

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					RDF	1/26/11
0--	Soupy						0-30 lighter, sl. reddish clay w/ bioturbation & occ pyritized burrows. also pyrite grains in ? larger shells		
10--	10YR 5/1	Clay	m sand forams		3				
20--		↓ all	↓ all	pyt.					
30--				pyt burm			30 biot. contact		
40--	10YR 5/1				3		30-95 slightly darker reddish clay w/ bioturbation & color variation, slightly lighter from 48-62cm		
50--									
60--				pyt. b.					
70--									
80--							75 cm: SS MUDDY NANNOFOSSIL OOZE		
90--	10YR 5/1			pyt. b.			gradational / biot. contact		
100--	UN DISTURBED 10YR 5/1				3		95 slightly lighter biot. clay, some color bedding on scale of 2.5 to 10 cm, continues onto next section @ 18		
110--									
120--				pyt.					
130--									
140--	10YR 5/1				3				
150--									

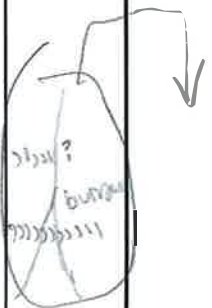
MAJOR LITHOLOGY: Terrig clay

MINOR LITHOLOGY:

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		Avg.	Max.					RDF	1/26/11
	10YR 6/1	Clay ↓ all	m sand forams ↓ all	?pyrite filling voids (not massive)	4		0-18 bioturbated clay, lighter with pyrite(?) grains filling voids. Unit seems quite well mixed by biot.		
							18-76 gradational / bioturbated darker, reddish clay unit with some (pronounced) variation in color due to bioturbation		
	10YR 5/1			37(L) side burrow w/ grains (? forams) pyt. burrow	3	(SS) →	burrow fill is forams, silt (same mat'l as elsewhere)		
	10YR 5/1						75 cm: NANNOFOSSIL Ooze WITH CLAY bioturbated bottom contact		
	10YR 6/1				3	(SS) →	76-108 sl. lighter gray clay, still some red. bioturbated, gradual bottom contact (bioturbated)		
	10YR 5/1			pyt.	3		108-123 sl. darker reddish clay w/ bioturbation. becomes gray @ bottom of interval		
	10YR 5/1				4		123- next section sl. lighter gray clay with some prominent burrows; incl vert burrow that extends 12 cm. "Eiffel Tower" burrow		

UNDISTURBED



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

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		Avg.	Max.						
								RDF	11/26/11
-- 0 --							last sect on - 21		
	10YR 6/1	Clay	m sand forams		4		lighter gray clay w/ bioturbation. less layering, maybe because of more bioturbation		
-- 10 --									
-- 20 --				20 pyt.			bioturbated bottom contact		
	10YR 5/1				3		21 21-31 slightly darker gray clay, some bioturbation, biot. bottom contact		
-- 30 --									
	10YR 6/1				4		31 31-115 slightly lighter gray clay, few internal layers visible,		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --	UNDISTURBED						75cm ss - Nannofossil ooze w/ clay		
-- 80 --									
-- 90 --									
-- 100 --	10YR 6/1								
-- 110 --									
	5Y 6/1				4		113 113- next section slightly darker clay, but seems less red. bioturbated, some		
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --	5Y 6/1								

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		Avg.	Max.					RDF	1/26/11
-- 0 --	5Y 6/1	clay	fm sand forams				top - 27 slightly lighter gray clay, bioturbation, few primary structures		
-- 10 --					4				
-- 20 --		all	all	pyt.			bioturbated contact		
-- 30 --	5Y 5/1				3		27-36 Slightly darker clay w/ some biot.		
-- 40 --	5Y 6/1						36 bioturbated contact 36-97 slightly lighter clay w. bioturbation throughout.		
-- 50 --				pyt. burr	4				
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --				pyt. b.					
-- 110 --	5Y 6/1				3		97-138 bioturbated clay very sh. darker but appears to be a little less bioturbation - gradual/bottom contact bioturbated		
-- 120 --									
-- 130 --									
-- 140 --	5Y 6/1				3		138 - next section 138 - bioturbated, slightly lighter clay.		
-- 150 --									

MAJOR LITHOLOGY: Terry clay

MINOR LITHOLOGY:

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		Avg.	Max.						
								wana-f	11/26/11
-- 0 --		clay	m sd foam				0-75.		
-- 10 --				6-27 concrete			Bioturbated gray clay Scattered pyrite grains		
-- 20 --					3				
-- 30 --	5Y 5/1								
-- 40 --				•38- pyrite					
-- 50 --									
-- 60 --									
-- 70 --									
-- 75 --				bioturbated contact					
-- 80 --	5Y 4/1	clay	m sd foam	•80 pyrite	3		75-97. dark bioturbated gray clay scattered pyrite grains		
-- 90 --				•89 pyrite					
-- 97 --				bioturbated contact					
-- 100 --		clay	m sd foam				97-151.		
-- 110 --	5Y 5/1						bioturbated grey clay continue next section.		
-- 120 --				•117 pyrite	3				
-- 130 --				•131 pyrite					
-- 140 --				•142 pyrite					
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

15/cm

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		Avg.	Max.					PDF	11/26/11
--0--	5Y5/1	clay	m sand forams		3		top-end of section all the same bioturbated slightly darker clay, some intervals have more pyrite than others. bottom contact in deeper section.		
--10--		↓ all	↓ all						
--20--				pyrite pyrite					
--30--				pyrite pyrite					
--40--									
--50--	5Y5/1			pyrite pyrite	3				
--60--				pyrite					
--70--				pyrite					
--80--									
--90--									
--100--	5Y5/1								
--110--				pyrite	3				
--120--									
--130--									
--140--									
--150--									

UNDISTURBED

75SS - Normal ooze w/ clay

Continues next core

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MINOR LITHOLOGY:

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			Avg.	Max.					RDF	11/26/11
--0--	3F	5Y 5/1	Clay	M Sand forams		3		top-end (from last section) slightly darker bioturbated clay w/some pyrite, bottom contact not in section		
--10--			↓ all		☞ py+					
--20--							27 SS	Nannooze w/ clay		
--30--	undisturbed	5Y 8/1		↓ all		3				
--40--										
--50--										
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

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		Avg.	Max.					RDF	1/26/11
0	5Y 5/1	Clay	clay m Sand forms				0-44 slightly darker bioturbated clay continues from above, no contact at bottom		
10		↓ all	↓ all	burrows					
20					4				
30									
40	5Y 5/1								
44									
44-51	VOID								
51									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

MAJOR LITHOLOGY: Terrigenous clay

MINOR LITHOLOGY: