

MD04-139 ASSEMBLAGE 1

Description of Core MD04-2754





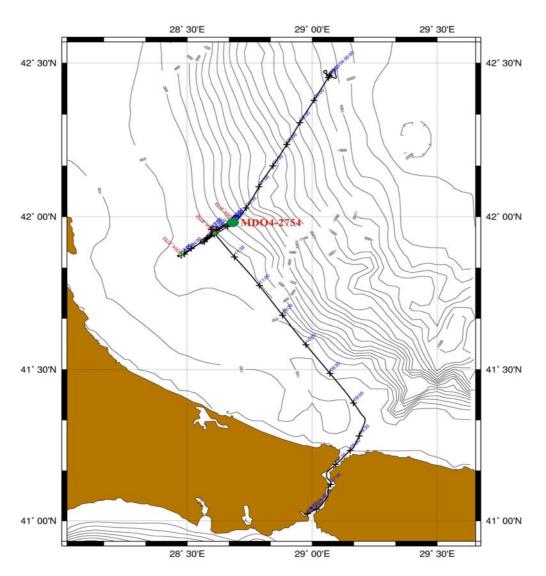


7.3. DESCRIPTION OF CORE MD04-2754

7.3.1. Site presentation

Core MD04-2754 was recovered on a transect profile shot during BlaSON2 survey in 2002. The target has been chosen on the base of the seismic interpretation of the Ifremer Chirp sonar system hull mounted on "Le Suroit". The target is located at the foot of the shelf slope in the western part of the Black Sea at the border between Turkey and Bulgaria. It has been chosen for it important sediment sequence presenting an important succession of seismic layer not deformed or structured by tectonic. This core seems to be a good candidate for paleoenvironmental and paleoclimatic studies.

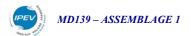
7.3.2. Location map for core MD04-2754



GMT 2004 May 10 03:41:44 IPEV/MD 139_ASSM

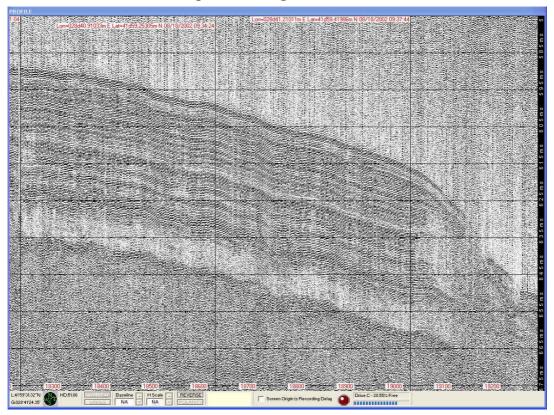




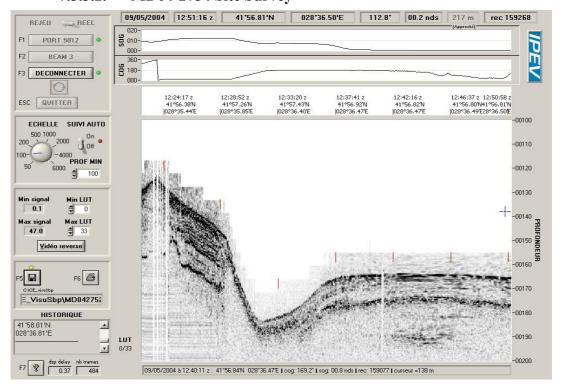


7.3.3. MD04-2754 precise Site Survey

7.3.3.1. Profile acquired during BlaSON2



7.3.3.2. MD04-2754 Site Survey









7.3.3.3. MD04-2754 Coring Form

INSTITUT PAUL EMILE VICTOR

MARION DUFRESNE

NOM DE LA CAMPAGNE MD 139 ASSEMBLAGE

Date : **09-05-2004**N∞ de station **ASSMD33**

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

CAROTTE (N∞) :

MD 04-2754

(MD - année - miles - centaines)

CAROTTE (longueur):
32,17 m

POSITION: 41°59.23N attitude: 28°40.99E

CAROTTIER (type) (1): CALYPSO II

Poids total (air): t

Poids total (eau): 4.5 t

REGLAGES:

Tubes (longueur): 41,9 m

Cables: 1,5 m

Boucle: 1,6 m

LC poids: m

CONTREPOIDS:
Type (2):
Longueur PVC: m

Pénétration: m

Longueur de carotte m

HEURES (GMT)

En station: 18h37

Début manœuvre: 18h49

Déclenchement: 19h02

Fin de manœuvre: 19h50

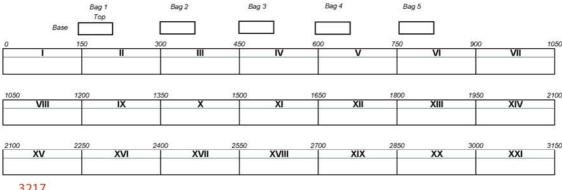
Durée de manœuvre: 1h01

Départ station:

INSTRUMENTATION
OPERATIONS ANNEXES

Pinger:
Flux de chaleur:
CTD (hydro):
CTD (bouteilles):
Filet à plancton:
Autres:

Description / incidents :





(1) CALYPSO - CALYPSO GRAVI/FLUX - BOX CORER 1/4m ou carré géant

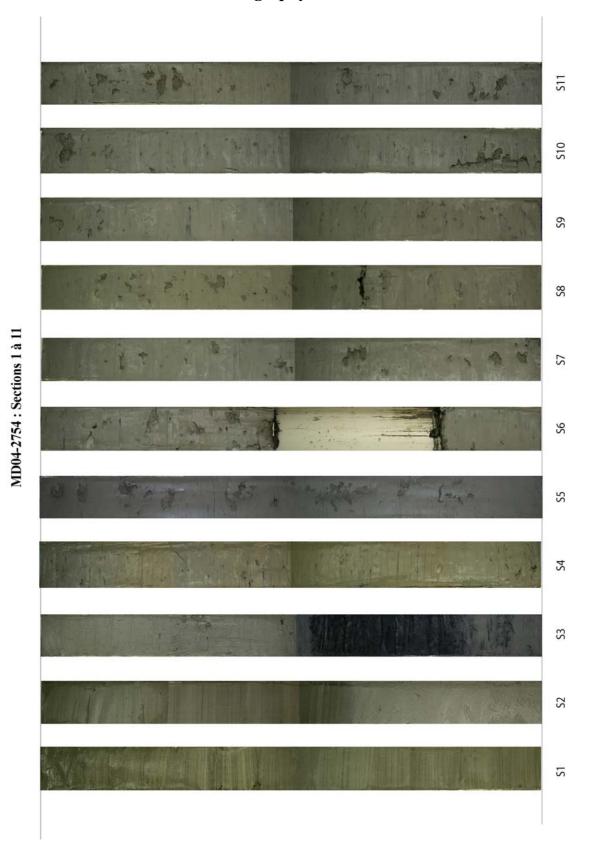
(2) Cylindrique 100 kg / Plat / Préleveur







7.3.4. MD04-2754 Photography table



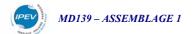






MD04-2754: Sections 12 à 22





7.3.5. MD04-2754 Log description

Mission: ASSEMBLAGE



Core: MD04-2754 Depth: 453 m Sections: I/XXII Lenght top/bottom(cm): 0-150

Author: M.Stotca Bioturbation Fossils Detailed description Mud Sand C CS S vf f m c 0-50 : gray mud with thin white coccolith lamination (<1mm) 50-60: laminated interval with iron sulfides laminae 60-70: gray mud with white laminae of coccolithe 70-94: gray mud with dark thin lamine of iron sulfides 94-98: thin interval with coccolith lamina 98-149: gray mud with thin laminae (<1mm) of iron sulfides







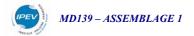


Core: MD04-2754 | Depth: 453 m | Sections: II/XXII | Lenght top/bottom(cm): 150-300

Mud Sand C CS S vf f m c Page 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1100110	 		
iropn sulfides. The distance between laminae is 0.1-1 cm. 72-86: gray mud with few thin white (<1mm) lamine of coccolithe 86-90: dark gray mud transition interval 90-150: gray mud with no visible structure (omogenous interval)		Sample	ologiand of the control of the contr	Fossils	Bioturbation	Detailed description
	30 — 40 — 50 — 60 — 70 — 110 — 120 —					iropn sulfides.The distance between laminae is 0.1-1 cm. 72-86: gray mud with few thin white (<1mm) lamine of coccolithe 86-90: dark gray mud transition interval 90-150: gray mud with no visible









Core: MD04-2754 | Depth: 453 m | Sections: III/XXII Lenght top/bottom(cm): 300-450

				rum)1 . IVI.	Storea	Ε.	
	Sample		Lithology C Cs	Sand S vf f m c		Fossils	Bioturbation	Detailed description
10	<u> </u>						Bi Bi	0-81: gray mud with no visible structures. Few microgastropod shells can be seen on the bottom of this interval 81-126: Dark blackish iron sulfides with gray mud irregular intercalations
150		5					.,	









Core: MD04-2754 | Depth: 453 m | Sections: IV/XXII Lenght top/bottom(cm): 450-600

			7 Xuin	01 . IVI.	Store		
	Sample		Mud Sand CCSS vffmc		Fossils	Bioturbation	Detailed description
0 10 20 30 50 80 90 100			Mud Sand C CS S vf f m e T T T		Fossil	Bioturk	0-150: monotonous interval of polycolor mud (clay) with no visible structures - some dark spots are due to the contamination during the extraction of the core. The colors: 0-25: gray mud 25-41: light brown mud 41-54: gray mud 54-124: dominate light brown mud 124-150: gray mud
110 —							
120 -							
120 -							
140 —		10					









Core: MD04-2754 | Depth: 453 m | Sections: V/XXII | Lenght top/bottom(cm):600-750

		Aum	or . IVI.	Storea	L.	
	Sample	ologic Mud Sand C CS S vf f m c		Fossils	Bioturbation	Detailed description
10						0-150 : gray soft clay with no visible structures

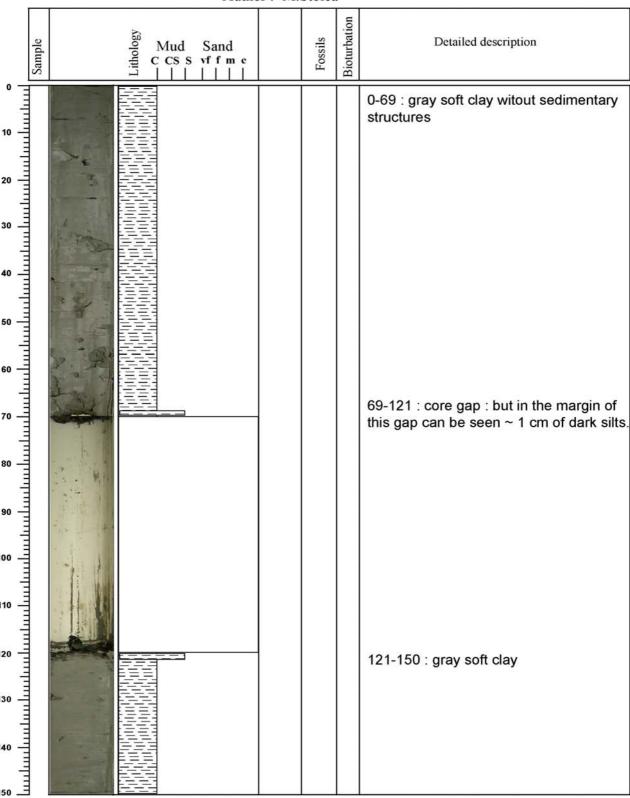








Core: MD04-2754 | Depth: 453 m | Sections: VI/XXII Lenght top/bottom(cm):750-900











Core: MD04-2754 | Depth: 453 m | Sections: VII/XXII | Lenght top/bottom(cm):900-1050

Sample	•	Mud Sand	ı e	Fossils	Bioturbation	Detailed description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 150 150 150 150 150 150 150 150 15						0-150 : gray soft clay with no visible sedimentary structures (maybe some degaseification holes)









Core: MD04-2754 Depth: 453 m Sections: VIII/XXII Lenght top/bottom(cm): 1050-1200

	Sample	oologii Mud Sand	Fossils	Bioturbation	Detailed description
	Sai		Ĕ	Bic	
0 -		鼜			0-150 : gray soft clay with no sedimentary structures
10					0-110 : few degaseification holes
20					Some dark spots of sapropel can be seen diseminated
30 _					
40 _					
50 —					
60					
70					
80 —					
90 —					
100 —					
110 —					
_					
120 —					
140 —					
150 _		至			









Core: MD04-2754 | Depth: 453 m | Sections: IX/XXII | Lenght top/bottom(cm):1200-1350

	_	r e				r		_	
	Sample		Lithology	ad S s s vi	Sand ffmc		Fossils	Bioturbation	Detailed description
10				ad S	Sand ffme		Fossils		0-150 : gray soft clay with few dark spots of iron sulfides. No sedimentary structures noticed.
140									









Core: MD04-2754 | Depth: 453 m | Sections: X/XXII | Lenght top/bottom(cm):1350-1500

	Sample	of Mud Sand C CS S vf f m c	Fossils	Bioturbation	Detailed description
10		E C CS S VI I M C	Fo		0-150 : gray soft clay with thin dark lens and spotsof iron sulfides (1-2mm thickness) Few degaseiification holes are present.
140					









Core: MD04-2754 | Depth: 453 m | Sections: XI/XXII | Lenght top/bottom(cm):1500-1650

	Sample	of Mud Sand C CS S vf f m c	Fossils	Bioturbation	Detailed description
10	1 1				0-150 : gray clay with very thin black lens and spots of sapropel Few degaseiification holes can be seen









Core: MD04-2754 | Depth: 453 m | Sections: XII/XXII | Lenght top/bottom(cm):1650-1800

Mud Sand C CS S vf f m c The state of the s					,		
patches of iron sulfides Scattered shell-fragments bioturbated.		Sample	Mud Sand C CS S vf f m	,	Fossils	Bioturbation	Detailed description
	20						patches of iron sulfides Scattered shell-fragments bioturbated. 96-97: void 125-127: silty olive grey layer









Core: MD04-2754 | Depth: 453 m | Sections:XIII/XXII | Lenght top/bottom(cm):1800-1950

			2 runo	1. 1.1	citiy		
	Sample	Lithology M.C.	ud Sand		Fossils	Bioturbation	Detailed description
0 -						_	
0 - 10 - 110		Trithology Tritho	CSS vffmc		Fossils		0-20 : core gap 20-27 : brownish grey silty mud with erosive base 27-150 : grey clay with black patches of iron sulfides, scattered shells, bioturbated.
110 -		臺					
120 -		蓋					
120		量	_				
130 –			크				
140 -		宝					
150 _	1						









Core: MD04-2754 | Depth: 453 m | Sections:XIV/XXII | Lenght top/bottom(cm):1950-2100

	Sample	Lithology C Cs	Sand S vf f m c 	Fossils	Bioturbation	Detailed description
0				ССС		0-150 : Medium stiff homogeneous, clay with abundant black patches and spots of iron sulfides throughout the section Only very rare small shell fragments.
130 -						









Core: MD04-2754 | Depth: 453 m | Sections: XV/XXII | Lenght top/bottom(cm):2100-2250

		Author . T. Lethy								
	Sample		Mud Sand C CS S vf f m e		Fossils	Bioturbation	Detailed description			
0 — 10 — 20 — 30 — 40 —					С		0-110 : Medium stiff homogeneous, clay with abundant black patches and spots of iron sulfides throughout the section Only very rare small shell fragments.			
60 —					С					
90 —					С					
100 _		2002								
110 —					c c		110-150 : Strongly disturbed during the coring process, some remaining sediment, soft.			
120		M.C.S.			c c		Gray clay with abundant shell fragments			
130 —					СС					
140 -		A Po			c c					
150 _	9		=======			-				







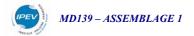


Core: MD04-2754 Depth: 453 m Sections:XVI/XXII Lenght top/bottom(cm):2250-2400

	Sample	Lithology	Mud c cs s	Sand vf f m c		Fossils	Bioturbation	Detailed description
20						С		0-150 : Medium stiff homogeneous, clay with abundant black patches and spots of iron sulfides throughout the section Only very rare small shell fragments.
50 — 60 —						С		
90).	С		89-96 : Core gap
110					1	c c		
130		春				, , ,		
140						c c		









Core: MD04-2754 Depth: 453m Sections: XVII/XXII Lenght top/bottom(cm): 2400-2550

		170		 		
	Sample		Mud Sand	Fossils	Bioturbation	Detailed description
0				С		0-3 : Medium stiff homogeneous, clay with abundant black patches and spots of iron sulfides throughout the section 3-5 : silty layer with shell hash. 5-18 : core gap 18-150 : medium sticky gray clay with rare small shell fragments
40				С		slight color banding on cm-scale color layers with iron sulfides. Other intervals with dark patches and spots of iron sulfides.
90 —				c		74-77 : void
130 -				0 0 0 0 0		









Core: MD04-2754 | Depth: 453m | Sections: XVIII/XXII | Lenght top/bottom(cm):2550-2700

	Sample	ology Mud Sand C CS S vf f m e	Fossils	Bioturbation	Detailed description
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 150 150 150 150 150 150 150 150 15					0-150 : Medium stiff, very homogeneous, grey clay with only occasionnal black patches and spots of iron sulfides Very rare small shell fragments









Core: MD04-2754 | Depth: 453m | Sections: XIX/XXII | Lenght top/bottom(cm): 2700-2850

Author:

