MOZ 1: Satellite Derived Current Climatologies for the Mozambique Channel

Keywords: Surface Currents, Navigation, Port Operations, Port Development

Primary actors

Mozambique: INAHINA (Obadias Cossa), support from UEM Student (Lucas Fernando & Austensio Nobre)
UK: SatOC (David Cotton / Ellis Ash)

Stakeholders / End Users

INAHINA, INAMAR, CDN

Introduction / Statement of the Problem

Accurate ocean surface current information is important for navigation, port operations and port development. However existing information on currents is out of date.

Case study description

The case study will involve the following activities:

- Investigate the seasonal to inter-annual variability of the currents in the locations indicated below, using the European GlobCurrent project data (www.globcurrent.org).
- Investigate variability on shorter times scale (days to weeks).
- Compare where possible, these data with those from the NOC Liverpool model in appropriate time scales.
- Produce a technical report, giving a summary of seasonal and inter-annual variability in the circulation currents, with a comparison against information in the known literature.
- This Technical Report will be provided to the Stakeholders for subsequent end-use application**.**

Expected Impacts

Long Term Primary Impact: After Project Completion (> 2020)

It is expected that this improved information used to support the planning of three large ports in the north of the country, and help engineers to identify suitable sites and specifications for new installations. The coal terminal in Macuzi will also benefit from improved current information.

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

INAHINA and UEM will develop the capability to access and process satellite data on ocean currents and to apply them in a collaboration with end-users.

INAHINA will gain insight into remotely observed currents and variability near the ports.

SDG 1.5