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Core description

Depth (m) Core section	Lithology	Structure	Colour	Comments	Jepth (m) Core section	ithology	structure	Colour	Comments
		ç S		0-300 cm: dark gray bioturbated clay with nannofossils.	15		0		1500-1580 cm : greenish gray
- 1 -		َ ڰ			16		°©		1580-1640 cm : gradual colou organic rich spot at 1591 cm
- - 2		2 2		slight color difference and distinct bioturbations at 190 cm	17		& _ (pinkish hue, disturbed locally
-		5		darker layer at 260 cm			& &© &		
3		<u>س</u> ۶ ۵		300-600 cm : dark gray clay with nanofossils and abundant forams, pinkish hue develops below 400 cm.	18 — — - -		&© & {		1800-1940 cm : greenish gra
 4		\$ \$ \$ \$			19 –		& & & & & & & & & & & & & & & & & & & &		
- - 5		*			20		& `(& `		1950-2090 cm : greenish to p
- - - -		S S S S S S S S S S		 below 523 cm : a layering is developed in the sediments, common foraminifers. 			80 20 20 20 20 20 20 20 20 20 20 20 20 20		lenticular layer poor in forams
6		(₩) & (600-900 cm : dark to light gray to brownish gray clay, layered, with rare to common forams down-core the layering is intensified	21		& `(& `	5YR3/3	2100-2160 cm : greenish gra brown silty clay with gradual of
7		* *			22		& ≡ & ≡ & ≡ & ≡	10Y4/1	2160-2150 cm : greenish gray gas bubbles all over section
8_ 		* * * *		← 820 cm : section is broken in two pieces.	23		= } = } = }	9	2150-3040 cm : greenish gray gas bubbles all over sections various lenticular layers of lig mollusc shell at 2275 cm
9		(w)		900-958 cm : greenish gray clay faintly layered with nanofossils and abundant forams,	24		= = (
- 15				958-995 cm : dark blueish gray with layer of organic-rich clay			≡		
10				995-1040 cm : greenish gray clay faintly layered with nanofossils and abundant forams, 1050-1122 cm : greenish gray faint layering clay with rare forams	25		= ` = ? = ()	Ø	
		6 <u>-</u> 6 <u>-</u>		1122-1158 cm : dark greenish gray clay well layered , wit lenses	26		= = = 2		
12		© © ∞		to laminae of silty clay 1158-1500 cm : greenish gray layered clay, significantly disturbed in places by gas expansion, rare forams	27		= = ² = (1	0	diagenetically concreted sedi
		© © ©		saturation in gas at 1430-1432 and 1453-1458 cm (organic rich)			= ² = = 2		at edge of liner, whitish sandy
13		© © ∞			28		= = = = {	10 Y7/1 0 10Y4/1	and lenses from 2795 cm dov
		© © ©			29 – X		= = = =		
15		© (w)			30 _		= (1		voids : sediments disrupted t

Station 08 Core MD02-2546

gray faintly layered clay with rare foraminifera

blour change towards a pinkish appearance

gray clay with forams, well defined layers of ally by gas expansion

gray clay with common forams

o pinkish gray clay with forams ms at 1963-1974 cm

gray to slightly pinkish gray dark reddish al colour change

gray silty clay, black streaks common, n

gray silty clay, black streaks common, ons, biogenic calcareous debris light greenish gray (10Y7/1) silty clay

ediment (nodule) at 2670 cm

ndy glass shards (volcanic ash)

y altered stiffened sediments horizons downcore tic horizon, very stifft

ed by gas

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Core description (continued)

	Depth (m) Core section	Lithology		Structure		Colour	Comments
30	IXX		=	5 5 5		10Y4/1 10Y5/1 10Y6/1	3000-3120 cm : lightly lighter silty clay (greenish gray), bioturbated, black streaks common, bio genic calcareous debris, degasing bubbles common slightly lighter at 3084-3100 cm
			=	(ш	1013/1	3120 cm : end of the core
32							
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Station 08 Core MD02-2546





Day: 07/07/02 Latitude: 27°36.94 N Water depth: 595 m

Core number: MD02-2546

GMT time: 3:48 Longitude: 92°14.82 W Location: Tunica Mounds

Corer type: Calypso core Corer length: 35.90 m Core length: 31.21 m

Observations

*Corer condition:*The corer was broken at 822 and 1979 cm, (2 welding joints broke up) *Core condition:*35 cm of sediment were recolted between section XIVa and XIVb, at 1979 cm

Sections and Sampling

Number of sections recovered and condition : 21 sections recovered, the last section measures 121 cm, a section of 10 cm was taken at the base of every 1.5 m section

Onboard sampling and post cruise processing:

- X-ray microtomography will be processed post cruise at 660, 1865, 1960 and 2010 cm down core.
- USGS core measurements and activities : Elec. Resist ; Vane Shear , water content, (USGS-WH), free gas samples, Headspace Gas (USGS-Menlo Park), Thermal conductivity (Univ.Victoria), structure (ODM, PNNL),
- the 10 cm sections were taken for pore water analysis, (microbiology, and SO₄⁻, Cl⁻, CH₄, ¹⁴C, DIC) (MBARI, Univ.Tokyo)
- Both the working and archive halves will be stored at Texas A&M University
- Several bags were recovered : 1 core top, 1 between section XIVa and b
- MST magnetic susceptibility, gamma ray attenuation and p-wave measurements were made downcore, at a resolution of 2cm. Colour measurements were taken every 2 cm.

Summary of physical and sedimentological observations

Dominant lithologies: from 0 to 2100 cm, dark gray to greenish gray more or less layered clay with nannofossils and various amount of forams. Bioturbation common to abundant. Gas voids present from 1050 to 1800 cm. From 2100 to3120: greenish gray laminated silty clay with decreasing downward foram content, slightly bioturbated.

Minor lithologies: Diagenetically modified sediments making some nodules (2670) or increasing the hardness of the sediment from 2795 cm, downcore.