

# MD04-139 ASSEMBLAGE 1

# **Description of Core MD04-2752**







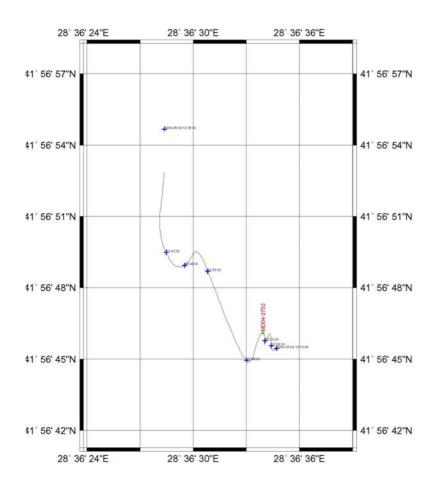
#### 7.1.DESCRIPTION OF CORE MD04-2752

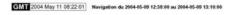
#### 7.1.1. Site presentation

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

#### IPEV / MD ASSEMBLAGE



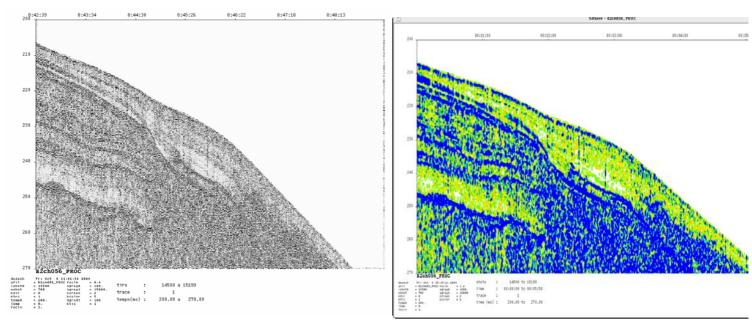






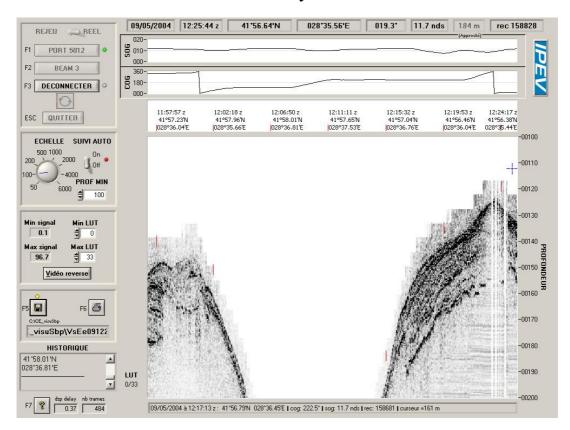


## 7.1.3. MD04-2752 precise Site Survey



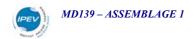
Profile B2ch56 acquired during BlaSON2

#### 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 - miles - centaines)

CAROTTE (longueur):
24,50 m

POSITION:
41°56.76'
Longitude: 28°36,56'



REGLAGES:

Tubes (longueur): 24,90 m

Câbles:
Chute libre: 29,60 m

Boucle: 1,60 m

LC poids: 29,60 m

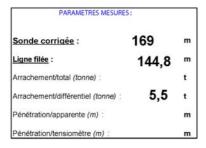
 CONTREPOIDS :

 Type (2) :

 Longueur PVC :
 m

 Pénétration :
 m

 Longueur de carotte
 m



HEURES (GMT)

En station: 12h41

Début manœuvre: 12h51

Déclenchement: 13h01'45"

Fin de manœuvre: 13h27'11"

Durée de manœuvre: Départ station: 13h27

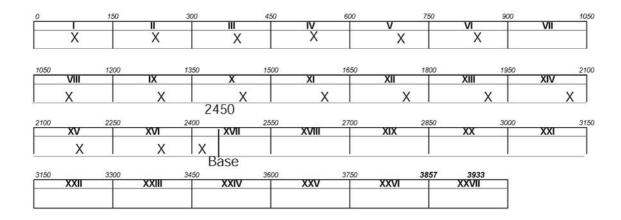
INSTRUMENTATION
OPERATIONS ANNEXES

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)

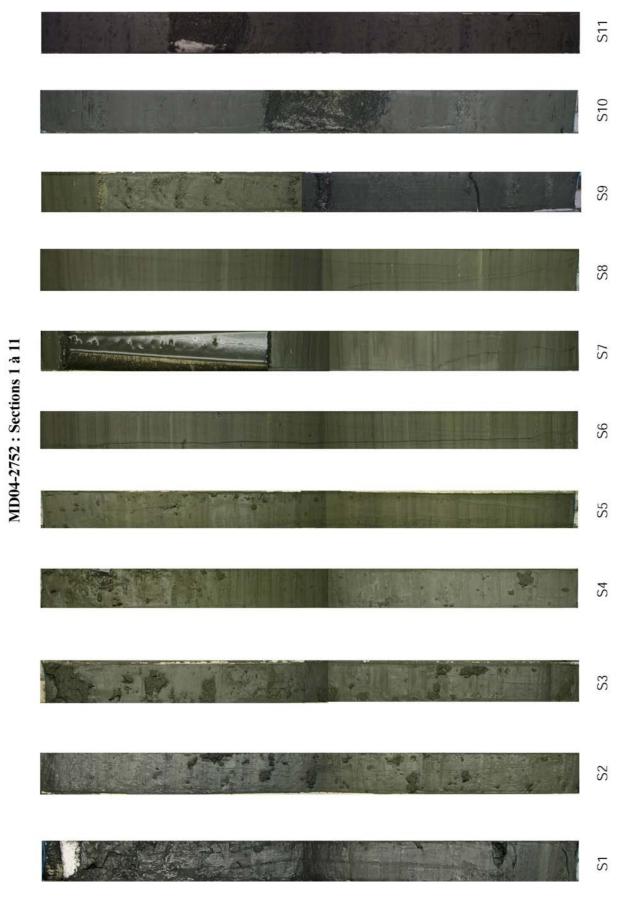








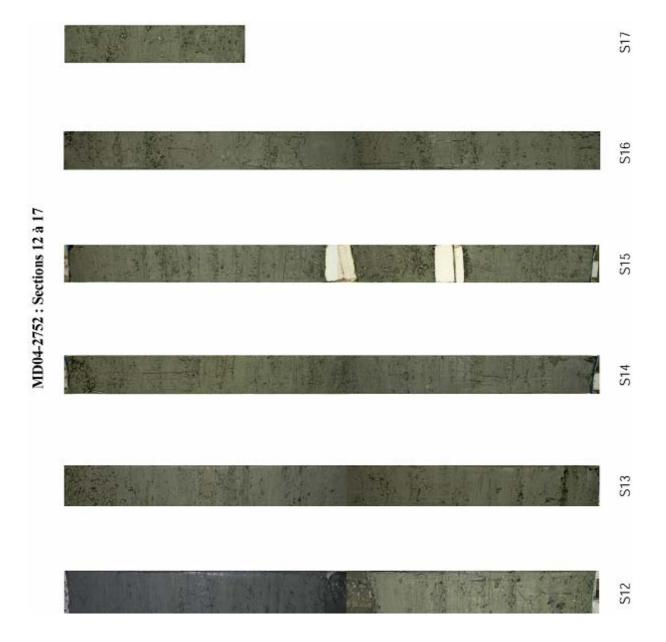
# **7.1.5. MD04-2752 Photography table**

















## 7.1.6. MD04-2752 Log Description

Mission: ASSEMBLAGE



Core: MD04-2752 Depth: 169 m Sections: I /XVII Lenght top/bottom(cm): 0-150 Author: I.Genov Bioturbation Fossils Detailed description Mud Sand C CS S vf f m e 10-44: mutually mottled grey to green greyspots and intrecolattion of clay (very soft) 44 : black grey to black seel (3 mm) 50-75: lamination dark grey arid greenish gray clay soft. 75-140: lamination and microlamination of grey and greenish gray and in lower part olive grey clay, soft 100 110 120 130 140-150 : olive grey soft clay with dark grey clay intercolations









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

					Autho	or: I.G	enov		
	Sample		Lithology	Mud cs s	Sand vf f m c		Fossils	Bioturbation	Detailed description
10				6.					0-30 : alternation of dark grey and light gray clay
40									30-85 : gas structures
70 —		6							85-115 : light grey clay with
90 -		3 14							myctolamination of gray clay, soft, gas structures 112 : fragments of plants
100 —		(a) 1							114-115 : dispersed fine white organic fragments in the clay matrix
=									
130		. ;							116-150 : greenish grey soft clay with gas structures
140									
150			主主		5				









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

		Autho	or: I.Genov		
	Sample	ologic Mud Sand C CS S vf f m c	Fossils	Bioturbation	Detailed description
10				B B	Greenish grey clay, soft to more dense to the bottom part with gas structures  120: olive grey intercalation
140					139-141 : olive grey intercalation









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

	Sample		inthology Mud	Sand vf f m c	Fossils	Bioturbation	Detailed description
	Sa		ا ا ا ت		т	Bie	
0 =		and the	===				Greenish grey clay, from dense to medium
10							stiff clay in the bottom part, with fine intercalation of grey clay.
_ =							
20 -		The same	三三国				
-			333				
30 —		TANK TO SERVICE STATE OF THE PARTY OF THE PA					
		1					
40 —							42 : organic white fragments (2 mm)
=							42 . Organic winte fragments (2 min)
50 —							
_		The same of					gas structures
60 —							gus su uctures
=							
7							
70 —							
4			三三重				
80 =							
1							
90 —							
-		200					
100							
3							
110							
110 —			巨三目				
-							
120		2 21					
-							
130 —			<u>==</u>				
Ē		C					
140							
		The same of	三三目				
150 _			트트目				









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

	Sample	Figure 1	Fossils	Bioturbation	Detailed description
0 10 20 30 40 50 60 70 80 90 100 110 120 120 120 120 120 120 120 12	Sample	Mud Sand C Cs s vf f m c	Fossil	Bioturb	Medium stiff to stiff greenish grey clay with grey intercalations, with rare fine white organic fragments.  gas structures  80-150: without gas structures
130   140   150					









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

			Aumo	or: F.1	Lemy		
	Sample	C cs s	Sand vf f m c		Fossils	Bioturbation	Detailed description
10	4				ပ <sup>ပ</sup> ပ ပ <sup>ပိ</sup> ပ ပ <sup>ပိ</sup> ပ ပ		Olive grey to greenish gray, medium stiff clay  mm to cm scale color bending a few dark (black) layers troughout isolated shell fragments (10-15 cm)  mm-thicker shell fragment layers at 58, 63,123 and 148 cm
150	1						









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

					Autho	or: F. I	Lemy		
	Sample		Lithology	Mud CS S	Sand vf f m c		Fossils	Bioturbation	Detailed description
0 =					1				Primarly olive grey medium stiff clay
20 —		19. 9. 6. C. C.	<u> </u>		*				5-62 : core gap
40		de C. Dui							
-									
60 —									
70 —							ပ္ပပ္ပ		base of gap: shell hash layer mm-cm scale color bending white shell fragments at 69 cm and 72 cm
80 —									
90 —									92 : fine grained layers
100 —			嵳						
110		<b>-</b>							
120			藍						
130									
140									
150									









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

		01 . 1.1			
Sample	Og Mud Sand High C Cs S vf f m e		Fossils	Bioturbation	Detailed description
10 20 30 40 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			СС		Olive grey medium stiff clay mm-cm color bending  Fine shell fragments troughout larger fragments at 55, 99 and 116 cm.
90   1100			c <sub>c</sub>		122 : sandy silt layer (turbidite)









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

				Auth	or: F. l	Lemy		
	Sample		Lithology	fud Sand CSS vffmc		Fossils	Bioturbation	Detailed description
10 — 20 — 30 — 40 — 60 —				e ↓			SSS SSS SSS SSS SSS	0-25 : olive-gray medium clay mm-cm scale color banding thin shell last layer at 19 cm 25-27 : coarse shell harsh layer 27-150 : Greenish gray to olive grey mud with abundant partly large (mm-cm) shell fragments and complete shells
80 —		A				С	SSS	
90 —						C C	SSS SSS	82-85 : void
100						С	SSS	
110						c c	SSS	
120						c c	SSS 666	
130		The second		Ultrack (19		c c	555 SSS	130-133 et 141-143 : shell-harsh
140		10.50		-1		second .	SSS	
150 _			===				Ш	









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

				Autno	or: F. I	Lemy		
	Sample		Tithology Mud c cs s	Sand vf f m c		Fossils	Bioturbation	Detailed description
10				Ļ		CC		0-150 : greenish gray medium sticky clay with dark spots (iron sulfides)
						_		less abundant shell fragments throughout
20 -						СC	000	
30 —						C	555	
40 _						c c	999 999	
50 —							999 200	
		- W-#	酮				999	
60 —							SSS	60-100 : Core gap
70 —							SSS	shell harsh at top + bottom of core gap
80 —							SSS	
90 —							SSS	
							SSS	
100		8 - 1				С	SSS	
110						C	SSS	
120						С	SSS	118-120 : shell harsh
130						С	SSS	
		700				c c	SSS	
140		-					SSS	
150 _			E==1	73.1			Ш	









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

				Autho	or: F. l	Lemy		
(1920)	Sample		Trithology Mud	Sand vf f m c		Fossils	Bioturbation	Detailed description
10						c c	SSS SSS	0-150 : greenish medium sticky clay with shell fragment throughout, partly complete shells preserved
20 —						С		more dark spots (iron sulfides)
30 —							SSS	
40		4				С	SSS	
50 —		1				С	000	40-60 : Core gap
60 —						С	999	
70 —						С	000	
						С	222	
80 —						С	SSS	
90 —						С	SSS	
100						С	000	
110							333	
120		2017					SSS	
130						С	SSS	
140						С	000	
150						С	222	









Core: MD04-2752 | Depth: 169 m | Sections: XII/XVII Lenght top/bottom(cm):1650-1800

