

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --	No	2.54 5/3			Thin laminated	Absent		Fine laminated mud (mud line) Thick laminated - colour banden Oxidised		
-- 10 --								Colour contact (gradational)		
-- 20 --	No	2.54 2/5			Massive	Slight		Brown fine mud		
-- 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						AS ABOVE		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385E-2H-1

Expedition 339: Mediterranean Outflow

1385E 2H 1A

383

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --									
-- 10 --									
-- 20 --									
	2.54 4/2								
-- 30 --									
-- 40 --									
				disturbed			disturbed		
-- 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 --								Brown fine mud with bioturbation		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --		2.54 4/1			Massive	Slight				
-- 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 --										
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

AS ABOVE

AS ABOVE

Shell fragment @ 100

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	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 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

AS ABOVE

AS ABOVE

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

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 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

AS ABOVE

AS ABOVE
- Shell fragment @ 34

- Gastropod @ 84cm (~1cm)

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	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 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

AS ABOVE

AS ABOVE

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	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 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

AS ABOVE

AS ABOVE

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385E 24 CoA

90



	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 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

AS ABOVE

AS ABOVE

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385E-3H-1

Expedition 339: Mediterranean Outflow

U1385E 3H1A

391

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --								Disturbance		
19 -- 20 --										
-- 30 --								Brown fine mud		
-- 40 --										
-- 50 --		2.54 4/1			Massive	Slight				
-- 60 --										
-- 70 --										
73 -- 80 --										
-- 90 --								Disturbance		
-- 100 --										
108 -- 110 --								Flow disturbance ~2cm from core edge Brown fine mud		
-- 120 --		2.54 4/1			Massive	Slight				
-- 126 --										
-- 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 --							- Small shell fragments @ 67 & 72		
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --							- PB @ 37		
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

V1385E 3H 3A

3

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --		AS ABOUT						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 --										
-- 10 --		AS ABOVE						AS ABOVE		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 85 --										
-- 90 --		2-54 S/ 1			Massive Slight			Colour contact (gradational)		
-- 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 --										
-- 10 --								AS ABOVE		
-- 20 --		AS ABOVE								
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --								Colour change contact (gradational)		
-- 81 --								Brown fine med - bioturbated		
-- 90 --		2.5/4/1			Massive	Slight				
-- 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 --										
-- 10 --										
-- 20 --		AS ABOVE						AS ABOVE		
-- 30 --								Forams present		
-- 40 --										
-- 50 --								Burrows @ 48		
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --								Burrows @ 88-91		
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

V1385E 3H 7A

(397)

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:

UNIVERSITY OF ALABAMA
MARINE CENTER



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:

1385E-4H-1

Expedition 339: Mediterranean Outflow

1385E 4H 1A

399

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --									
-- 10 --									
-- 20 --							Flow Disturbance		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --							Brown fine bioturbated mud		
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 114 --							colour contact (bioturbation)		
-- 120 --							Pale brown fine mud.		
-- 130 --									
-- 140 --									
-- 150 --									

Flow

2.5
4.1

2.5
5.2

Massive

Slight

colour contact (bioturbation) } 114
gradational }
-122

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 --	AS ABOVE								
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --							-53 Small fault with an offset of ~7mm vertical		
-- 70 --							-73		
-- 80 --									
-- 90 --									
-- 100 --							94 Slight logy 4/1 mottle		
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --	2.54 4/1			Massive	Slight		Colour change contact Dark brown fine clay		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385E 4H 3A

(501)

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --									
-- 10 --	AS ABOVE						AS ABOVE burrow @ 14		
-- 20 --							Forams present		
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --							burrow @ 116		
-- 124 --							Colour change contact (bioturbated)		
-- 130 --	2.54 5/1			Massive	Moderate		Light brown fine mud bioturbated forams present		
-- 137.5 --									
-- 140 --	2.54 4/1			Massive	Slight		Brown fine mud - bioturbated forams present		
-- 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 --							Colour contact		
-- 20 --	2.54 5/1			Massive	Slight		Light brown mud bioturbated Zoophycus @ 16-21 forams present		
-- 30 --									
-- 38 --							Colour change contact (gradational)		
-- 40 --							Dark brown fine bioturbated mud.		
-- 50 --	2.54 3/1			Massive	Slight		forams present		
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --							Colour change contact (bioturbated)		
-- 110 --	2.54 4/1			Massive	Slight		Brown fine bioturbated mud forams present.		
-- 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 - Burrow @ 6cm		
-- 10 --							Forams present		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --								- burrow 75cm	
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 125 --							- 125 Colour change contact (inclined)		
-- 130 --							- 144		
-- 140 --	2.54 3/1			Massive	Moderate		Dark brown fine bioturbated mud forams present (sparse)		
-- 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		
-- 20 --									
-- 30 --							Forams present		
-- 40 --							-35 -38] Burrows		
-- 50 --									
S2							Colour change contact (disturbed)		
-- 60 --	2.54 4 1/1						Brown fine bioturbated med		
-- 70 --									
-- 80 --							↑ 73 Burrows		
-- 90 --							↓ 85		
-- 100 --							- Burrow @ 92		
-- 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 --									
-- 10 --									
-- 20 --									
-- 30 --									
-- 34 --									
-- 40 --	104 4/1			Massive	Moist		Colour change contact (bioturbated) Dark brown/grey bioturbated mud forams present		
-- 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 --	A undisturbed	10 y 4/1	mul		medium	BZ = 3 slight		Forams present		
-- 10 --										
-- 20 --										
27	A	2.5 y 4/1			medium	BZ = 3		→ bioturbated contact		
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385E-SH-1

Expedition 339: Mediterranean Outflow

U1385E SH 1A

409

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --	10YR 5/1 gray	Clay	Med. sand		Mod		Down to: Sect 3, 112cm Major 100% Nanno ooze w/clay ← MUDDY w/slight color change due to bioturbation		
-- 10 --		↓ All	↓ All		↓ All				
-- 20 --									
-- 30 --							Pyritized burrow present Scatter pyrite grains present Foram present Some zoophycos		
-- 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: JK	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:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
			Avg.	Max.						
-- 0 --			clay	Med Sand		4		As above (~ 112cm)		
-- 10 --			↓ All	↓ All		↓ All				
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --		10YR 7/1 light gray			Bioturb. Contact	4		112 Down to Sect 4 30cm Major 100% Nanno Ooze w/ slight color change due to bioturbation		
-- 130 --					132))))			Scatter py grains Py burrow Foram present Some zoophycus		
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --		Clay ↓ All	M. sand Foram ↓ All		Mod ↓ All				
-- 10 --									
-- 20 --									
-- 30 --				gradational Contact			Major 100%		
-- 40 --	10YR 8/1 White			43 43 48			White Nanno ooze w/ slight color change due to bioturbation Scatter py grains Py burrows Foram present (Some zoophycos few chondrites-like trace fossils Chotton)		
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --				Bioturb Contact			10B Down to Bottom of CC Major 60% • Nanno ooze w/ clay (10YR 5/1) ← MUDDY w/ slight color change due to bioturb. Minor 40% • Nanno ooze (10YR 7/1) w/ slight color change due to bioturbation - bottom contact — Not recovered - Layering - Thick bedded Scatter py grains Py burrows Foram present Common Zoophycos		
-- 120 --	10YR 5/1								
-- 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 --		10YR 5/1 (Major)						As above	JK	
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --					23 24 25					
-- 80 --					26 27 28 29					
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --		122 10YR 7/1 (Minor)								
-- 140 --					30 31					
-- 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 --	10YR 5/1 (Major)						As above	JK	
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --	10YR 7/1 (Minor)								
-- 80 --				80 >>>					
-- 85 --				85 >>>					
-- 90 --				91 >>					
-- 100 --				104 >>>					
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385E 5H 7A

413

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --								As above	JK	
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --		10 YR 5/1 (Major)								
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

U1385E 5H CCA
 10/20/02
 10/20/02



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --							As above		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --							Core Summary NANNOFOSSIL OOZE NANNO OOZE w clay		(grey) + MUDDYNO
-- 50 --							Thick (30-100cm) Inter bedding of Gray NANNO OOZE w/ CLAY & white to light gray NANNO OOZE, with slight color change due to bioturbation. Section 4, 30-108cm white NANN OOZE.		
-- 60 --							pyritized burrows Scatter py grains Forams		
-- 70 --							Common Zoophycos & few chondrites-like trace fossil		
-- 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: JK	Date:
			Avg.	Max.						
-- 0 --	No Disturbance	10Y8/1	CLAY	MED SAND (Foram)		Moderate		Major 100% Nannofossil ooze w/ slight color change due to bioturbation		
-- 10 --	↓ All Core	light greenish gray	↓ All	↓ All				Bioturbated bottom contact Forams visible Sand-filled patches (S-Fburr) Scatter py grains		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 80 --					-S-Fburr					
-- 90 --					Bioturbated contact chondrites-like TF			90		
-- 90 --		10Y6/1 Greenish gray						Major 100% NANNO Ooze w/ MUD w/slight color change		
-- 100 --								Gradational Bottom Contact Forams visible Sand-filled burrows chondrite &-like Trace fossil		
-- 110 --										
-- 110 --					-S-Fburr					
-- 120 --										
-- 130 --										
-- 140 --					gradational cont			143		
-- 140 --								See the Next Sect		
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --		CLAY	M. SAND foram		4		Major 90% NANNO OOZE w/ MUD with slight color change due to bioturb		
-- 10 --		↓ All	↓ All				10YR 6/2 light brownish gray (but, slightly reddish) Minor 10%		
-- 20 --							NANNO OOZE w/ MUD ← MUDDY w/ slight color change due to bioturbation		
-- 30 --							10YR 5/1 gray (but, slightly reddish)		
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --				76 5/25	4				
-- 90 --		Major 10YR 6/2 light brownish gray							
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --					4				
-- 150 --									

Bioturbated bottom contact
Layering
Thickness — Major — Very thick
 Minor — Thin
(Please leave it blank in the
descrip — Make a note
on core summary)

- Some zoophycos
- Scatter py grains
- py-burrows / sand-filled burrows

Some light greenish gray layers & patches
w/ slightly coarse (silt-size) grains

Expedition 339: Mediterranean Outflow

U1255

6H3A

417

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --	Major	CLAY	M SAND foram		+		As above		
-- 10 --				12-13 light greenish gray layer					
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --					4				
-- 90 --									
-- 100 --				100 102					
-- 110 --	109 Minor 10YR 5/1 gray								
-- 120 --	121 Major 10YR 6/2								
-- 130 --				133 5/1					
-- 140 --									
-- 150 --					4				

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
			Avg.	Max.						
-- 0 --			CLAY	MED SAND		4				
-- 10 --			↓ ALL	Foram ↓ ALL						
-- 20 --										
-- 30 --										
-- 40 --				Zoophycos abundant						
-- 50 --										
-- 60 --										
-- 70 --						4				
-- 80 --										
-- 90 --										
-- 100 --		107 gray 10TR5/1 Minor								
-- 110 --				113-115] lighter greenish gray patch						
-- 120 --		gray 10YR 5/1 Minor		Bioturb cont			119 Down to the bottom of CC			
-- 130 --				125			Major - 70% light gray NANNO OOZE w/slight color change			
-- 140 --							Minor - 30% gray NANNO OOZE w MUD ← MUDDY w/ slight color change			
-- 150 --						4	-bottom contact NOT recovered -Layering -Thick bedded Cont to NEXT SHEET			

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --	10Y7/1 Major light gray				Mode zone 4		Cont. from Sect 5 - Py. burrows / sand-filled burrows - Forams visible - Zoophycos common (Some light greenish gray patches & layers with slightly coarser (silt-size) grains)		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --))))					
-- 50 --									
-- 60 --					4				
-- 70 --))))					
-- 80 --									
-- 90 --	93 10YR 6/1 gray Minor								
-- 100 --									
-- 110 --				112-113 light greenish gray patches					
-- 120 --	118 10YR 7/1 Major								
-- 130 --									
-- 140 --					4				
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JF	Date:
			Avg.	Max.						
-- 0 --		10YR 7/1 Major				moderate 4		As above		
-- 10 --										
-- 20 --		21 10YR 6/1 Minor								
-- 30 --										
-- 40 --					light greenish gray patches					
-- 50 --		79 10YR 7/1 Major								
-- 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 --		10YR 7/1 Major				Moderate		As above	JF	
-- 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: JK	Date:
		Avg.	Max.						
-- 0 --	10 YR 7/1 Majbr						As above		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --							Core Summary		
-- 50 --							MUDDY NANNOFOSSIL OOZE NANNOFOSSIL OOZE W/MUD NANNO OOZE		
-- 60 --							<ul style="list-style-type: none"> Light greenish gray NANNO OOZE (Sect. 1 0-90 cm) Greenish gray NANNO OOZE (Sect. 1 90-143 cm) Interbedding of 1) very thick light brownish gray (but slightly reddish) NANNO OOZE W MUD, and 2) thin gray (but slightly reddish) NANNO OOZE W MUD (Sect 1, 143 cm - Sect 4, 119 cm) Interbedding of 1) Thick bedded light gray NANNO OOZE and 2) Thick bedded gray NANNO OOZE WITH MUD (Sect 4, 119- bottom) 		
-- 70 --							<ul style="list-style-type: none"> - Scatter PY grains - PY burrows / sand-filled patches (churrow?) - some zoophycos and few chondrites-like TF - contacts are bioturbated or gradational - some light greenish gray layers & patches with silt-size grains are visible below Sect 4, 113cm 		
-- 80 --							Note (Green - Red color change (Core starts greenish) - particularly Sect. 1, 90-143cm)		
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385E

1385 E 7H2A

429

4.

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --	Major 10YR 7/2 light gray	CLAY ↓ All	M. SAND forams ↓ All		Moderate 4		Continue		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 65 --	65))))					
-- 70 --	Minor 10YR 5/1 gray				4				
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 123cm --				Bioturbated contact			123cm		
-- 130 --	Major 10YR 7/1 light gray						Major 70% light gray NANNO OOZE w MUD w/ slight color change.		
-- 140 --							Minor 30% gray NANNO OOZE w MUD ← MUD w/ slight color change		
-- 150 --					4		-Medium-bedded -Layering -Bioturbated bottom (cont)		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

V1385 E #13A.

25

425

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
--0--		CLAY ↓ All	M. SAND forams ↓ All		4		Continue - py-burrows / sand-filled burrows - scatter py grains - forams - zoophycas	JK	
--10--	10 Minor 10YR 5/1 gray								
--20--									
--30--	25 Major 10YR 5/1 Light gray								
--40--									
--50--									
--60--									
--70--	70 Minor 10YR 5/1 gray								
--80--	82			bioturbated	4				
--90--	10YR 7/1 Light gray			contact	slight 3		82 Major 100% Light gray NANNAL Ooze w MUD - py-burrows - scatter py grains - forams		
--100--									
--110--									
--120--									
--130--									
--140--					3				
--150--							continue		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --		CLAY ↓ All	M. SAND forams ↓ All		3		as above		
-- 10 --									
-- 20 --									
-- 30 --				gradation contact	3 4		30cm Major 100% — start greenish Greenish gray NANO OOZE w MUD w/ slight color change (partly mottled) due to bioturbation		
-- 40 --	10Y 6/1 Greenish grey						- Basal contact NOT recovered		
-- 50 --							- Scatter py grains - Py-burrows / sand-filled burrows - Forams - Zoophycos & chondrites-like TF Common		
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --				chondrites -like Trace fossil	4				
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --					4				

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385E 7H5A.

4



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --			CLAY ↓ ALL	M. SAND forns ↓ ALL		Moder size 4		Down to the bottom of CC Major 100%		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --						4				
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --						4				
-- 150 --								Cont		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	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:



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	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

U1385EDHCC-A



Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --							As Above		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --							CORE SUMMARY NANNOFOSSIL OOZE WITH MUD + MUDDY.		
-- 50 --							- Top - Sect 2 123cm Interbedding of 1) Thick bedded layers of light gray (slightly reddish) NANNO OOZE w MUD, and 2) Medium bedded layers of gray (slightly reddish) NANNO OOZE w MUD ← MUDDY. w/ slight color changes due to bioturbation		
-- 60 --							* Sect 2 123cm to Sect 3, 82cm Interbedding of 1) Thick bedded layers of light gray NANNO OOZE w MUD 2) Medium bedded layers of light gray " ← MUDDY NO w/ slight color changes due to bioturbations		
-- 70 --							* Sect 3, 82cm to Sect 4, 30cm Light gray NANNO OOZE w MUD		
-- 80 --							* Section 4, 30cm to the bottom Greenish gray NANNO ooze w MUD w/ slight color changes due to bioturbation		
-- 90 --							Contacts: bioturbated or gradational Bioturbation: slight - Moderate Color changes from REDDISH to GREENISH Down Core Upper part Lower part		
-- 100 --							- Peritized burrows - Sand-filled burrows (or patch) - Scattered pyrite grains - Zoophycos & some chondrites-like trace fossils		
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --		CLAY	M. SAND foram				Major 60% greenish gray Nanno ooze w/ MUD ← MUDDY w/ slight color change		
-- 10 --	Slurry moderate	↓	↓				Minor 40% light greenish gray NANNO OOZE w/ MUD w/ slight color change		
-- 20 --	25cm								
-- 30 --	Major 10Y 5/1 greenish gray				Moderate 4		- Gradational bottom contact - Thick bedded - Layering - py burrows - scatter py grains - zoophycos - Forams		
-- 40 --									
-- 50 --									
-- 60 --	Minor 10Y 7/1								
-- 70 --	Light greenish gray								
-- 80 --					4				
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --	Major 10Y 5/1			'''					
-- 130 --				'''					
-- 140 --					4				
-- 150 --				Gradational Contact					

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
--0--		CLAY ↓	M. SAND foram ↓		A		Major 65% Light greenish gray NANNO OOZE W MUD w/ slight color changes due to bioturbation		
--10--							Minor 35% gray (slightly reddish) NANNO OOZE W MUD w/ slight color changes due to b.t.		← Muddy
--20--	Minor 5YR 5/1 gray						Thick (partly medium) bedded Layering Bottom NOT recovered - Scatter pyrite - Py-burrows / sand-filled patches (burrows) - forams - Zoophycos		
--30--									
--40--	43 Major 10Y7/1 Greenish gray								
--50--									
--60--									
--70--					A				
--80--									
--90--									
--100--									
--110--									
--120--									
--130--	131 Minor 5YR 5/1								
--140--					A				
--150--							Same down to the bottom		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --	Minor 5YR 5/1	CLAY ↓	M SAND foram ↓		←				
-- 10 --	9 Major 10Y 7/1								
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --					4				
-- 80 --									
-- 90 --	92 Minor 5YR 5/1								
-- 100 --									
-- 110 --	104 Major 10Y 7/1)))				
-- 120 --	113 Minor 5YR 5/1)))				
-- 130 --	123 Major 10Y 7/1								
-- 140 --									
-- 150 --	151				4				

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
			Avg.	Max.						
-- 0 --		0 Minor 5YR 5/1	CLAY	M SAND		4				
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --		45 Major 10Y 7/1				4				
-- 50 --										
-- 60 --)))					
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --						4				
-- 140 --										
-- 150 --		150								

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --	6 Minor 5YR 5/1	CLAY ↓	M SAND foram ↓		A				
-- 10 --	11 Major								
-- 20 --	10Y 7/1								
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --	57 Minor 5YR 5/1				A				
-- 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: JK	Date:
		Avg.	Max.						
-- 0 --		CLAY	M SAND		*				
-- 10 --	Minor HYD 5/1	↓	↓						
-- 20 --									
-- 30 --									
-- 40 --							CORE SUMM NANNO OOZE w MUD		
-- 50 --							Sect. 1 Interbedding of 1) Thick bedded greenish gray NANNO OOZE w MUD ← MUDDY NO. 2) Thick bedded greenish gray NANNO OOZE w MUD Light w/ slight color changes due to bioturbation		
-- 60 --							Sect 2 to bottom Interbedding of 1) Thick light greenish gray nanno ooze w mud 2) Thick to medium bedded gray (slightly reddish) ← MUDDY NANNO OOZE w MUD w/ slight color change due to bioturbation		
-- 70 --							Contacts: Gradational / bioturbated Bioturbation: Moderate		
-- 80 --							Sediments are slightly reddish (in particular, darker layers) below Sect. 2.		
-- 90 --							- py, burrows / sand-filled patches - scatter py grains - Forams visible burrows		
-- 100 --							Top 25 cm disturbed		
-- 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.					RF	11/30/11
- 0 --		Clay	m sand forams		4		Gray and dark gray nanno? clay with some redder (10R4/1) layering, medium bedded. Also some gray clay, medium-bedded units		
- 10 --		↓	↓		↓				
- 20 --									
- 30 --									
- 40 --									
- 50 --									
- 60 --									
- 70 --									
- 80 --									
- 90 --									
- 100 --									
- 110 --									
- 120 --									
- 130 --									
- 140 --									
- 150 --									



17
18
19
20
10Y5/2

GAS EXPANSION

95
N 5/2
100
10R 4/1

PB

10Y4/7

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: RDF	Date: 11/30/11
			Avg.	Max.						
-- 0 --			Continues			4		above unit continues		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

UNDISTURBED

PB

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --			Continues			4			RDF	11/20/11
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --					PB					
-- 70 --										
-- 80 --	UNDISTURBED	5Y 5/2						bioturbated contact		
-- 90 --								85 olive gray clay with common forams & silt/sand fill burrows		
-- 100 --									90 bioturbated contact	
-- 110 --								Gray & dark gray nano? clay with some redder layering, medium bedded. Also some gray clay-medium-bedded units.		
-- 120 --								↓ continues down core		
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

V1385E

9H5A.

141

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

UNDISTURBED

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385E

10H2A

446

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
			Avg.	Max.						
-- 0 --			CLAY	M. SAND F. GRAIN		Med +		AS ABOVE		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --		73 Minor 10GY 7/1 Light greenish gray				+				
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

UB 85 E

1043A

447

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	Minor 10GY 7/1	CLAY	M. SAND fossil		Medi +		As above	JK	
-- 10 --	L.G. Gray								
-- 20 --									
-- 25 --	Major 5GY 6/1								
-- 30 --	Greenish Gray								
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

34-123 MEGA Trace Fossil

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385E

10H4A

448

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		Major 5GY 6/1	CLAY	MSAND foram				As above	JK	
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --		slightly reddish / 95 7.5Y R 6/1 (gray)								
-- 110 --										
-- 120 --		Major 5GY 6/1								
-- 130 --										
-- 140 --		Greenish gray Color 10GY 6/1 band								
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
			Avg.	Max.						
-- 0 --		Major 5GY 6/1				moderate ↓		As above		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 45 --					Bioturbation contact					
-- 50 --		5GY 8/1				Mod ↓		Major 100% Light Greenish gray NANNO Ooze MUD w/ color change (mottling) due to bioturbation		
-- 60 --								- Forams - Spongy grains - Py. burrows - Zoophycos & some clauvites. like T F (bottom)		
-- 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: JK	Date:
		Avg.	Max.						
-- 0 --	5GY 8/1 Light greenish gray	CLAY ↓	M. SAND foram ↓		4				
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --	5GY 5/1			Bioturbation cont.			5B chondrites-like T.F. Major 100% 5GY 5/1		
-- 70 --					slight W		Greenish gray MUDDY NANNO ooZE - Zoophy eos - py-burrows - scatter py grains - Forams		
-- 80 --									
-- 90 --)))))))) Bioturbate cont					
-- 100 --	5GY 7/1				W		To the Bottom of CC 5GY 7/1 - light greenish gray NANNO ooZE w/ MUD w/ slight color changes - Bottom Contact NOT recovered - Scatter py grains - Py-burrows - Forams		
-- 110 --									
-- 120 --							slightly more abundant coarse grains (forams?)		
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

V1385 E 10H SACCA

15



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									JK	
-- 10 --										
-- 20 --										
-- 30 --								CORE SUM MUDDY NANNO OOZE NANNO OOZE w/MUD		
-- 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: JK	Date:
		Avg.	Max.						
-- 0 --	Major	CLAY	M SAND forams		Mode 4		Down to the bottom of sect. 5 Major - 60% relatively dark 10GY 6/1 greenish gray, NANNO Ooze Typical MADDY Minor - 40% relatively light 5GY 7/1 light greenish gray NANNO Ooze MUD w/ slight color changes due to B.T. (mat. fig.) - Gradational bottom contact - Thick Bedded layering - Greenish gray color band - Scatter PY grains - PY - burrows - Foram visible - Mottling - Zoophycos & some chondrites-like trace fossils		
-- 10 --		↓	↓						
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --		5GY 6/1 gray				4			
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --	124 Minor 5GY 7/1			P.B					
-- 140 --				P.B	4				
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		Minor				4		As above	JK	
-- 10 --										
-- 20 --										
-- 30 --		5G 7/1								
-- 40 --										
-- 50 --					P.B.					
-- 60 --										
-- 70 --						4				
-- 80 --		75 Major								
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --		121 Minor			Chondrites-like TF 121-132					
-- 130 --						4				
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

11385E 11H3A

24

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		Minor						As Above	JK	
-- 10 --		10								
-- 20 --		Major 5G 6/1								
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --		5G/1 Greenish gray color band								
-- 70 --		5G 6/1))))))					
-- 80 --										
-- 90 --		89								
-- 100 --		Minor 5G 7/1								
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --		146 Major								

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --		Major				A		AS ABOVE	JF	
-- 10 --										
-- 20 --		7/1								
-- 30 --										
-- 40 --		Minor								
-- 50 --		5G 7/1								
-- 60 --						A				
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --						A				
-- 140 --										
-- 150 --		144 D/P								



MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --	Major	CLAY	M. SAND forams	Chondritic -like			AS ABOVE		
-- 10 --		↓	↓						
-- 20 --	10G1 6/1								
-- 30 --				17-44 Mega Burrow					
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --	10G 10G 84-89 Greenish gray color band (10G 6/1)								
-- 100 --									
-- 110 --	10G1 5/1								
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --				Gradational contact			↓ END OF LITHOLOGY		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --									JK	
-- 10 --						W				
-- 20 --		5G 6/2								
-- 30 --										
-- 40 --										
-- 50 --						W				
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

Core Summary

MUDDY NANNOFOSSIL OOZE
NANNO OOZE w MUD

- Top to bottom of Sect 5, Interbedding of
 - 1) Thick bedded greenish gray MUDDY N.O.
 - 2) " light greenish gray N.O. w/ MUD w/ slight color changes (mottling) due to B.T. gradational bottom contact
 - Top of Sect 6 to Bottom CC, Greenish gray MUDDY N.O. w/ slight color changes due to B.T. slightly more abundant forams
-
- Contacts - Gradational / bioturbated
 - Slight - moderate B.T.
 - Py-burrows
 - forams abundant below (Sect 6)
 - Scatter Py grains
 - Zoophycos & chondrite-like T.F.
 - Some greenish gray color bands (diagenetic redox change?)

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

V1385E11HCC

453
#



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

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385E-12H-1

Expedition 339: Mediterranean Outflow

1385 E. 12H 1A

46

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					JK	
-- 0 --	Slightly disturbed		CLAY	M. SAND		Moderate		Down to sect 4, 91cm Major - 60% slightly light N7 light gray NANNO OOZE w MUD Typical	JK	
-- 10 --										
-- 20 --	51				<ul style="list-style-type: none"> - Thick bedded layering - Slight color change due to B.T. (mottling) - Forams - Py-burrows / sand-filled burrows / patches - Zoophytes & some chondrites-type T. F. - Scatter Py grains - Greenish gray color bands - Bioturbated bottom contact 					
-- 30 --						5GY 7/1				
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --	117				A					
-- 110 --										
-- 120 --	5GY 6/1									
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --							As Above		
-- 10 --									
-- 20 --									
-- 30 --					4				
-- 40 --									
-- 50 --	5G 6/1								
-- 60 --					4				
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --				95 Greenish 96 Gray Color band					
-- 110 --					4				
-- 120 --									
-- 130 --	126 N7			shell			shell present (otolith)		
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1325 E

12H 3A

4

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --							As above	JK	
	5G4 6/1				4				
-- 10 --									
	21								
-- 20 --									
-- 30 --									
-- 40 --	5G4 7/1								
-- 50 --									
)))					
-- 60 --									
-- 70 --									
	25				4				
-- 80 --	5G4 6/1								
	86								
-- 90 --									
	27								
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --					4				
-- 140 --									
-- 150 --									


MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	5GY 7/1	CLAY	M.S.M. sand				As above		
-- 10 --									
-- 20 --									
-- 30 --	27				4				
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --					4				
-- 80 --									
-- 90 --									
-- 90 --				Bioturbated					
-- 100 --	5GY 8/1						91 5GY 8/1 light greenish grey NANNO OOZE W MUD w/ slight color change due to B.T. (mottling) - Bioturbated bottom contact - Forams - Scattered PY grains		
-- 110 --									
-- 120 --					4				
-- 120 --									
-- 130 --									
-- 130 --							122 / microfault 136		
-- 140 --									
-- 140 --									
-- 140 --				Bioturbated			146		
-- 150 --				chondrites - type IF.			See the Nex section		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
--0--	10GY 5/1	CLAY	M.SAND				4 microfaults drilling disturbance?  normal fault-type offset ~1cm Greenish gray MUDDY NANNO Ooze		
--10--							- Zoophycos - py-burrows - forams		
--20--	Major			Bioturbated contact			19cm Down to the bottom of CC Major - 60% 5GY 6/1 greenish gray MUDDY NANNO Ooze Typical		
--30--							Minor 40% N7 light gray NANNO Ooze		
--40--	5GY 6/1						- w/ slight color changes due to e.T. mottling - Bottom contact NOT recovered - Py-burrows - Forams - Some greenish gray color bands		
--50--									
--60--									
--70--									
--80--	Minor 5GY 7/1								
--90--	Minor								
--100--	N7								
--110--	Minor								
--120--	5GY 8/1								
--130--									
--140--	10GY 7/1								
--150--									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

1385E 12H 6A

15

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --			CLAY	M. SAME						
			↓	↓						
-- 10 --		5GY 7/1								
-- 20 --		22 Greenish 25 Gray color band				4				
-- 30 --										
-- 40 --		5GY 6/1								
-- 50 --										
-- 60 --		63								
		N7								
-- 70 --		70				4				
-- 80 --		5GY 6/1								
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
						4				
-- 130 --		5GY 6/1								
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

12/20/04 08:14
 12/20/04 08:14
 12/20/04 08:14



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --	↑ moderately Gas expansion ↓	Grey 6/1	CLAY	M. SAMP foram				As above		
-- 10 --			↓	↓						
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

238 01 0001 100 00 A
 100 01 0001
 100 01 0001



	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --	↑ slightly disturbed ↓	SGY 6/1						As above		
-- 10 --										
-- 20 --		SGY 7/1								
-- 30 --										
-- 40 --										
-- 50 --								CORE SUMM - Sediments Cores are more greenish!! - Some microfossils possibly drilling disturbance		
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385E-13H-1

Expedition 339: Mediterranean Outflow

1385 E

13H1A

468
9

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --		CLAY	M. SAND forum				Major - 100% greenish gray MUDDY NANNO Ooze - relatively massive		
-- 10 --	5GY 6/1 greenish gray						- Abundant scatter py grains - py-burrows & sand-filled burrows - more forams (slightly abundant) - less zoophycos		
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 64 --				bioturbated comp		64			
-- 70 --	Major 5GY 7/1 light greenish gray						Down to Sect. 3, 10cm "Eiffel Tower" burrow Major 90% greenish 10% 8/1 Light gray Thick bedded	} Layering	
-- 80 --	Minor 83						Nonno ooze w/ mud		
-- 90 --	5GY 6/1 G.G.						Minor 10% 5GY 5/1 greenish gray Thin-bedded - slight color change due to B.T. - zoophycos (common) - scatter py-grains - py-burrows		
-- 100 --	bl								
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --	5GY 8/1 L.G.G.								
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385E

13H2A.

469
50

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --	Minor	CLAY	m. sand foram				As above		
	5GY 6/1								
-- 10 --									
	15 17 greenish gray band								
-- 20 --	Major								
-- 30 --									
	10Y 7/1 L.G.G								
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
	10Y 8/1 L.G.G								
-- 90 --									
-- 100 --									
	10B Minor								
-- 110 --	5GY 5/1 G.G								
-- 120 --	11Y M=Jor								
	5GY 7/1 L.G.G								
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
			Avg.	Max.						
-- 0 --			CLAY	M. SAND forams				As above		
-- 10 --		5GY 6/1			gradational contact			10 Major 100% greenish gray MUDDY NANNO ooze relatively massive - abundant scatter py grains - py-burrows & sand-filled burrows - forams		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

V1385E

13H4A

471

7/1

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --	5GY b/1	CLAY	MSAND FORAM				As above		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --	5GY 6/1								
-- 100 --									
-- 110 --									
-- 120 --	5GY 7/1						Major 70% 5GY 7/1 Light greenish gray NANNO 008E w MUD typical		Down to 11cm sect. 6
-- 130 --							Minor 30% 5GY 5/1 Greenish gray MUDDY NANNO 008E typical		
-- 140 --							- slight color change due to B.T. - abundant zoophycos - scatter py grains		
-- 150 --	5GY 7/1						- py-burrows		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --							As above	JK	
	5GY 11/1								
-- 10 --									
-- 20 --									
-- 30 --	52 minor 5GY 6/1								
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --	88								
-- 100 --	5GY 7/1								
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by: JK	Date:
		Avg.	Max.						
-- 0 --		CLAY	M. SAND				As above		
-- 10 --	Minor 5GY 6/1								
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --	Major 5GY 7/1								
-- 60 --									
-- 70 --									
-- 80 --	Minor 5GY 6/1								
-- 90 --									
-- 100 --									
-- 110 --	III 5GY 6/1						III Major 100% 5GY 6/1 Greenish grey Muddy NANO COBE		
-- 120 --	Greenish grey						- relatively massive - forams (slightly more abundant) - less zoophycos - py-burrows - abundant py-grains scatter		
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

01385 E

13H7A

474



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

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U 85E

13CC

25 475



Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	grey 6/1	CLAY	M SAND				As above	JK	
-- 10 --									
-- 20 --									
-- 30 --	void								
-- 40 --									
-- 50 --									
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385E-14H-1

Expedition 339: Mediterranean Outflow

U1385E

14H1A.

76

Drilling disturb.	Color	Grain-size		Sed. / struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
0	OLEY 1								
6	5 Gy / 4	fine		margin	BZ = slight		6 cores		
10							Noticed with OLEY 7		
20							10 Gy / 4		
25							Trace of vesicite		
28							28 Py Burrow		
40									
50									
60									
70									
80									
90									
100									
110									
120									
130									
140									
150									

Muddy NANO Ooze

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --	OLEY 1 569/4		mud				Fossils present		
-- 10 --	Disturbed			mud	B2=3		Tuffed with OLEY 1 4/1		
-- 20 --									
26	Undisturbed						Py burrow		
-- 30 --									
-- 40 --									
45									
-- 50 --									
54							Py burrow		
-- 60 --									
-- 70 --									
-- 80 --									
88							Py burrow + Fossils		
-- 90 --									
-- 100 --									
-- 110 --									
119	OLEY 1 109/5		mud	mud	B2=3		Disturbed contact		
-- 120 --									Fossils present
-- 130 --									
-- 140 --									
-- 150 --									

Muddy Non ooze
w/ clay

NO ooze
with clay

Expedition 339: Mediterranean Outflow

U1385E

14H3A

+78

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
	OLEY 10g/5		medium						
-- 0 --									
7									
-- 10 --				marl	B ₂		-4 Py burrow		
-- 20 --					space				
29									
-- 30 --							-29 Py burrow		
-- 40 --							Forams present		
-- 50 --									
	corrected								
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

NOWC

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
- 0 --							Same as above		
- 10 -- 11	OLEY 10y/4						10 Py brown bioturbated contact trotted with 10y/3/1		
- 20 -- 24							24 Py brown MNO bioturbated contact		
- 27 -- 30	OLEY 10y 5/1						→ zoophages Foram present		
- 40 --									
- 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:	Date:
		Avg.	Max.						
-- 0 --							Same as above		
-- 10 --									
15							-15 Py burrow		
-- 20 --									
-- 30 --									
35							-35 Py burrow		
-- 40 --									
-- 50 --							-50 Py burrow		
55							-55 burrow		
-- 60 --									
-- 70 --									
-- 80 --									
87	10y 4/1			micrite			Forams present trotted with COLEY 7 56y 4 17		bioturbated contact
96							-96 Py burrow		
-- 100 --									
102									bio turbated contact
-- 110 --	56y 5/1								
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
		Same	as	above			mottled with 5Gy 4/1		
undist.							Py burrow (10) Forams present		
	6LE 1 10y 5/1	fine		massive	B2-3		Zooflagellates Forams present -27: shell fragments		
							None		
undist.							-51 Py burrow		
									bio tubalace contact
und.	6LE 1 5Gy 5/1	fine		massive	B2-3 I		mottled with 6LEy zooflagellates -nowc 5Gy 4/1		bio tubalace contact
	6LE 1 10y 4/1	fine		massive	B2-3		Zooflagellates Forams present		
							MJO		
							-102 } Py burrow		
							-111 }		
							-132 } Py burrow		
							-135 }		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --								Same as above		
-- 10 --										
-- 20 --										
-- 30 -- 31-								- Py burrow		
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 -- 94-								- 94 Py burrow		
-- 100 --										
-- 110 --										
115-								- 115 green patch		
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

M20

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385E 14H8A

783



core
disturbance
inflow?

Depth	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --								Same as above		
-- 10 -- ? 16								MNO		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Expedition 339: Mediterranean Outflow

U1385E

14HCC

159

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.						
-- 0 --							Same as above		
-- 10 --							MNO		
-- 20 --							Py burr		bioturbated contact
-- 30 --	GLE 51 105 5/1		med	laminar	B2-4 laminar		NOWC		bioturbated contact
-- 40 --	GLE 57 105 4/1			laminar	B2-3		39 Py burr		MNO
-- 50 --							4+ Py burr		
-- 60 --									
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 120 --									
-- 130 --									
-- 140 --									
-- 150 --									

inflow?

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

1385E-15H-1

Expedition 339: Mediterranean Outflow

U1385E 15H 1A

785

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
		Avg.	Max.					NN CS	1/Dec/2011
--0--	GLE1 4/10Y 10Y4,1	Clay	Medium sand (foram)	Massive	BI:3 (Slight)		Major lithology		Dark part (light part)
--10--							<ul style="list-style-type: none"> Color Thickness: Av. Grain size: Clay Max Grain size: Medium sand (foram) Sedimentary structure: Massive BI: 3 (Slight) 80% (← 20% Minor lithology) 		
--20--									
--30--									
--40--									
--50--									
--60--									
--70--									
--80--									
--90--									
--100--									
--110--									
--120--									
--130--	5GY 4 5GY 4/ 5GY 5/ GLE1	Clay	Medium sand (foram)	Massive	BI:3 (Slight) ? BI:4 (Moderate)		Minor lithology (Light part)		
--140--							<ul style="list-style-type: none"> Color: 5GY Thickness: Av. grain size: Clay Max grain size: Medium sand (foram) Sedimentary structure: Massive BI: 3-4 20% (← 80% Major lithology) 		
--150--									

Undisturbed

bioturbated contact

98 Py burrow
100
102 Foram patches

NowC

NowC

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.					NN	1/Dec/2011
-- 0 --								Minor lithology (continued from Sec. 3A)		
-- 10 --										
-- 20 --										
26								Color change contact (bioturbated)		
-- 30 --		GLY 1 (OY 3/1)	Clay	Medium sand (fossil)	Massive	BI:5 (Slight)		Major lithology		
-- 40 --								MNO		
-- 50 --								-49 Py burrow		
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --		Undisturbed								
-- 110 --										
-- 120 --										
-- 130 --								-127 Py burrow		
-- 140 --										
-- 150 --								-145 Fean patches		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by: NN	Date: 1/Dec/2011
		Avg.	Max.						
-- 0 --							Major lithology (continued from 2A)		
-- 10 --							-11 Py burrow		
-- 20 --									
-- 30 --							-31 Py burrow		
-- 40 --									
-- 50 --									
-- 60 --	Undisturbed								
-- 70 --									
-- 80 --							-82 } Foram patches -85 }		
-- 90 --									
-- 100 --									
104							Color change contact (bioturbated)		
-- 110 --		GLP1 Clay LOGR 4/1	Medium sand (brown)	Massive	BI:3		NOWC		
-- 120 --							-118 Foram patch		
-- 130 --	Undisturbed								
-- 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 3A)	NN	1/Dec/2011
-- 10 --									
-- 20 --									
-- 21 --	GLY 10Y 4/1	Clay	Medium sand (for an)	Massive	BS:3		Gradational change		
-- 27 --							Major lithology		
-- 28 --							greenish layer		
-- 30 --							NOUC		
-- 40 --									
-- 50 --									
-- 60 --									
-- 65.5 --							65.5 Foramin patch		
-- 70 --									
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --									
-- 112 --							112 Py Laminar		
-- 120 --									
-- 130 --									
-- 135 --							135 Py Laminar		
-- 140 --									
-- 144 --							144 Greenish layer		
-- 150 --									

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 4A)	NN	1/Dec/2011
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --									
-- 50 --							Gradational contact		
	GLEP1	Clay	Medium sand (Foram)	Massive	BI: 2		Minor lithology		
	(054/1)	(054/1)							
-- 60 --									
							None		
-- 70 --							Gradational contact		
	GLEP1	Clay	Medium sand (Foram)	Massive	BI: 3 (Slight)		Major lithology		
	SGF4/1								
-- 80 --									
							None		
-- 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 --								NN	(1/Dec/61)	
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

Major lithology (continued from 5A)

MNO

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 --									M N	1/Dec/21
-- 10 --								Major lithology (continued from 6/A)		
-- 20 --								MNO		
22.5										
-- 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 --										
-- 10 --								Dark grey fine mud Forams present		
-- 20 --		GLE 2 10Y 4/1								
-- 30 --					Massive					
-- 40 --	ND									
-- 50 --						Slight		MNO		
-- 60 --								Burrow @ 58-59		
-- 70 --										
78								Colour change contact (gradational)		
-- 80 --								Mid-grey fine mud with slight 10Y 4/1 mottle Forams present	NOWC	
-- 90 --		GLE 2 5G 5/1			Massive	Slight				
-- 95 --								Crack @ 92-93 Colour change contact (gradational)		
-- 100 --		GLE 2 10Y 4/1						101 - Dark grey fine mud with strong 10Y 4/1 mottle	2nd lithology	
-- 110 --					Massive	Slight		118 -		
-- 120 --								Mid grey fine mud - bioturbated		
-- 130 --								P Burrow @ 124-125	MNO	
-- 140 --								Forams present		
143								Colour change contact (bioturbated)		
-- 150 --	149	GLE 2 5G 4/1			Massive	Slight		Mid grey fine mud	MNO	
								Colour change contact (gradational)		

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
-- 0 --										
-- 10 --										
-- 20 --	No	GLY/2 10Y4/1			Massive	5/5/44		Mid grey fine mud forams present		
-- 30 --										
-- 40 --										
-- 50 --								50/50 MNO # NOWC		
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --										
-- 150 --										

- Burrow @ 82

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 --							Colour change contact (bioturbated)		
-- 13 --									
-- 20 --	GLEI 7 SG 1 5/1			Massive	Slight		Light grey fine clay Forams present		
-- 30 --							NOWC		
-- 40 --							- P Burrow @ 43		
-- 50 --									
-- 60 --									
-- 70 --				Massive	Slight		73 2nd Lith Sand size (forams?) concentration (carbonate?)		
-- 87 --							87 Colour change contact (gradational)		
-- 90 --	GLEI 104 4/1			Massive	Slight		Grey fine mud. forams present		
-- 100 --							50/50 MNO & NOWC		
-- 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		
-- 10 --									
-- 20 --									
-- 30 --									
-- 40 --							-43- Band of mottled clay 2nd Lith strong GLEY 5G4/1 -47-		
-- 50 --									
-- 60 --									
-- 70 --							-72- GLEY 2nd 5G4/1 -73-		
-- 80 --									
-- 90 --									
-- 100 --									
-- 110 --							-106- } 2nd. } GLEY -111- } 5G4/1		
-- 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 --								40 ↑ 2nd. ↓ GLEY 46 ↓ 5G4/1		
-- 50 --										
-- 60 --										
-- 70 --										
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
-- 120 --										
-- 130 --										
-- 140 --								144 ↑ GLEY 2nd. ↓ 5G4/1 148 ↓		
-- 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 --		CLAY? SGYS 1			Massive Slight			Colour change contact (bioturbated) Mid grey bioturbated clay forams present		
-- 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 --		AS ABOVE								
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --								END OF SECTION.		
-- 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						AS ABOVE		
-- 10 --										
-- 20 --										
-- 30 --										
-- 40 --								END CORE CATCHER @ 41.		
-- 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--										
--10--	abrupt flow		mucl							
15										
--20--		OLEY1 10y/4						Zoopling com Foram present		
--30--								MNO		
--40--					marine					
--50--						BY-4 Lucanate				
54								bioturbated contact		
--60--		OLEY1 10y/5	mucl		marine			Zoopling com Foram present		
--70--						BY-3 slight				
79								79 crack		
--80--										
--90--								contact with OLEY 10y/4		
--100--	Under test bed									
--110--									NOWC	
105								105 crack		
--120--										
122								122 crack		
--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--	und.							same as above		
8										
--10--		grey 50y/4	Mud							
--20--					mainly	BZ=3 susie				
21									-21: crack	
22										
--30--										
34	und.									
34								-34 Py burrow MNO		
--40--										
43										
--50--										
54										
--60--										
67										
--70--										
--80--										
87										
--90--										
--100--										
104										
--110--										
--120--										
126										
--130--		grey 10y/4	Mud		mainly	BZ=2				
--140--										
143										
--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-- 3										
--10-- 15	Und.							Same as above 3: Py burrow 15: Py burrow		
--18-- 20										bioirradiated contact
--20-- 32		OLEY1 10G4/4	mud					mottled with OLEY1 10G4/4 Forams present 32: Py burrow 36 crack		
--30-- 32	Und.				massive					
--36-- 40						BJ=4 moderate				
--40-- 47										bioirradiated contact
--50-- 60		OLEY1 10G4/4	mud					Forams present 61: crack		
--60-- 74	Und.				massive					
--74-- 80		OLEY1 10G4/4	mud					mottled with OLEY1 10G4/4 Forams present		
--80-- 87	Und.					BJ=4				bioirradiated contact
--90-- 93	Und.		mud			BY=3		Py burrow(s)		
--93-- 97										idem
--97-- 100	Und.	OLEY1 10G4/4	mud					mottled with OLEY1 10G4/4 105: Py Burrow Forams present		
--100-- 105						BJ=4				
--110-- 111		OLEY7	mud					111: Py burrow		idem
--111-- 115		10G4/4						115 crack		
--115-- 120	Und.				massive			Zoophycum Forams present		
--120-- 130						BJ=3				
--130-- 147								147 crack		
--147-- 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 --								Same as above		
-- 20 --								-10: Py burrows		
-- 30 --										
38								-30: Py burrows		
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --								-70: Py burrows		
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --								-101: Py burrows		
101										
114										
-- 120 --		OLEY7 10y/5								
129										
-- 130 --								-129 Py burrows		
-- 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 --								Same as above		
-- 10 --								Forams present Zoophycus		
-- 20 --										
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --	und.									
-- 70 --										
73								73: Py band		
-- 80 --										
-- 90 --										
-- 100 --										
-- 110 --										
115								color contact		
-- 120 --		grey 20y/4	mud					120: Py band		
-- 130 --	und.			mainly		BZ-3 siltst				
-- 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 --										
										Same as above
-- 10 --										
17										17 Py bones
-- 20 --										
26										26 Py bones
-- 30 --										
-- 40 --										
-- 50 --										
-- 60 --										
-- 70 --	und.									
-- 80 --										
-- 90 --										
93	und.	OLEY 1 10y/4 mud			massive	B74 mudstone				color contact riddled with OLEY, 5y/4
-- 100 --										
120		OLEY 1 10y/4 mud			massive	B73 siltst				color contact Fossils present
-- 110 --										
-- 120 --	und.									120: Py bones
124										
-- 130 --										
-- 140 --										
-- 150 --										

MAJOR LITHOLOGY:

MINOR LITHOLOGY:

V 385 E 17 E CC-A

Expedition 339: Mediterranean Outflow

	Drilling disturb.	Color	Grain-size		Sed. struct. / contact	Bioturb.	Samples	Comments	Logged by:	Date:
			Avg.	Max.						
--0--										
3								Same as above 3 Py bands		
--10--										
11								11 Py bands		
14								14 Py bands		
16								16 Py bands		
--20--										
20										
--30--										
--40--										
--50--										
--60--										
--70--										
--80--										
--90--										
--100--										
--110--										
--120--										
--130--										
--140--										
--150--										

MAJOR LITHOLOGY:

MINOR LITHOLOGY: