



Day: 09/07/02
Latitude: 27°11.01 N
Water depth: 2259 m

GMT time: 11:59
Longitude: 91°25.00 W
Location: Pigmy Basin

Core number: **MD02- 2553C2**

Corer type: Giant box C² core
Corer length: 12.00 m
Core length: 10.03 m

Observations

Corer condition: Good

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Sections and Sampling

Number of sections recovered and conditions:

7 sections of 1.5 m recovered, the last section measures 101 cm.

3 set (Large D tubes) of sections (a, b, c) have been taken from the core

A section of 10 cm was taken every 1.5 m.

Onboard sampling and post cruise processing:

- X-ray microtomography will be processed post cruise from 545 cm to the end of the core.
- The 10 cm sections were taken for pore water analysis (microbiology and SO₄⁻, Cl⁻, CH₄, ¹⁴C, DIC)
- 1 bag of core top sediment was taken
- U-channels were taken on every section and will be processed at Gif-sur-Yvette, set b has been taken for pollen analysis (stored in a freezer), and set c will be processed at Zurich
- The sections will be stored at Texas A&M University, and University of South Florida.
- Colour measurements were taken every 2 cm.

Summary of physical and sedimentological observations

Dominant lithologies: 0-155 cm sandy to silty clay with foraminifers and coccoliths. 155-1032 cm, greenish to dark greenish gray bioturbated clay with foraminifers.

Minor lithologies: Some foraminifer-rich intervals interpreted as turbidites at depths of 58-60, 300-302, 400-402, 420-422, 581-595 and 970-981 cm. Some with clear fining upward.