



Workshop IODP-Italia “Lo stato delle proposte di perforazione nell’area mediterranea”
Scientific Drilling in the Mediterranean Sea
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Abstract

Le perforazioni scientifiche mediterranee nella storia recente

ODP Leg 107 in the Tyrrhenian Sea

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Abstract

From the end of December 1985 to February 18 1986, Leg ODP 107 has allowed to drill, along a northwest to southeast transect, a series of seven sites across the western passive margin and the two deep oceanic-type basins of the Tyrrhenian Sea. More than 3500 m of sediments and hard rock were drilled in a total of 11 holes. Leg 107 has investigated a wide range of geological questions; among them: origin of sapropels and metaliferous basal sediments in Pliocene and Quaternary section, definition of the Miocene/Pliocene boundary, cyclic evaporitic deposition, chronology of circum-tyrrhenian eruptive volcanism, protrusion of upper mantle material to the sub seafloor, crustal heterogeneity, back-arc basin evolution, passive margin mechanisms and timing. We present here, and briefly comment, some of the results from this very successful scientific drilling campaign.

