



MD04-139 ASSEMBLAGE 1

Description of Core MD04-2752

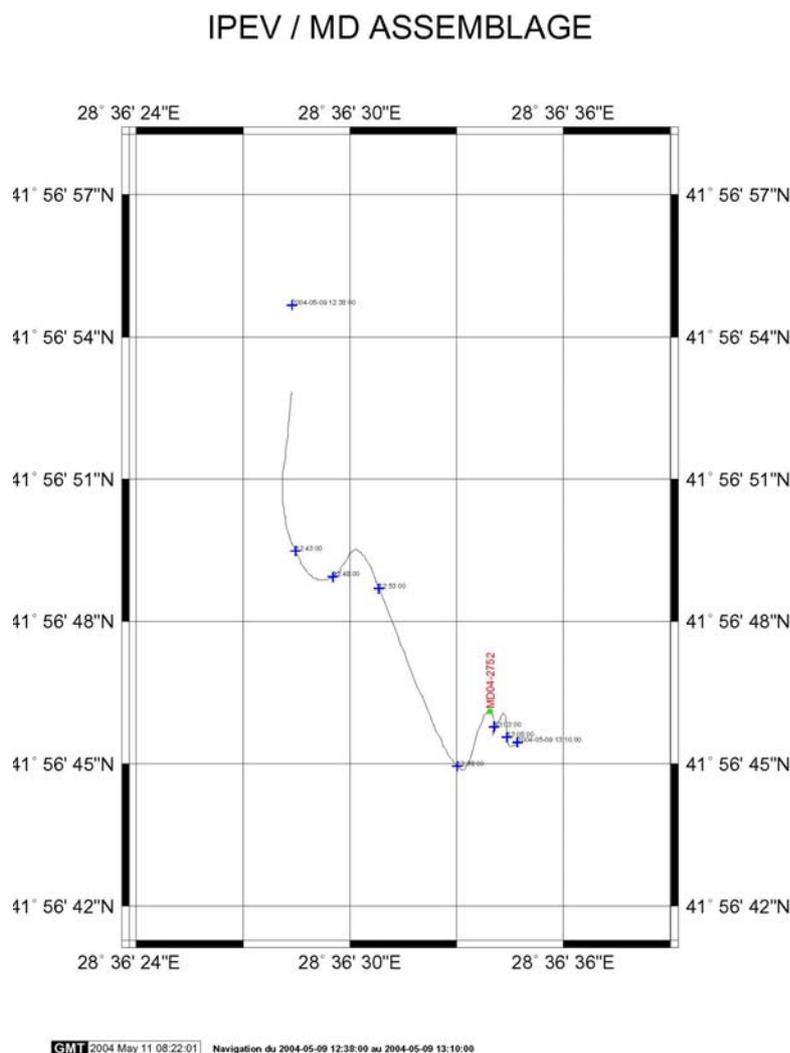


7.1. DESCRIPTION OF CORE MD04-2752

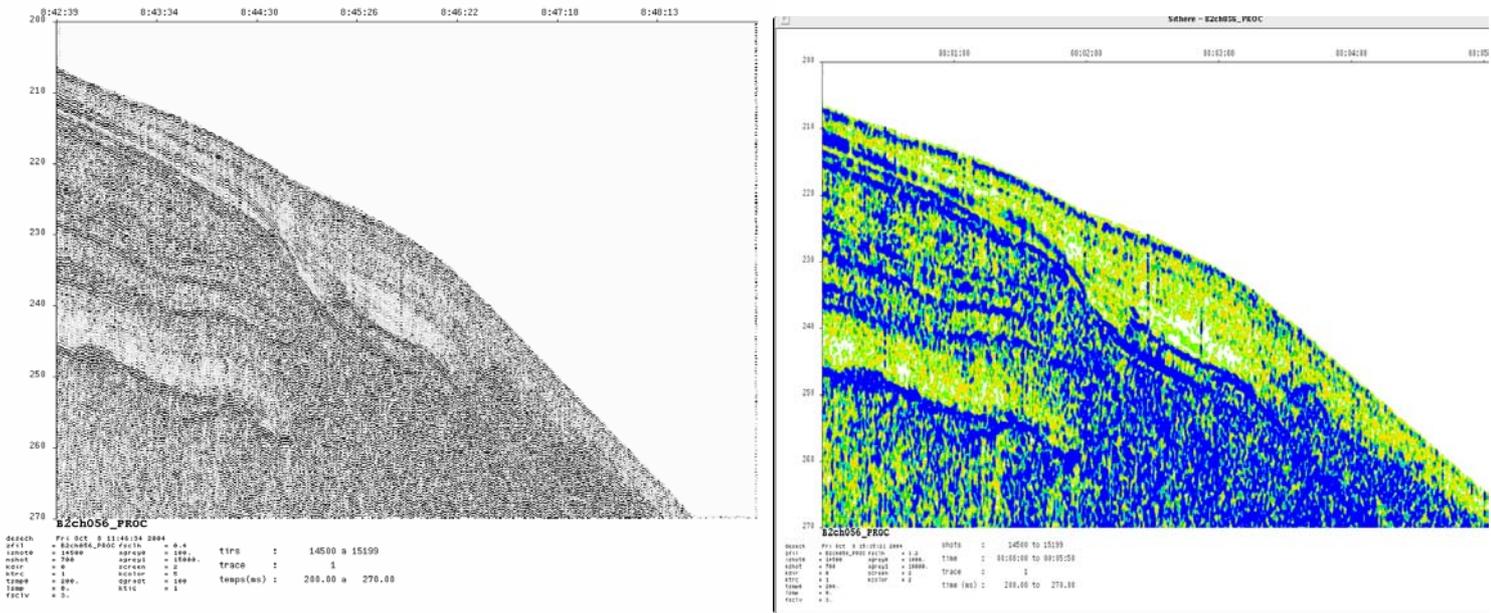
7.1.1. Site presentation

The target has been chosen on the base of the seismic interpretation of the Ifremer Chirp sonar system hull mounted on "Le Suroit". Core MD04-2752 was recovered at a water depth of c.a. 200m, on a transect profile (B2chp56) shot during BlaSON2 survey in 2002. The core has been recovered on the same seismic line than MD04-2754 (water depth 450 m) and MD04-2753 (water depth 90 m).. The target is located on the shelf slope in the western part of the Black Sea at the border between