

# TSP Australia Report

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# 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 & Brisbane:** Sea Level Monitoring and Tsunami Warning



*JATWC staff located at Geoscience Australia (left) and Bureau of Meteorology (right)*

# TSP Australia Recent Developments

- COVID-19 has had minimal impact on TSP Australia's continued operations and no impact on service delivery.
- JATWC commenced regular joint (GA-Bureau) operations exercises in January 2021.
- Geoscience Australia commenced operations of its training and accreditation system for GA-JATWC front-line staff in July 2022.
- The Bureau's Tsunami Warning Services, part of the JATWC, has been internationally accredited as an ISO 9001 compliant quality managed system in July 2020. With successful audits in July 2021 and July 2022.
- The Bureau implemented the Public Service Transformation Program. As part of that we now have geographic redundancy with interoperable operating centres in Brisbane and Melbourne.
- The Bureau's first 4th generation Tsunameter system (4G-STB) was successfully deployed on Sunday 27th March 2022.

# TSP Australia Recent Developments (cont.)

- GA-JATWC upgraded to SeisComP4 in August 2022
- The Bureau upgraded their tsunami Decision Support Tool (DST) in August 2021 and July 2022:
  - Automated issuing of IOTWMS EQ Bulletin from GA issued earthquake solutions.
  - Update the TSP Australia Public page to facilitate separate bulletins for multiple events
  - Extend the technique for generating products for atypical (non-seismic) events to IOTWMS products
  - Added new IOTWMS products for international maritime agencies.
  - TSP Australia services will be upgraded to match version 4 (2019) of the IOTWMS TSP Service Definition Document (new Final Bulletin message, new Cancellation message).

# TSP Australia Future Developments

- The Bureau's ROBUST Program is enhancing BOM-JATWC tsunami applications and systems to be more secure and resilient. As part of this we have a contract with gempa to replace our current tsunami Decision Support Tool with TOAST.
- GA-JATWC will upgrade to SeisComP5
- GA-JATWC will integrate, test and operationalise seismic array processing as input to rapid earthquake detection and characterisation.
- GA-JATWC will commence work towards ISO 9001:2015 accreditation for GA-JATWC systems (as input to BOM-JATWC accredited system).

# Thank you

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