2nd Integrated Intersessional Meetings of ICG/IOTWMS
Meeting of Working Group 2 on
Tsunami Detection, Warning and Dissemination
INCOIS, MoES, Hyderabad - INDIA
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TSP Australia Report to WG2

Peter Coburn (BOM)
Adrienne Moseley (GA)
peter.coburn@bom.gov.au
adrienne.moseley@ga.gov.au
TSP Australia Structure

TSP Australia is operated by the JATWC (Joint Australian Tsunami Warning Centre), consisting of:

**Geoscience Australia (GA), Canberra:** Earthquake Monitoring and Alerting

**Bureau of Meteorology (BOM), Melbourne:** Sea Level Monitoring and Tsunami Warning

*JATWC staff located at Geoscience Australia (left) and Bureau of Meteorology (right)*
TSP Australia Developments since last WG2 Meeting
(Jakarta, September 2017)

GA

- May 2018 - Operationalisation of AWS/SeisComP3 system, replacing old Antelope-based system, and upgrade of Decision Support System (DSS) and public earthquakes webpage:
TSP Australia Developments since last WG2 Meeting (Jakarta, September 2017)

BOM

• May 2018 – Upgrade of tsunami Decision Support Tool (DST):
  • Latest IO Coastal Forecast Zones – expanded AOS
  • Latest Exchange Bulletin formats and addition of (REVISED) to magnitudes
  • Improved tsunami travel times
  • Separate TSP Wave Amplitude and Travel Time maps
  • Capability for issuing TSP Australia Public Bulletins
  • Harmonised TSP Threat Map – threat zones now in red:
TSP Australia Future Developments

GA

• Operationalisation of Rapid Finite Fault Inversion (FFI) from w-phase as input to [near]real-time tsunami modelling;

• Introduction of skills accreditation for JATWC duty staff (observatory seismology & JATWC SOPs)

• Commence work towards ISO 9000 accreditation for GA-JATWC systems (as input to BOM-JATWC accredited system).

BOM

• Implement TSP Australia Public Website (July-Aug 2018)

• Improved harmonisation of BOM tsunami DST system with GA Earthquake Alerting System to reduce manual intervention and elapsed time for TSP bulletin issue.

• Real-time modelling of tsunami propagation using outputs from GA Rapid FFI

• Review, in conjunction with GA, the pre-computed JATWC earthquake scenarios in the light of recent unusual earthquake events and new seismological research

• Completion of ISO 9000 accreditation for BOM-JATWC system.
Thank you

Peter Coburn (BOM)
Adrienne Moseley (GA)

peter.coburn@bom.gov.au
adrienne.moseley@ga.gov.au