Turkey and Bulgaria. It has been chosen for its sediment sequence interpreted as a prograding wedge on the slope. This core will provide information on the date of the sediment deposit on the shelf edge, the seismic sequence is interpreted now as one of the last lowstand wedge.

7.1.2. Location map

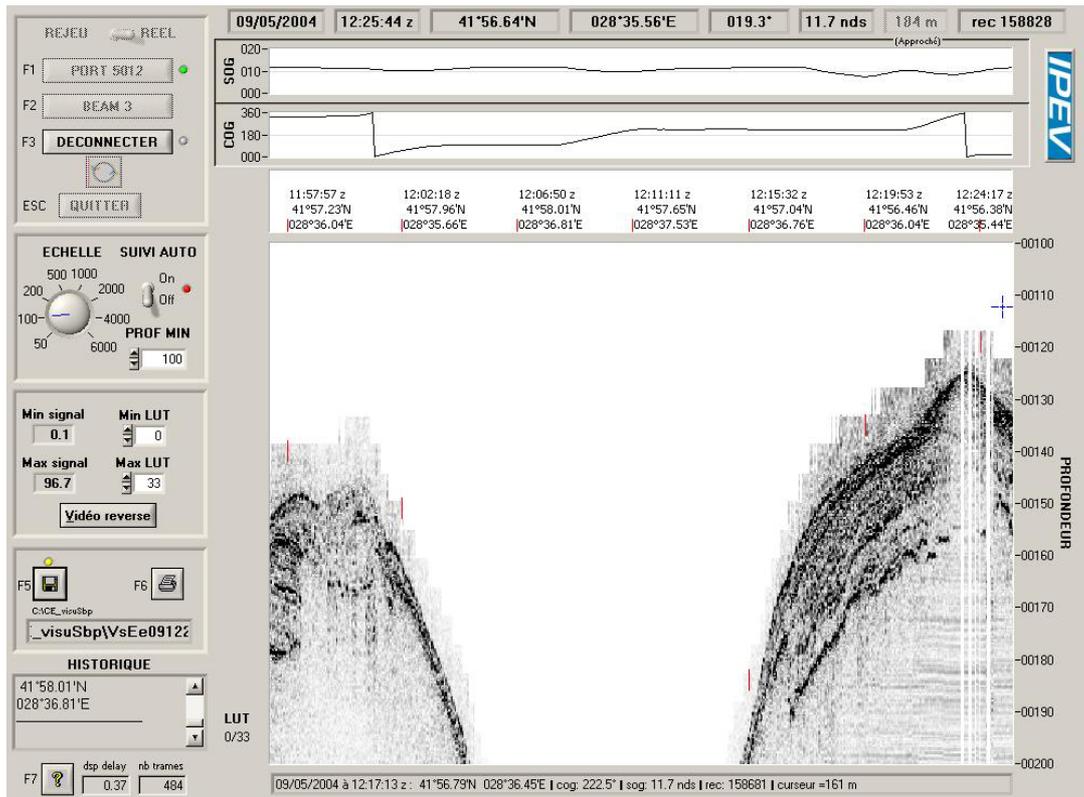


7.1.3. MD04-2752 precise Site Survey



Profile B2ch56 acquired during BlaSON2

7.1.3.1. MD04-2752 Site Survey



7.1.4. MD04-2752 Coring Form

INSTITUT PAUL EMILE VICTOR

MARION DUFRESNE

NOM DE LA CAMPAGNE
MD 139 ASSEMBLAGE

Date : **09-05-2004**
N° de station **ASSMD34**

Météo : (force) / Direction
Vent :
Mer :
Variation tension (maxi) :

