

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					ED	28/11/11
-- 0 --	stretched									
-- 10 --								minor ↓		
								MAJOR LITHOLOGY: 2.54 6/1 GRAY BIOTURB. 3 (SLIGHTLY) medium bedded 60%		
-- 20 --		2.54 4/1 DARK GRAY	CLAY	REDUCED SAND	massive	3				
-- 30 --										
-- 40 --								MINOR LITHOLOGY: 2.54 4/1 DARK GRAY ↓ BIOTURB. 3 (SLIGHTLY) major		
-- 50 --			2.54 6/1 GRAY			massive				
-- 60 --										
-- 70 --										
-- 80 --			2.54 4/1			bioturb. contact		minor ↓		
-- 90 --			2.54 6/1			bioturb. contact		major ↓		
								Bioturbation: mainly Zoophytes Planolites and Cladocites at base of minor lithology		
-- 100 --										
-- 110 --		2.54 4/1			bioturb. contact		minor ↓			
-- 120 --		2.54 6/1			massive					
-- 130 --		2.54 4/1			bioturb. contact		minor ↓			
-- 140 --		2.54 6/1			massive					
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

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		Avg.	Max.						
-- 0 --							major ↓		
	2.54 4/1		MEDIUM SAND	bioturb. contact	3		minor ↓ MAJOR LITHOLOGY. 2.54 5/2 GRAY BIOTURB. 3 (slightly)		
-- 10 --				bioturb. contact			major medium bedded ↓ 70m		
-- 20 --	2.54 6/2			massive			MINOR LITHOLOGY 2.54 4/2 DARK GRAY BIOTURB. 3		
-- 30 --							Detailed in minor lithology with SBC 6/2 GREENISH GRAY bed		
-- 40 --				bioturb. contact			minor ↓		
-- 50 --	2.54 4/1			bioturb. contact			major ↓		
-- 60 --									
-- 70 --	2.54 6/2								
-- 80 --									
-- 90 --				massive			Bioturbation: mainly Zoophytes Planolites and Clonadites at base of minor lithology		
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --	2.54 4/1 SBC 6/2 2.54 4/1	179 121 135 138		bioturb. contact color banded			minor ↓ major ↓		
-- 140 --	2.54 6/2								
-- 150 --		153							

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

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		Avg.	Max.						
-- 0 --							major ↓		
-- 10 --	2.54 6/2	CLAY	MEDIUM SAND		3		Major lithology: 2.54 6/2 gray Bioturbation 3 (slightly) medium bedded 70%		
-- 20 --				massive					
-- 30 --									
-- 40 --							Minor lithology 2.54 4/1 dark gray Bioturbation 3		
				bioturb. contact			minor ↓		
-- 50 --	2.54 6/2			color banded			major ↓		
							minor ↓		
-- 60 --	2.54 4/2								
				bioturb. contact			major ↓		
-- 70 --									
-- 80 --									
-- 90 --	2.54 6/2			massive			Bioturbation: mainly Zoophycos Planolites, Cladites in any parts (base of minor lithology)		
-- 100 --									
-- 110 --									
				bioturb. contact			minor ↓		
-- 120 --									
				color banded					
-- 130 --	5GB 6/2								
-- 140 --							major ↓		
	2.54 6/2								
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

U1385 B

614A

185

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4A

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-0--							0-69.	wana-f	11/28/11
-10--	2.5Y 6/1	clay	fine sand (forams)				major lithology. 2.5Y 6/1 to 2.5 4/1 clay slightly bioturbated. Scattered pyrite grains.		
-20--					3				
-30--									
-40--									
-50--	2.5Y 4/1								
-60--				65-69 concretion bioturbated contact.					
-70--							69-151. major lithology. 5Y 7/1 clay slightly bioturbated. Scattered pyrite grains.		
-80--				79 pyrite nodules. 85. zoopycnes. 88 zoopycnes.					
-90--									
-100--									
-110--					3				
-120--	5Y 7/1								
-130--									
-140--									
-150--									

gradual ↑

undisturbed core.

Crack covered by sample -80--

151

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

U135

6H5A

167

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28/11/11

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 28/11/11
		Avg.	Max.						
-- 0 --							0 - 110 cm		
-- 10 --							5.4 7/2 light gray Bioturbation 3 (slightly) massive		
-- 20 --		CLAY	MEDIUM SAND	MASSIVE	3				
-- 30 --							35 cm: pyritised burrow		
-- 40 --	5.4 7/2 LIGHT GRAY								
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --				bioturbated contact			110		
-- 120 --	2.54 6/2 DARK GRAY	CLAY	MEDIUM SAND		3		110 - continuous in section 6 2.54 4/2 Dark gray (with 5.4 6/2 greenish gray spots) Bioturbation 3		
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

U1305

6H6A

168

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Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 28/11/11
		Avg.	Max.						
-- 0 --	2.54 6/1 GRAY						Minor ↓ 20-7 7-8cm: infilled burrow with forams and siliciclastic particles (sand-sized)		
-- 10 --									
		17	CLAY	MEDIUM SAND	bioturb. contact	3	major ↓		MAJOR LITHOLOGY
-- 20 --	2.54 4/1 DARK GRAY								2.54 4/1 dark gray Bioturbation 3 (slightly) medium bedded 70% + SBC 6/1 bed (greenish gray)
-- 30 --		32			bioturb. contact		minor ↓		MINOR LITHOLOGY
	2.54 6/1								2.54 6/1 gray Bioturbation 3
-- 40 --		40			bioturb. contact		major ↓		
	2.54 4/1								
-- 50 --					color banded				Bioturbation: mainly Zoophycal Gnolites
	2.54 4/1								
-- 60 --									
-- 70 --		70			bioturb. contact		minor ↓		
	2.54 6/1								
-- 80 --		83			bioturb. contact		major ↓		
-- 90 --									
	2.54 4/1								
-- 100 --									
-- 110 --									
									continue to the next section
-- 120 --									115cm-120cm 39% CaCO ₃
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

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U135

61+7A

159

339 MED 02 01 1 A
28/11/11
P. F. J. M. J. M. J. M.

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	28/11/11
-- 0 --							minor ↓ 2-5 cm: infilled burrows with sand-sized particles		
	2.5Y 6/4								
-- 10 --		CLAY	MEDIUM SAND		3		major lithology: same than minor lithology: previous section		
-- 20 --				bioturb. contact			major ↓		
	2.5Y 4/4								
-- 30 --							27-28 cm: burrow with diffusive redox edges		
-- 40 --									
-- 50 --				bioturb. contact			minor ↓		
	2.5Y 6/4								
-- 60 --							continue to the next section		
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

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U 85

6HCC A

170



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
--0--	2.5Y 4/1	clay	fine sd (forams)		3		0-9 cont: mes from above. major lithology:	navar f	11/28/11
--10--	9	↓	↓	bioturbation contact	3		2.5 4/1 clay slightly bioturbated.		
--20--	5Y 7/1								
--30--	39						9-39. major litholog.		
--39--	2.5Y 4/1			33-39 condorite			5Y 7/1 clay slightly bioturbated.		
--40--						PAL			
--50--									
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY: