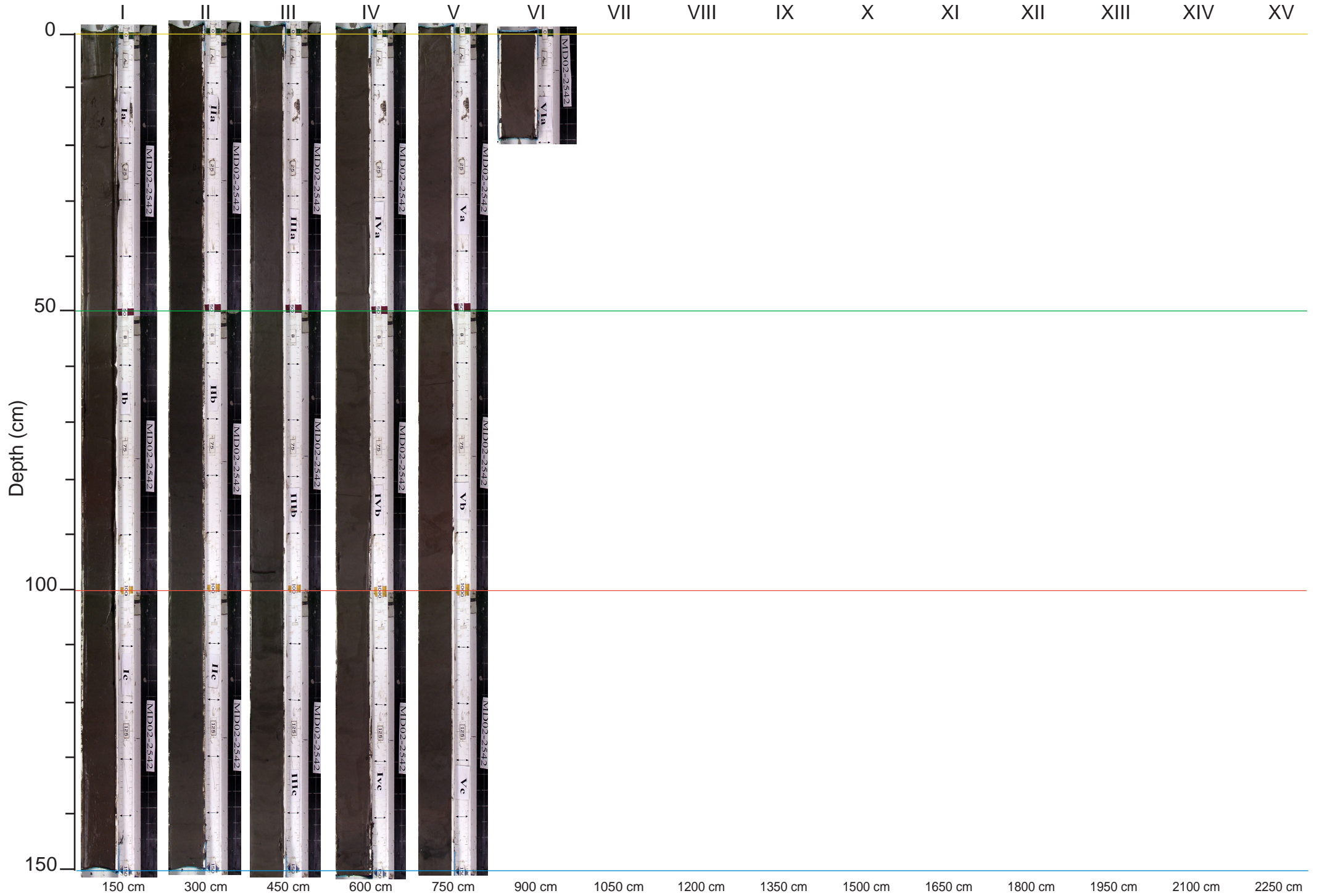


MD02-2542G (sections I to VI)



Day: 06/07/02
Latitude: 27°37.93 N
Water depth: 617 m

GMT time: 11 :13
Longitude: 92°12.72 W
Location: Tunica Mounds

Core number: **MD02- 2542GHF**

Corer type: Gravity /Flux core
Corer length: 21.42 m
Core length: 7.7 m

Observations

Corer condition :

Heat flux measurements, 1 trigger

Core condition :

Good conditions

Sections and Sampling

Number of sections recovered and conditions :

6 sections recovered, the last section measures 20 cm, 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
- the 10 cm sections were taken for pore water analysis (microbiology and SO₄⁻, Cl⁻, CH₄, ¹⁴C, DIC) (MBARI, Univ.Tokyo)
- 1 bag of core top sediment was taken
- 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.
- 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: interval 0-3.9 m consists of greenish gray sandy silty clay with abundant foraminifera, interval 3.92-7.5m consists of dark greenish gray to greenish gray silty clay with foraminifera, soft sediment deformation in lower interval, bioturbation along entire core.

Minor lithologies: black organic-rich streaks common.