



Continued Multidisciplinary study Of Continental/ocean Climate dynamics using High-resolution records from the eastern mediterraneAn (MOCCHA)

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Studies on high-resolution paleoclimate and with high-frequency variations, demand for continuous marine records with sufficient time resolution. Such records are rare but vital for our understanding of causes and consequences of climate and environmental change at decadal to millennial time scales. Our initial studies at a near-coastal and a deep Mediterranean anoxic basin site seem to provide a continuous marine paleo-climate record that permits such high-resolution and well dated climate reconstructions for at least the last few kyrs. Cores for the MOCCHA project have been collected during the pre-Moccha ESPRESSO cruise with RV Universitatis and CAPUCCINO cruise with RV Poseidon, followed by the DOPPIO cruise and the MACCHIATO-cruise with RV Pelagia. The cores recovered and studied thusfar appear to contain largely laminated sediments (submillimetric) down to 10 kyr.

We will introduce the sites with existing and recently published evidence and supplement these with preliminary results for both sites obtained during these cruises. All of these are illustrating their suitability for high-resolution studies of paleoclimate that we hope to extend to > 35 kyr, i.e. for future IODP drilling.

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