



U1385 D 1H2A

257  
REDO

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RDF	Date: 11/29/11
		Avg.	Max.						
-- 0 --							<u>Sec 1H1A</u>		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

UNDISTURBED

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385D H3A

258  
RE. 1E

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RDF	Date: 11/29/11
		Avg.	Max.						
-- 0 --							see H1A		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

UNDISTURBED

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					RDF	1/29/11
-- 0 --							See 1H1A		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

UNDISTURBED

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Expedition 339: Mediterranean Outflow

U1785D 1H5A

260  
R ONE

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --								RDF	1/29/11
-- 10 --							see 1H1A		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

UNDISTURBED

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: RDF	Date: 1/29/11
			Avg.	Max.						
-- 0 --										
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

see 11A

UNDISTURBED

1385D-2H-1

Expedition 339: Mediterranean Outflow

U1385D  
U1385D

2H-1A

262

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y5/1 Greenish gray	Clay	Medium sand	Massive.	3.		Major lithology greenish gray clay with forams. top-bottom of core/cc.	Mason	29/Nov./2011
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --	undisturbed.								
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385  
UP25D 2H-2A

263

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: yasu	Date: 29/Nov./2011
		Avg.	Max.						
--0--	16Y5/1	Clay	Medium sand.	Massive	3.		Major lithology		
--10--									
--20--	Cracks								
--30--									
--40--									
--50--									
--60--									
--70--	undisturbed								
--80--									
--90--									
--100--	Cracks								
--110--									
--120--	Cracks								
--130--									
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:





Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	3		Major lithology	mas	29 Nov. 2011
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

↑  
Cracks  
↓

undisturbed

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --	Crack									
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --	undisturbed									
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --		5Y 6/2	Clay	Medium sand	B.I.	3		Minor lithology light olive gray clay with forams. 2H5A125cm - 2H6A75cm		
-- 140 --										
-- 150 --										

Bioturbated contact

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --							Minor lithology		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --							Chemical contact formed by yellowish layer.		
-- 75 --									
-- 80 --	undisturbed	10Y5/1	Clay	Medium sand	c.c.	3	Major lithology greenish gray clay with forams.		75
-- 90 --									
-- 95 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		10Y5/1	Clay	Medium sand	Massive	3		Major lithology Greenish gray clay with forams.	yaser	29/Nov/2011
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

undisturbed

}

dark mottles are scattered.

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385D  
UR35D 2HCC

26<sup>a</sup>



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		10Y5/1	clay	Medium sand	Massive	3		Major lithology	Maer	28 Nov. 2011
-- 10 --								dark mottles are scattered.		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



1385D-3H-1

11385E 3H 1A.

27

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: <i>masu</i>	Date: <i>21 Nov 2011</i>
		Avg.	Max.						
Moderate disturbance	10Y5/1	Clay	Medium sand	Massive			Greenish gray clay with forams.		
	10Y5/1	Clay	Medium sand	Massive	3		Major lithology Greenish green clay with forams.		
							Color bands.		
undisturbance	10Y6/1	Clay	Medium sand	Massive	3		Minor lithology Greenish green clay with forams.		
									dark patch mottles

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		10Y6/1	clay	Medum sand		3		Minor lithology	MAR	29/Nov/2011
-- 10 --										
-- 20 --								dark patch (burrows) mottled.		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --		10Y5/1	clay	Medum sand	Massive.	3		Major lithology		
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

undisturbance

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Mason	Date: 29/Nov/2011
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	3		Major lithology Greenish gray clay with forams.		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 86 --	10Y5/1	clay	Medium sand	Massive	3		--- 86: Minor		
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 137 --	10Y5/1	clay	Medium sand	Massive	3		--- 137 Major		
-- 140 --									
-- 150 --									

undisturbance

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: mas	Date: 29/Nov/2011
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	3		Major lithology		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --	undisturbed								
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --	10Y6/1	clay	Medium sand	Massive	3		128 minor lithology dark patch mottles		
-- 140 --	10Y5/1	clay	Medium sand	Massive	3		139 Major lithology		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

1385D 3H5A

27

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: maen	Date: 29/Nov/2011
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	3		Major lithology		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --	undisturbance								
-- 90 --									
-- 100 --									
-- 110 --	10Y6/1	clay	Medium sand	Massive	3		105 Minor lithology		
-- 120 --	10Y5/1	clay	Medium sand	massive	3		114. Major lithology		
-- 130 --									
-- 140 --							} greenish bands.		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	3		Major lithology	Mason	29/Nov/2011
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --	undisturbance								
-- 80 --									
-- 90 --									
-- 100 --	10Y5/1	clay	Medium sand	Massive	3		-- 100 Minor lithology		
-- 110 --									
-- 120 --	10Y5/1	clay	Medium sand	Massive	3		-- 123 Major lithology		
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		10Y5/1	clay	Medium sand	Massive	3		Major lithology	man	29/Nov/2011
-- 10 --	undisturbance									
-- 20 --										
-- 30 --		10Y6/9	clay	Medium sand	Massive	3		Minor lithology		
-- 40 --										
-- 50 --						zoophytes				
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y6/1	clay	Medium sand	Massive	3		Minor Lithology	Yoran	29 Nov. 2011
-- 10 --	undisturbance								
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: mas	Date: Nov 2011
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	3		Minor lithology		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --							dark patch mottles.		
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --	10Y5/1	clay	Medium sand	Massive	3 100		98 Major lithology		
-- 110 --									
-- 120 --									
-- 130 --	10Y5/1	clay	Medium sand	Massive	3		125 Minor lithology		
-- 140 --	10Y5/1	clay	Medium sand	Massive			139 Major lithology		
-- 150 --									

undisturbance.

2007/01

condites

110

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: mas	Date: 29 Nov 2011
		Avg.	Max.						
-- 0 --	1045/1	clay	Medium sand	Massive	3		Major lithology		
-- 10 --									
-- 20 --									
-- 30 --	1045/1	clay	Medium sand	Massive	3		Minor lithology dark patch mottles.		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

undisturbance.

