

# of Science Monitoring And Reliable Telecommunications Subsea Cables for Observing the Oceans and Earth

*Tuesday, 20 June 2023 10:19 (1 minute)*

The Joint Task Force for Science Monitoring And Reliable Telecommunications (SMART) Subsea Cables is working to integrate environmental sensors (temperature, pressure, seismic acceleration) into submarine telecommunications cables. This will support climate and ocean observation, sea level monitoring, observations of Earth structure, tsunami and earthquake early warning and disaster risk reduction. We present an overview of the initiative and a description of ongoing projects, including: the InSea wet demonstration project off Sicily; the CAM ring system connecting the Portuguese mainland, Azores and Madeira (funded); progress towards installation of a cable connecting Vanuatu and New Caledonia; cable plans between islands of Indonesia; a planned cable from New Zealand to the Chatham Islands; a plan for a cable connecting Antarctica to New Zealand, and; a project to connect Europe and Japan via the northwest passage (Far North Fiber). These SMART systems are the initial steps to global implementation and will be influential in the final standards and policies that evolve. In addition to the diverse scientific and societal benefits, the telecommunications industry mission of societal connectivity will also benefit because environmental awareness improves both individual cable system integrity and the resilience of the overall global communications network.

## E-mail

bhowe@hawaii.edu

## Promotional text

SMART Cables are an example of the Blue Economy in action to help observe the oceans and Earth, leveraging the cable systems that connect our society.

## Oral preference format

in-person

**Primary author:** Dr HOWE, Bruce (University of Hawaii at Manoa)

**Presenter:** Dr HOWE, Bruce (University of Hawaii at Manoa)

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