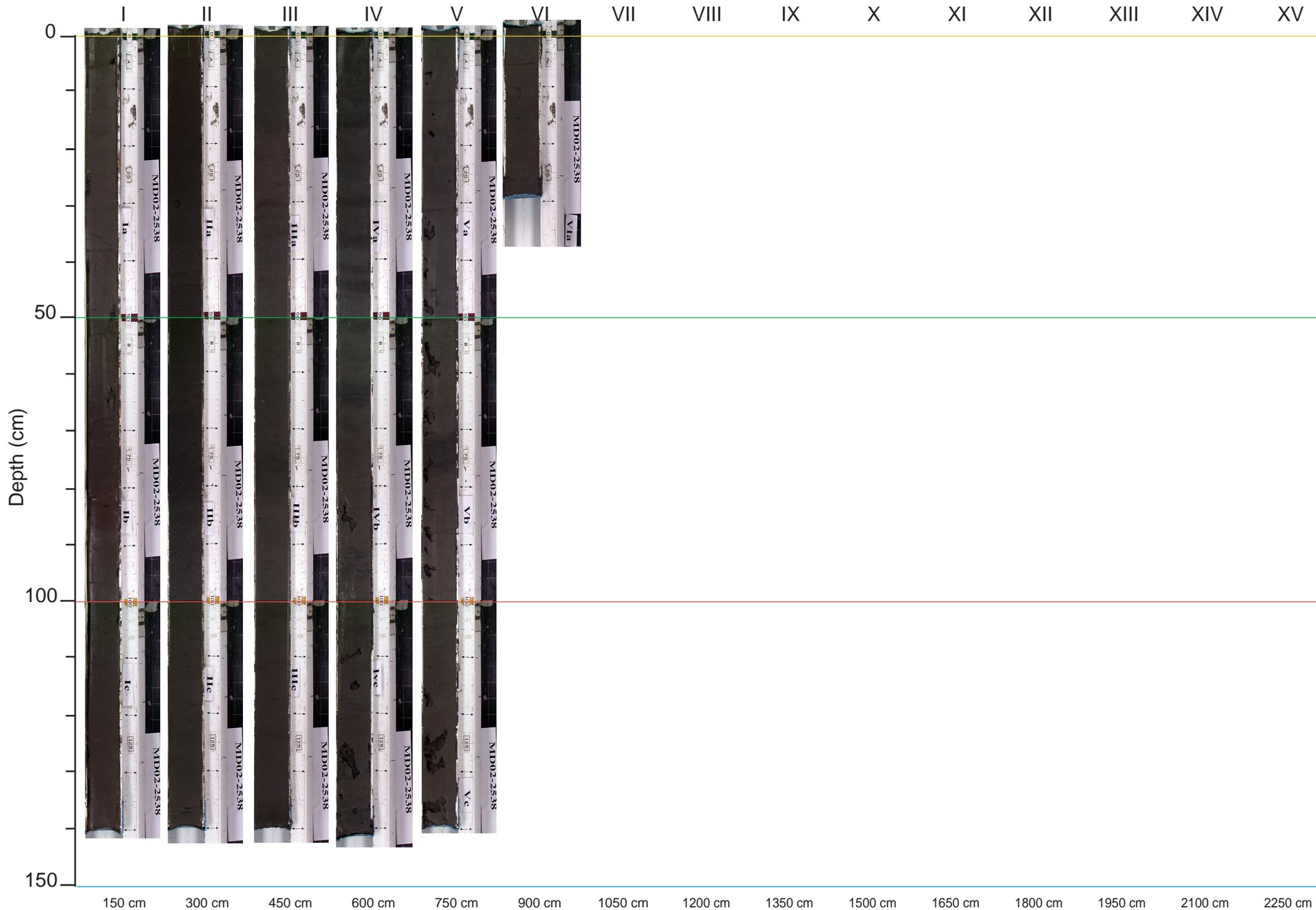


# MD02-2538 (sections I to VI)



Day: 05-06/07/02  
Latitude: 27°37.00 N  
Water depth: 599 m

GMT time: 10 :43  
Longitude: 92°14.83 W  
Location: Tunica Mounds

Core number: **MD02- 2538G**

Corer type: Gravity core  
Corer length: 21 m  
Core length: 7.76 m

### **Observations**

*Corer condition :*

good

*Core condition :*

good

### **Sections and Sampling**

*Number of sections recovered and conditions :*

6 sections recovered, the last section measures 30cm, good conditions.

A section of 10 cm was taken at the base of every 1.5 m section

*Onboard sampling and post cruise processing :*

- Both the working and archive halves will be stored at Texas A&M University
- 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.
- 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)
- 1 bag of core top sediment was taken
- USGS core measurements and activities : Elec. Resist ; Vane Shear , water content, (USGS-WH), Headspace Gas (USGS-Menlo Park), Thermal conductivity ( Univ.Victoria)

### **Summary of physical and sedimentological observations**

*Dominant lithologies:* upper 1.5m consist of greenish gray nannofossil clay with abundant foraminifera; interval 1.5-7.8m consists of dark greenish gray faintly layered silty clay with foraminifera; bioturbated.

*Minor lithologies:* black organic-rich streaks common