F.F.F. P.F.F.F.F.F.	5							
6	W.W.W.W.W.W. W.W.W.W.W.W. W.W.W.W.W.W. W.W.W.W.W.W.	6							
7	W.W.W.W.W.W. W.W.W.W.W.W. W.W.W.W.W.W.	7				I	P	5Y 8/1	General Description: In Section 4, 50 cm a hardground is present, showing a flat upper surface that is bored, whereas at the bottom fragile pteropods are cemented together. Carbonate nodules are present in Section 3, 68 cm to Section 4, 105 cm. An interval with blackened grains (probably phosphatic) occurs in Section 4, 60-105 cm.
8	W.W.W.W.W.W. W.W.W.W.W.W. W.W.W.W.W.W.	8							
9	W.W.W.W.W.W. W.W.W.W.W.W.	9							
CC		CC					M		

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1			~			<p>UNLITHIFIED PELOIDAL WACKESTONE</p> <p>Major Lithology: This core consists of light gray to pale yellow (2.5Y 8/2 to 2.5Y 7/4) UNLITHIFIED PELOIDAL WACKESTONE. In addition to peloids, fine sand-sized grains include planktonic foraminifers, benthic foraminifers, bioclasts, pteropods, shell fragments, intraclasts, ostracodes, echinoderm spines, and phosphatic grains.</p> <p>Minor Lithology: A light gray to pale yellow (2.5Y 8/2 to 2.5Y 7/4) PARTIALLY LITHIFIED FORAMINIFER PACKSTONE occurs in Section 3, 110 cm through Section 4, 120 cm. The sediment is moderately sorted. Major allochems include benthic foraminifers, planktonic foraminifers, pteropods, bioclasts, bivalve fragments, and echinoderm spines.</p> <p>General Description: The sediments are slightly to moderately bioturbated. Bioturbation appears as grayish mottling.</p>
2		2			~			
3		3			~	I		
4		3			~			
5		4	Pleistocene		~		2.5Y 8/2 To 2.5Y 7/4	
6		4			~			
7		5			~	S		
8		6			~	I P		
9		6			~		2.5Y 6/4	
10		7			~	M S	2.5Y 8/4	



SITE 1008 HOLE A CORE 4H CORED 25.6 - 35.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Pleistocene		S	S	5Y 8/1	<p>NANNOFOSSIL OOZE</p> <p>Major Lithology: This core consists of light gray to pale yellow (2.5Y 7/2 to 2.5Y 8/2) NANNOFOSSIL OOZE. Major sand-sized allochems include planktonic foraminifers, benthic foraminifers, peloids, sponge spicules, bioclasts, echinoderm debris, ostracodes, and minor shark teeth.</p>
2		2						
3		3						
4		4						
5		5						
6		6						
7		7						
8		8		I	I	2.5Y 7/2	<p>Minor Lithology: Section 1 consists of a white (5Y 8/1) UNLITHIFIED PELOIDAL WACKESTONE. In addition to peloids, planktonic foraminifers, benthic foraminifers, pteropods, and shell fragments occur.</p>	
9		9						
10		10						M

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Pleistocene		~	S	5Y 8/2 To 5Y 8/1	<p>UNLITHIFIED PELOIDAL WACKESTONE</p> <p>Major Lithology: Pale yellow to white (5Y 8/2 to 5Y 8/1) UNLITHIFIED PELOIDAL WACKESTONE. Major sand-sized allochems include planktonic foraminifers, benthic foraminifers, pteropods, bioclasts, lithoclasts, echinoderm debris, and minor fish debris.</p>
2		2			~			
3		3			~			
4		3			○ ○	I	2.5Y 8/2	<p>Minor Lithology: Section 3, 5-56 cm contains a pale yellow (5Y 8/2) NANNOFOSSIL CHALK. Interbedded in the chalk, two pieces of packstones with foraminifers, gastropods, and echinoderm spines occur (Section 3, 10 and 20 cm). Section 3, 56-103 cm consists of a pale yellow (2.5Y 8/2) UNLITHIFIED FLOATSTONE with Halimeda. In addition to this dominating component, echinoderm spines, peloids, foraminifers, and bioclasts occur. At the bottom of Section 3, 104-106 cm, a FLOATSTONE with Halimeda occurs.</p>
		4		○ ○	M			
			CC					<p>General Description: Deposits of Section 1 through Section 2 are moderately bioturbated. Bioturbation appears as mottling.</p>

