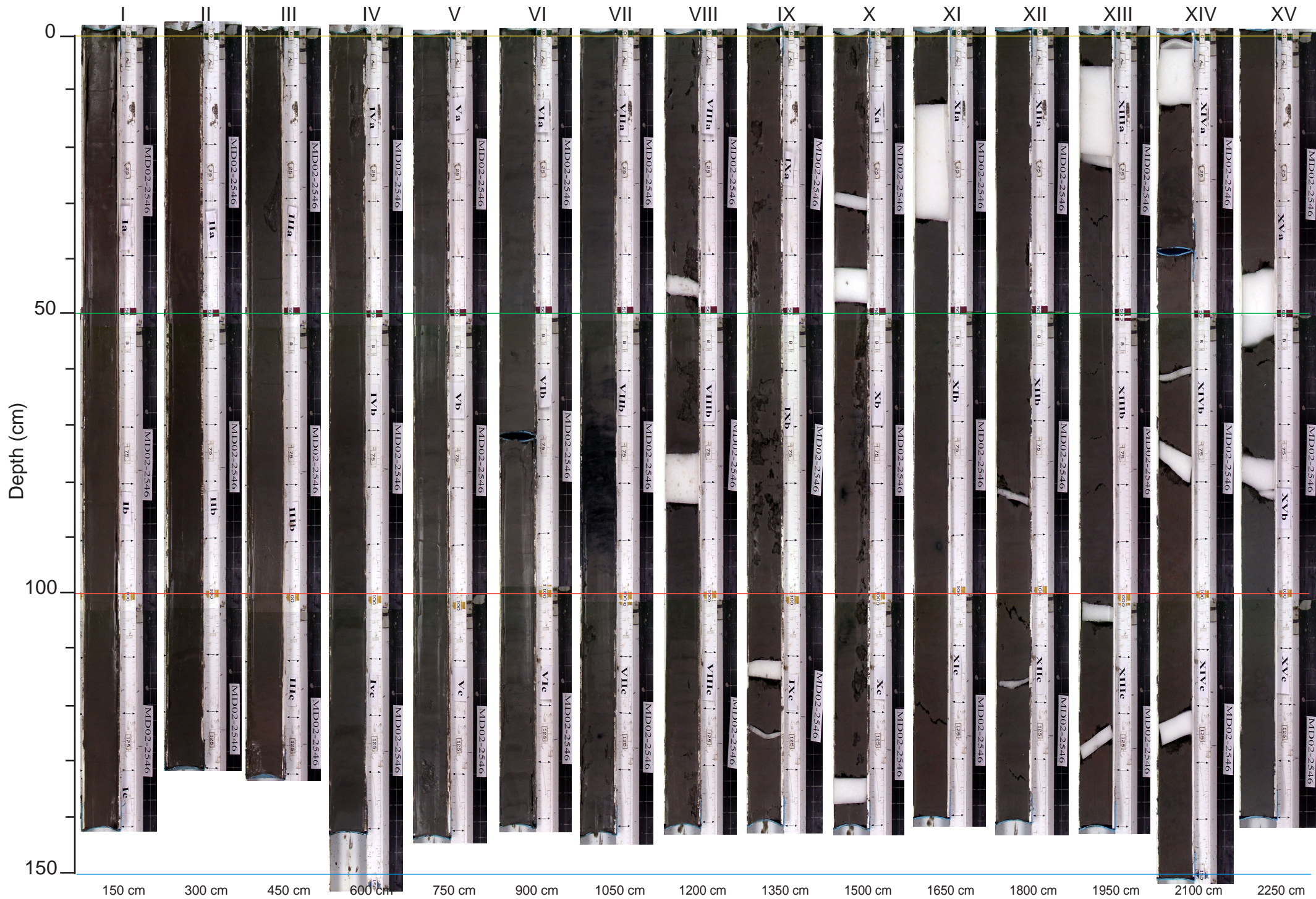
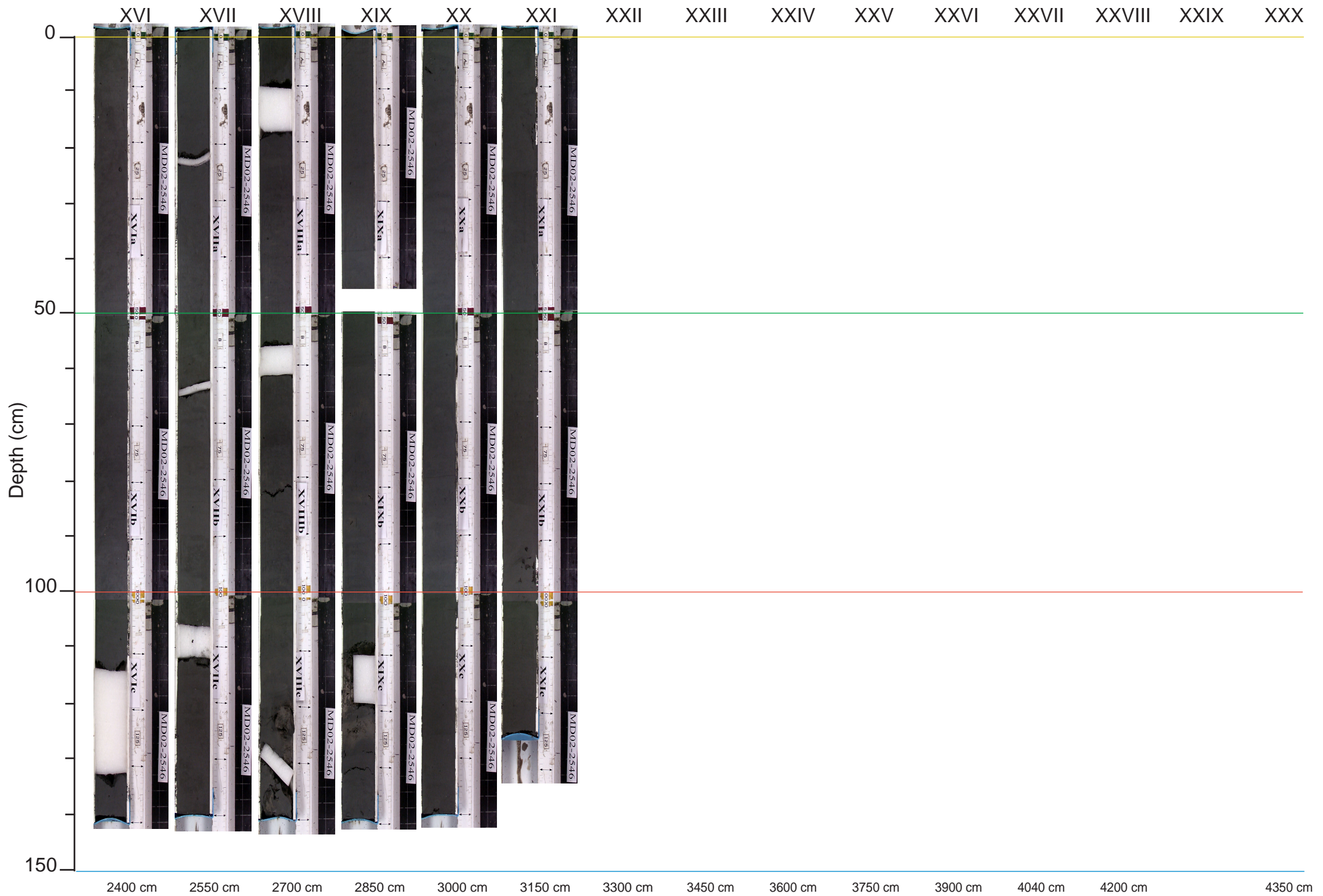


Depth (m)	Core section	Lithology	Structure	Colour	Comments
30	XXI			10Y4/1	3000-3120 cm : lightly lighter silty clay (greenish gray), bioturbated, black streaks common, bio genic calcareous debris, degasing
				10Y5/1	
				10Y6/1	
				10Y5/1	
31					slightly lighter at 3084-3100 cm slightly darker below 3100 cm
32					3120 cm : end of the core
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					

MD02-2546 (sections I to XV)



MD02-2546 (sections XVI to XXI)



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

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

Core number: **MD02-2546**

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 recollected 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 to 3120: 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.