### **IMAGES VIII, 2002** PAGE

# **Core description**

Depth (m) Core section	Lithology	Structure	Colour	Comments	Depth (m)	Lithology	Structure	Colour	Comments
٦Ē		≥ & ≡	10YR4/4	0-20 cm: dark yellowish brown color (oxidized horizon) gradual lithological changes	15 -		=		as above: silty clays
		2 & ≡ 2 & ≡ 2 & ≡	10Ÿ7/1 10Y7/1	20-260 cm: light greenish gray silty clay. forams abundant, coccos rich	-		=		1511 cm, 1544 cm, 1557 cm,
-		<pre></pre>		Biogenic calcareous debris common	16 —		= 00=		1662-1664 cm: silt pockets
		≥ & ≡	10Y7/1	few sandy layers with sharp contacts (0.5 cm thick)			=		
		≥ & ≡ ≥ & ≡ ≥ & ≡	1017/1		17		=		1712 cm: silt layers
		W			-		=		
		° ⊂ ≡	10Y4/1	260-366 cm: dark greenish gray silty clay strongly bioturbated, black streaks comon	18		= <sup>(W)</sup> =		
			2.5Y3/2	lenses of sandy silt abundant 366-440 cm: very dark gray silty clay, layered, clearly increasing number of thin black layers	-		=		1830 cm, 1880 to 1882 cm, 1
		× == =			19 —		-		
			10Y4/1	440-464 cm: more brownish silty clay, layered, black layers (in mm range) intercalated	-		=		1972 cm, 1994 cm: silt layers
			10Y4/1 2.5Y3/2	464-590 cm: dark greenish gray to dark gray brown silty clay, layered, black layers intercalated by closely spaced thin black layers (mm range)	20		=		
							=		
		2 = 2 =		600-685 cm: as above, in part slightly bioturbated	21		=		0107 cm 0100 cm; oilt louror
->		2 ==== = 2 === =		654-655 cm: thin sandy silt layer	22 -	×	=		2127 cm, 2199 cm: silt layers
					-		≡		
-		<pre></pre>		767-768 cm: reddish brown silty clay as above. Closely spaced black layers, partly bioturbated	23 —				2260 - 2344 cm: highly disturl
		<pre></pre>		813-818 cm: reddish brown silty clay. Thin layer of sandy silt included as above. Color becomes slightly dark greenish gray	-		=		2344-2360 cm: slightly disturt
		2 = ∎			24 —		I ≡ (₩)		2360-2605 cm: laminated ag
-				917-919 cm: layer of sandy silt as above. dark greenish gray silty clay, increasing bioturbated downcore	-				2453cm: silt layer
				closely spaced layering with black streaks in fading away downcore. Black streaks abundant	25 —		=		
			2.5YR5/4	1013-1021 cm: reddish brown silty clay homogeneous					
			10Y4/1 2.5Y3/2	as above. layered dark greenish gray to dark gray silty clay, black layers intercalated, contacts are not sharp but gradual partly bioturbated	26 —		=		2605 cm end of the core
		E = 100 million		layering not such closely spaced as in upper section					
2		الله الله الله الله الله الله الله الله							
			10Y4/1 10Y7/1 10Y5/1 10Y6/1 2.5Y3/2	as above. layered silty clay with different colors from greenisch black to dark greenish gray to light greenish gray to dark gray brown.					
		`, <u> </u>	2.5Y3/2						
		∭ ≡ ── 5							
4- ×		= = الم		as above. layered silty clay with different colors. Appearance in more greenish gray, few black					
-11		< ≡		streaks + spots , few layers of sandy silt (<0.5 cm thick)					

## **Station 16 Core MD02-2566**

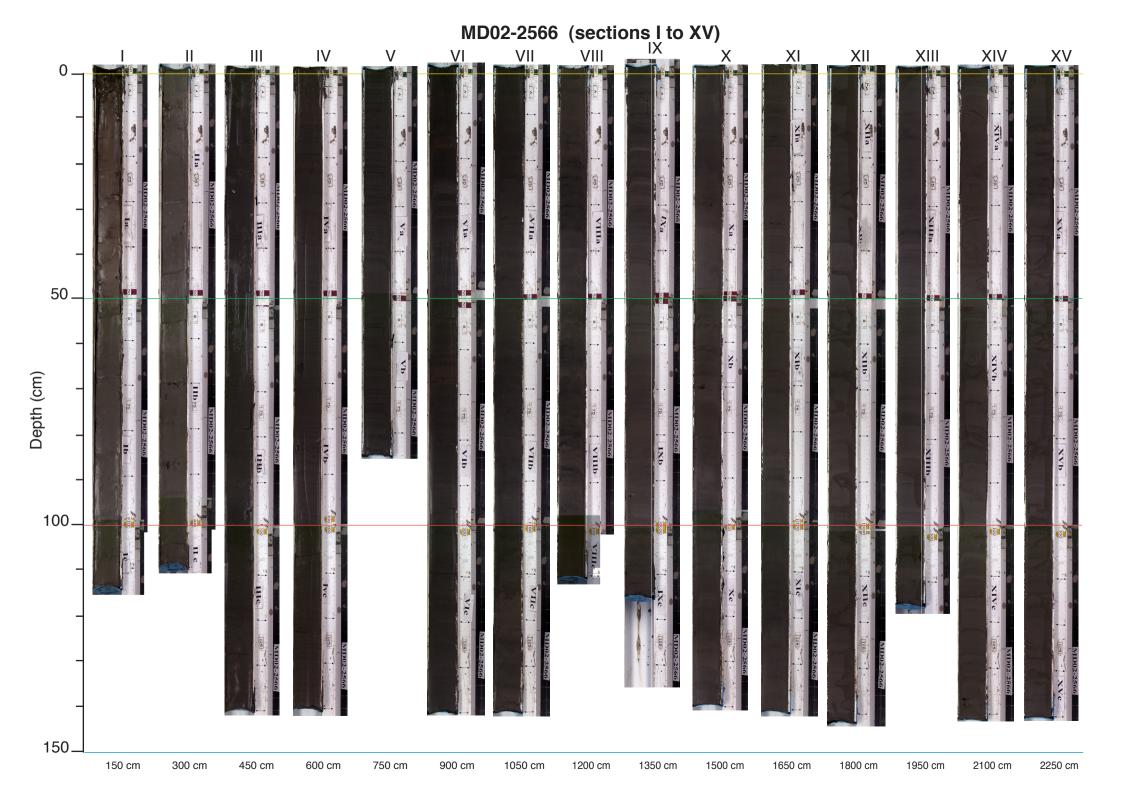
, 1578 cm, 1817 cm: silt layers

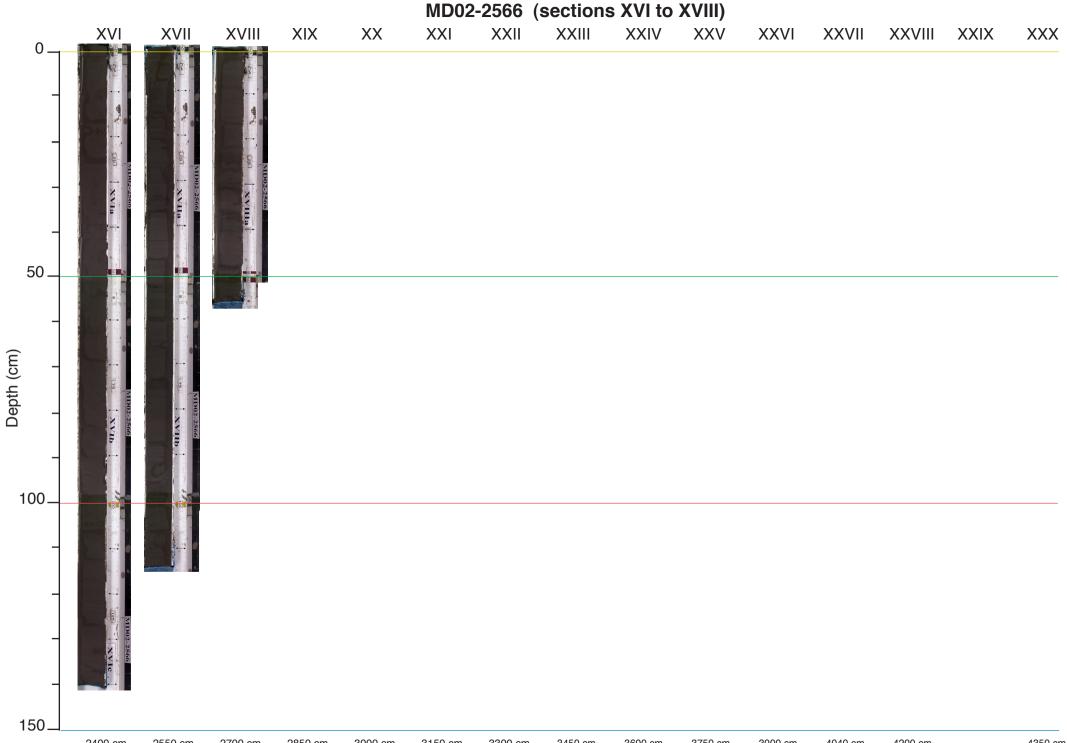
1887 cm, 1904 cm, 1912 cm: silt layers

rbed

bed

ain





Day: 13/07/02 Latitude: 28°07.15 N Water depth: 1186 m

Core number: MD02-2566

GMT time: 09:13 Longitude: 89°06.19 W Location: Kane Spur

Corer type: Calypso core Corer length: 33.60 m Core length: 26.05 m

#### Observations

Corer condition: Good

Core condition: Good. Section XVI is slightly to highly disturbed.

#### Sections and Sampling

Number of sections recovered and conditions: 18 sections of 1.5m were recovered; the last section measures 105 cm A 10 cm section was taken on each section, and some in extra at sections II, IV, V, VIII, XI, XV.

#### Onboard sampling and post cruise processing:

- one bag was recovered: 1 core top
- Both the working and archive halves will be stored at Texas A&M University
- the 10 cm sections were taken for pore water analysis (microbiology, and SO<sub>4</sub><sup>-</sup>, Cl<sup>-</sup>, CH<sub>4</sub>, <sup>14</sup>C, DIC) (MBARI, Univ.Tokyo)
- USGS core measurements and activities : Elec. Resist ; Vane Shear , water content, whole rounds for consol/triaxial (USGS-WH), Headspace Gas (USGS-Menlo Park), Thermal conductivity ( Univ.Victoria)
- MST magnetic susceptibility, gamma ray attenuation and p-wave measurements were made downcore, at a resolution of 2 cm. Colour measurements were taken every 2 cm.

#### Summary of physical and sedimentological observations

*Dominant lithologies:* Light to dark greenish gray silty clay with some layering. Foraminifers visible on the first 260 cm of the core with coccolith. Silt layers occur from 1400 cm to the end of the core.

Minor lithologies: None