

Manihiki II

Joint-project BMBF: GEOMAR¹/AWI²

Project Members:

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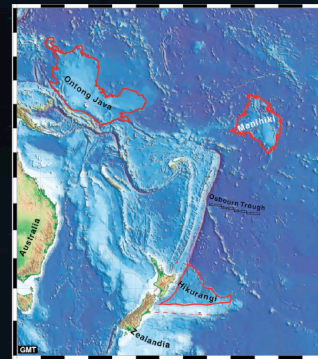
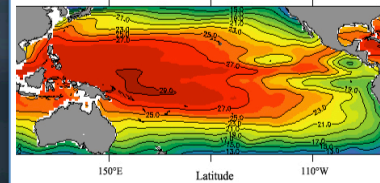
Pleistocene Dynamics of the Western Pacific Warm Pool



Period 2012-2015

Motivation:

We aim to reconstruct the evolution and dynamics of the Western Pacific Warm Pool over the past 2.5 Myr as well as the oceanic feedback mechanisms between the Southern Ocean and the equatorial W Pacific („ocean tunneling“) and its impact on climate.



Methods:

Based on sediment cores retrieved at the Manihiki Plateau in the equatorial W Pacific during research expedition SO225 with RV Sonne, we will apply combined Mg/Ca and $\delta^{18}\text{O}$ analyses on various planktonic foraminiferal species to reconstruct seawater temperature and salinity.

