

Portagauge and Satellite Sea Level Monitoring System for the Southwest Indian Ocean

Wednesday 14th September 2022

14:00-15:30 EAT/ 12:00 – 13:30 BST

PASS-SWIO is a project funded by the European Space Agency (ESA), in which the National Oceanography Centre (NOC) and Satellite Oceanographic Consultants (SatOC) are working with the Direction Générale de la Météorologie (DGM) to establish a sea level monitoring system for Madagascar, based on the installation and deployment of a low-cost relocatable tide gauge (Portagauge) developed at the NOC.

Portagauge uses GNSS interferometric reflectometry (GNSS-IR) technology alongside a conventional radar. By combining these measurements with analysis of satellite altimeter sea level data we will provide validation and wider scale knowledge of sea-level variability.

One of the project outputs will be a proposed roadmap to support the DGM in implementing a national sea-level monitoring system for Madagascar. Therefore, an important part of PASS-SWIO is to engage with current and potential users of sea level data in Madagascar to understand the main requirements for sea level information, and gaps in current availability.

The online webinar will introduce the PASS-SWIO project; provide an overview of the NOC Portagauge system; present the scientific context in terms of key features of sea level variability important to the Southwest Indian Ocean region (including climate change); and discuss the two main measurement approaches of tide gauges and satellite altimetry. Finally, we will introduce an online questionnaire to establish user requirements and needs.

For attendees based in Antananarivo there is an option for a limited number of people to join the webinar from a meeting room at DGM. Please indicate on the registration page if you wish to choose this option.

Please note that the webinar will be conducted primarily in English.

For more project details please take a look at the project website:

<https://www.satoc.eu/projects/pass-swio/>

Register for the webinar here: <https://noc-events.co.uk/pass-swio-registration>