-- 4

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385D <sup>4</sup>BH4A

28'

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									MASW	29 Nov 2011
-- 10 --										
-- 20 --		10Y5/1	clay	Medium sand	Massive	3 ↑ Coccoliths		20 Major lithology		
-- 30 --										
-- 40 --						↑ zoophores				
-- 50 --										
-- 60 --										
-- 70 --	undisturbance									
-- 80 --		10Y5/1	clay	Medium sand	Massive	3		77 Minor lithology dark patch nodules		
-- 90 --										
-- 100 --								→ φ 10mm 7mm pyrites		
-- 110 --										
-- 120 --										
-- 130 --		10Y5/1	clay	Medium sand	Massive	3		131 Major lithology		
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385D <sup>4</sup> BH5A

282

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	3.		Major lithology	mas	29 Nov 2011
-- 10 --									
-- 20 --									
-- 30 --							foram sand		
-- 40 --							dark patch mottles		
-- 50 --									
-- 60 --							pyrite		
-- 70 --									
-- 80 --									
-- 90 --	undisturbance								
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385D <sup>4</sup> 3H 6A

28

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	3		Major Lithology	Mason	29/Nov/2011
-- 10 --									
-- 20 --									
-- 30 --							foram sand		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --	undisturbed								
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385D <sup>4</sup> H7A

28

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		10Y5/1	Clay	Medium sand	Massive	3		Major lithology	Maer	29 Nov 2011
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --								sulfur speck.		
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

undisturbance

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

V1385D <sup>4</sup> HCC

28

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	3		Major zoology Foram. sand	MAN	29 Nov 2011
-- 10 --									
-- 20 --									
-- 30 --					zoo				
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									




undisturbance.

MAJOR LITHOLOGY:

MINOR LITHOLOGY:





	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: yasu	Date: 29 Nov 2011
			Avg.	Max.						
-- 0 --		↓				3				
-- 10 --		10Y 6/1						greenish gray		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --		10Y 7/1						light greenish gray		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --					massive					
-- 110 --	undisturbance	10Y 8/1						light greenish gray		
-- 120 --		10Y 5/1	clay	Medium sand	massive			114 Major lithology greenish gray clay with forams.		
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: MAM	Date: 29/Nov/2011
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	3		Major Lithology		
-- 10 --									
-- 20 --	10Y6/1	clay	Medium sand	Massive	3		18 Minor Lithology		
-- 30 --	10Y5/1	clay	Medium sand	Massive	3		27 Major Lithology		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 85 --					empty core		82		
-- 90 --							88		
-- 95 --	undisturbed core								
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: man	Date: 29/Nov/2011
		Avg.	Max.						
-- 0 --	1045/1	clay	Med-sand	Massive	3		Major lithology		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --	1046/1	clay	Medium sand	sedimentary contact concreted strata			61 Major lithology slump deposits. Greenish gray clay with fo.		
-- 70 --	1046/1	clay	Medium sand	erosional contact Massive	3 77		70 Major lithology Greenish gray clay with forams. Thick bedded		
-- 80 --	undisturbance								
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10GY5/1	clay	Medium sand		3		Major lithology	masw	29 Nov. 2011
-- 10 --									
-- 20 --									
-- 28 --	10GY5/1	clay	Medium sand		3		Minor lithology		
-- 30 --	10GY6/1	clay	Medium sand		3		greenish zone greenish gray clay with Fe-ox.		
-- 31 --					3				
-- 38 --					3				
-- 46 --	10GY5/1	clay	Medium sand		3		Major lithology		
-- 49 --					3				
-- 68 --	10GY6/1	clay	Medium sand		3		Minor lithology		
-- 72 --					3				
-- 80 --									
-- 90 --							dark patch mottle		
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

undisturbance

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y6/1	clay	Medium sand	Massive	3		Major zirconium dark patch mottles greenish gray clay with fance	MAEN	29 Nov 2011
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

undisturbance

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



1385D-6H-1

Expedition 339: Mediterranean Outflow

1385D - 6H1A

2

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: yasu	Date: 29/Nov/2011	
		Avg.	Max.							
-- 0 --	10Y5/1	clay	Medium sand	Massive	3		Major lithology Greenish gray clay with forams			
-- 10 --	Moderate disturbance (flow-in)									
-- 20 --										
-- 30 --								dark patch mottles		
-- 40 --										
-- 50 --										
-- 60 --	undisturbance									
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --							sulfur specks dark patch mottles			
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: yasm	Date: 29 Nov 2011
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	3		Major lithology		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --	10Y5/1	clay	Medium	B.C.	3		47 Major lithology Greenish gray clay with forams.		
-- 60 --									
-- 70 --									
-- 80 --	undisturbance								
-- 85 --	10Y5/1	clay	Medium sand	B.C.	3		82 Major lithology Greenish gray clay with forams. Thick bedded		
-- 90 --									
-- 95 --	10Y5/1								
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385D 6H3A.

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	}		Major lithology	man	29/Nov/2011
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --	10Y5/1	clay	Medium sand	massive	}		47 Minor lithology		
-- 60 --									
-- 70 --									
-- 80 --	undisturbance	10Y5/1	clay	Medium sand	massive	}	81 Major lithology		
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Yoon	Date: 29 Nov 2011
		Avg.	Max.						
--0--	10Y5/1						Major lithology		
--10--									
--20--							pyrite speck		
--30--									
--40--									
--50--									
--60--	10Y5/1	clay	Med. sand				61 Minor lithology		
--70--	undisturbance								
--80--		10Y6/1	clay	Med. sand				77 Major lithology Greenish gray	
--90--						89 zoophycos			
--100--		10Y5/1	clay	Med. sand				97 Minor lithology	
--110--	10Y5/1	clay	Med. sand				106 Major lithology		
--120--					118 zoophycos				
--130--					121				
--140--	10Y5/1	clay	Med. sand	B.C.			137 Major lithology greenish gray clay with Forams. Thick bedded		
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: man	Date: 22/Nov/2011
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medi sand	massive	}		Major lithology		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --	undisturbance 10Y5/1	clay	Medium sand	Massive	}		-- 80 Minor lithology		
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --							-- 130 Major lithology		
-- 140 --							<del>clay</del> broken Bivalve		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: mas	Date: 29 Nov/2011
		Avg.	Max.						
--0--	10Y6/1	clay	Medium sand	Massive	3		Major lithology		
--10--	10Y5/1	clay	Medium sand	Massive	3		Minor lithology		
--20--									
--30--									
--38--				B.C.			Bioturbated contact		
--40--	5Y5/1	Clay	Medium sand	Massive	3		Major lithology Greenish gray clay with forams. Thick bedded		
--50--									
--60--									
--70--									
--80--	10Y6/1	clay	Medium sand	Massive	3		Minor lithology Greenish gray clay with forams		
--90--									
--100--									
--110--									
--120--									
--130--									
--133--	10Y5/1	clay	Medium sand	Massive	3		Major Lithology		
--140--									
--150--									

undisturbance

MAJOR LITHOLOGY:

