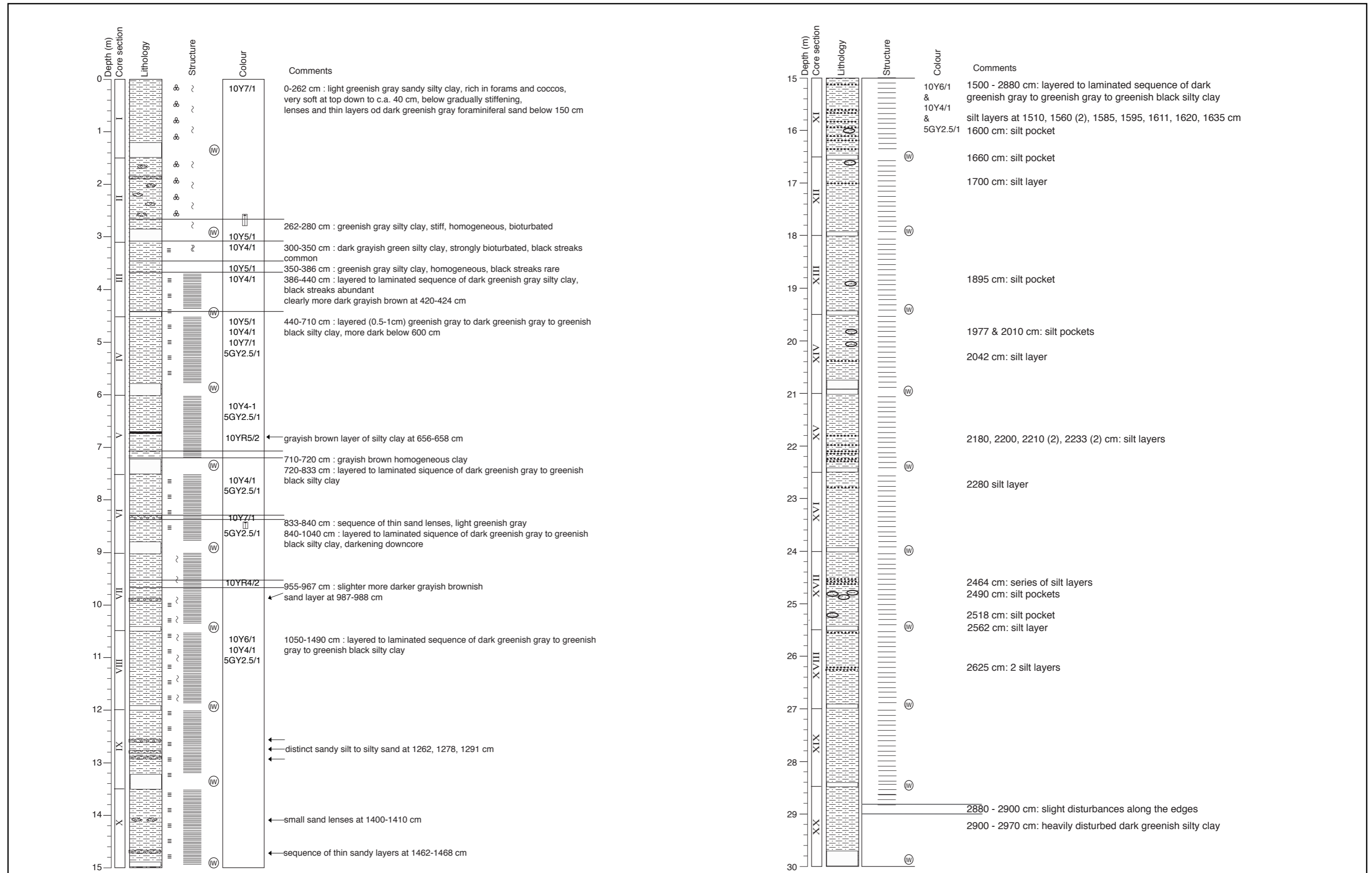
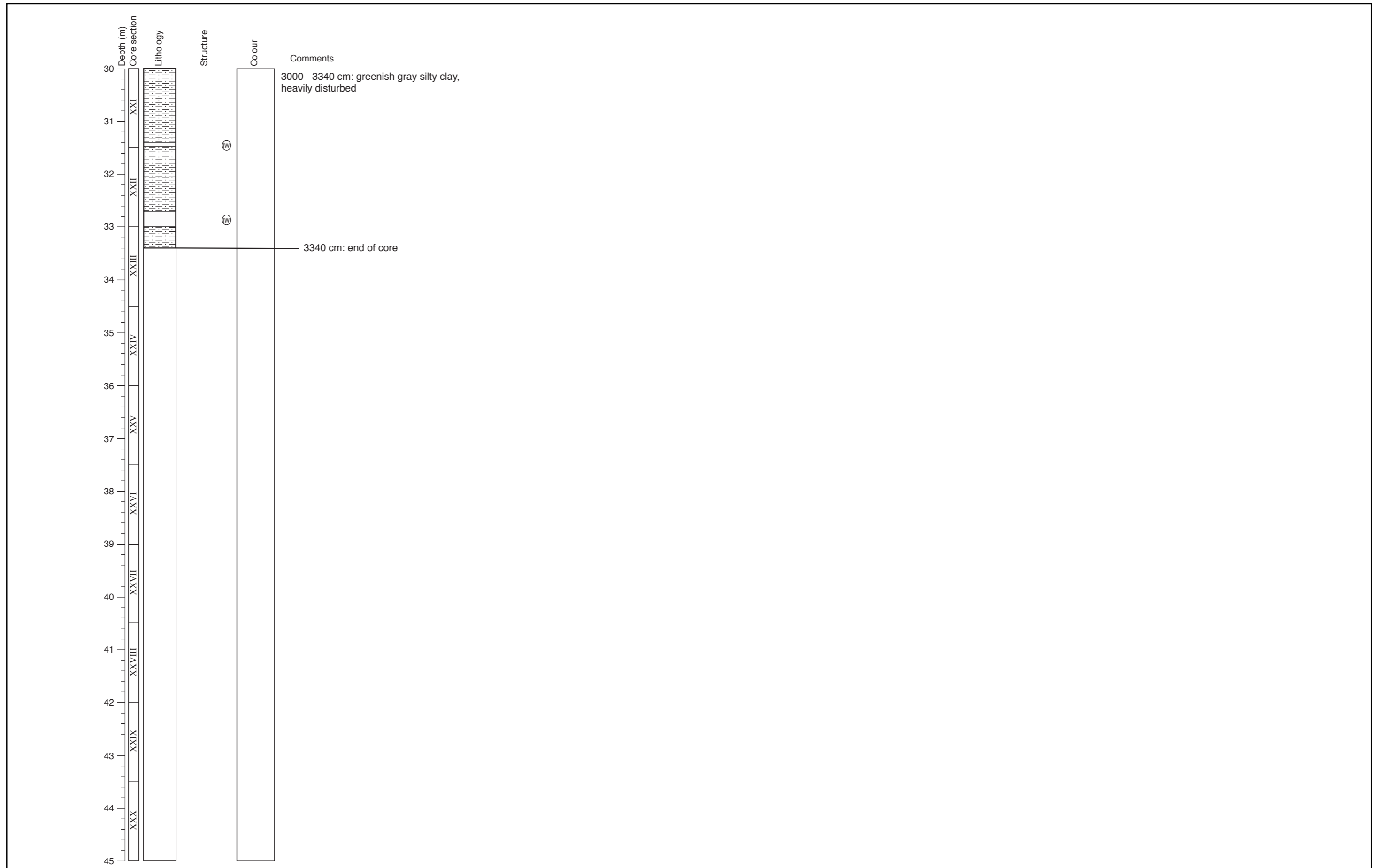
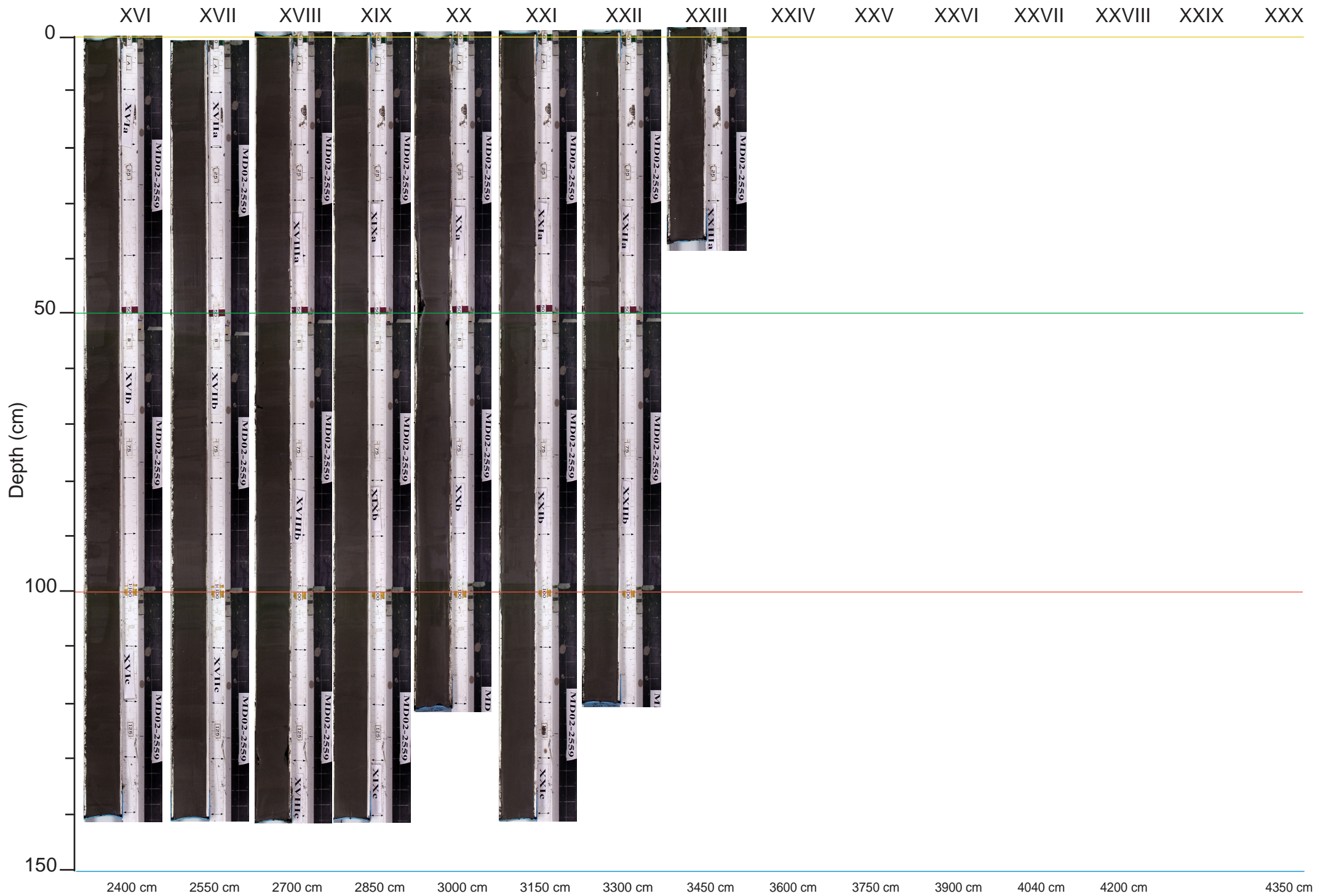


Core description





MD02-2559 (sections XVI to XXIII)



Day: 11/07/02
Latitude: 28°13.35 N
Water depth: 1148 m

GMT time: 08:09
Longitude: 89°29.35 W
Location: Kane Spur

Core number: **MD02-2559**

Corer type: Calypso core
Corer length: 45.20 m
Core length: 33.39 m

Observations

Corer condition: Good

Core condition: Good. Sections XX, XXI, XXII and XXIII are slightly then heavily disturbed.

Sections and Sampling

Number of sections recovered and conditions:

23 sections of 1.5m were recovered; the last section measures 42 cm

A10 cm section was taken on each section, and one more on sections I, II, IV, V, VI, IX, XIV, XX, XXII

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 and Tokyo University)
- 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 2 cm. 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), structure (ODM, PNNL)
- Two bags were recovered : 1 core catcher, 1 core top

Summary of physical and sedimentological observations

Dominant lithologies: 0-350 cm, light to dark greenish gray bioturbated silty clay with some foraminifers. 350-2880 laminated then layered light to dark greenish gray silty clay with few bioturbated intervals and no foraminifer visible. From 833 cm, downcore, sand or silts layers or pockets throughout the core.

Minor lithologies: None but sand and silt layers and pockets.