SITE 1008 HOLE A CORE 6H CORED 40.2 - 49.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Pleistocene			P	5Y 8/1 To 5Y 7/1	<p>UNLITHIFIED PELOIDAL WACKESTONE and UNLITHIFIED PELOIDAL WACKESTONE TO MUDSTONE</p> <p>Major Lithologies: Light gray to pale yellow (5Y 7/1 to 2.5Y 8/2) UNLITHIFIED PELOIDAL WACKESTONE and UNLITHIFIED PELOIDAL WACKESTONE TO MUDSTONE. In addition to peloids, major sand-sized allochems include benthic foraminifers, planktonic foraminifers, bioclasts, echinoderm debris, and blackened grains.</p>
2		2					I	2.5Y 8/2
3		3				S	P	
4		4				P		5Y 8/1 To 5Y 8/2
5		5				I	S	
6		6				P		S
7		7				I	M	
8		8			P	S		
9		9			I		M	
CC		CC			P			

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1	Pleistocene					<p>UNLITHIFIED PELOIDAL MUDSTONE TO WACKESTONE</p> <p>Major Lithology: Pale yellow (2.5Y 8/2) UNLITHIFIED PELOIDAL MUDSTONE TO WACKESTONE. In addition to peloids, silt- to very fine sand-sized allochems are represented by bioclasts, planktonic foraminifers, benthic foraminifers, and tunicate spines.</p> <p>Minor Lithology: A light gray (5Y 7/1) NANNOFOSSIL OOZE with planktonic foraminifers, and minor benthic foraminifers occurs in Section 5, 80 cm through Section 6, 70 cm. In Section 5, the nannofossil ooze is separated from the overlying deposits by a 2 cm interval which is richer in clay.</p> <p>General Description: The sediments are slightly to strongly bioturbated. Bioturbation occurs as mottling.</p>
2		2						
3		3					2.5Y 8/2	
4		3						
5		4						
6		4				S		
7		5						
8		6			I P			
9		6			S	5Y 7/1 To 5Y 8/2		
		7			S			
		CC			M			

SITE 1008 HOLE A CORE 8H CORED 59.2 - 68.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1		●	~		5Y 8/2	UNLITHIFIED PELOIDAL WACKESTONE and UNLITHIFIED PELOIDAL MUDSTONE TO WACKESTONE
2		2		○ ○	~		5Y 8/1	Major Lithologies: Light greenish gray to pale yellow (5Y 8/1 to 5Y 8/2) UNLITHIFIED PELOIDAL WACKESTONE and UNLITHIFIED PELOIDAL MUDSTONE TO WACKESTONE. In addition to peloids, silt- to fine sand-sized allochems are represented by planktonic foraminifers, benthic foraminifers, and bioclasts.
3		3		○ ○ ◊	~			Minor Lithologies: Section 3, 10-65 cm contains a pale yellow (5Y 8/2) UNLITHIFIED TO PARTIALLY LITHIFIED FLOATSTONE with Halimeda debris, bivalve fragments, lithoclasts, peloids, and bioclasts. In Section 5, 0-40, 45-50, 75-79, 90-113, and 115-150 cm, layers of pale yellow (5Y 8/2) UNLITHIFIED PELOIDAL WACKESTONE TO PACKSTONE occur.
4		4		●	~			
5		5		● ○	~		5Y 8/2 To 5Y 7/2	General Description: The deposits are slightly to moderately bioturbated. Bioturbation occurs as mottling, but also as well defined burrows (e.g., Section 5, 62 cm).
6		6		● ○	~			
7		7		● ○	~			
8		8		● ○	~			
9		9		● ○	~		5Y 7/2	
		CC		● ○	~			