	Sample		Mud Sand C CS S vf f m e		Fossils	Bioturbation	Detailed description
10							0-86 : Medium stiff, very homogeneous, grey clay with only occasionnal black patches and spots of iron sulfides
20 _		X		J			0-5 : voids 16-19 : voids
40 _		THE STATE OF					
60 —							
70							
90 -							86-91 : core gap 91-150 : same as above but more but more abundant dark patches and spots of
110 —	3						iron sulfides.
120							
130 —							
150							



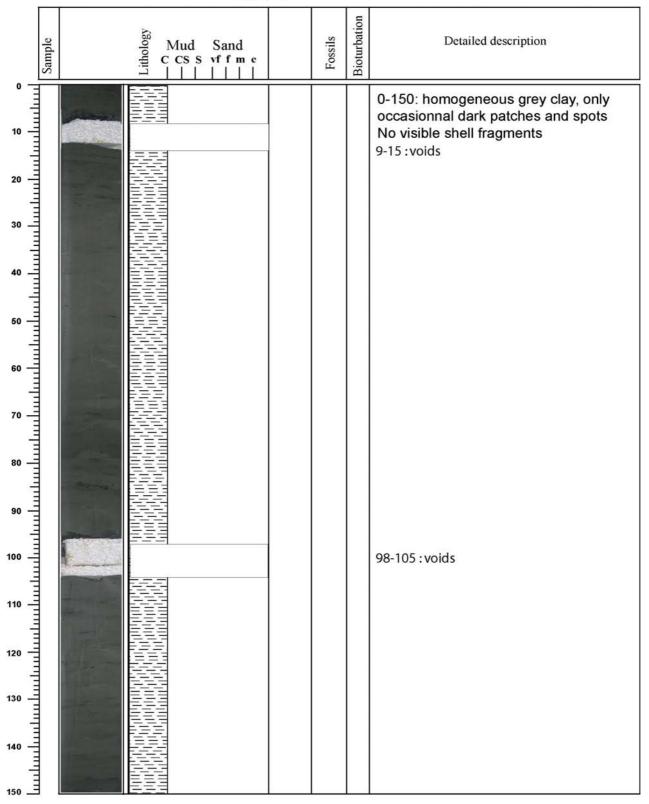






Core: MD04-2754 | Depth: 453m | Sections: XX/XXII | Lenght top/bottom(cm): 2850-3000

Author:



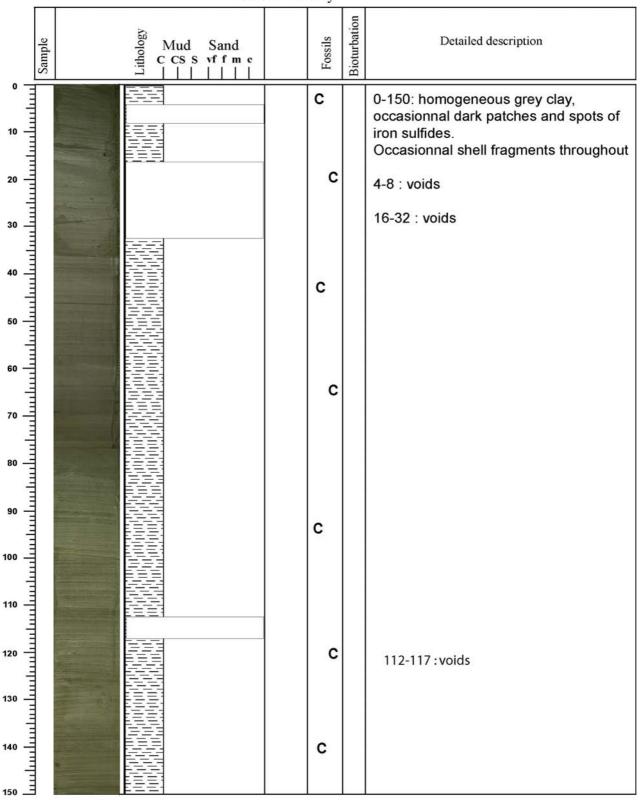








Core: MD04-2754 Depth: 453m Sections: XXI/XXII Lenght top/bottom(cm): 3000-3150











Core: MD04-2754 Depth: 453m Sections: XXII/XXII Lenght top/bottom(cm):3150-3217

	Sample	Lithology Mud	Sand S vf f m c		Fossils	Bioturbation	Detailed description
10	1			8			0-150: homogeneous grey clay, occasionnal dark patches and spots of iron sulfides. Occasionnal shell fragments throughout
20							12-22 : void
100							
110							
130							
110				·			



