

Protecting the Australian coastline via a coastal erosion Early Warning System

A wide variety of stakeholders across the South West and beyond, have approached the SWEEP team, keen to benefit from their cutting-edge science and collaborative approach to tackling coastal hazards. Applying their Operational Water and Wave Level (OWWL) science and approach more broadly, these impact summaries highlight the key benefits delivered from this work during SWEEP.

sweep Impact Summary



Coastal erosion, Ben Boyd NP, NSW

Ways of Working



Capacity
Building

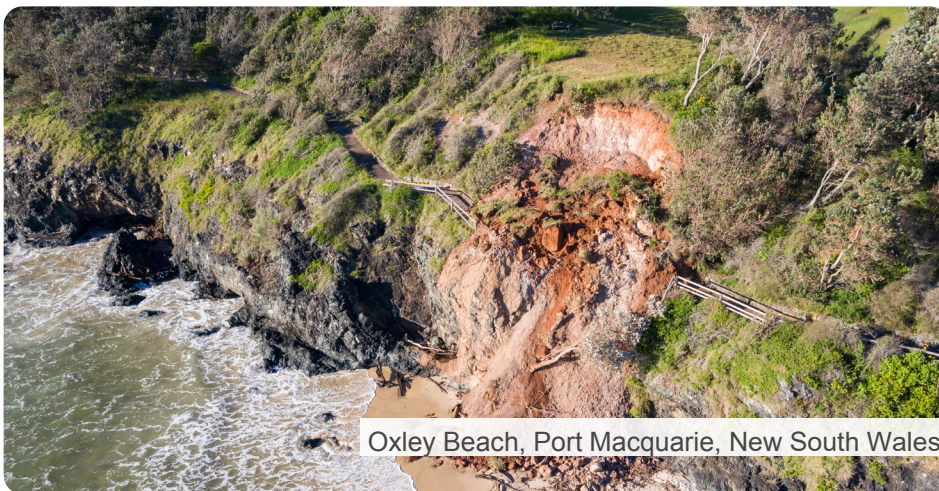
What we did and its impacts

The SWEEP team were invited to share best practice from their Operational Wave and Water Overtopping (OWWL) work with the Water Research Laboratory at University of New South Wales (UNSW), Australia, tasked with developing a novel coastal erosion Early Warning System for the entire coastline of Australia.

The system is intended to provide forewarning of severe coastal erosion events which, in the past, have led to significant damage to coastal properties in the Sydney region, and risk to life. This represents the first of its kind system applied in Australia and one of only a handful of such systems developed to date globally.

The knowledge and approach used in SWEEP's OWWL work has helped to strengthen this work. The knowledge exchange between SWEEP and UNSW was delivered via online workshops.

For more information contact sweep@exeter.ac.uk



Oxley Beach, Port Macquarie, New South Wales

"I lead a multi-disciplinary project team that will deliver new capability to our national forecasting agency the Australian Bureau of Meteorology to implement a fully operational coastal erosion Early Warning System. The SWEEP OWWL model has provided us best practice insight and practical guidance on how to successfully leverage cutting-edge research to deliver high-impact outcomes."

Ian Turner, Professor of Coastal Engineering, UNSW Sydney, Australia

Organisation we worked with



About SWEEP

The South West Partnership for Environmental & Economical Prosperity (SWEEP) is a partnership between the University of Exeter, the University of Plymouth, and Plymouth Marine Laboratory. Funded by the Natural Environment Research Council and stakeholders together to solve key challenges faced by those working with our natural resources. www.sweep.ac.uk



Natural
Environment
Research Council