

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					RQF	11/27/11
Dist	5Y 4/3 olive	Clay	in Sand forams		4		0-101 olive to olive gray ^{nanno?} foram-rich clay, extensively bioturbated, sharp contact at bottom		
UNDISTURBED	5Y 5/2 olive gray				4				
101	10YR 5/4 yellowish brown				4		101-127 yellowish-brown foram (nanno?) rich clay, extensively biot. & apparently disturbed by drilling. (? second hit of pipe?) Sharp bottom contact		
lightly disturbed (soupy)	5Y 4/2 olive gray				4		127 127-next section: olive gray foram / nanno-rich clay, extensively bioturbated		
151									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RDF	Date: 1/27/11
			Avg.	Max.						
--0--	↑							(continues) olive gray bioturbated		
--10--		5Y 5/2 olive gray				4		foram (nanos?) clay, sharp bottom contact (possibly chemical)		
--20--	Undisturbed									
--30--								27-61		
--40--		5Y 5/1 gray				4		gray foram (nanos?) clay, extensively bioturbated. Sharp bottom contact @ flow-in.		
--50--										
--60--	↓ ↓							61		
--70--	Flow-in									61 flow-in, vertical structures.
--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 --										
-- 20 --										
-- 30 --										
-- 40 --								Flow in evident by vertical orientation		
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --								End of flow in		
-- 110 --		5Y 5/2			None	4 patches		Olive/brown mud		
-- 120 --										
-- 130 --										
-- 140 --								145-150 cm 27% CaCO ₃		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

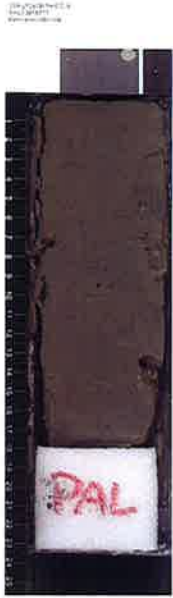
Expedition 339: Mediterranean Outflow

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

Cracking due to water sampling (CR) @ 70 & 74

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 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --								CR@82		
-- 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 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --								CR 78 & 82		
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

135

Expedition 339: Mediterranean Outflow

U 85 B 2H5 A

	Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --								CR @ 70 & 77		
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

Expedition 339: Mediterranean Outflow

U 35B 2H 6A

156.

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --								AS ABOVE		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --								CR @ 73 & 84		
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --								145-150 cm CaCO ₃ 30%		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

13856

Expedition 339: Mediterranean Outflow

UL 35 B 2H7 A

157

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	AS ABOVE						AS ABOVE Distinct Zoophycos @ 3-4cm 7-8cm 13cm 15cm 34cm		
-- 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 --	AS ABOVE						AS ABOVE		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

Expedition 339: Mediterranean Outflow

U-385B 3H 2A

14

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR NN	Date: 28/Nov 2011
		Avg.	Max.						
--0--	2.5y 1/3						Minor dark → Same as above		
--10--							Zyophycus abundant		
--20--									
--30--									
--40--									
--50--									
--60--							→ 55 cm : shell		
--65--									
--70--	2.5y 4/2	clay	Medium Sand	bioturb. contact			light Major CR (clacks) ↑ 65 ↓ 80		
--80--									
--90--									
--100--									
--110--							Forams present		
--120--									
--130--							→ 130 Py burrow		
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR NN.	Date: 28/11/11
			Avg.	Max.						
--0--		2.5y						Major (legu+)		
--10--		4/1						→ Forams fusate (abundant)		
--20--										
--30--										
--40--										
--50--	undisturbed				massive					
--60--						bioturbated BI=3				
--70--						SUCHE				
--80--					gradual contact			SS (75cm)		
--89--								CR clock		
--90--	↑	2.5y	clay	Medium				Minor (adult)		
--100--		3/2						→ Zygophycos		
--110--					massive			→ Forams fusate		
--120--	undisturbed					BI: 3 Slight		→ 109: spon patch		
--130--								→ 120m: Py burrows		
--140--					massive	Same		→ Forams: fusate		
--150--								→ 139cm: shell fragments		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

dark / light

1385B

Expedition 339: Mediterranean Outflow

1385B 3H 4A

152

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR NN	Date: 28/11/11
		Avg.	Max.						
--0--							Minor (dark)		
	2.5 y						→ Forams: present		
--10--	4/2						→ silt pellets (11 cm)		
							12.5		
--20--				massive					
							CR Crack		
29									
--30--	5 y	clay	Medium Sand	bio-turbated contact			Major (light)		
	4/2						33.5		
--40--									
							→ Forams: present		
--50--							→ 49 Py burrow		
--60--									
							62		
--70--							Crack CR		
							75		
--80--									
--90--									
							91		
--100--				massive					
--110--									
--120--									
							115		
--130--									
							Crack CR		
--140--									
--150--							143		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

crack

typical

undisturbed

Same as above B2.3 Slight

1385B

Expedition 339: Mediterranean Outflow

U-85B 3H 6A

144

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR NN	Date: 28 / Nov / 2011
			Avg.	Max.						
--0--		5Y 4/3			massive	BI:3 slight		(continued from section 5) foram present ↓ to end of this interval		
--10--								Major		
--20--			clay	Medium sand				Minor		
--23--										
--30--										
--40--										
--50--										
--60--	undisturbed									
--70--										
--76--								Clacks (CR)		
--80--										
--90--										
--100--		2.5Y 4/2			massive			foram present trend of the interval -103 Py burrow		
--110--						BI:3 slight				
--120--						BI:3				
--127--								bioturbation contact		
--130--		5Y 4/2	clay	Medium sand		BI:3 slight		foram present to the end of this section -135 greened patch		
--140--						BI:3		Major		
--150--								145-150 cm 30% CaCO ₃		

light

clay

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

Expedition 339: Mediterranean Outflow

U1385B 3H 7A

145

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR NN	Date: 28/Nov./ 2011
			Avg.	Max.						
--0--		SY 4/2			massive	BI:3 slight		(continued from section bA) Major greened patches ↓ -12 Py burrow foram present (throughout this section) Minor		
--10--			clay	Medium sand						
--20--										
--30--										
--40--										
--50--										
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

clay

undisturbed

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

V1305B 3H CCA

146



dark

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR NLY	Date: 28/Nov/2011
			Avg.	Max.						
-- 0 --		5Y 4/2			massive	BI:3		(Continued from section 7A) foram present ↓ to the end of this section		
-- 10 --	undisturbed					Slight		-12 ↓ clack (CR) -15		
-- 20 --								-22 clack (CR)		
-- 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: NN CR	Date: 28-11-2011
		Avg.	Max.						
-- 0 --									
	dark grey 5y 4/1								
-- 10 --									
-- 20 --									
-- 30 --									
38.5									
-- 40 --	5y 4/1	clay	Medium sand				Minor lithology Forams present Bedding thickness: moderate		
-- 50 --				massive	BJ=4 moderate				
59									
-- 60 --	5y 4/1	clay	Medium sand	bioturbid contact			→ Forams present Regular lithology Bedding thickness: thick		
-- 70 --							-67: Py burrow -72 } crack -75 }		
-- 80 --				massive	BJ=3 susmt				
-- 90 --									
-- 100 --							-97.5: Forams		
-- 110 --							-105: Forams		
-- 120 --							-115: Py burrow		
-- 130 --									
-- 140 --							-134: Forams		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

Expedition 339: Mediterranean Outflow

U. 385B FH 2A

148

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR NIV	Date: 28-11-2011
		Avg.	Max.						
--0--	5y 4/1						Major lithology → Forams: Present Bedding thickness: thick bedded		
--10--									
--20--									
--30--									
--40--							-36 Py below		
--50--	undisturbed			massive	BZ=3 slight				
--60--									
--70--									
--80--							-80 cold-water coral -82 (sample)		
89									↑
--90--	2.5y 4/1	clay	Medium sand	bioturbated contact		91.5 SS	Minor lithology Bedding thickness: massive		↓
--100--	undisturbed			massive	BZ=4 moderate				
--110--									
117									↑
--120--	5y 4/1	clay	Medium sand	bioturbated contact			Major lithology -124: green patch		↓
--130--	undisturbed			massive	BZ=3 slight		-130 green patches -136		
--140--									
--150--									

MAJOR LITHOLOGY: light silt

MINOR LITHOLOGY:

1385B

Expedition 339: Mediterranean Outflow

65B 4H 3A

149

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:	
		Avg.	Max.							
-- 0 --	5y 4/1			massive	BZ = 3 SLJ 47		Majin lithology (light) Fossils present			
-- 10 --	2.5y 4/1	clay	Medium sand					Overlap (dark)		
-- 20 -- 22	5y 4/1							Majin lithology (light)		
-- 30 --										
-- 40 -- 34	2.5y 4.1						-40 : Py burrow Rinoc litho.			
-- 50 --										
-- 60 -- 59							Majin litho. ↓ Fossils present			
-- 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 --	Succ			Mudstone	BJ-3		Tzajin Litho		
-- 10 --									
14				bioturbated contact					14
-- 20 --									
-- 25 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --				Mudstone	BJ-3		Thin litho		
-- 70 --									
73	Undisturbed			bioturbated contact					73
-- 80 --									
-- 90 --									
-- 100 --				Mudstone	BJ-3				
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY: light litho 71%. MINOR LITHOLOGY: dark litho 29%

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR NN	Date:
		Avg.	Max.						
-- 0 --							Major litho		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
83	Gray 1	clay	Medium sand	irregular contact Massive	BI: 4 Moderate		boundary of intervals thickness: } thin bedded } forams 90 Py burrow		
-- 90 --									
97	5Y4/2	clay	Medium sand	bioturbated contact Massive	BI: 3 Slight		Major lithology } thickness: thin bedded Py burrow } forams present } BS: 3 (Slight)		
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

Expedition 339: Mediterranean Outflow

1385B 4H 6A

152

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --					BI:3		Major lithology (continued from upper section)		
-- 10 --									
-- 20 --							-18 Py burrow		
-- 30 --							-25 Py burrow		
-- 40 --									
-- 50 --									
-- 60 --							-62 Py burrow		
-- 70 --							-71 Py burrow		
-- 80 --		clay	Medium Sand	bioturbated contact	BI:4		Minor lithology		
-- 90 --		clay	Medium Sand	bioturbated contact	BI:3				
-- 100 --							-97 shell fragments		
-- 110 --									
-- 120 --									
-- 130 --							-130 → Py burrow		
-- 140 --							-132 →		
136				bioturbated contact	BI:4		Minor lithology		
-- 145 --									
145							-145		
-- 150 --							145-150 cm 25%		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CR NN	Date: 28/Nov. 2011
		Avg.	Max.						
-- 0 --							Major 2 py burrow		
-- 10 --				bioturbated contact			Minor		
12.5				bioturbated contact			12.5		
-- 20 --				bioturbated contact			Major		
18				bioturbated contact		21 SS	Minor		
24				bioturbated contact			23 py burrow		
							Major		
							25 py burrow		
-- 30 --									
							34 py burrow		
39				Lithological contact			Minor		
-- 40 --				contact			40 py burrow		
43				bioturbated contact			Major		
-- 50 --						48 SS			
-- 60 --									
68							Minor		
-- 70 --									
77									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

Expedition 339: Mediterranean Outflow

1385B 4H CCA

154



Depth (cm)	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
0								CR	28/Nov/1	
6					bioturbated contact		Major	NY	2011	
10							Minor			
20							↓ this interval continues to next core (to 80cm of Sec.1)			
30										
40										
50										
60										
70										
80										
90										
100										
110										
120										
130										
140										
150										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

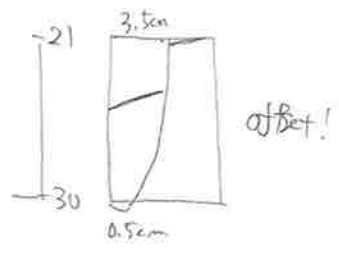
	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --					Massive				NN	28/Nov. 2011
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --						BI:3 Slight				
-- 50 --										
-- 60 --							S9- Py burrow			
-- 70 --										
-- 80 --										
-- 90 --		gradually lighten								
-- 100 --										
-- 110 --		2.5Y 6/2			bioturbated contact					
114		2.5Y 4/1	Clay	Medium Sand	Massive	BI:3		Major		
-- 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 --								N. N.	28/Nov. 2011	
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
131			Clay	Medium						
-- 140 --										
-- 150 --										



107 Py burrow

M/hor

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
	2.5Y 5/1							NN	28/Nov. 2011
-- 0 --									
-- 10 --						14	Shell		
-- 20 --									
-- 30 --	2.5Y 4/1	Clay	Medium sand				Major		
-- 40 --									
-- 50 --						49	P _y burrow		
-- 60 --									
-- 62 --	2.5Y 5/1	Clay	Medium Sand				Minor		
-- 70 --							Zoophycos		
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --						118	P _y burrow		
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: N.N.	Date: 28/Nov. 2011
		Avg.	Max.						
-- 0 --									
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --	2.5Y 4/1	clay	Medium sand				Minor		
-- 50 --									
-- 60 --									
-- 70 --	2.5Y 4/1	clay	Medium sand	Bioturbated Contact Massive	BI: 3 Slight		Major gradual darkening upward within an unit		end of interval ↓ new interval
-- 80 --							color: 2.5Y 4/1 ~ 2.5Y 5/1, 2.5Y 6/1 thickness: thick bedded BI: 3 (Slight) 90% foram		
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --	2.5Y 5/1								

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: N.N.	Date: 28/Nov 2011
		Avg.	Max.						
-- 0 --									
5	2.5Y 5/1	clay	Medium sandy	Massive	BI: 3 (Slight)		Minor color: 2.5Y 5/1 thickness: Medium bedded BI: 3 (Slight) foram 10% foram concentration		
-- 10 --						16			
-- 20 --									
-- 28 --	2.5Y 5/1	clay	Medium sand				Major		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --	2.5Y 6/1								
-- 100 --									
-- 110 --				Gradual contact					
114		clay	Medium				Minor		end of the interval ↓ new interval
-- 120 --							color: Gray 3/10Y Thickness: Thick bedded 30% BI: 3 slight foram		
-- 130 --									
-- 140 --									
-- 150 --							145-150cm 23% CaCO ₃		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: N. N.	Date: 28 / Nov. 2011
		Avg.	Max.						
-- 0 --									
7 -- 10 --		clay	Medium sand				Major		
-- 20 --							color: 2.5Y 4/1 thickness: Thick bedded 100% BI: 3 (slight) foram		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --							56-Py burrow		
-- 70 --									
-- 80 --									
-- 90 --							87.5 -- ↓ continuing Major unit		
-- 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: N.N.	Date: 28/Nov. 2011
			Avg.	Max.						
-- 0 --								(Major)		
-- 10 --										
-- 20 --										
-- 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.					ED	28/11/11
-- 0 --	stretched							minor ↓		
-- 10 --								MAJOR LITHOLOGY: 2.54 6/1 GRAY BIOTURB. 3 (SLIGHTLY) medium bedded 60%		
-- 20 --		2.54 4/1 DARK GRAY	CLAY	REDISH SAND	massive	3				
-- 30 --										
-- 40 --			38		bioturb. contact			MINOR LITHOLOGY: 2.54 4/1 DARK GRAY ↓ BIOTURB. 3 (SLIGHTLY) major		
-- 50 --		2.54 6/1 GRAY			massive					
-- 60 --										
-- 70 --			34		bioturb. contact			minor ↓		
-- 80 --		2.54 4/1	21		bioturb. contact			major ↓ Bioturbation: mainly Zoophytes Planolites and Cladocites at base of minor lithology		
-- 90 --		2.54 6/1			massive					
-- 100 --			106		bioturb. contact			minor ↓		
-- 110 --		2.54 4/1	110		bioturb. contact			major ↓		
-- 120 --		2.54 6/1			massive					
-- 130 --			126		bioturb. contact			minor ↓		
-- 140 --		2.54 4/1	138		massive			major ↓		
-- 150 --	2.54 6/1			massive						

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 28/11/11
		Avg.	Max.						
-- 0 --							major ↓		
	2.54 4/1		MEDIUM SAND	bioturb. contact	3		minor ↓ MAJOR LITHOLOGY 2.54 5/2 GRAY BIOTURB. 3 (slightly) major medium bedded ↓ 70m		
-- 10 --				bioturb. contact					
	2.54 6/2			massive			MINOR LITHOLOGY 2.54 4/2 DARK GRAY BIOTURB. 3		
-- 20 --									
							Detailed in minor lithology with SBC 6/2 GREENISH GRAY bed		
-- 30 --									
	2.54 4/1			bioturb. contact			minor ↓		
-- 40 --									
	2.54 4/1			bioturb. contact			major ↓		
-- 50 --									
	2.54 6/2								
-- 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	179 121		bioturb. contact			minor ↓		
	2.54 4/1	135 138		color banded			major ↓		
-- 140 --	2.54 6/2								
-- 150 --		153							

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 28/11/11
		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, Clonaria in very fares (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

Expedition 339: Mediterranean Outflow

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 sd (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--									
-70--							69-151. major lithology. 5Y 7/1 clay slightly bioturbated. Scattered pyrite grains.		
-80--									
-90--									
-100--									
-110--					3				
-120--	5Y 7/1								
-130--									
-140--									
-150--									

gradual ↑

undisturbed core.

Crack covered by sample -80--

65-69
concretions
bioturbated
contact.

79 pyrite nodules.
85. Zoopytes
88 Zoopytes

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

28100208 UN-2.1
28100208
Form 600 (Rev. 10/04)

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 --							54 7/2 light gray Bioturbation 3 (slightly) massive		
-- 20 --		CLAY	MEDIUM SAND	MASSIVE	3				
-- 30 --							35 cm: pyritised burrow		
-- 40 --	54 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 5BA 6/2 greenish gray spots) Bioturbation 3		
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

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								
-- 30 --		32			bioturb. contact		minor ↓	MINOR LITHOLOGY	
	2.54 6/1								
-- 40 --		40			bioturb. contact		major ↓		
	2.54 4/1								
-- 50 --					color banded				
	SBC 6/1 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 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

continue to the next section
115cm-120cm 39% CaCO₃

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

Expedition 339: Mediterranean Outflow

U135

61+7A

159

339 MED 339 1385B U135 61+7A

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

Expedition 339: Mediterranean Outflow

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:

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--										
--10--	SEVERE	10Y 6/1	CLAY	MEDIUM SAND		3			ED	28/11/11
--20--					massive			major ↓ <u>MAJOR LITHOLOGY</u> 10Y 6/1 GREENISH GRAY Bioturbation 3 (slightly) Medium bedded 80% sulfur specks increasing to the end of the section		
--40--		42 5Y 5/1 GRAY			bioturb. contact massive			minor ↓ <u>MINOR LITHOLOGY</u> 5Y 5/1 GRAY Bioturbation		
--50--										
--60--		56			bioturb. contact			major ↓		
--70--								Bioturbation; burrows? many conduits		
--80--		10Y 6/1			massive					
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--								continue to the next section		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 28/IV/11
		Avg.	Max.						
-- 0 --							major ↓ 0-143cm MAJOR LITHOLOGY		
-- 10 --		CLAY	MEDIUM SAND		3		104 6/1 GREENISH GRAY Bioturbation 3 (slightly) Medium bedded 80% monosulfur specks		
-- 20 --									
-- 30 --	104 6/1			massive			MINOR LITHOLOGY 54 5/1 GRAY Bioturbation 3		
-- 40 --							bioturbation; large burrows? Zoophytes Chondrites		
-- 50 --							- 52 cm: pyritised burrow		
-- 60 --									
-- 70 --	68 54 5/1			bioturb. contact			- minor ↓		
	74			bioturb. contact			- major ↓		
-- 80 --	104 6/1			massive					
-- 90 --									
-- 100 --	98 54 5/1			bioturb. contact			- minor ↓		
	104			bioturb. contact			- major ↓		
	104 5/1 108			bioturb. contact			- minor ↓		
-- 110 --							- 114 cm: pyritised burrow		
-- 120 --	54 4/1 DARK GRAY			massive					
-- 130 --	122			bioturb. contact			- major ↓		
-- 140 --	104 6/1			massive					
-- 150 --	163 54 5/1	CLAY	MEDIUM SAND	bioturb. contact	3		143 - end of section: new interval 54 5/1 GRAY Bioturb. 3 continue to the next section		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

U 85

714

1-4

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 28/11/11
		Avg.	Max.						
-- 0 --									
-- 10 --	SY S/L GRAY	CLAY	MEDIUM SAND	massive	3		0-29 cm: Same lithology than on previous section		
-- 20 --									
-- 30 --				gradational contact			29 - end of section; new interval.		
-- 40 --							10Y 6/1 Greenish gray Bioturbation 3 (slightly) large burrows		
-- 50 --									
-- 60 --									
-- 70 --							67-69 cm: gastropod shell fragment 1 cm sized		
-- 80 --	10Y 6/1	CLAY	MEDIUM SAND	massive	3				
-- 90 --	GREENISH GRAY								
-- 100 --							95 cm: pyrite		
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --							continue to next section		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: yasu.	Date: 28 Nov. 2011
		Avg.	Max.						
-- 0 --	10Y 6/1 Greenish gray	Clay	Medium sand		BI: 3 slightly		Major Lithology: 10Y 6/1 Greenish clay Bioturbation intensity 3 (slightly) Medium bedded 80% sulfur specks are common		
-- 10 --									
-- 20 --									
-- 30 --	10Y 5/1 Greenish grey	Clay	Medium sand	Bioturbated contact	BI: 3		----- 26 Minor Lithology:		
-- 40 --									
-- 50 --	10Y 7/1 Light greenish grey	Clay	Medium sand	Bioturbated contact	BI: 3		----- 51 Major Lithology		
-- 60 --									contorted layer(?)
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --	10Y 5/1 Greenish grey	Clay	Medium sand	Bioturbated contact	BI: 3		--- 109 Minor lithology		
-- 120 --									
-- 130 --	10Y 6/1 Greenish grey	Clay		Bioturbated contact	BI: 3		--- 130 Minor lithology		
-- 140 --				Bioturbated contact	BI: 3		----- 135 Major lithology 10Y 6/1 Greenish clay Bioturbation intensity 3 (slightly) Medium bedded. Sulfur specks are common		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 28/11/11
			Avg.	Max.						
--0--		10Y 5/1						minor ↓		
--10--		10Y 6/1	CLAY	MEDIUM SAND		3		major ↓ 15-20 cm: evidence of dipping interval minor ↓		
--20--		10Y 5/1								
--30--		10Y 6/1						major ↓	MAJOR LITHOLOGY: 10Y 6/1 Bioturbation 3 Medium bedded 60%	
--40--		10Y 6/1								
--50--									MINOR LITHOLOGY: 10Y 5/1 Bioturbation 3	
--60--										
--70--		10Y 5/1			sharp contact			minor ↓ 68-83 cm: evidence of contorted interval between major and minor lithologies		
--80--		10Y 5/1						minor ↓ major ↓ minor ↓		
--90--		10Y 5/1			sharp contact			major ↓		
--100--									58-59 cm: pyrite	
--110--		10Y 6/1							Bioturbation: Chondrite and large burrows Zoophycos	
--120--										
--130--		10Y 5/1			bioturb. contact			minor ↓		
--140--		10Y 5/1								
--150--									145-160 cm CaCO ₃ 30%	

