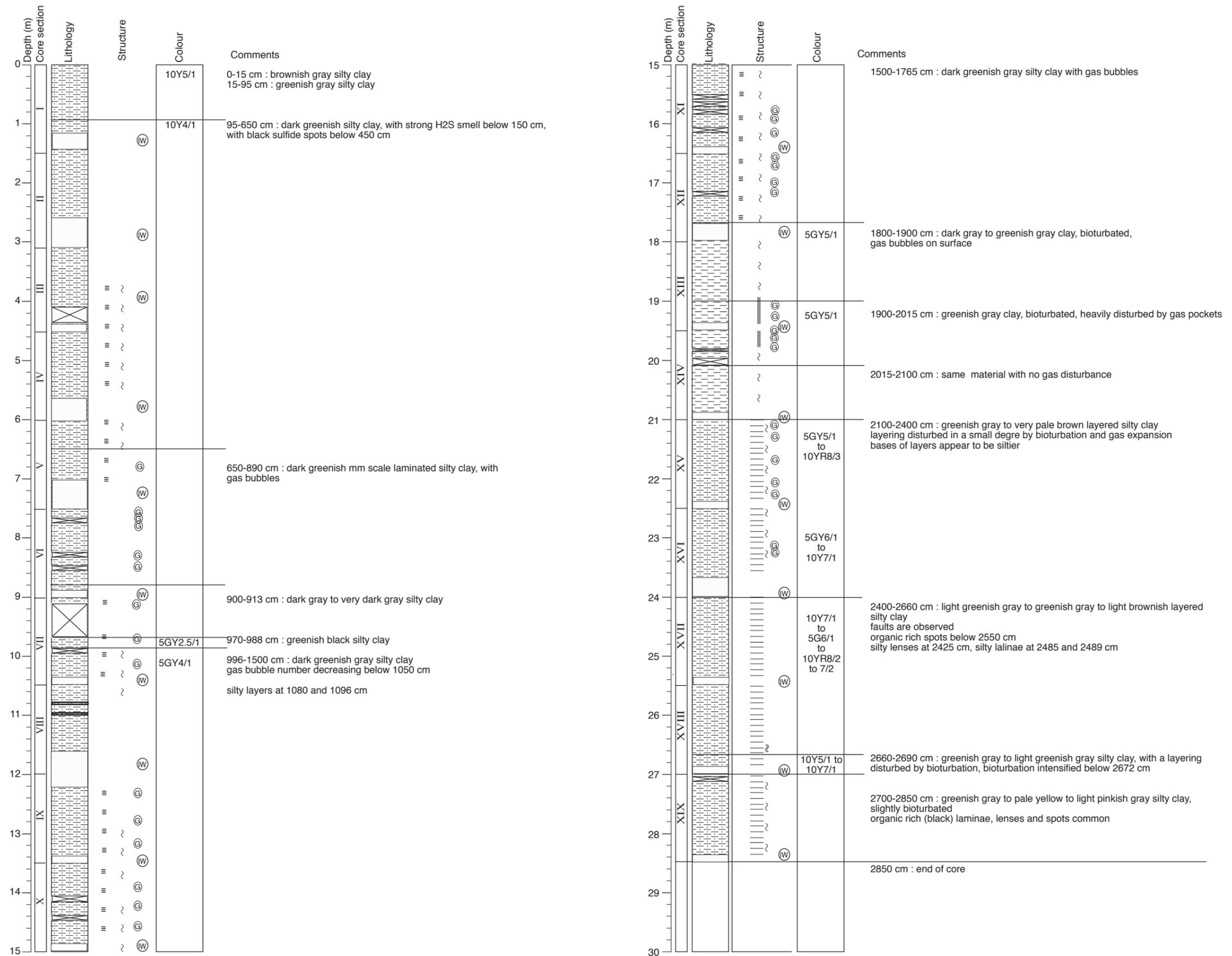
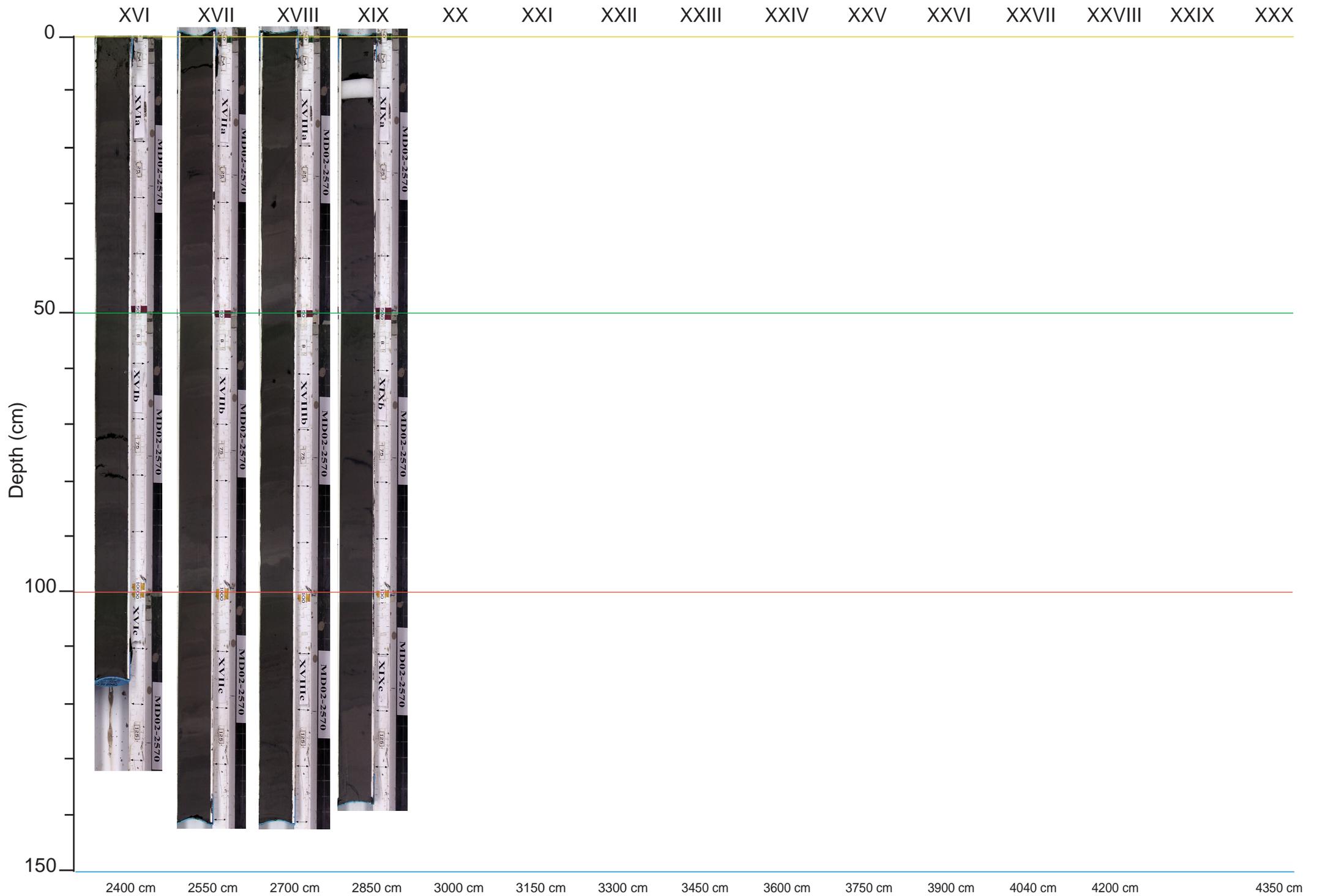


