



Validation of experimental COASTALT coastal altimetry products along the Portuguese coast

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Satellite altimetry plays a fundamental role in ocean remote sensing. Initially devised as an open ocean technique, its use in coastal areas is of high scientific and practical relevance. In the framework of project COASTALT, innovative strategies in terms of waveform retracking and geophysical corrections have been developed, resulting in new experimental coastal altimetry products. Evaluating the performance of such new products is a fundamental activity in the effort of extending the applicability of satellite altimetry to the coastal zone. This work addresses the validation of COASTALTv2 products in a pilot region along the west Iberia margin based on the comparison with tide gauge observations. Sea-level anomalies from COASTALT and in-situ measurements of relative sea-level at several tide gauges along the west Iberian coast are compared in order to evaluate, both temporally and spatially, the performance of different retrackers and different geophysical corrections in the test area.