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

IW



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--		10Y 5/2	clay	fine sand (foram)	bioturbated	3			nana-f	1/27/27
--10--	Undisturbed. but gas extensive		↓	↓				0-4. ✓ major lithology. 10Y 5/2 clay slightly bioturbated. Scattered pyrite grains.		
--20--				all	all.					
--30--		5Y 5/1				3		4-55. ✓ major lithology. 5Y 5/1 clay slightly bioturbated. Scattered pyrite grains.		
--40--										
--50--										
55										
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --			clay	fine & (forams)				0-146 major lithology: 5Y 5/1 clay, slightly bioturbated. Scattered pyrite grains.	nava f.	
-- 10 --			↓	↓						
-- 20 --	undisturbed	5Y 5/1				3				
-- 30 --										
-- 40 --										
146										
51-50							PAL			
-- 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: ED	Date: 28/11/11
		Avg.	Max.						
-- 0 --	10Y 5/1						major ↓ MAJOR LITHOLOGY 10Y 5/1 greenish gray Bioturbation 3 Thick bedded 60%		
-- 10 --		CLAY	MEDIUM SAND		3				
				bioturb. contact			minor ↓		
-- 20 --	7.5YR 5/1			bioturb. contact			minor ↓ MINOR LITHOLOGY 7.5YR 5/1 gray Bioturbation 3		
	10Y 5/1			bioturb. contact			minor ↓		
-- 30 --	7.5YR 5/1			bioturb. contact					
	10Y 5/1			bioturb. contact			major ↓		
-- 40 --				bioturb. contact					
-- 50 --	10Y 5/1						Bioturbation: zoophytes chondrites localized sulfur specks		
-- 60 --									
-- 70 --				sharp contact			minor ↓		
-- 80 --	7.5YR 5/1								
-- 90 --				massive					
-- 100 --									
-- 110 --									
-- 120 --				bioturb. contact			major ↓		
-- 130 --	10Y 5/1			massive					
-- 140 --									
-- 150 --							continue to the next section		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 28/11/11
		Avg.	Max.						
-- 0 --							major ↓		
-- 10 --		CLAY	MEDIUM SAND		3		MAJOR LITHOLOGY 10Y 6/1 greenish gray Bioturbation 3 (slightly) Thick bedded 70%		
-- 20 --							MINOR LITHOLOGY		
-- 30 --							7.5YR 5/1 gray Bioturbation 3		
-- 40 --									
-- 50 --	10Y 6/1 Greenish gray			massive					
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --		120		bioturb. contact					
-- 130 --	7.5YR 5/1 gray								
-- 140 --									
-- 150 --									

Bioturbation; 200 fibres?
burrows
conduits

Sulfur specks

minor
↓

continue to the next section

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: ED	Date: 23/11/11
		Avg.	Max.						
--0--	10Y 5/1						major ↓		
--10--		CLAY	MEDIUM SAND	bioturb. contact	3		minor ↓		
--20--	7.5YR 5/1			massive					<p>MAJOR LITHOLOGY</p> <p>10Y 5/1 greenish gray Bioturbation 3 (slightly) medium bedded 70%</p>
--30--									<p>MINOR LITHOLOGY</p>
--40--				bioturb. contact			major ↓ 42 cm: pyrite		<p>7.5YR 5/1 Bioturbation 3</p>
--50--									
--60--	10Y 5/1			massive					<p>Bioturbation: mainly Zoophytes and burrows? Chardils Sulfur specks</p>
--70--									
--80--									
--90--	7.5YR 5/1			gradational contact			minor ↓		
--100--				sharp contact			major ↓		<p>95 cm: sharp dipping contact</p>
--110--	10Y 5/1			massive					
--120--									
--130--	7.5YR 5/1			sharp contact			minor ↓		
--140--									
--150--	10Y 5/1			sharp contact			major ↓		<p>continue to the next section</p>

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					ED	28/11/11
-- 0 --							major lithology as before		
-- 10 --							104 S/1 greenish gray Disturbation 3 (slightly) mainly zoophytes and large burrows		
-- 20 --							19cm: pyritised burrow		
-- 30 --							sulfur specks		
-- 40 --							39-40cm: pyritised burrow		
-- 50 --									
-- 60 --									
-- 70 --	104 S/1 greenish gray	CLAY	AEDIAN SAND	massive	3				
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --							129cm: pyritised burrow		
-- 150 --							continue to the next section		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: yasu	Date: 28/Nov/2011
			Avg.	Max.						
--0--		10Y 5/1	clay	Medium sand	Massive	3		Major lithology Greenish gray		
--10--		10Y 5/1	Clay	Medium sand	Massive	3		--13 Minor lithology Greenish gray		
--20--										
--30--										
--40--										
--50--		10Y 5/1			Bioturbated contact.	3		46 Major lithology Greenish gray Medium bedded.		
--60--										
--70--										
--80--										
--90--										
--100--										
--110--								105 106-110 cm CaCO ₃ 25%		
--120--										
--130--										
--140--										
--150--										

Gas expansion

IW

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: yasu	Date: 28/Nov./2011
			Avg.	Max.						
-- 0 --		10Y 5/1 Greenish gray	clay	Medium sand	Massive	3		Major lithology 10Y 5/1 Greenish gray Medium bedded 80%		
-- 10 --						3 zoophycos				
-- 20 --										
-- 30 --					○ Foram. speck.			Foraminifera speck ϕ 0.5mm		
-- 40 --										
-- 50 --		10Y 5/1	Clay	Medium sand.	Disturbed boundary Massive	3 zoophycos		----- 50 Minor lithology Greenish gray This part includes more foram. grain rather than Major Lith.		
-- 60 --								----- 61		
-- 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 --	10Y 5/1	clay	Medium sand.	Massive	BI: 3 Slightly		Major lithology: 10Y 5/1 Greenish gray BI: 3. (slightly) Medium bedded (?) 100% Sulfur specks are observed at lower part	Yasm.	28/Nov/2011
-- 10 --									
-- 20 --									
-- 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: ED	Date: 28/11/11
			Avg.	Max.						
-- 0 --		10Y 6/1								
-- 10 --					bioturb. contact					
-- 20 --	STRETCHED									
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --		10Y 5/1 greenish gray	CLAY	MEDIUM SAND	massive	3				
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										continue to next section

LITHOLOGY

10Y 5/1 greenish gray
 Bioturbation 3 (slightly)
 Burrows?
 Channels
 Sulfur specks

50: pyrite

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

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 --							0-38 cm: same lithology than previous section		
-- 10 --	10Y 5/1	CLAY	MEDIUM SAND	massive	3				
-- 20 --									
-- 30 --							38: pyrite		
-- 38 --	38			gradational contact					
-- 40 --							38 - end of section: new interval		
-- 50 --							10Y 4/1 dark greenish gray Bioturbation 3 burrows? sulfur specks.		
-- 60 --							64-66 cm: pyrite		
-- 70 --									
-- 80 --	10Y 4/1	CLAY	MEDIUM SAND	massive	3		85 cm: pyrite 88 cm: wood fragment, rounded shape, 1 cm-sized		
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --							120-124 cm: small lenses infilled with pyritised forams		
-- 130 --									
-- 140 --							139 cm: pyrite		
-- 150 --							continue to next section		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

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 --							0 - 136 cm: same lithology as previous section		
-- 10 --							10 cm: 10Y 4/1 dark greenish gray pyrite bioturbation 3 (slightly) small burrows		
-- 20 --							20-21 cm: pyrite sulfur specks		
-- 30 --									
-- 40 --							40 cm: pyrite		
-- 50 --	10Y 4/1	CLAY	MEDIUM SAND	massive	3				
-- 60 --									
-- 70 --									
-- 80 --							83 cm: pyrite		
-- 90 --							93-94 cm: pyrite		
-- 100 --									
-- 110 --									
-- 120 --							123 cm: pyrite		
-- 130 --									
-- 140 --							136 cm: end of section; new interval 10Y 6/1 greenish gray		
-- 150 --							continue to next section		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
		clay	m sd (forams)					nana-f	11/28/11
--0--							D-153 continues from 4A major lithology; Greenish gray clay (10Y 5/1)		
--10--							slightly bioturbated.		
--20--					3		Scattered pyrite grains through the section		
--30--							16-37. pyrite pipe (d=3-5mm)		
--40--									
--50--	10Y 5/1								
--60--									
--70--	undisturbed				3		69-72. slightly disturbed. Sampling or cutting plastic		
--80--							minor lithology: Some color banding, such as greenish gray (5GY 5/1) and greenish gray (10Y 6/1).		
--90--									
--100--									
--110--									
--120--					3				
--130--									
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Yasm	Date: 28/Nov/2011
		Avg.	Max.						
-- 0 --	10Y5/1	clay	Medium sand.	Massive	3		Major lithology Greenish gray Thick bedded.		
-- 10 --	10Y5/1	Clay	Medi- sand	Massive	3		Minor lithology Greenish gray Burrow pipe filled by pyrite.		
-- 20 --	10Y5/1	Clay	Medi- sand	Massive			24 Major		
-- 30 --							Slightly banded.		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --	10Y7/1	clay	Fine sand.	Bioturbated contact	3		63. Major lithology greenish gray sulfur specks are scattered		
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