			Tuur	01 . 1.1			
	Sample		Mud Sand Office C CS S vf f m c		Fossils	Bioturbation	Detailed description
10 —					c c	SSS	medium sticky greenish grey clay with shell fragments less abundant, than segment above.
20 —					С	*.c. 200.000	occasional dark spots (iron sulfides)
30 _					c c	SSS	throughout the section
40 _					С	SSS	
50 —			=== ==== ==== ===		С	SSS	
60 —					С	SSS	
70 —			र्वज्य स्वास्त्र संस्था	-	С	555	78-88: Core gap
90 —				-	С	333	Coarse shell harsh layer at core break
100 —					c c	SSS	
110 —		N. 2'85 A	1224 1224 1224 1224 1224		С	SSS	
120 -		i di			С	SSS	
130 —		4			c c	SSS	
140 —					c	SSS	
150 _			트트트				









Core: MD04-2752 Depth: 169 m Sections:XIII/XVII Lenght top/bottom(cm):1800-1950

			Author	r : F. I	Lemy		
Sample		Lithology Mud c cs s	Sand vf f m c		Fossils	Bioturbation	Detailed description
• =					С	SSS	0-10 : shell harsh
10					c c	SSS	10-150: medium sticky greenish grey clay with shell fragments and occasionnal complete shells throughout some black spots of iron sulfide concentrations.
30					С	SSS	occasional dark spots (iron sulfides) throughout the section
40 =					С	SSS	
50					С	SSS	
60					С	SSS	
70					С	SSS	
80 =					С	SSS	
90					С	SSS	
100	馬克				С	000	
110	The state of				С	333	
120	*				С	SSS	
130	Vi.				c c	SSS	
140	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		<b></b>		c	SSS	140-141 : shell harsh
150		EEE			-		









Core: MD04-2752 | Depth: 169 m | Sections:XIV/XVII Lenght top/bottom(cm):1950-2100

	Author: F. Lemy								
	Sample		Lithology C CS	d Sand S vf f m c		Fossils	Bioturbation	Detailed description	
0 -							SSS	0-150 : medium sticky greenish clay with abundant shell fragments and complete	
10						c c	SSS	shells throughout occasional iron sulfide concretions.	
20						С	SSS		
30 —						С			
40 _		4 172				С	SSS		
50 —						С	SSS		
60						С	SSS		
70 —						С	SSS		
80 —						С	SSS		
90 —						С	SSS		
100		- Ber				С			
110						С	SSS		
120						С	SSS		
130 —		N N Seneral v				С	SSS		
140 —						С	000		
150		-		73.2		С	222		









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

	Author: F. Lemy								
Openio	Sample		Mud Sand		Fossils	Bioturbation	Detailed description		
10 —					c c	SSS SSS	0-150: medium sticky greenish clay with abundant shell fragments and complete shells throughout occasional iron sulfide concretions.		
20 -					c c	SSS			
40 —					c	SSS			
60 —					c	555 555			
70 — - 80 —					C C	SSS			
90 —					С	SSS	72-112 : shell harsh between two core gaps		
110 -			REEL CONTRACTOR		c c	SSS			
120					c c	SSS			
140 —					С	SSS SSS			
15Œ	1		트로트1			Ш			









Core: MD04-2752 Depth: 169 m Sections:XVI/XVII Lenght top/bottom(cm):2250-2400

			Aumor . r.	Lemy		9
¥17-	Sample	Lithology C cs s	Sand vf f m e	Fossils	Bioturbation	Detailed description
10 —				c c	SSS SSS	0-150: medium sticky greenish clay with abundant shell fragments and complete shells throughout occasional iron sulfide concretions.
30 _				С	SSS	
40 _				С	SSS	
50 — — 60 —				С	SSS SSS	
70 —				c c	SSS	
80 —		<b>養</b>		С	SSS	
100 _				С	SSS	
110 -					SSS	
130 —				С	SSS	
140 —				С	SSS	
150	4 1					









Core: MD04-2752 Depth: 169 m Sections: XVII/XVII Lenght top/bottom(cm): 2400-2450

Author: Strechie C.

		Author: Strechie C.								
	Sample	ologic Mud Sand C Cs s vf f m c		Fossils	Bioturbation	Detailed description				
10 10 10 10 10 10 10 10 10 10 10 10 10 1		C CS S VI I M C  EEEE  EEEE  EEEE  EEEE  EEEE  EEEE  EEEE		C C	SSS SSS	0-50: mottled greenish gray mud with black bands and mollusk shells debris  11-19 and 32-36 the shell debris is more abundant (60-70% from the sediment) dimension of debris: < mm up to 1 cm  43-46: shell debris more abundant (50% from the sediment).				