**Core description**





# MD02-2570 (sections XVI to XIX)



Day: 14/07/02  
Latitude: 28°04.26 N  
Water depth: 631 m

GMT time: 10:28  
Longitude: 89°41.39 W  
Location: West Mississippi canyon

Core number: **MD 02-2570**

Corer type: Calypso core  
Corer length: 35.60 m  
Core length: 28.50 m

### **Observations**

*Corer condition:* Corer bent at around 10 m

*Core condition:* Some clathrates along the core. Sections XII and XIII disturbed by gas expansion.

### **Sections and Sampling**

*Number of sections recovered and conditions:*

19 sections of 1.5m were recovered; the last section measures 135 cm

A 10 cm section was taken on each section, some other on section I, II, IV, V, VIII, IX, XIII and XVII

*Onboard sampling and post cruise processing:*

- Both 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)
- X-ray microtomography will be processed post cruise at 1260 and 2290 cm.
- 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:* 0-650 cm, greenish to dark greenish gray silty clay with strong H<sub>2</sub>S smell below 150 cm. 650-1800 cm, dark greenish gray to dark gray silty clay with numerous gas bubbles or voids. 1800-2100 cm, interval of clay. 2100- greenish to light greenish gray silty clay with gas bubbles and voids. Some organic-rich layers and spots. Most of the core is slightly bioturbated.

*Minor lithologies:* None