Zoophycos

96-100cm 23% CaCO₃

151

IW

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 --		10Y6/1	Clay	Medium sand	Massive	3		Major Greenish gray dark patch mottled sulfur specks are scattered	gaen	28/11/2011
-- 10 --										
-- 20 --										
-- 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: YASU	Date: 28/Nov/2011
		Avg.	Max.						
-- 0 --	10Y 7/1	Clay	Fine sand.	Massive.			Major lithology Medium bedded Light greenish gray sulfur specks are scattered.		
-- 10 --					3				
-- 20 --				Bioturbated contact					
-- 23 --	5GY 5/1	Clay	Fine sand.	Massive.	3		Major lithology Greenish gray sulfur specks. Conchrites		
-- 30 --									
-- 35 --									
-- 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: yaser	Date: 28/Nov/2011
		Avg.	Max.						
-- 0 --	5GY 5/1	Clay	Medium sand.	Massive	4		Major lithology Heavy - slight bioturbated. Thick bedded		
-- 10 --									
-- 20 --									
-- 25 --				Slightly layered	3		Zoophycos		
-- 30 --									
-- 34.5 --				B.C.			Bioturbated contact.		
-- 40 --	10Y 5/1	clay	Medium sand	Massive	3		Major lithology Thick bedded. sulfur specks are scattered.		
-- 50 --							40 sulfur speck.		
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --							100 sulfur speck.		
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: yasn	Date: 28/Nov/2011
		Avg.	Max.						
-- 0 --	10Y5/1	Clay	Medium sand.	Massive	3		Major lithology Thick bedded.		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --							Smear Slide (48cm) Foram.?		
-- 60 --							sulfur speck. pyrite lens.		
-- 70 --									
-- 80 --	10GY 5/1						Greenish layer slightly banded.		
-- 90 --									
-- 100 --									
-- 110 --	10GY 5/1				3 ← contact 52		104 Minor lithology more lighter than major lithology.		
-- 120 --							Color contact		
-- 130 --	10Y 6/1	Clay	Medium sand	c.d. slightly layered	3		125 Major lithology Greenish gray sulfur specks		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					yoan	28/Nov/2011
-- 0 --	10GY6/1	Clay	Medium sand	Massive	3		Major Lithology		
-- 10 --									sulfur specks are scattered at upper part of Mj. Lith.
-- 20 --									
-- 30 --									
-- 40 --									dark patch mottled.
-- 50 --									
-- 60 --									
-- 63 --	5GY6/1	Clay	Medium sand	Massive	3		63 Minor Lithology		
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 105 --	10GY6/1	Clay	Medium sand	Massive	3		105 Major Lithology		
-- 110 --									
-- 120 --				layered.					color banded zone
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

Expedition 339: Mediterranean Outflow

V1385D

10H 4A

198

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					MAM	28/Nov/2011
-- 0 --	10Y5/1	Clay	Medium sand	Massive	3		Major lithology Thick bedded slight bioturbation		
-- 10 --									
-- 20 --									
-- 23 --	10Y5/1	Clay	Medium sand	Massive	3		Minor lithology		
-- 30 --									
-- 40 --									
-- 50 --									
-- 53 --	10Y5/1	Clay	Medium sand	Massive	3		Major lithology		
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --							Dark patches mottled		
-- 110 --							sulfur specks. are scattered		
-- 120 --									
-- 125 --									
-- 130 --									
-- 135 --									
-- 140 --							greenish and light gray bands		
-- 150 --									

← 119-139 color banded →

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385B

10H5A

199

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: masm	Date: 28/Nov/2011
		Avg.	Max.						
-- 0 --	5GY5/1 10GY5/1	Clay	Medium sand	color banded!	3		Minor lithology Greenish gray Greenish band.		
-- 10 --									
-- 20 --	10GY6/1	Clay	Medium sand		3		14 Major lithology Greenish gray		
-- 30 --									
-- 40 --				Massive					
-- 50 --							Dark patch mottled.		
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --	10Y5/1	Clay	Medium sand	B.C. Massive	3		127 Major lithology Greenish gray sulfur specks are scattered		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B-10H-CC
U1385B
Expedition 339

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
								naem	28/Nov/2011
-- 0 --									
-- 10 --									
-- 20 --									
-- 30 --									
37									
-- 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	Massive	3		Major lithology Thick bedded Greenish gray	Yasm	28/Nov/2011
--10--									
--20--									
--30--							sulfur specks are scattered		
--40--									
--50--									
--60--							62 pyrite lens		
--70--									
--80--									
--90--									
--100--									
--110--	10Y5/1 Greenish gray	Clay	Medium Sand	Massive	3		Minor lithology 105 pyrite lens		103
--120--							122 pyrite lens		
--130--							sulfur specks are scattered		
--140--									
--150--	10Y5/1 Greenish gray			Massive	3		Major lithology		141

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

UP 85 B

11 H 2 A

204

Expedition 339: Mediterranean Outflow

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 Thick bedding	Yasen	28/Nov/01
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --							37 pyrite nodule		
-- 50 --									
-- 60 --	10Y5/1	Clay	Medium sand	Massive	3		57 Minor lithology Greenish grey		
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --	10Y5/1	Clay	Medium sand	Massive	3		94 Major lithology		
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

← Zoophycos

← Zoophycos

Zoophycos

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Yasu	Date: 28/Nov/2011
		Avg.	Max.						
-- 0 --	10Y5/1	Clay	Medium sand	Massive	3		Major lithology Thick bedded Greenish gray		
-- 10 --									
-- 20 --							18 Foram. patch.		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 64 --	10Y5/1	Clay	Medium sand	Massive	3		Minor lithology Greenish gray		
-- 70 --									
-- 80 --	10Y5/1	Clay	Medium sand	Massive	3		Major lithology	↑ 80 Greenish colored ↓ 85	
-- 90 --									
-- 100 --									
-- 110 --							107 ↑ Foraminifera & pyrite patch 110 ↓ φm-c. sand.		
-- 120 --									
-- 130 --									
-- 139 --							Bioturbated contact.		
-- 140 --	10Y6/1	Clay	Medium sand	B.C. Massive	3		Major lithology Greenish gray Thick bedded.		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: yasen	Date: 28 / Nov / 2011
			Avg.	Max.						
-- 0 --		10Y5/1	Clay	Medium sand	Massive	3		Major lithology		
-- 10 --										
-- 20 --										
-- 30 --										
								32 Foram. patch		
-- 40 --										
								43 Foram. patch.		
-- 50 --										
-- 60 --		10Y5/1	Clay	Medium sand	Massive	3		59 Minor lithology greenish gray		
-- 70 --		10Y5/1	Clay	Medium sand	Massive	3		69 Major lithology		
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
								146 Foram. patch		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

U 385B

11 HSA

207

Expedition 339: Mediterranean Outflow

2011-08-18 14:14
40132011
PawelRusak

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: Yasun	Date: 28 Nov 2011
		Avg.	Max.						
-- 0 --	10Y6/1	Clay	Medium sand	Massive	3		Major lithology Greenish gray		
-- 10 --									
-- 20 --									
-- 30 --									
-- 38 --				S.C.			Sedimentary contact		
-- 40 --	10Y6/1	silt	Medium sand	Contorted layer			Major lithology Greenish gray Contorted bed Slump? contorted pyrite layer		
-- 50 --									
-- 60 --									
-- 70 --							Basal part is clay		
-- 77 --				Erosional contact					
-- 80 --	5GY6/1	clay	Medium sand		3		Major lithology Greenish gray		
-- 90 --									
-- 100 --				B.C.					
-- 100 --	10GY7/1	silt	Medium sand		3		Major lithology Dark greenish gray		
-- 110 --							Some slide (109) dark part		
-- 120 --							Color contact		
-- 122 --				C.C.					
-- 122 --	10Y5/1	Clay	Medium sand		3		Major lithology		
-- 130 --							129 pyrite patch Greenish gray		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

possible erosional surface.

1385B

Expedition 339: Mediterranean Outflow

U 85B

11 H 6 A

2-08

20110208 10:04
04232601
1000001000

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: msm	Date: 28/Nov/01
		Avg.	Max.						
--0--		clay	m sd. (forams)				0-37.		
--10--		↓ all	↓ all		3		major lithology: greenish gray (10Y 6/1) clay slightly bioturbated. Scattered Pyrite grains.		
--20--	10Y 6/1								
--30--				*32 pyrite nodule d=8mm. bioturbated contact.					
37							37-49.		
--40--	5GY 5/1			bioturbated contact.			major lithology: greenish gray (5GY 5/1) clay slightly bioturbated. Scattered pyrite.		
49									
--50--									
--60--	10Y 6/1				3				
--70--									
--80--									
89				bioturbated contact.			89-150.		
--90--							major lithology: greenish gray (10Y 5/1) slightly bioturbated.		
--100--									
--110--	10Y 5/1				3		minor lithology: 124-126. greenish gray (5GY 5/1). banding.		
--120--									
--130--									
--140--									
--150--				*45 white f.s. filled burrows d=2mm			147-153cm 25% CaCO ₃		

Bioturbated

undisturbed

150

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:	
			Avg.	Max.							
--0--	und. sturb. bed.	10Y 5/1	clay	m sd (foam)				0-23 continues from 7A. major lithology: greenish gray (10Y 5/1) clay slightly bioturbated. Scatter pyrite grains.	nana-f	11/28/11	
--10--											3
--20--											
23											
23							PAL				
29											
--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: S F N N	Date: 2011/11/29
		Avg.	Max.						
6 fall w									
-- 10 -- undisturb	GLET1 5/5GY	clay	medium sand (foram)	massive	BI 3 slight		<ul style="list-style-type: none"> Major lithology (lighter unit) thickness: thick bedded 30% foram present BI: 3 (slight) Sedimentary structure: massive color GLET1 5/5GY 		↓ new interval
-- 36 --				bioturbated contact			<ul style="list-style-type: none"> Major lithology (darker unit) thickness: very thick bedded 42% Py burrow 70% foram present BI: 3 (slight) Sedimentary structure: massive color: GLET1 4/5GY 		
-- 60 -- undisturb	GLET1 4/5GY	clay	medium sand (foram)	massive	BI 3 slight				
-- 86 --				gradational contact			<ul style="list-style-type: none"> minor lithology 		
-- 120 -- undisturb	GLET1 5/4GY	clay	medium sand (foram)	massive	BI 3 slight		<ul style="list-style-type: none"> 123. Py burrow 127.5. shell fragment 		
-- 140 --				gradational contact			<ul style="list-style-type: none"> major lithology 		
43 undisturb	GLET1 5/10Y	clay	medium sand (foram)		BI 4 moderate				

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF NH	Date: 2011/11/29
			Avg.	Max.						
-- 0 --	undisturb							2 major lithology (continued from 1A) Ty. burrow		
-- 10 -- 17					bioturbated contact			• minor lithology		
-- 20 --	undisturb	GLTY1 5/5GY	clay	medium sand (foram)	massive	BI3 slight				
30 30					gradational contact			• major lithology		
-- 40 --	undisturb	GLTY1 4/10GY	clay	medium sand (foram)	massive	BI3 slight				
-- 50 -- 55					bioturbated contact			• minor lithology 56. shell fragment.		
-- 60 --										
-- 70 --	undisturb	GLTY1	clay	medium sand (foram)	massive	BI4 moderate				
-- 80 --		5/5GY								
-- 90 --										
100 100	undisturb	GLTY1 4/10GY	silt	medium sand (foram)	massive	BI3 slight		• major lithology		
109 -- 110 --					gradational contact (sharp)			108 ~ 109 greenish layer		
-- 120 --								• minor lithology		
-- 130 --	undisturb	GLTY1 5/5GY	clay	medium sand (foram)	massive	BI3 slight				
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF HN	Date: 29/Nov/2011
		Avg.	Max.						
-- 0 --							• minor lithology (continued from 2A)		
-- 10 --									
-- 20 --									
-- 30 --							30~32 extended(?) gap.		
-- 40 --									
-- 50 --									
55				bioturbated contact					
-- 60 --	undisturb GLEY1 4/5GY	clay	medium sand (foram)	massive	BI3 slight		• major lithology		
66				bioturbated contact					
-- 70 --							• minor lithology		
-- 80 --									
-- 90 --	undisturb GLEY1 5/5GY	clay	medium sand (foram)	massive	BI3 slight				
-- 100 --									
108				gradational contact					
-- 110 --							• major lithology		
-- 120 --									
-- 130 --	undisturb GLEY1 4/10Y	clay	medium sand (foram)	massive	BI3 slight				
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

U 385B

12H4A

214

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF HH	Date: 2011/11/29
		Avg.	Max.						
-- 0 --							major lithology (continued from 3A)		
-- 10 --									
-- 20 --									
-- 30 --							-25 Py burrow -29 Py burrow		
-- 40 --									
-- 50 --									
-- 60 --							-63 Py burrow		
-- 70 --									
-- 80 --									
-- 90 --							-89 Py burrow		
-- 100 --									
-- 110 --							-112 Py burrow -114 Py burrow		
-- 120 --							-118 Py burrow		
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

UT 5B

12H5A

15

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF NN	Date: 29/Nov/2011
		Avg.	Max.						
-- 0 --							• major lithology (continued from 4A)		
13 10 --				bioturbated contact			• minor lithology B. Py burrow		
-- 20 --									
und. disturb -- 30 --	GLAY 5/5 GT	clay	medium sand (foram)	massive	B13 slight				
-- 40 --									
50 50				gradational contact			• major lithology		
-- 60 --									
und. disturb -- 70 --	GLAY 4/10 Y	clay	medium sand (foram)	massive	B13 slight				
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --							-130 foram concentration		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

U1285B

12H6A

216

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SS HN	Date: 29/Nov/2011
			Avg.	Max.						
-- 0 --								• major lithology (continued from 5A)		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
70					bioturbated					
70	undisturb	GLTY 5/5GY	clay	medium sand (foram)	contact massive	B13 slight		• minor lithology		
77					gradational contact			• major lithology		
-- 80 --	undisturb	GLTY 4/10Y	clay	very fine sand (foram)	massive	B13 slight				
85					bioturbated					
90	undisturb	GLTY 5/5GY	silt	medium sand (foram)	contact massive	B13 slight		• minor lithology		
-- 90 --					bioturbated					
-- 100 --					contact			• major lithology		
-- 110 --	undisturb	GLTY 4/10GY	clay	medium sand (foram)		B13 slight				
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

IW

141-146cm 29% CaCO₃

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

U1385B

12HCA

217

Expedition 339: Mediterranean Outflow

12HCA



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					SF	29/Nov/2011
-- 0 --										
-- 10 --										
-- 20 --										
-- 30 --		PAL								
-- 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.						
								(12)	29/11/11
--0--							→ Zoo phyces → Forams present		
--10--	Same A				BZ=3		-10: Py burrows		
--20--							minor litho.		
--30--									
39 --40--									
--50--	Same A						→ Zoo phyces -46: Py burrows → Forams present		
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--	Same A								
126 --130--									
--140--	Same A								
--150--									

MAJOR LITHOLOGY: 63%

MINOR LITHOLOGY: 34%

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: LR	Date: 29/11/11
		Avg.	Max.						
-- 0 --	Same						→ Forams present		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --				Mudstone					
-- 60 --									
65									
-- 70 --									
71					BJ-3 silty		Forams present		
-- 80 --									
86					BJ-2 space				
-- 90 --	Same								
-- 100 --									
-- 110 --							→ Zoophycus → Forams present		
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY: 53%

MINOR LITHOLOGY: 47%

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: CVZ	Date: 29/11/14
			Avg.	Max.						
-- 0 --		Same						Forams present Pg burrows		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
65		Same								
-- 70 --								→ Zoophycus Forams present Pg burrows		
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
135		Grey 1								
-- 140 --		3/1064						→ Green patches → Forams present → Zoophycus		
145										
-- 150 --								major litho		

MAJOR LITHOLOGY: 50%

MINOR LITHOLOGY: 43%

Overlap: 7%

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
	same						<ul style="list-style-type: none"> → Forams present → Zoophyus → Py burrows 	C12	29/11/11
				△	B1=3 siltst		Major litho		
	GLCY1 3/1064				B22 siltst		<ul style="list-style-type: none"> → Zoophyus → Forams present → Green patches 		
							<ul style="list-style-type: none"> → 55cm: crack → Zoophyus → Forams present → Py burrows 		
	undisturbed			massive	B1=3 siltst		Major litho		
				△					
					B2=6 siltst		Minor litho		

MAJOR LITHOLOGY: 68%

MINOR LITHOLOGY: 25%

overlap: 7%

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--									CRZ	29/11/14
--10--						BSS = slt joint		Fossils present		
18										
--20--										
--30--								Fossils present Py burrows		
--40--										
--50--										
--60--						BSS = slt joint				
--70--										
--80--										
--90--										
--100--										
--110--										
115										
--120--										
--130--										
--140--										
--150--										



MAJOR LITHOLOGY: 84%

MINOR LITHOLOGY: 16%

Expedition 339: Mediterranean Outflow



Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
0									CRZ	29/11/11
6		same						crack → Forams present → Py burrows		
10										
20										
39										
40					mainly			crack		
52										
60	disturbed									
72										
80										
90										
100										
110										
120										
130										
140										
150										

MAJOR LITHOLOGY: 100%

MINOR LITHOLOGY: _____

1385B

134 CC

225

Expedition 339: Mediterranean Outflow



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
0								LR	29/11/11
5									
10									
20									
25									
30									
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Handwritten notes in the table:

- 0-5: dis
- 5-20: U naly's laube &
- 20-30: dis
- 30-40: dis
- 40-50: dis
- 40-50: BJA sount
- 40-50: Major litho
- 40-50: minor litho
- 40-50: ↓



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF LH Cr	Date: 2011/11/29
		Avg.	Max.						
--0--							0. start interval		
--10--							major lithology (darker) thick ness: very thick bedded 80% foram present BI 3 (slight) sedimentary structure: massive color: GLEY 4/5 GT 10cm Py burrow		
--20--									
--30--									
--40--	undisturb	GLEY 4/10 YR	clay	medum sand (foram)	massive	BI 2 sparse			
--50--							51 Py burrow		
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--					bioturbated contact				
--130--	undisturb	GLEY 5/10 Y	clay	medum sand (foram)	massive	BI 3 slight	130 Py burrow	minor lithology thick ness: very thick bedded 20% foram present BI : 3 (slight) sedimentary structure: massive color: GLEY 4/10 Y	
--140--									
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF CV	Date: 2011/11/29
			Avg.	Max.						
--0--								minor lithology (continued from 1A)		
--10--										
2-20--					bioturbated contact			major lithology some zoophytas		
--30--										
--40--	undisturb	GLT1 4/5GY	clay	medium sand (foram)	massive	B13 slight				
--50--										
--60--								44 Py burrow		
--70--								52 ↑ 62 patch ↓ 66 (GLT1 3/10 Y)		
--80--								69 Py burrow		
--90--										
--100--								97 Py burrow		
--110--								cutting trace		
--120--										
--130--										
--140--								137 Py burrow		
--150--								144 149 Py burrow		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: -SF -CV	Date: 2011/11/29
		Avg.	Max.						
-- 0 --							major lithology #62 (continued from 2A)		
-- 10 --							-10 Py burrow		
-- 20 --							-24 Py burrow		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --							-63 Py burrow		
-- 70 --							-69 Py burrow -72 Py burrow		
-- 80 --							-75 Py burrow -78 Py burrow		
92-90 --				bioturbated Contact					
-- 100 --							minor lithology -97 Py burrow		
-- 110 --	undisturb	GLEK 4/16 Y	clay	medium Sand (foram)	massive	BZ3 slight	-104 : 104 Py burrow : 107 Py burrow		
-- 120 --							cutting trace		
-- 130 --							-130 Py burrow		
142-140 --				bioturbated contact					
-- 150 --		GLEK 4/5 GY	clay	medium Sand (foram)		BZ3 slight	-144		major lithology

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF CV	Date: 2011/11/29
		Avg.	Max.						
-- 0 --							major lithology cutting trace (continued from 3A)		
-- 10 --							Py burrows		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --	undisturb								
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
137				bioturbated contact					
-- 140 --									
145	crack	GLTY 4/10 Y	clay	medium Sand	massive	B12 sparse			minor lithology
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF CV	Date: 2011/11/29
			Avg.	Max.						
-- 0 --								• minor lithology (continued from 4A)		
-- 10 --	undisturb									
14					gradational contact			• major lithology		
-- 20 --								-21 Py burrow		
-- 30 --	undisturb	GLE1 4/10Y	clay	medium sand (foram)	massive	B13 slight				
-- 40 --										
-- 50 --										
-- 60 --					bioturbated contact			• minor lithology		
-- 70 --								-65 Py burrow		
-- 80 --										
-- 90 --	undisturb	GLE1 5/5GY	clay	medium sand (foram)		B13		-82 Py burrow		
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385B 14H 6A

231

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					SF-CV	2011/11/29
-- 0 --								- minor lithology (continued from 5A)		
-- 10 --										
-- 20 --										
-- 25 --	undisturb									
-- 30 --								- 32 Py burrow		
-- 40 --										
-- 47 --					bioturbated Contact			- major lithology		
-- 50 --										
-- 60 --										
-- 65 --	undisturb	GLTY 4/10 Y	clay	medium sand. (foram)	massive	B13 slight				
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 105 --								- 109 Py burrow		
-- 110 --										
-- 120 --								- 120 Py burrow		
-- 130 --										
-- 140 --								- 142 Py burrow		
-- 145 --								145-150cm CaCO ₃ 32%		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

1385 B 1411 7A 232



Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF CV	Date: 2011/11/29
			Avg.	Max.						
0								major lithology (continued from 6A)		
10										
19					bioturbated contact			minor lithology		
20		GLEI 4/10GY	clay	medium sand (foram.)		BI-3 slight		25. Py burrow 29. Py burrow		
30										
34					bioturbated contact			major lithology		
40		GLEI 4/5GY	clay	medium sand (foram.)		BI-3 slight				
49										
50										
60										
70										
80										
90										
100										
110										
120										
130										
140										
150										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B

Expedition 339: Mediterranean Outflow

1385B

14H CC 233



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: SF CV	Date: 2011/11/29
		Avg.	Max.						
-- 0 --									
-- 10 --	GLEI. 4/5GY	clay	medium sand (foram.)	massive	BI-3 slight				
-- 20 -- 24									
-- 28 --	PAL								
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B-15H-1

Expedition 339: Mediterranean Outflow

U1385B 15H 1A

(235)

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --								NN	29/Nov/2011
	fall-in						* partly interbedding greenish layer		
-- 7 --									
-- 10 --	GREY 4/5GY	clay	medium sand (foram)	massive	BI:3 slight		Major lithology (darker unit)		
-- 20 --							<ul style="list-style-type: none"> thickness: very thick bedded 95% (↔ 5% Minor Lithology) foram bearing color: GREY 4/5GY BI:3 slight 		
-- 26 --							Py burrow		
-- 30 --									
-- 40 --									
-- 50 --							51 Py burrow		
-- 60 --									
-- 70 --									
-- 75 --							75 ← sampling crack		
-- 78 --							78 ← sampling crack		
-- 80 --							81 Py burrow		
-- 90 --									
-- 100 --	undisturbed								
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY: calcareous ooze with mud

MINOR LITHOLOGY: calcareous nanno fossil ooze

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --							Major lithology (continued from Sec. 1A)	N.N.	29/Nov./2011
-- 10 --									
-- 20 --									
-- 28 --									
-- 30 --	undisturbed	GREY 1 5/5GY	clay	medium sand (foam)	massive	BI: 3 (slight)	Minor lithology (lighter unit)		
-- 39 --	undisturbed	GREY 1 4/5GY	clay	medium sand (foam)	massive	BI: 3 (slight)	<ul style="list-style-type: none"> thickness: medium bedded 5% (↔ 95% Major lithology) foam bearing color: GREY 1 5/5GY BI: 3 (slight) 		
-- 40 --							Major lithology		
-- 50 --									
-- 60 --									
-- 70 --									
-- 72 --									
-- 75 --									
-- 78 --									
-- 80 --									
-- 90 --									
-- 100 --	undisturbed								
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									
									-147.5 foam concentration

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									N-N.	29/Nov/2011
								Major lithology (continued from sec. 2A)		
								-5.5 Py burrow		
-- 10 --										
-- 20 --										
-- 30 --										
								-29] greenish layer		
								-30] greenish layer		
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

undisturbed

Major lithology (continued from sec. 2A)

-5.5 Py burrow

-29] greenish layer

-30] greenish layer

-34 foram concentration

-53 greenish layer

-54.5 foram concentration

-71 greenish layer

-77.5 foram concentration

-99 greenish layer

-101.5 greenish layer

-133 foram concentration

MAJOR LITHOLOGY:

MINOR LITHOLOGY:



Cutting
trace

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: N. IV.	Date: 29/Nov/2011
			Avg.	Max.						
-- 0 --								Major lithology (continued from section SA)		
-- 10 --					bioturbated contact			-13 Greenish layer		
14	un-disturbed	GREY 5/SGY	clay	medium sand (foram)	massive	BI:3 Slight		Minor lithology		
-- 20 --	27	GREY 4/OGY	clay	medium sand (foram)	bioturbated contact massive	BI:3 Slight		Major lithology		
-- 30 --								-30 foram concentration		
								-36 foram concentration		
-- 40 --								-44 Py burrow, Greenish layer		
-- 50 --								-54.5 Py burrow, foram concentration		
-- 60 --								-63 foram concentration		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

undisturbed

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

01385B 15H CCA (2)



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: N.V	Date: 29/Nov/2011
			Avg.	Max.						
-- 0 --								Major lithology (continued from sec. 6 A)		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385B-164-1

U1385 B.

164

Expedition 339: Mediterranean Outflow

14

1A

242

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					CRZ	29/11/11
--0--									
6									
--10--	GLEy1 4/10g	clay	sand (Forams?)				minor litho. (light) bedding thickness = very thick → Forams present		
--20--				massive					
--30--					By-3 slght				
38									
--40--									
43				bioturbated					
44				contact					
--50--	GLEy1 4/5Gy	clay					Major litho (dark) bedding = very thick → Forams present → Zoophyus		
--60--									
--70--				massive					
--80--					By-3 slght				
85									
--90--									
85									
88									
--90--									
99				bioturbated					
--100--	GLEy1 4/10g			contact			Minor litho (light) → 100: Py burrow → Forams present		
--110--									
119									
--120--									
123									
--130--				massive					
					By-3 slght				
137									
--140--									
135									
144									
--150--	GLEy1 4/5Gy						Major litho		

MAJOR LITHOLOGY: ^(55%) Nano ooze with clay (dark) 75% Major
 MINOR LITHOLOGY: light 55% total core: 20% minor total core: 5% oolite

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					CR	29/11/11
--0--	OLEY1 4/56y	Same as	1A				Traja litho → Zoophytes → Forams present -11: Py burrow	bedding thick = very thick	
--10-- 11									
--20--									
--30-- 32							-32: crack		
--40--									
--50-- 52							-52: Py burrow		
--60--									
--70--	Undisturbed			micritic	BJ-3 Slight				
77							-77: Py burrow		
--80--									
--90-- 93				bioturb contact					
--100--	OLEY1 5/10y						Traja litho → Zoophytes → Forams present	bedding thickens very thick	
--110--									
--120--	Undisturbed			micritic	BJ-3 slight				
--130--									
--140--									
--150--									

MAJOR LITHOLOGY: Same as 1A

60%

MINOR LITHOLOGY: Same 1A

40%

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--		GLEYS 4/10y	same as 1A						CR	2/11/11
--10-- 11								11: Py burrows		
--20-- 21								21: Coccolith		
--30--	undisturbed				lucisive					
--40-- 43					bioturbated contact					
--50--		GLEYS 4/56y						Tragic litho (dark) Forams present		
--60-- 61								61: Py burrows		
--70--					lucisive					
75	undisturbed							75: Py burrows		
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY: 70%
Same as 1A

MINOR LITHOLOGY: 30%

U138.5B

16H 4A.

245

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					CRZ	29/11/11
-- 0 --	GLE 1 4/5 Gy	Same as 1A					Major litho → Forams present		
-- 10 -- "							Py burrow		
-- 20 --				massive	B2=2	shallow			
-- 30 -- 30	GLE 1 4/10 Gy						Minor litho → Forams Present		
-- 39 -- 39 -- 40 --							39: Py burrow		
-- 50 --				massive	B2=3	Slight			
-- 60 --	GLE 1 4/10 Gy			massive	B2=4	undisturbed	Overlap → Forams present		
-- 70 -- 71	GLE 1 4/10 Gy						Minor litho Forams Present		
-- 80 --									
-- 90 --				massive	B2=3	Slight			
-- 100 -- 103							103: Py burrow		
-- 110 --									
115	GLE 1 4/10 Gy			massive	B2=4	undisturbed	Overlap Forams present		
-- 120 --									
128	GLE 1 4/10 Gy			massive	B2=3	Slight	Minor litho Forams present		
-- 130 -- 134							134: Py burrow		
-- 140 --	GLE 1 4/5 Gy			massive	B2=2	Slight	Major litho Forams Present		
-- 150 --									

MAJOR LITHOLOGY: Same as 1A

29%

MINOR LITHOLOGY:

55%

Overlap 16%



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					UR	29/11/11
-- 0 --		GLEY 1	Same as 1A	oo				Main litho (dark)		
-- 10 --		4/109						→ Zoophycus → Foram. lutescent		
13								-13: Py burrow		
17								-17: crack		
-- 20 --										
29								-29: Py burrow		
-- 30 --										
-- 40 --										
44								-44: Py burrow		
-- 50 --										
-- 60 --										
-- 70 --								-70: crack		
-- 80 --										
89								-89: Py burrow		
-- 90 --										
96								-96: Py burrow		
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --								145-150 cm CaCO ₃ 38%		

MAJOR LITHOLOGY: Same as 1A 100%

MINOR LITHOLOGY:

1385B

1385B

16H 6 A

(247)

Expedition 339: Mediterranean Outflow

SP-1000-101-14
MILITARY
PROPERTY

	Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					CR	29/11/11
-- 0 --								Same as 5A		
7		Same as 5A	Same as 1A					Py burrow		
-- 10 --										
17								Py burrow		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
62	undisturbed				unconform	BZ as slight		Py burrow		
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --								No Core Catcher.		
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY: Same as 1A 100%

MINOR LITHOLOGY: