



Satellite altimetry and tide gauge data for monitoring sea level changes in the Eastern Mediterranean

Dimitris PAPAZACHARIOU (1), George ZODIATIS (1), Andreas NIKOLAIDIS (1), Stavros STYLIANOU (1), and Dimitrios ARABELOS (2)

(1) UNIVERSITY OF CYPRUS, OCEANOGRAPHY CENTRE, Nicosia, Cyprus (gzodiac@ucy.ac.cy, +357-22895051), (2) ARISTOTLE UNIVERSITY OF THESSALONIKI, DEPARTMENT OF GEODESY AND SURVEYING, GREECE (arab@eng.auth.gr)

Sea level variations in the Eastern Mediterranean sea are examined through the use of altimetric data from past and current missions and tide gauge data. Data from Jason-1, Jason-2, Envisat, ERS-1, ERS-2, GFO and Topex/Poseidon are used, covering the period from 1992 to 2013. For example, the ascending passes 7, 83, and 159 of Jason-1 mission, as well as the descending passes 68, 170 and 246 pass over our research area. In addition, data from tide gauge stations from the MedGLOSS network in our region are also used.