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Long Term Sea Level Change in the Black Sea

Tulay Cokacar (1) and Özsoy Emin ()

(1) Kandilli Observatory and Earthquake Research Institute,Bogazici University,Istanbul (tulay.cokacar@boun.edu.tr), (2) Institute of Eurasya,Istanbul Technical University,Istanbul ozsoyem@itu.edu.tr)

Since 1992, altimeter missions have dramatically improved our knowledge and understanding of the oceans. This study investigates the long term sea level change during 1992-2015 in the Black Sea.

The satellite altimeter data of the Topex-Poseidon, ERS-1 ands ERS-2 missions and sea level variations of 25 tide gauge stations and temperature/salinity data of 25 Argo float observed in the Black Sea are used for the analysis. The altimeter data are assessed and compared with the data from tide gauges and Argo floats in the Black Sea. First ARGO T/S profiles are used to assess the discrepancies observed between the altimeters. Then in situ measurements are compared with multiple altimeter data to detect in situ measurement anomalies and the corrections applied to improve the consistency of the data sets.