



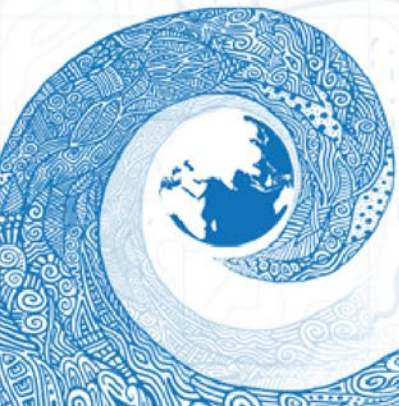
United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission

Member State Report for *Australia*

Intersessional Meeting of the ICG/IOTWMS November 2021



Activities

Australian Government

- Significant changes to emergency management laws and context at national level: An enhanced Emergency Management Australia (EMA) and a new National Recovery and Resilience Agency (NRRA) with roles at federal level to compliment existing emergency management at the state and local levels.
- Australian Climate Service (ACS) stood up to support these two federal entities for disaster response, resilience and recovery. This is the partnership between Geoscience Australia, Bureau of Meteorology, CSIRO and Bureau of Statistics to bring the Commonwealth's extensive climate and natural hazard information into a single national view and provide services at the national level.
- Fund and host the Secretariat Office of the ICG/IOTWMS at Bureau's Perth Office.

Activities

Joint Australian Tsunami Warning Centre (JATWC)

- JATWC responded effectively to the two Pacific tsunami events for Australia
- Monthly JATWC tsunami exercises between GA and the Bureau

Bureau of Meteorology

- Review and change to the tsunami operating model
- Achieved the ISO 9001 certification as a quality managed system
- Investment in IT infrastructures and applications - tsunami system uplift

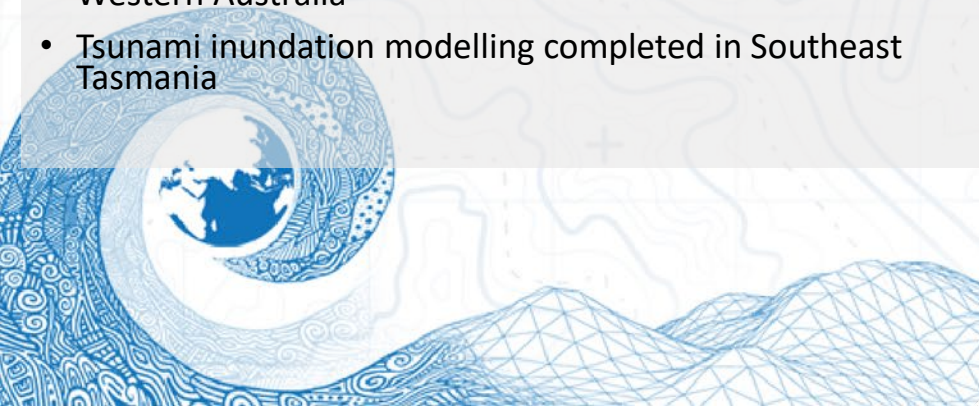
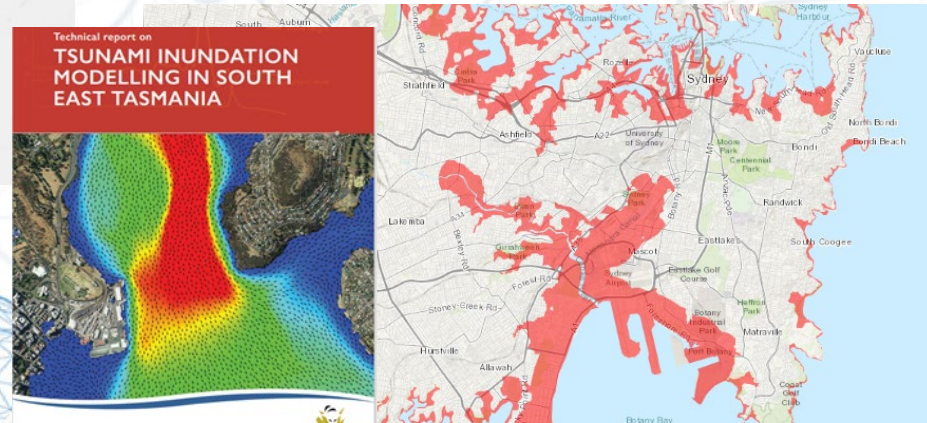
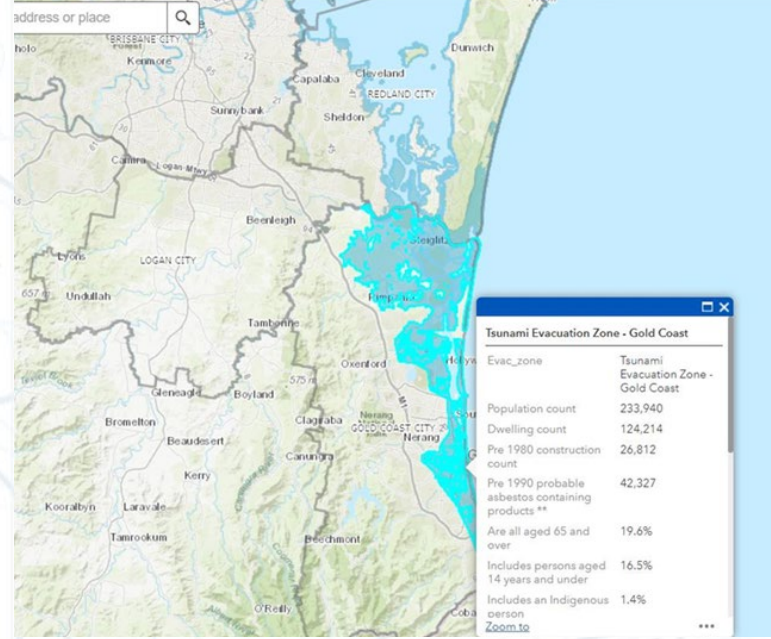
Geoscience Australia

- Commenced the development of the training and accreditation system for GA-JATWC front-line staff

Activities

State/Territory Emergency Services

- Evacuation maps published online in Queensland and New South Wales
- Gold Coast tsunami potential and impact studies underway with earthquake and submarine landslide scenarios
- QCoast2100. QLD government rated tsunami in the top ten disaster risks and funded a program to assist local councils to address climate change related coastal hazard risks. Fraser Coast expanded that to tsunami risk.
- Geoscience Australia in collaboration with the Department of Fire and Emergency Services to develop hazard maps for Western Australia
- Tsunami inundation modelling completed in Southeast Tasmania



Future Plans

- GA to integrate, test and operationalise seismic array processing as input to rapid earthquake detection and characterisation
- Bureau to uplift its tsunami warning decision support system
- Leverage off NRRRA and ACS to enhance Australian community tsunami readiness and capacity development
- Australia adopted the Australian Warning Management System to transform all warning systems into tiered systems. It calls to action.
- Use PTHA2018 scenarios to inform local risk assessment across Australia
- AusSeabed – Geoscience Australia is developing a prototype platform to enable bathymetric models based on multiple type of datasets.

Issues

- Lack of real-time seismic data sharing limiting TSP Australia's ability to respond quickly to near-field threat. Call for free data sharing
- COVID restriction delaying some DART service missions
- Tsunami awareness remains low compared with other hazards
- Ocean Decade a watch point mostly

