



The Challenger Society of Marine Science

Surface Waves Special Interest Group

Online meeting 7th September 2020

Themes

The meeting will be groups by three themes. Though not mutually exclusive, we ask that you will chose to 'align' yourself with one of the three options below, for the purpose of structuring the meeting

Theme 1: Innovative technology

Be it satellite, radar, in situ field work / ship-based observations, or numerical techniques

- instrument development and the use of observations
- new developments in numerical wave models
- use of data assimilation
- innovations in laboratory work

Theme 2: Risk & Resource

Predicting and projecting wave risk, and getting the best out of wave energy. This includes

- wave energy resource and the impacts of waves on the environment.
- wave overtopping, vulnerability, and coastal flood risk
- future wave climate and sea-state forecasting
- risks to infrastructure and contribution to coastal erosion

Theme 3: Interactions

Improved understanding interactions between waves and the wider world, including

- air-sea fluxes and hydrodynamic interactions
- seabed disturbance and sediment transport
- model coupling
- wave energy device interactions
- non-linear wave physics and wave-wave interactions