CAROTTE (N°) :
MD 04-2752
(MD - année - milles - centaines)

CAROTTE (longueur) :
24,50 m

POSITION :
Latitude : **41°56,76'**
Longitude : **28°36,56'**

CAROTTIER (type) ⁽¹⁾ : **CALYPSO II**
Poids total (air) : **Lest = 4,3** t
Poids total (eau) : **3,9** t

REGLAGES :
Tubes (longueur) : **24,90 m**
Câbles :
Chute libre : **29,60 m**
Boucle : **1,60 m**
LC poids : **29,60 m**

CONTREPOIDS :
Type (2) :
Longueur PVC : m
Pénétration : m
Longueur de carotte : m

PARAMETRES MESURES :
Sonde corrigée : **169** m
Ligne filée : **144,8** m
Arrachement/total (tonne) : t
Arrachement/différentiel (tonne) : **5,5** t
Pénétration/apparente (m) : m
Pénétration/tensiomètre (m) : m

HEURES (GMT)
En station : **12h41**
Début manœuvre : **12h51**
Déclenchement : **13h01'45"**
Fin de manœuvre : **13h27'11"**
Durée de manœuvre :
Départ station : **13h27**

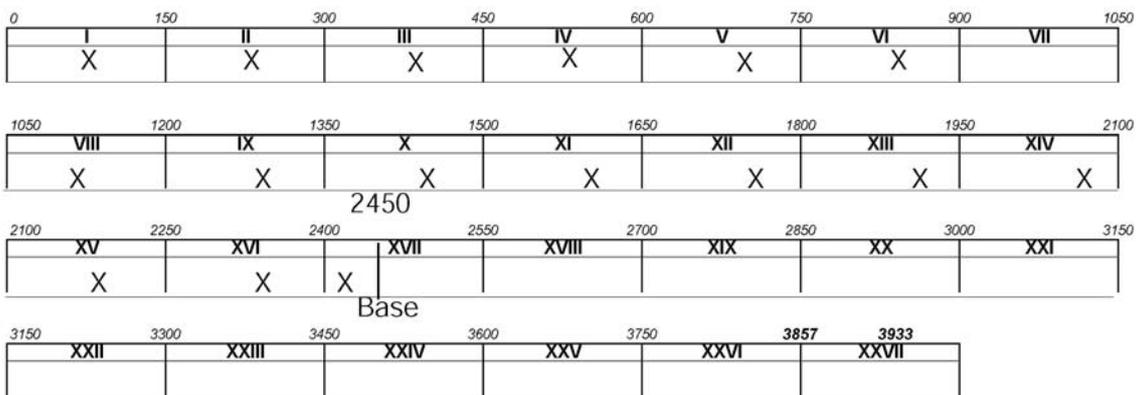
INSTRUMENTATION OPERATIONS ANNEXES
Pinger :
Flux de chaleur :
CTD (hydro) :
CTD (bouteilles) :
Filet à plancton :
Autres : /

Description / incidents :

