



Sea Level Reconstruction using Altimetry and Tide Gauges within the Mediterranean Basin

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The spatial sea level patterns derived from Empirical Orthogonal Functions (EOFs) from a 16 year satellite altimetry dataset are used in conjunction with available tide gauge observations to reconstruct sea level variability backwards in time for the Mediterranean basin. The reconstruction method is based on Church et al. (2004). These finding are compared with previously published methods. We explore the robustness of this method in terms of estimating the basin trend with a realistic error.