MINOR LITHOLOGY:







Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y6/1	clay	Medium sand	Massive	3		Minor lithology Greenish clay with forams. gray	yasn	29/Nov/201
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

undisturbance

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

U13850-7H-1

Expedition 339: Mediterranean Outflow

U13850 D

7H1 A

300

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
--0--	10Y6/1	clay	Medium sand	Massive	3		Major lithology Greenish gray clay Thick bedded. Top - bottom of core / cc	masw	29/Nov/11
--10--									
--20--									
--30--									
--40--									
--50--									
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									

undisturbance

potentially or slump??  
Roger said

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: maen	Date: 29 Nov 2001
			Avg.	Max.						
-- 0 --		10Y6/1	clay	Medium sand	Massive	3		Major lithology		
-- 10 --										
-- 20 --		5G6/1	clay	Medium sand	Massive	3		greenish zone.		
-- 20 --		10Y5/1	clay	Medium sand	Massive	3		Minor lithology Greenish gray clay with K <sub>2</sub>		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --		10Y6/1	clay	Medium sand	Massive	3		Major lithology		
-- 70 --										
-- 80 --	UD	10Y5/1	clay	Medium sand	Massive	3		Minor lithology		
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --		10Y6/1	clay	Medium sand	Massive	3		Major lithology		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Mason	Date: 29 Nov 2017
		Avg.	Max.						
-- 0 --	10Y 5/1	clay	Medium sand	Massive	}		Major lithology		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --	10Y 5/1	clay	Medium sand	Massive	}		-- 61 Minor lithology		
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --	10Y 5/1	clay	Med. sand	Massive	}		-- 119 Major lithology		
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

UD

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: maen	Date: 21 Nov 2011
		Avg.	Max.						
-- 0 --	10Y6/1	clay	Medium sand	Massive	}		Major lithology		
-- 10 --	10Y5/1	clay	Medium sand	Massive	}		Minor lithology		
-- 20 --	10Y6/1	clay	Medium sand	Massive	}	zoo + corals	Major lithology		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --	10Y5/1	clay	Medium sand	Massive	}		Minor lithology		
-- 80 --	10Y6/1	clay	Medium sand	Massive	}		Major lithology		
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

JD

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: MAM	Date: 29 Nov 2011
			Avg.	Max.						
--0--		10Y 6/1	clay	Medium sand	massive	3		Major lithology		
--10--										
--20--										
--30--										
--40--										
--50--										
--60--										
--70--		10Y 5/1	clay	Medium sand	massive			--66 Minor lithology		
--80--	UD									
--90--		10Y 5/1	clay	Medium sand	Massive			--86 Major lithology		
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385D

746A

305

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Maer	Date: 29 Nov 2011
		Avg.	Max.						
-- 0 --	10Y6/1	clay	Medium sand	Massive	3		Major lithology		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --	SA						dark patch mottles		
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: masu	Date: 29/Nov/2011
		Avg.	Max.						
-- 0 --	10Y5/1 10Y4/1	clay	Medium sand	massive			---4 Major lithology Minor lithology dark greenish gray		
-- 10 --									
-- 20 --	10Y5/1	clay	Medium sand				---14 Major lithology		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									



MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	Massive	3		Major lithology	MOSW	29 Nov 2011
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	1-Y5/1	clay	Medium sand	Messine	3		Major Top - Bottom of core / ce	Mason	29/Nov/2011
-- 10 --							Thick bedded greenish gray clay with foram.		
-- 20 --							pyrite specks		
-- 30 --									
-- 40 --									
-- 50 --							pyrite specks		
-- 60 --									
-- 70 --	UD								
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: maen	Date:
			Avg.	Max.						
-- 0 --		10Y6/1	clay	M.S	Massive	3				
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --	U D									
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --		10Y5/1	clay	M.S.	Massive	3				
-- 120 --								-- 103 Minor lith. Greenish gray clay with forams		
-- 130 --										
-- 140 --		5GY5/1	clay	M.S.	Massive	3				
-- 150 --								-- 131 Major lith.		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y6/1	clay	Medium sand.	Massive	3		Major lith	Maen	29 Nov 2011
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --	10Y5/1	clay	Medium sand	Massive	3		42 Minor litho		
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --	10Y5/1	clay	M.S.	Massive	3		122. Major lith. light patch mottles.		
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Mason	Date: 29 Nov 2011
			Avg.	Max.						
-- 0 --										
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 63 --	U.D.	10Y5/1	clay	med. sand	Massive	}		-- 63.	Minor lith.	
-- 70 --										
-- 80 --										
-- 84 --		10Y5/1	clay	med. s.	Massive	3		-- 84	Major lith.	
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

UL: 5D

8H5A

32

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Mason	Date: 29 Nov 2011
			Avg.	Max.						
-- 0 --										
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --		7.5YR5/1 Gray	clay	M.S.	Massive	3		52 Minor lith.		
-- 60 --	UD									
-- 70 --		10Y5/1	clay	M.S.	Massive	3		66 Major lith.		
-- 80 --										
-- 90 --										
-- 100 --		10YR5/1	clay	M.S.	Massive	3		94 Minor lith.		
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --		10Y5/1	clay	M.S.	Massive			146 Major lith.		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Yasun	Date: 29 Nov 2011
			Avg.	Max.						
-- 0 --		10Y5/1	Clay	M.S.	Massive	3		Major lith		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --	UD	↓ 10Y6/1								
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --								dark patch mottles		
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Expedition 339: Mediterranean Outflow

