MOZ 2c: Tidal Analysis for Nacala	
Keywords: Sea Level, Navigation, Tidal Predictions	

Primary actors

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Stakeholders / End Users

INAHINA, UEM (School of Coastal and Marine Science), CDN

Introduction / Statement of the Problem

Nacala port, in Northern Mozamabique, is to undergo redevelopment and tidal information is required in order to calculate the design levels of port infrastructure.

Case study description

The case study will involve the following activities:

- INAHINA to fit a pressure tide gauge at a location agreed with CDN to monitor sea level for at least 4 weeks.
- UEM to quality control and conduct tidal analysis of tide gauge data and use this to produce projections of tidal datums.
- Generate time series of altimeter data at suitable along-track location and analyse variability.
- Produce report containing tidal predictions for Nacala port, estimated tidal datums and an evaluation of non-tidal variability in satellite altimetry record.

Expected Impacts

Primary Impact: 2019 onwards

CDN will apply results (including predictions) in planning harbour developments and operations.

Initial Secondary Impact: To be reported on Case Study Completion at December 2018

INAHINA and UEM will develop the capability to produce design levels for port redevelopment.

SDG 9.A