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				S	2.5Y 7/2	UNLITHIFIED PELOIDAL WACKESTONE and UNLITHIFIED PELOIDAL MUDSTONE TO WACKESTONE
2		2				S	5Y 7/3	Major Lithologies: Very pale olive (5Y 7/3) to pale yellow (5Y 8/2) UNLITHIFIED PELOIDAL WACKESTONE and UNLITHIFIED PELOIDAL MUDSTONE TO WACKESTONE. Other allochems in the sediments include planktonic foraminifers, benthic foraminifers, echinoderm debris, bioclasts, and minor sponge spicules. The pale yellow deposits are richer in aragonite needles than the olive colored where micrite dominates the matrix.
3		3						Minor Lithologies: In Section 4, 30 cm, a piece of PACKSTONE TO FLOATSTONE with shallow water elements, such as amphisteginid foraminifers, occurs.
4		4	Pleistocene					General Description: In Section 4, 60 cm through Section 6, 115 cm, the pale olive and the pale yellow sediments alternate in a layering with variable thickness (1-15 cm). Contacts between both lithologies are well defined. The remainder of the core does not display primary sedimentary structures. It is moderately bioturbated.
5		5						
6		6				I		
7		7					5Y 7/3 To 5Y 8/3	
8		8			www			
9		9				M		

SITE 1008 HOLE A CORE 10H CORED 78.2 - 78.7 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
		1				M	5Y 8/1	UNLITHIFIED LITHOCLASTIC FLOATSTONE
			Pleistocene	<p>Major Lithology: White (5Y 8/1) UNLITHIFIED LITHOCLASTIC FLOATSTONE. Silt- to sand-sized allochems include planktonic foraminifers (many of which are overgrown), shell fragments, and bioclasts. Large (>2 mm) lithoclasts are common within the core.</p>				

SITE 1008 HOLE A CORE 11X CORED 78.7 - 88.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
1		1				I	5Y 8/2	UNLITHIFIED LITHOCLASTIC FLOATSTONE
2		2				M		UNLITHIFIED LITHOCLASTIC FLOATSTONE
			Pleistocene	<p>Major Lithology: Light gray (5Y 8/2) UNLITHIFIED LITHOCLASTIC FLOATSTONE. Sand-sized allochems include benthic foraminifers, pteropods, and blackened grains. Larger constituents include large lithoclasts of foraminifer wackestone.</p> <p>Minor Lithologies: Section 2, 14-29 cm contains several layers of PARTIALLY LITHIFIED PELOIDAL MUDSTONE TO WACKESTONE.</p>				

1008A-12X NO RECOVERY

1008A-13X NO RECOVERY

SITE 1008 HOLE A CORE 14X CORED 106.8 - 116.1 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description
								General Description: Only rubble in core catcher (downhole contamination) .

SITE 1008 HOLE A CORE 15X

CORED 116.1 - 125.3 mbsf

Meter	Graphic Lith.	Section	Age	Structure	Disturb	Sample	Color	Description	
1		1	Pleistocene		-	S	2.5Y 8/2	<p>UNLITHIFIED BIOCLASTIC WACKESTONE and UNLITHIFIED PELOIDAL WACKESTONE</p> <p>Major Lithologies: Pale yellow (2.5Y 8/2) UNLITHIFIED PELOIDAL WACKESTONE and light gray (2.5Y 7/2) UNLITHIFIED BIOCLASTIC WACKESTONE. Allochems include silt- to sand-sized peloids, planktonic and benthic foraminifers, shell fragments, and bioclasts. The clay- to silt-size fraction, which comprises the matrix, consists primarily of micrite and aragonite needles, with minor amounts of calcareous nannofossils. Aragonite needles dominate in unlithified peloidal wackestone, while micrite dominates in unlithified bioclastic wackestone.</p>	
2		2							S
3		3							I
4		4							S
5		5							S
6		6							M
<p>Minor Lithologies: Light gray (2.5Y 7/2) BIOCLASTIC PACKSTONE occurs in Section 5, 45 - 60 cm and in the Core Catcher, 0 - 12 cm. This entire interval is slightly dolomitized. Dominant allochems are blackened benthic and planktonic foraminifers, and recrystallized skeletal grains.</p> <p>General Description: Section 1 of this core contains large lithoclasts of partially lithified mudstone and bioclastic wackestone. The clasts of the bioclastic wackestone contains Halimeda, coral fragments, and recrystallized skeletal grains. Halimeda grains and smaller lithoclasts also occur within the surrounding sediment. Below 34 cm in Section 1, the abundance of grains larger than 2 mm decreases. In Section 4, 55-134 cm, distorted beds occur in light gray unlithified bioclastic wackestone, and intercalated with overlying pale yellow unlithified peloidal wackestone.</p>									

1008A-16X NO RECOVERY

Figure 1 (Chapter 4). Key to lithologic symbols used in graphic lithology column on core description forms.

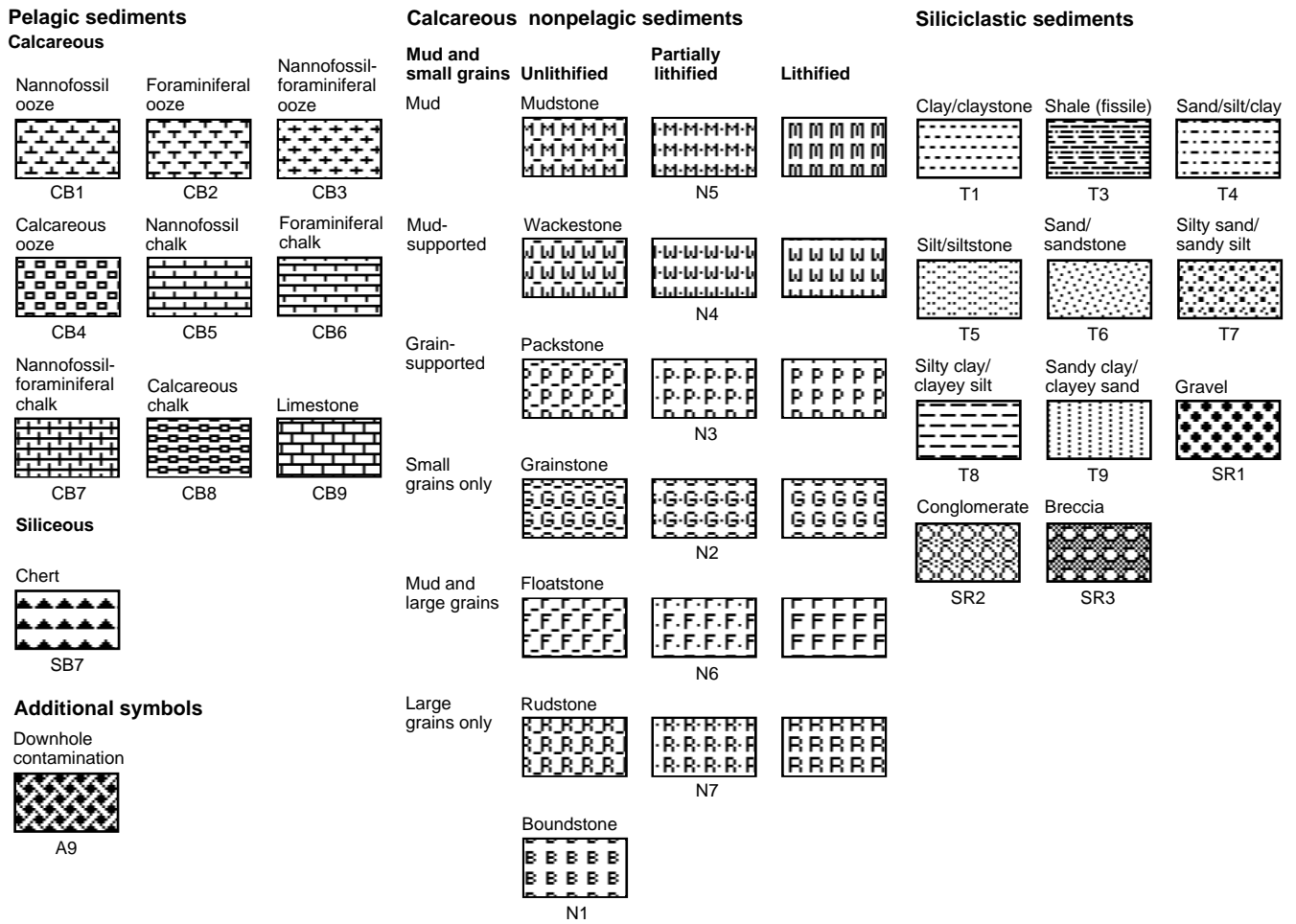


Figure 2 (Chapter 4). Symbols showing drilling disturbance and sedimentary structures used for core descriptions.