U 85D

8H7A

3



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									mae	29 Nov 2011
-- 10 --										
-- 20 --										
-- 30 --		10Y5/1	clay	Medium sand	Massive	3		-31 Minor lith.		
-- 40 --										
-- 50 --										
-- 60 --	U-D									
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



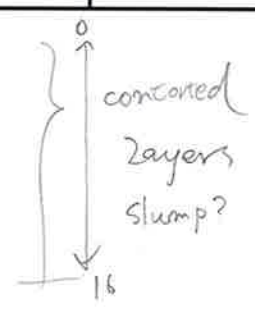
Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y5/1	clay	M.S.	Massive	3		Minor	Mason	9 Nov 2011
-- 10 --	10Y6/1	clay	M.S.	Massive	3		10 Major		
-- 20 --	10Y5/1	clay	M.S.	Massive	3		24 Minor		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

(undisturbance) CD

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
--0--	10Y5/1	clay	Medium sand	Massive	3		Major lith. Top - 9H3A 102 cm Thick bedded. Greenish gray	nam	29/Nov/2011
--10--									
--20--							sulfur specks		
--30--									
--40--									
--50--									
--54--	5G4/1	clay	Medium sand	Massive	3		Minor lithology Greenish gray		
--60--									
--70--									
--80--									
--83--	10Y5/1	clay	Medium sand	Massive	3		Major lithology sulfur specks		
--90--									
--100--	10Y5/1	clay	Medium sand	Massive	3		Minor litho.		
--110--	10Y5/1	clay	Medium sand	Massive	3		Major lithology		
--120--									
--130--									
--140--									
--150--									



undisturbance

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Mason	Date: 29 Nov. 2011
		Avg.	Max.						
-- 0 --	10X5/1	clay	Medium sand	Massive	3		Major lithology		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --	10X5/1	clay	Medium sand	Massive	3		-- 59 Minor litho.		
-- 70 --									
-- 80 --	UP								
-- 90 --	10X5/1	clay	Medium sand	Massive	3		-- 90 Major litho.		
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Maen	Date: 29 Nov. 2011
		Avg.	Max.						
-0--	10Y5/1	clay	Medium sand	Massive	3		Major lithology		
--10--									
--20--									
--30--									
--40--									
--50--									
--60--									
--70--									
--80--	UD								
--90--									
--100--									
--110--	5GY5/1	silt	Medium sand	C.C.	3		Minor lithology 9H3A102cm - 9H4A46cm Thick bedded Greenish gray silt with foram.		
--120--									
--130--									
--140--	5GY5/1	clay	Medium sand		3		Major lithology Greenish gray clay with forams.		
--150--	10Y5/1								

Color Contact -

foraminifera rich part

134

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		10Y5/1	clay	Medium sand	Massive	3		Major lithology		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --								color contact		
-- 45 --		7.5YR5/1 Gray	clay	Medium sand	c.c.	3		45 Major lithology Gray clay with forams.		
-- 50 --								9H4A 45 <sup>cm</sup> ~ 9H5A 41 <sup>cm</sup>		
-- 60 --										
-- 70 --										
-- 80 --	UD									
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --					3			mas	29 Nov 2011
-- 10 --									
-- 20 --							Bioturbation Contact		
-- 23 --	10Y7/1	clay	Medium sand	B.C.	3		Major lithology Light greenish gray clay with forams. This part is lighter than other part of this section		
-- 35 --	10Y5/1	clay	Medium sand.	B.C.	3		Major lithology 9146A35cm - bottom of core/cc. Greenish gray clay with forams.		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:	
			Avg.	Max.							
-- 0 --		10Y5/1	clay	Medium sand	massive	3		Major lithology  Greenish gray clay with forams.			
-- 10 --											
-- 20 --											
-- 30 --											
-- 40 --											
-- 50 --											
-- 60 --											
-- 70 --											
-- 80 --	AD										
-- 90 --											
-- 100 --											
-- 110 --											
-- 120 --											
-- 130 --											
-- 140 --											
-- 150 --											

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand	massive	3		Major lithology Greenish gray clay with forams		
-- 10 --									
-- 20 --	U A								
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



13850-104-1

Expedition 339: Mediterranean Outflow

U1385D

10H1A

325

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Yasun	Date: 29/Nov/2011
		Avg.	Max.						
--0--	10Y6/1	clay	Medium sand.	contorted layer	3		Minor lithology greenish gray clay with foran. Top - 10H5A49cm		contorted layer
--10--									
--20--									
--30--	5Y5/1	clay	M. sand.	massive	3		Major lithology greenish gray clay with Thick bedded foran.		
--40--									
--50--									
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									

undisturbance

silver specks.

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Mara	Date: 29/Nov/2011
		Avg.	Max.						
-- 0 --							Major lithology		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --	5GY6/1	clay	Medium sand	Massive	3		Minor lithology Greenish gray clay with foram.		
-- 50 --	Undisturbance	5GY5/1	Clay	Medium sand	Massive	3	Major lithology		
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --	5GY6/1	clay	Medium	Massive	3		Minor lithology sulfur specks		
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									Moss	29 Nov 2011
-- 10 --										
-- 20 --										
-- 30 --										
-- 33 --		5GY5/1	clay	Medium sand	Massive	3		Major lithology Greenish gray clay with forams		
-- 40 --										
-- 50 --										
-- 60 --	undisturbance									
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: <i>Yasar</i>	Date: <i>29/Nov/2011</i>
		Avg.	Max.						
-- 0 --									
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --	undisturbed								
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --		5GYS/1 Clay	Medium sand	Massive (color banded) ↓	3		-- 108		
-- 120 --									
-- 130 --		5GYS/1 Clay	Medium sand		3		-- 130		
-- 140 --								Major lithology greenish gray clay with forams.	
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sec. struct. / contact	Bioturb.	Samples	Comments	Logged by: MASM	Date: 29 Nov 2011
		Avg.	Max.						
-- 0 --									
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --							Disturbance contact.		
-- 50 --	10Y6/1	clay	Medium sand	B.C.			49 Major Lithology Greenish gray clay with forams. 2H5A 49cm - 10H6A 88cm		
-- 60 --				massive.	3		dark patch mottles Thick bedded		
-- 70 --	undisturbance								
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: moor	Date: 29 Nov. 2011
		Avg.	Max.						
-- 0 --									
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									



unstable turbance

5GYS/1  
 .....70  
 5GYS/1  
 .....71  
 5GYS/1

B.C.

