

Suggested theme: Deepwater exploration: progress and challenges

**Paleoenvironmental conditions along the Moroccan Atlantic Margin from the last glaciation to the Holocene**

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To reconstruct the paleoceanographic history of Moroccan Atlantic margin (~35°N) from the last glaciation to the Holocene, a set of five sediment cores retrieved, during the cruises SO-175 with the German RV Sonne in 2003 and 64PE284 with the Dutch RV Pelagia in 2008, from a wide range of water depths ranging from 370 m to 1380 m has been selected as the basic material for this study.

In order to achieve our objective, this study was focused on two major analytical approaches:

- Measuring the grain-size record of fine-grained terrigenous sediments and using the results for the reconstruction of the paleoenvironmental evolution
- Determination of the chemical composition for reconstruction of past ocean productivity which is a fundamental issue regarding global climate reconstructions