Tension de 15 tonnes au moment du déclenchement

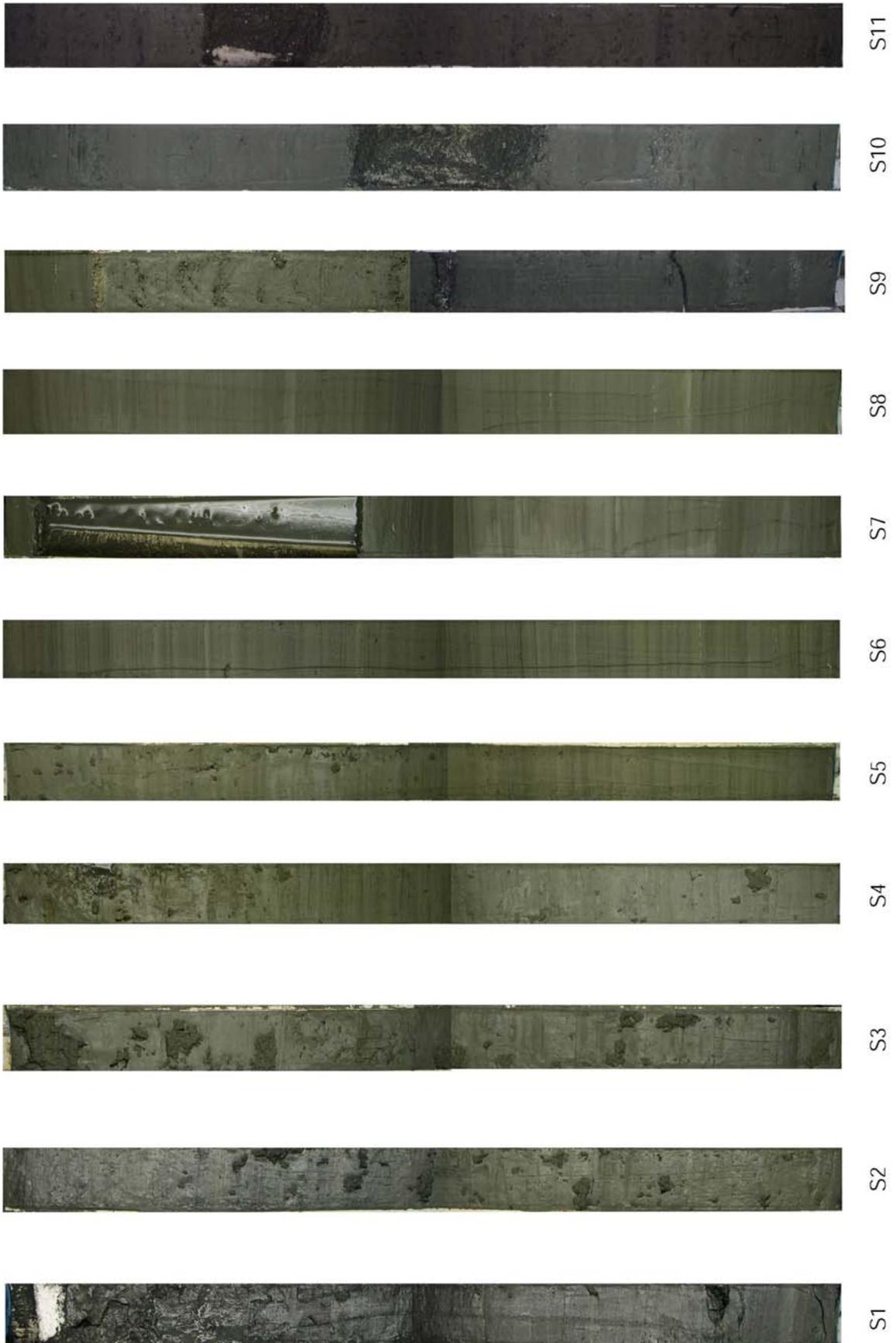
OGIVE Milieu partie basse (Nano + Foram) --> pas assez sédiments pour Général

OGIVE Milieu partie haute (General + Nano + Foram)



7.1.5. MD04-2752 Photography table

MD04-2752 : Sections 1 à 11



MD04-2752 : Sections 12 à 17



S17



S16



S15



S14



S13



S12

7.1.6. MD04-2752 Log Description

Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: I /XVII	Lenght top/bottom(cm): 0-150
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Author : I.Genov

Sample	Lithology	Mud						Sand						Fossils	Bioturbation	Detailed description
		C	CS	S	S	vf	f	m	e	vf	f	m	e			
0																
10																10-44 : mutually mottled grey to green greyspots and intrecolation of clay (very soft)
20																
30																
40																
44																44 : black grey to black seel (3 mm)
50																50-75 : lamination dark grey arid greenish gray clay soft.
60																
70																
75																75-140 : lamination and microlamination of grey and greenish gray and in lower part olive grey clay, soft
80																
90																
100																
110																
120																
130																
140																140-150 : olive grey soft clay with dark grey clay intercolations
150																

Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: II/XVII	Lenght top/bottom(cm): 150-300
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Author : I.Genov

Sample	Lithology	Mud							Sand			Fossils	Bioturbation	Detailed description
		C	CS	S	vf	f	m	e						
0														0-30 : alternation of dark grey and light gray clay
10														30-85 : gas structures
20														85-115 : light grey clay with myctolamination of gray clay, soft, gas structures
30														112 : fragments of plants
40														114-115 : dispersed fine white organic fragments in the clay matrix
50														116-150 : greenish grey soft clay with gas structures
60														
70														
80														
90														
100														
110														
120														
130														
140														
150														

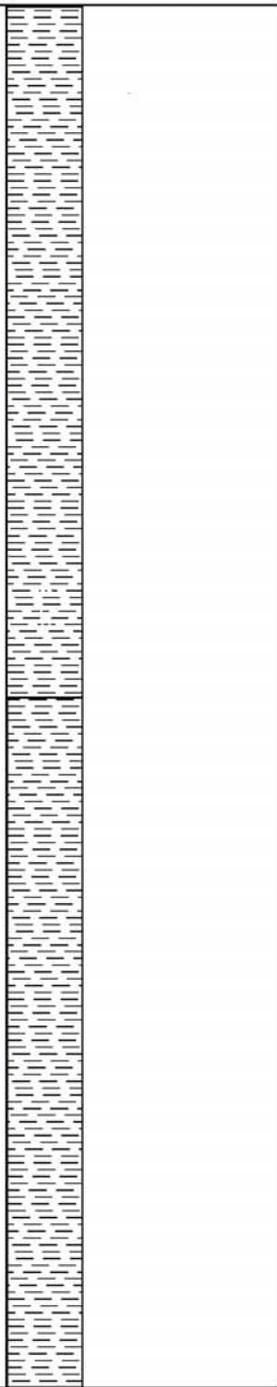


Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: III/XVII	Lenght top/bottom(cm): 300-450
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Author : I.Genov

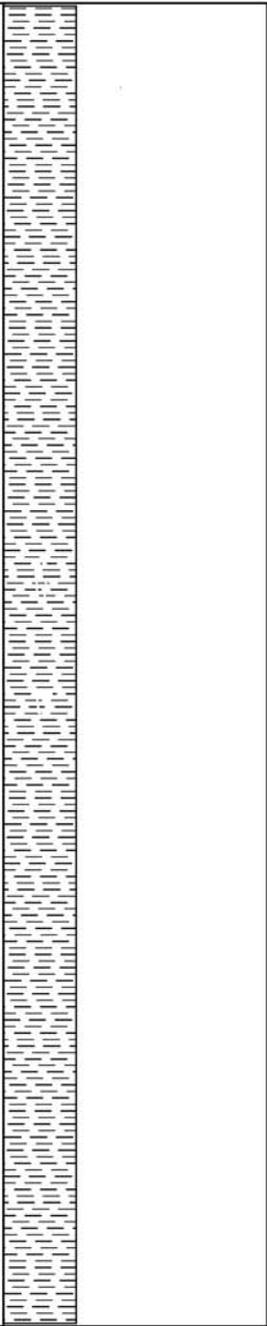
Sample	Lithology	Mud						Sand				Fossils	Bioturbation	Detailed description				
		C	CS	S	S	vf	f	m	e									
0																		<p>Greenish grey clay, soft to more dense to the bottom part with gas structures</p> <p>120 : olive grey intercalation</p> <p>139-141 : olive grey intercalation</p>
10																		
20																		
30																		
40																		
50																		
60																		
70																		
80																		
90																		
100																		
110																		
120																		
130																		
140																		
150																		

Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections:IV/XVII	Lenght top/bottom(cm): 0-150
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Author : I.Genov

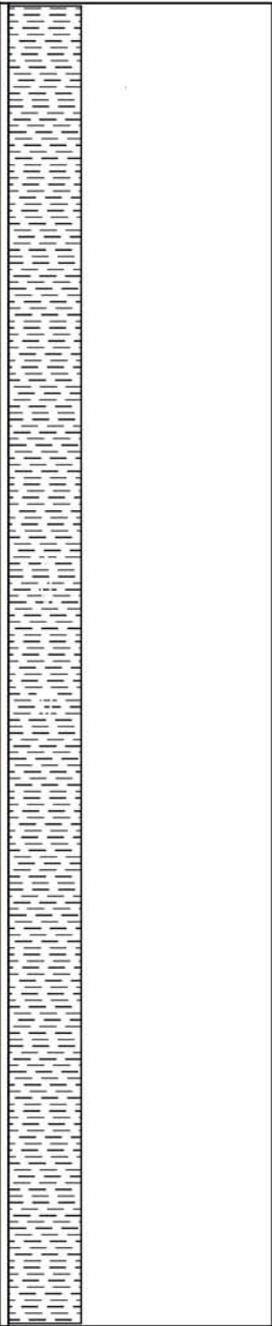
Sample	Lithology	Mud						Sand						Fossils	Bioturbation	Detailed description
		C	CS	S	vf	f	m	c	vf	f	m	c				
0																<p>Greenish grey clay, from dense to medium stiff clay in the bottom part, with fine intercalation of grey clay.</p> <p>42 : organic white fragments (2 mm)</p> <p>gas structures</p>
10																
20																
30																
40																
50																
60																
70																
80																
90																
100																
110																
120																
130																
140																
150																

Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: V/XVII	Lenght top/bottom(cm): 600-750
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Author : I.Genov

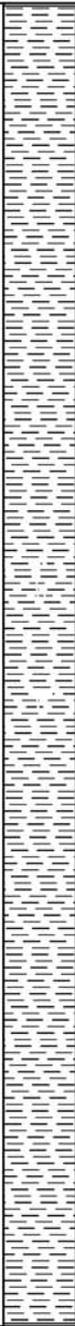
Sample	Lithology	Mud						Sand						Fossils	Bioturbation	Detailed description
		C	CS	S	vf	f	m	c	vf	f	m	c				
0																<p>Medium stiff to stiff greenish grey clay with grey intercalations, with rare fine white organic fragments.</p> <p>gas structures</p> <p>80-150 : without gas structures</p>
10																
20																
30																
40																
50																
60																
70																
80																
90																
100																
110																
120																
130																
140																
150																

Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: VI/XVII	Lenght top/bottom(cm): 750-900
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Author : F. Lemy

Sample	Lithology	Mud							Sand	Fossils	Bioturbation	Detailed description																																							
		C	CS	S	vf	f	m	c																																											
0												<p>Olive grey to greenish gray, medium stiff clay</p> <p>mm to cm scale color bending a few dark (black) layers troughout isolated shell fragments (10-15 cm)</p> <p>mm-thicker shell fragment layers at 58, 63,123 and 148 cm</p>																																							
10																																																			
20																																																			
30																																																			
40																																																			
50																																																			
60																																																			
70																																																			
80																																																			
90																																																			
100																																																			
110																																																			
120																																																			
130																																																			
140																																																			
150																																																			

Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections:VII/XVII	Lenght top/bottom(cm):900-1050
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Author : F. Lemy

Sample	Lithology	Mud						Sand						Fossils	Bioturbation	Detailed description
		C	CS	S	S	vf	f	m	c	vf	f	m	c			
0																<p>Primarily olive grey medium stiff clay</p> <p>5-62 : core gap</p> <p>base of gap : shell hash layer mm-cm scale color bending white shell fragments at 69 cm and 72 cm</p> <p>92 : fine grained layers</p>
10																
20																
30																
40																
50																
60																
65																
70																
75																
80																
90																
100																
110																
120																
130																
140																
150																

Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: VIII/XVII	Lenght top/bottom(cm): 1050-1200
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Author : F. Lemy

Sample	Lithology	Mud			Sand			Fossils	Bioturbation	Detailed description	
		C	CS	S	vf	f	m				c
0										Olive grey medium stiff clay mm-cm color bending	
10											
20											
30											
40											
50											Fine shell fragments throughout larger fragments at 55, 99 and 116 cm.
60									C _C		
70											
80											
90											
100											
110											
120											
122											122 : sandy silt layer (turbidite)
130											
140											
150											

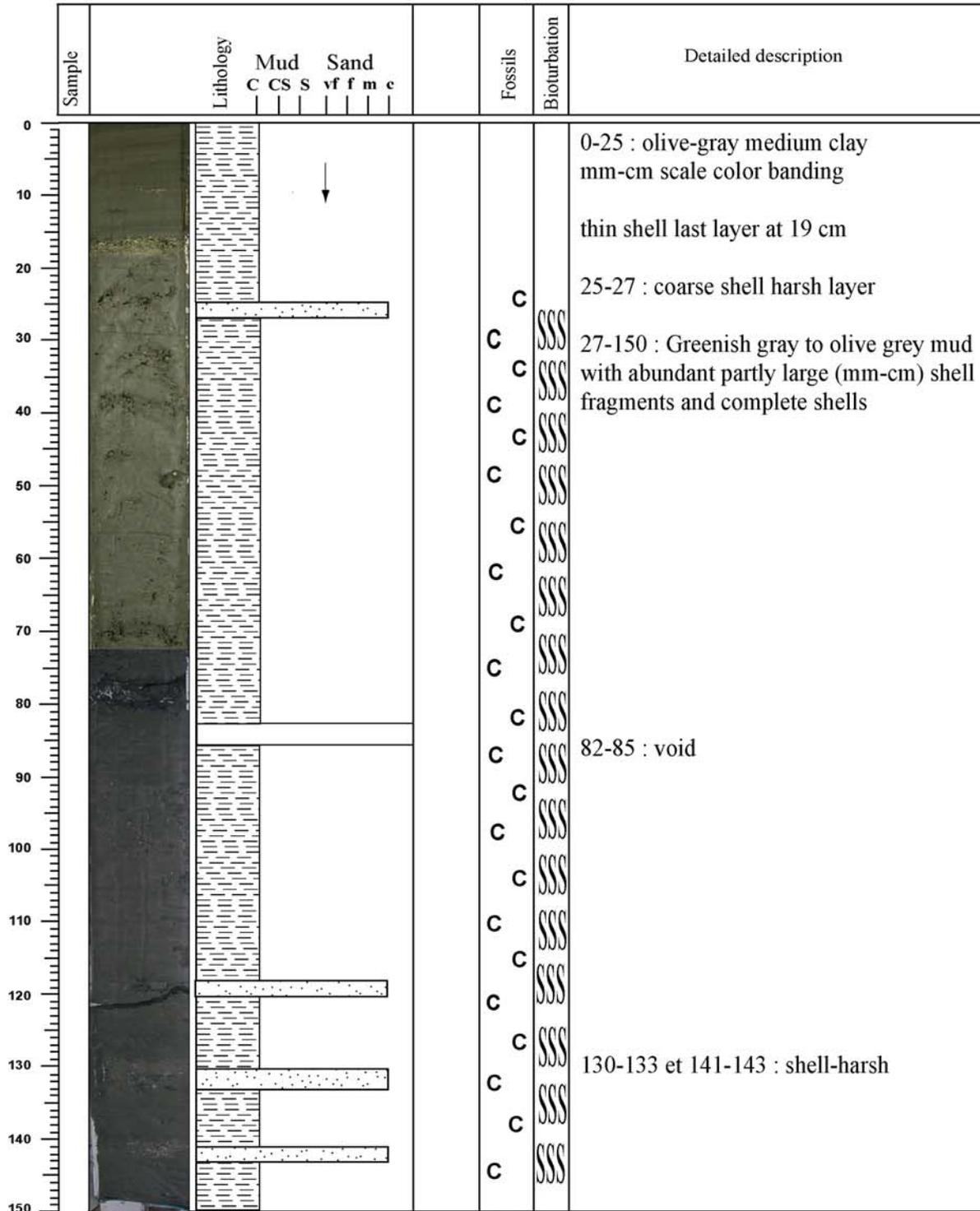


Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: IX/XVII	Lenght top/bottom(cm):1200-1350
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Author : F. Lemy

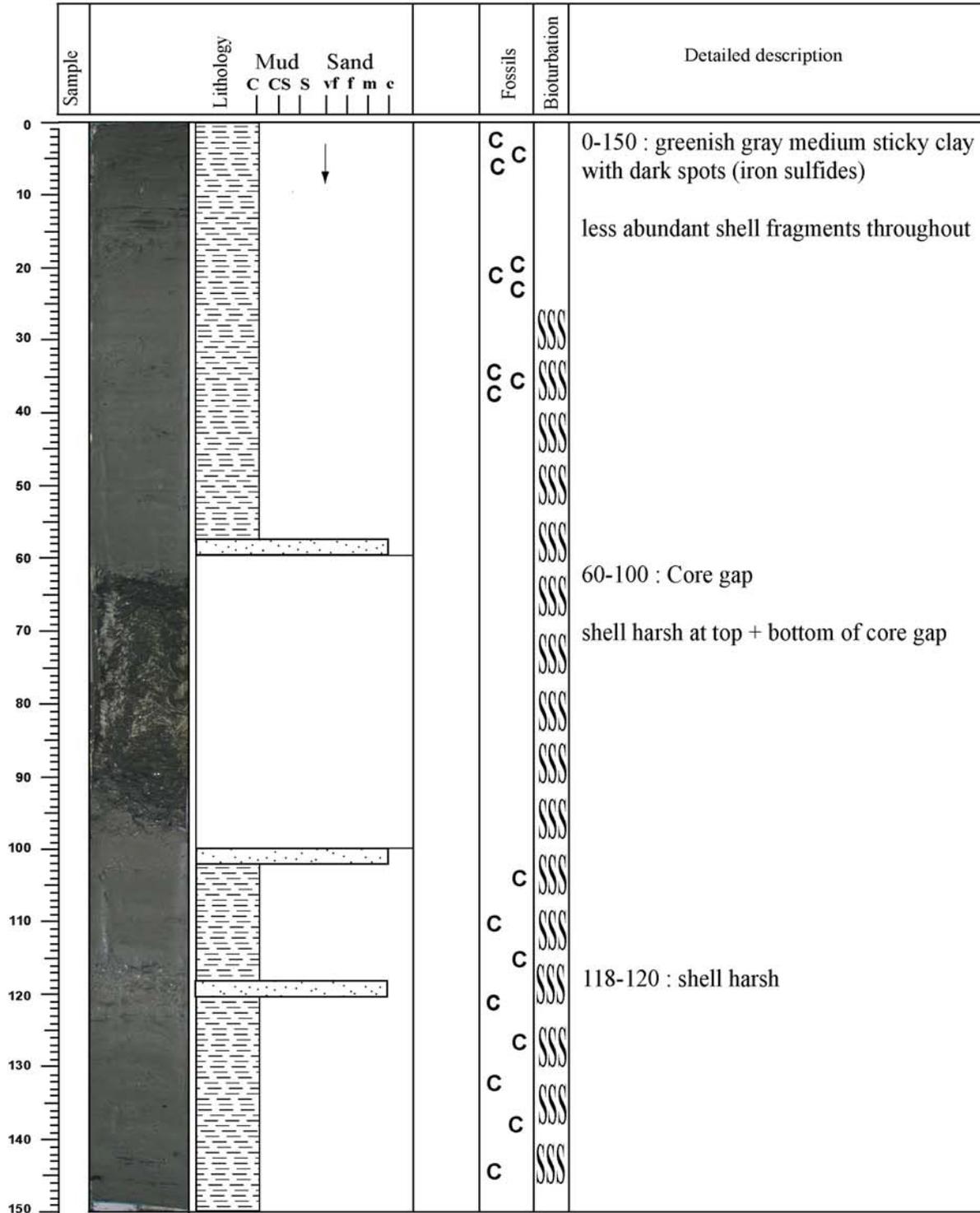


Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: X/XVII	Lenght top/bottom(cm):1350-1500
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Author : F. Lemy



Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: XI/XVII	Lenght top/bottom(cm): 1500-1650
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Author : F. Lemy

Sample	Lithology	Mud						Sand						Fossils	Bioturbation	Detailed description
		C	CS	S	S	S	S	vf	f	m	c	vf	f			
0														C	SSS	0-150 : greenish medium sticky clay with shell fragment throughout, partly complete shells preserved more dark spots (iron sulfides) 40-60 : Core gap
10		C	SSS													
20		C	SSS													
30		C	SSS													
40		C	SSS													
50		C	SSS													
60		C	SSS													
70		C	SSS													
80		C	SSS													
90		C	SSS													
100		C	SSS													
110		C	SSS													
120		C	SSS													
130		C	SSS													
140		C	SSS													
150	C	SSS														



Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: XII/XVII	Length top/bottom(cm): 1650-1800
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Author : F. Lemy

Sample	Lithology	Mud							Sand	Fossils	Bioturbation	Detailed description
		C	CS	S	vf	f	m	c				
0										C	SSS	medium sticky greenish grey clay with shell fragments less abundant, than segment above.
10										C	SSS	
20										C		occasional dark spots (iron sulfides) throughout the section
30										C	SSS	
40										C	SSS	
50										C	SSS	
60										C	SSS	
70										C	SSS	
78-88												78-88: Core gap
80										C	SSS	Coarse shell harsh layer at core break
90										C	SSS	
100										C	SSS	
110										C	SSS	
120										C	SSS	
130										C	SSS	
140								C	SSS			
150								C	SSS			



Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: XIII/XVII	Length top/bottom(cm): 1800-1950
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Author : F. Lemy

Sample	Lithology	Mud						Sand						Fossils	Bioturbation	Detailed description
		C	CS	S	vf	f	m	c	vf	f	m	c				
0													C	SSS	0-10 : shell harsh	
10													C	SSS	10-150 : medium sticky greenish grey clay with shell fragments and occasional complete shells throughout some black spots of iron sulfide concentrations.	
20													C	SSS		
30													C	SSS	occasional dark spots (iron sulfides) throughout the section	
40													C	SSS		
50													C	SSS		
60													C	SSS		
70													C	SSS		
80													C	SSS		
90													C	SSS		
100													C	SSS		
110													C	SSS		
120													C	SSS		
130													C	SSS		
140													C	SSS		
150													C	SSS	140-141 : shell harsh	



Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: XIV/XVII	Length top/bottom(cm): 1950-2100
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Author : F. Lemy

Sample	Lithology	Mud						Sand						Fossils	Bioturbation	Detailed description
		C	CS	S	S	vf	f	m	c	vf	f	m	c			
0														C	SSS	0-150 : medium sticky greenish clay with abundant shell fragments and complete shells throughout occasional iron sulfide concretions.
10		C	SSS													
20		C	SSS													
30		C	SSS													
40		C	SSS													
50		C	SSS													
60		C	SSS													
70		C	SSS													
80		C	SSS													
90		C	SSS													
100		C	SSS													
110		C	SSS													
120		C	SSS													
130		C	SSS													
140		C	SSS													
150		C	SSS													



Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: XV/XVII	Lenght top/bottom(cm): 2100-2250
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Author : F. Lemy

Sample	Lithology	Mud						Sand						Fossils	Bioturbation	Detailed description
		C	CS	S	S	vf	f	m	c	vf	f	m	c			
0														C	SSS	0-150 : medium sticky greenish clay with abundant shell fragments and complete shells throughout occasional iron sulfide concretions.
10														C	SSS	
20														C	SSS	
30														C	SSS	
40														C	SSS	
50														C	SSS	
60														C	SSS	
70														C	SSS	
80														C	SSS	
90														C	SSS	
100														C	SSS	
110														C	SSS	
120														C	SSS	
130														C	SSS	
140														C	SSS	
150	C	SSS														
72-112													C	SSS	72-112 : shell harsh between two core gaps	



Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: XVI/XVII	Length top/bottom(cm): 2250-2400
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Author : F. Lemy

Sample	Lithology	Mud							Sand							Fossils	Bioturbation	Detailed description
		C	CS	S	vf	f	m	c	vf	f	m	c						
0																C	SSS	0-150 : medium sticky greenish clay with abundant shell fragments and complete shells throughout occasional iron sulfide concretions.
10		C	SSS															
20		C	SSS															
30		C	SSS															
40		C	SSS															
50		C	SSS															
60		C	SSS															
70		C	SSS															
80		C	SSS															
90		C	SSS															
100		C	SSS															
110		C	SSS															
120		C	SSS															
130		C	SSS															
140		C	SSS															
150	C	SSS																



Mission: ASSEMBLAGE



Core : MD04-2752	Depth : 169 m	Sections: XVII/XVII	Length top/bottom(cm): 2400-2450
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Author : Strechie C.