50  
 Minor lithology  
 Greenish gray clay with forams.

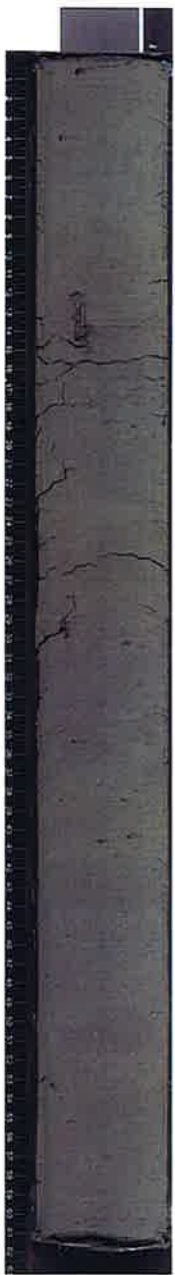
greenish zone.

Bioturbated contact.

88  
 Major lithology  
 10H6A88<sup>cm</sup> - bottom of core / cc.  
 Greenish gray clay with forams

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		10Y5/1	clay	Medium sand.	massive	3		Major Lithology	Moe	29/Nov/2011
-- 10 --								Greenish gray clay		
-- 20 --								with forams		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

undisturbed

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		10Y5/1	clay	Medium sand	Massive	3			msr	29/Mar/2011
-- 10 --	undisturbance.							Major lithology Greenish gray clay with forams.		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: KAS ST	Date: 29/Nov/2011
		Avg.	Max.						
--0--		clay	Med sand		3		<ul style="list-style-type: none"> <li>Minor lithology (25%)</li> <li>thickness: very thick bedded</li> <li>foram present</li> <li>Bioturbation: 3 (slight)</li> <li>sedimentary structure: massive</li> <li>color: 10Y 5/1</li> </ul>		
--10--									
--20--									
--30--							<p>Nanno ooze with clay</p> <p>Greenish gray clay with forams.</p>		
--40--							dark patch mottles		
--50--									
--60--									
--70--									
77				bio turbated					
--80--	5GY 6/1	clay	Medium sand	contact			<p>Nanno ooze w/ clay</p> <p>Greenish gray clay with forams.</p> <ul style="list-style-type: none"> <li>Major lithology (75%)</li> <li>thickness: very thick bedded</li> <li>foram present</li> <li>bioturbation: 3 (slight)</li> <li>sedimentary structure: massive</li> <li>color 5GY 4/1</li> </ul>		
--90--									
--100--									
--110--									
116				bio turbated					
--120--	10Y 5/1	clay	Med sand	contact	3		<p>Minor lithology</p> <p>Greenish gray clay with forams.</p> <p>Nanno ooze w/ clay</p>		
--130--					3				
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/11/30
		Avg.	Max.						
-- 0 --							<ul style="list-style-type: none"> <li><del>minor lithology</del></li> <li>(continued from 1A)</li> </ul>		
-- 10 --	undisturb						<ul style="list-style-type: none"> <li>2cm P<sub>1</sub> burrow</li> <li>15cm P<sub>1</sub> burrow</li> </ul>		
-- 20 --									
30				bioturbated					
-- 30 --				contact			<ul style="list-style-type: none"> <li>major lithology</li> </ul>		
-- 40 --	10GY 4/1	clay	medium sand (foram)	massive	BIB slight		<ul style="list-style-type: none"> <li>Muddy nanno ooze</li> </ul>		
-- 50 --							cutting trace		
-- 60 --	undisturb								
-- 70 --									
-- 80 --									
92				bioturbated					
-- 90 --				contact			<ul style="list-style-type: none"> <li>8cm P<sub>1</sub> burrow</li> </ul>		
-- 100 --	10Y 5/1	clay	medium sand (foram)	massive	BIB		<ul style="list-style-type: none"> <li><del>minor lithology</del></li> <li>Nanno ooze w/ clay</li> </ul>		
-- 110 --	undisturb								
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011 11/30
			Avg.	Max.						
-- 0 --								• minor lithology (continued from 2A)		
-- 10 --										
-- 20 --								-20 greenish layer		
-- 25 --	undisturb							-25 Py burrow		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --								-58 Py burrow		
-- 70 --								-68 Py burrow		
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
132					bioturbated contact			• <del>major lithology</del>		
-- 140 --		5G 4/1	clay	medium sand (foram)	massive	B13 slight		muddy nanoscale ooze		
-- 150 --								-150 Py burrow		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/11/30
			Avg.	Max.						
-- 0 --										
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --	undisturb									
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

major lithology  
(continued from 3A)

9cm Py burrow

39cm Py burrow

74cm greenish layer  
75cm Py burrow

87cm Py burrow

114cm greenish layer

120cm Py burrow

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									JF	2011/11/30
-- 10 --								major lithology (continued from 4A) 7cm Py burrow		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --								48cm greenish layer.		
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/11/30
		Avg.	Max.						
-- 0 --							• major lithology (continued from 5A)		
-- 10 --									
-- 20 --							20cm Py burrow		
-- 30 --									
-- 40 --									
-- 50 --	undisturb								
-- 60 --									
-- 70 --									
-- 80 --							77cm Py burrow		
-- 90 --									
99				bioturbated			97cm Py burrow		
-- 100 --	5/10Y	clay	medium sand (foram)	contact massive	BIB		• <del>major lithology</del> Nanno ooze w/ clay		
-- 110 --	undisturb				slight				
-- 120 --									
-- 130 --							133cm shell fragment		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --								• minor lithology (continued from 6A)	SF	2011/11/30
-- 10 --										
-- 20 --										
-- 30 --	undisturb									
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:





	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/11/30
			Avg.	Max.						
-- 0 --								• minor lithology (continued from 7A)		
-- 10 --	undisturb									
-- 20 --								- 20cm P <sub>1</sub> burrow		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385D-12H-1

Expedition 339: Mediterranean Outflow

U1385D

12H 1A

541

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: <i>CZ</i>	Date: 30/11/11
		Avg.	Max.						
--0--	100% 4/1	clay					Rajin lithology (0 - 150 cm) Trawls present		
--10--							Muddy nano ooze		
--20--				massive					
--30--					BI=3 slight				
--40--									
--50--									
--60--									
--70--									
--80--	undisturbed								
--90--									
76									
--100--							Py bottom		
--110--									
--120--									
--130--									
--140--									
--150--									

% in core: 75%  
bedding thickness  
→ very thick (Rajin litho)  
→ very thin (Trawls litho)

---

Rajin litho in total  
core % = 25%


MAJOR LITHOLOGY: 100% Section  
Cotnam ooze with clay (dark color)

MINOR LITHOLOGY: same (light color)

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
--0--	10Gg 10/1	same as 1A					Major lithology	C12	30/11/0
--10--				massive	BZ=3 slight				
19 --20--	10y 5/1	clay		bioturb. contact			minor lithology		
--30-- 33							Py burrows		Nanno. ooze with clay
--40--							Py burrows		
45 --50--				massive	BZ=3 slight		→ toophycus → Forams present		
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									

MAJOR LITHOLOGY: Same as 1A

MINOR LITHOLOGY: Same as 1A

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:										
			Avg.	Max.																
-- 0 --		5Gy 5/1	clay					CR	30/11/11	Minor lites										
-- 10 --																				
16																			-16: Pg bone	
-- 20 --																				
-- 30 --																				
-- 40 --																				
40																				-48: Pg bone
-- 50 --																				
-- 60 --																				
-- 70 --																				
-- 80 --																				
-- 90 --																				
-- 100 --																				
-- 110 --																				
-- 120 --																				
127																				
-- 130 --																				
-- 140 --																				
-- 150 --																				

MAJOR LITHOLOGY: Same as 1A

MINOR LITHOLOGY: Same as 1A

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--		10G-y 4/1	clay						AE	30/11/11
--10--										
--20--	undisturbed				fine					
--30--										
--40--										
--50--		10G-y 5/1	clay		bioturbated contact					
--60--										
--70--										
--80--					fine					
--90--	undisturbed									
--100--										
--110--										
--120--										
122		10G-y 4/1	clay		bioturbated contact					
--130--	undisturbed									
--140--					fine					
--150--										

MAJOR LITHOLOGY: Same as 1A

MINOR LITHOLOGY: Same as 1A



Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: <i>CRZ</i>	Date: <i>30/11/99</i>
		Avg.	Max.						
--0--	5G-y 4/1	clay					Major litho multicol: 50y 511 Foram present -20: Py burrow		
--10--									
--20--									
--30--									
--40--									
--50--									
57							-57: Py burrow		
--60--									
67				massive	BZ=3		-67: Py burrow		
--70--									
--80--	undisturbed								
93							-93: Py burrow		
--100--									
--110--									
--120--									
128							- Py burrow		
131	5G-y 5/1			massive	BZ=3		-131: bio tubed contact		
--140--									
142							-144: Py burrow		
--150--							-150 Py burrow		

MAJOR LITHOLOGY: Same as 1A

MINOR LITHOLOGY: Same as 1A

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		5Gy 5/1	clay						AE	30/10/14
-- 10 --										
-- 20 --	undisturbed				laminar	B1-3				
-- 30 --		5Gy 4/1	clay							
-- 40 --	undisturbed				laminar	B2-3				
-- 50 --										
-- 60 --		10Gy 4/1	clay							
-- 70 --					laminar	B3-3		Overlap Mudcr Nanno ooze		
-- 80 --		5Gy 4/1	clay							
-- 90 --								Zoophgan Tram pores		
-- 100 --	undisturbed				laminar	B3-3				
-- 110 --										
-- 120 --										
126 -- 130 --								-129: Py burrows		
-- 140 --										
145 -- 150 --								-145: Py burrows		

MAJOR LITHOLOGY: Same as LA

MINOR LITHOLOGY: Same as LA

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
								LR	30/8/99
-- 0 --							Thin to thick		
	5G9						→ Zoophagous		
-- 10 --	5/1						Foram present		
-- 20 --									
22							22 Py boxes		
-- 30 --									
-- 40 --									
44									
-- 50 --	10Y						Foram present		
	5/1								
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY: Same as 1A

MINOR LITHOLOGY: Same as 1A



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		10g	clay					CR	30/10/14	
-- 10 --	Undisturbed	5/1			100% IP	S2, S3	Fossils present - 15 m by bottom			
15										
-- 20 --										
24										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY: Same as 1A

MINOR LITHOLOGY: Same as 1A

1385D-1314-1

U1385D

1314

1A

3A7

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --								AS ABOVE		
-- 10 --	No	5GY 4/1						Muddy nanno ooze		
-- 20 --		10GY 4/1			Massive	Slight		Colour change contact Dark grey clay Muddy nanno ooze		
-- 30 --								Colour change contact Dark grey clay		
-- 40 --	No	5GY 4/1			Massive	Mediate		Muddy nanno ooze		
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
- 0 --								AS ABOVE		
- 10 --								- PB @ 10 Forams present		
- 20 --										
- 30 --										
- 40 --										
- 50 --										
- 60 --										
- 70 --								Colour change contact (bioturbated) Dark grey clay with a 10G4 1/1 mottle Forams present		
- 80 --		5G4 1/1			MASSIVE					
- 90 --										
- 100 --						Moderate				
- 110 --										
- 120 --										
- 130 --										
- 140 --		5G4 4/1			MASSIVE	Moderate		Colour change contact Dark grey clay Forams present		Muddy mass no ooze
- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	AS ABOVE						AS ABOVE		
-- 10 --									
-- 20 --									
-- 30 --							Colour change contact.		
-- 40 --	104 5/1			Massive	Mediate		Dark grey clay forams present		
-- 50 --	NO						<del>Muddy</del> Nanno ooze w/ clay		
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --							Colour change contact		
-- 110 --	544 6/1			Massive	Mediate		mid-grey clay with a 5445, mottle forams present		
-- 120 --									
-- 130 --							Colour change contact		
-- 140 --	544 4/1			Massive	Mediate		Dark grey clay with a 1044 4/1		
-- 150 --							<del>544</del> <del>4/1</del> Muddy nanno ooze		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --	As ABOVE	↑						As ABOVE Forams present		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

-PB@37

-PB@101

-PB@137-138

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --										
-- 20 --										
-- 30 --	AS ABOVE									
-- 40 --										
-- 50 --								Colour change contact		
-- 60 --	NO	10G4 4/1			Massic	Moderate		Dark grey clay with a 10G4 4/1 mottle Forams present		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --		5G 4/1			Massic	Moderate		Colour change contact Dark grey clay Forams present		
-- 120 --								colour change contact (bioturbated)		
-- 130 --		10G4 4/1			Massic	Moderate		Mid grey clay Forams present		
-- 140 --										
-- 150 --										

AS ABOVE

Muddy nano ooze  
to end of  
13H-CC

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --		AS ABOVE						AS ABOVE		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --								Colour change contact (disturbed) Light grey clay		
-- 90 --	No	10% 4/1			Massive	Modest		- PB@ 86 Forams present  with a SGY 4, mottle!		
-- 100 --										
-- 110 --										
-- 120 --								- PB@ 120		
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --								AS ABOVE		
-- 10 --	No	10y 4/1			Massive	Modest		- PB@3 Colour contact (bioturbated) Dark grey clay with SQY 3/1, mottle @ base		
-- 20 --								Colour contact (bioturbated) Mid grey clay Fossils present		
-- 30 --		10y 4/1								
-- 40 --	No				Massive	Modest		- PB@38		
-- 50 --										
-- 60 --								- PB@58		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --								AS ABOVE		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 20/11/30
			Avg.	Max.						
--0--	Fall in							Fall in		
								As pre last section 134.		
--10--								Forams present		
--20--		10Y 4/1						- PB@23		
--30--					3 Slight			- PB@27		
--40--										
--50--								Colour change contact		
--60--	No	10G4 4/1			3 Slight			Dark grey clay with SG 4, mottle		
64								Foram fill in burrow @62	<del>MNO</del> nanno ooze with clay	
								Colour change contact (bioturbated)		
--70--		10Y 4/1			3 Slight			Grey clay forams present		
--80--	No							- 73 Zoophycos		
								- PB@78	<del>MNO</del> MNO	
--90--										
96								Colour change contact		
--100--	No	10G4 4/1			3 Slight			PB@99 Forams present		
								Dark grey clay with a SG 4, mottle	<del>MNO</del> nanno ooze with clay	
								Colour change contact (bioturbated)		
--110--		10Y 4/1						Mid grey clay forams present		MNO
--120--	No				3 Slight					
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/11/30
			Avg.	Max.						
-- 0 --		As above								
-- 10 --		↑						AS ABOVE		
-- 20 --								Forams present		
-- 30 --								↑		
-- 40 --										
-- 50 --								-PB@45		
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --		1044 1/1								
-- 120 --								-PB@116		
-- 130 --								-PB@121		
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/11/30
			Avg.	Max.						
-- 0 --										
	AS ABOVE							AS ABOVE		
-- 10 --										
-- 20 --	NO									
29										
-- 30 --								Colour change contact (gradational) Dark grey clay		
	NO	10GY 4/1			Massive 3 Slight					
-- 40 --										
45								Colour change contact (bioturbated) Mid. Grey clay Forams present		
-- 50 --										
	NO	10Y 4/1			Massive 3 Slight					
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
								PB @ 100-104		
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/11/30
			Avg.	Max.						
-- 0 --								continued from 34.		
-- 10 --								foram present.		
-- 20 --								20cm Py burrow		
-- 30 --										
-- 40 --	und disturb					BI-3 slight				
-- 50 --										
-- 60 --										
-- 70 --										
76					Bioturbated contact					
-- 80 --								86cm Py burrow		
-- 90 --	und disturb	5GT 5/1		clay	medium sand (foram)	BI-3 slight		foram present Nanno ooze with clay		
-- 100 --										
-- 110 --										
-- 120 --										
126					Bioturbated contact					
-- 130 --	und disturb	5GT 4/1		foram	medium sand	BI-4 moderate		Muddy nanno ooze 134~139cm Py burrow		
-- 140 --										
-- 150 --								150cm Py burrow		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/11/30
			Avg.	Max.						
-- 0 --	undisturb							continued from 4A		
9cm.										
-- 10 --										
-- 20 --										
-- 30 --								foram present.		
-- 40 --	undisturb	5/1	clay	medium sand (foram)	massive	BI3 slight		Nannofossil ooze with clay		
-- 50 --										
-- 60 --								56cm Py burrow		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --								105cm Py burrow 108cm Py burrow		
-- 120 --								115cm Py burrow		
-- 130 --										
-- 140 --								142cm Py burrow		
143	undisturb	4/1						147cm Py burrow		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/11/30
			Avg.	Max.						
-- 0 --	undisturbed							(continued from 5A)		
10.					bioturbated					
-- 10 --					contact		1/8			
-- 20 --								foram present		
-- 30 --	undisturbed	clay	medium sand (foram)	massive	BI3 slight			Nanno ooze w/ clay		
-- 40 --										
-- 50 --										
59.					bioturbated					
-- 60 --	undisturbed	clay	medium sand (foram)	massive	BI3 slight			dark foram present		
-- 70 --								67cm greenish layer 68cm Py burrow	Nanno ooze with clay	
78					gradational					
-- 80 --					contact			light		
-- 90 --	undisturbed	clay						foram present		
-- 100 --								98cm Py burrow	Muddy Nanno ooze	
-- 110 --								107cm Py burrow		
-- 120 --								123cm Py burrow		
-- 130 --										
-- 140 --										
-- 150 --		clay	medium sand (foram)	disturbed	contact	BI3 slight		dark	Nanno ooze with clay	

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

2011/02/14 14:14  
363/2011/02/14  
Form 000000-04

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --	undisturb								SF	2011/11/30
-- 10 --										
16					disturbed contact					
-- 20 --	undisturb									foam present
-- 30 --										
-- 40 --					massive	B13 slight				Nanno ooze with clay
-- 50 --										
-- 60 --										
65										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										



MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF	Date: 2011/11/30
			Avg.	Max.						
-- 0 --								light (continued from 7A.)		
-- 10 --										
-- 20 --										
22. PAL										
27. -- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --	Fall in							Core disturbance		
-- 10 --										
-- 15 --										
-- 20 --		5G4 4/1			Massive	Slight		Mid grey clay Nanno ooze w/ clay		
-- 30 --										
-- 40 --								Color change contact (gradational) Mid to Light grey clay		
-- 50 --		5G4 5/1			Massive	Slight		Forams present		
-- 60 --								Nanno ooze with clay		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --		5G4 5/1			Massive	Moderate		Colour change contact (disturbed) Light grey mottled with 5G4 Concentration of bioturbation! in this unit Muddy nanno ooze		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Expedition 339: Mediterranean Outflow

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --	AS	ABOVE						AS ABOVE Nanno ooze w/ clay		
-- 20 --										
26								Colour change contact (bioturbated)		
-- 30 --	NO	10YG 4/1			Massive	Slight		Colour change contact (bioturbated)		
-- 40 --	NO	5GY 4/1			Massive	Slight		Mid grey clay forams present Muddy nanno ooze		
-- 50 --										
59								Colour change contact (Bioturbated)		
-- 60 --										
-- 70 --	NO	10Y 4/1			Massive	Slight		Light grey clay. Forams present Nanno ooze w/ clay		
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

- PB@95

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --								As above		
-- 20 --										
-- 30 --										
-- 40 --	NO							Nanno ooze w/ clay		
-- 50 --										
-- 60 --										
-- 70 --										
78								Colour change contact (bioturbated)		
-- 80 --					Massive	Slight		Light grey clay		
-- 90 --	NO	SG4 5/1						Interbedded Nanno ooze w/ clay & Clayey nanno 55% to bottom of 45% 15H-CC		
-- 100 --										
-- 110 --										
-- 120 --								↑ 113 large burrow ↓ 123		
-- 130 --										
-- 140 --										
148	NO	SG4 4/1			Massive	Slight		Colour change contact (gradational) Mid grey clay		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --	AS ABOVE	AS ABOVE						AS ABOVE		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 -- 82								Colour change contact		
-- 90 --		SGY 5/1			Massive slight			Light grey clay forams present - PB 89-93		
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --								Colour change contact (bioturbated)		
-- 140 --		SGY 4/1						Mid grey clay forams present		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

5.



Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --		AS ABOVE						AS ABOVE		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --								PB 47-48		
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

2014-03-20 10:14  
339-339-339



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --		AS ABOVE						AS ABOVE		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

(1385 D

1514

CC-A

372



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --		AS ABOVE						AS ABOVE		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
--0--								NN	30/Nov/2011
--10--	GREY 5/5GK	Clay	Medium sand (foram)	Bioturbated contact Massive	BI: 3 (Slight)		<p><u>Minor lithology</u></p> <ul style="list-style-type: none"> <li>Color: GREY 5/5GK</li> <li>Av. Grain-size: clay</li> <li>Max. Grain-size: Medium sand (foram)</li> <li>Sedimentary structure: Massive</li> <li>Bioturbation: BI: 3 (Slight)</li> <li>Thickness: Very thick bedded</li> <li>10% (↔ Major lithology)</li> </ul>		
--20--	GREY 4/10Y	Clay	Medium sand (foram)	Gradational contact Massive	BI: 3 (Slight)				
--30--									
--40--							<u>Major lithology</u>		
--50--									
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--									
--130--									
--140--									
--150--									

Undisturbed

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									NN	30/Nov/2011
								Major lithology (continued from Sec. 2A)		
-- 10 --										
								14 Py burrow		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
	Undisturbed									
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
					Bioturbated contact					
139										
-- 140 --	Undisturbed	GREY 5/SG1	Clay	Medium sand (foram)	Massive	BI:2		136 Foram patch 136.5		Minor lithology
					Bioturbated + contact					
141										
-- 150 --	Undisturbed	GREY 4/SG1	Clay	Medium sand (foram)	Massive	BI:3		Major lithology		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									NN	30/Nov/2011
-- 10 --								Major lithology		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --								-54 Foram patch -55 Greenish layer		
-- 70 --										
-- 80 --										
-- 90 --								-87.5 Foram patch		
-- 100 --										
-- 110 --										
-- 120 --								-118 Foram patches -122 Greenish layer -123 Greenish layer		
-- 130 --										
-- 140 --										
-- 150 --								-147 Foram patches		

Undisturbed

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --							Major lithology (continued from sec. 4 A)	N N	30/Nov/2011
-- 10 --							-12 Foram concentration		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --							-55 } Foram patches		
-- 70 --							-72 }		
-- 80 --									
-- 90 --							-93 } Foram patches		
-- 100 --							-98 }		
-- 110 --									
-- 120 --							-114 } Foram patches		
-- 130 --							-120 }		
133	GREY S/STY	Clay	Medium Sand (Foram)	BIOWater Contact			Minor lithology		
-- 140 --									
-- 150 --	Underside back								

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--								Minor lithology (continued from Sec. 5A)	NN	30/Nov/2011
--10--								<div style="border: 1px solid black; padding: 5px; display: inline-block;">                     Forams abundant throughout this section                 </div>		
--20--							21 "Chemical burrow" 24 J			
--30--										
--40--										
--50--										
--60--	Undisturbed									
--70--		GLEF1 4/SGY	Clay	Medium sand (Foram)	Graded sand contact Massive	BS:2		Major lithology		
--80--										
--90--										
--100--										
--110--										
--120--	Undisturbed									
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow



Depth (cm)	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									NN	30/10/2011
-- 10 --								Major lithology (continued from the section 7A)		
-- 20 --								Foam abundant		
29										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY: