

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	Grey 10Y 3/1	Clay	Medium Sand	Faint laminations	BI: 2 sparse		Major lithology - Very thick bedded - 75% Calc. silty mud rich burrows ↓ ↓	NN	7/Dec/21
-- 10 --									
-- 20 --									
-- 30 --							29.5 ↓ burrow 32		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --	Undisturbed								
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
143	Grey 10Y 4/1	Clay	Medium sand ↑ in burrows	Gradational contact Massive Col faint laminations	BI: 2 (sparse)		Minor lithology - Thick bedded - 25%		
-- 150 --									

Interval 1

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

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		Avg.	Max.						
		Clay		Massive (or faint laminar?)	BI:2 (sparse)		- 4 Py burrow - 5 Py layer	NN	7/Dec/2011
							- 13 (Chemical) burrow ← Greenish margin		
							Silty sand		
							partly bioturbated * Medium sand layer is present above contact (log?) thin		
39.5				Sharp contact					
-- 40 --	GLEXY 10Y3/1	Clay	Coarse sand ↑ (in burrows)	BI:2 (sparse)			- 43 } Major lithology - 49 } burrows - 60% - 51 } - Medium bedded		Interval 2
-- 50 --							Silty mud		
-- 60 --									
-- 70 --				Gradational contact ↓					
72									
-- 80 --	GLEXY 10Y4/1	Silt	Very coarse sand Granule	Massive	BI:2 (sparse)		Major lithology - 76.5 Py burrow - 40% - Medium bedded - Matrix: Silt + "floated" sand grains - Fining upward (but <u>ill sorted</u>) - Shell fragments		Silty sand
-- 90 --				probably sharp contact ↓					
92									
-- 100 --	GLEXY 10Y4/1	Clay	Medium sand ↑ (in burrows?)	Massive (faint laminar, etc?)	BI:2 (sparse)		Major lithology - Av. Silt (but this section is clay) - Very thick bedded - 75% (↔ 25% Minor)		Interval 3 ↓ to the end of this core (17R)
-- 110 --							Silty mud		
-- 120 --									
-- 130 --				Gradational change					
-- 140 --	GLEXY 10Y4/1	Silt	Granule	Massive	BI:2 (sparse)		Minor lithology - Av. silt (Matrix) + "floated" coarse sand - Medium bedded - 25% (↔ 75% Major)		Sandy silt
143				sharp contact					
-- 150 --	GLEXY 10Y4/1	Silt	Medium sand (in burrows)		BI:2 (sparse)		Major lithology - Av. (Silt)		

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		Avg.	Max.						
-- 0 --								NN	5/Dec/2011
9 -- 10 --	↑ destroyed ↓ GLEXY 10Y4/1	Silt	Granule	Gradational contact ?	BI: ?		Minor lithology Silty sand		
18 -- 20 --	GLEXY 10Y4/1	Silt	Very coarse (in burrows)	Sharp? contact	BI: 2 (sparse)		Major lithology Sandy silt		
-- 30 --				Massive					
42 -- 50 --	↑ destroyed ↓ GLEXY 10Y4/1	Silt	Granule	Gradational contact ?	BI: ?		Minor lithology		
54 -- 60 --	GLEXY 10Y4/1	Silt	Very coarse (in burrows?)	Sharp? contact			Major lithology		
-- 70 --				Massive	BI: 1?				
85.5 -- 80 --	↑ destroyed ↓ GLEXY 10Y4/1	Silt	Granule	Gradational contact ?	BI: ?		Minor lithology		
89.5 -- 90 --	GLEXY 10Y4/1	Silt	Silt	Sharp? contact lamination	BI: 2		Major lithology		
99.5 -- 100 --	↑ destroyed ↓ GLEXY 10Y4/1	Silt	Granule	Gradational contact sharp?	BI: ?		Minor lithology		
-- 110 --	destroyed	Silt	Very fine sand	contact	BI: 2 (sparse)		Major lithology		
-- 120 --				fine lamination			Silty mud		
-- 130 --									
-- 140 --	Undisturbed								
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth (m)	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
0								NN	12/21/11	
10										
20										
30										
40										
50										
60										
70										
80										
90										
100										
108										
110										
120										
130										
133										
140										
150										

Major lithology (continued from 3A)

-38 Py burrow?

-42 Py burrow

-64 shells

Gradational contact

Major lithology

Major lithology

burrows filled with fine sand

Undisturbed

disturbed

Undisturbed

GLE Y1
10Y4/1

Silt

fine sand

Massive

BI:2
(sparse)

GLE Y1
10Y4/1

Silt

Fine sand
(in burrows)

Faint lamination

BI:2
Sparse

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
								NN	5/Dec/2011
							Major lithology (continued from 4A)		
							Silty mud		
							barrows filled with sand, shells & gyrite.		
	Undisturbed								

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			Avg.	Max.						
-- 0 --	Undisturbed							NN	5/Dec/2011	Major lithology (continued from 4A)
-- 10 --							-10 - 7 -12 P ₁ burrow			
18										
-- 20 --										Paleo-sampling
23.5										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY: