

Singapore



Webinar: Lessons Learnt during Exercise IOWave 2025

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Scenarios Exercised



Sunda Trench (25 Sept)



Makran Trench (15 Oct)



Fani Maore Volcano (25 Oct)

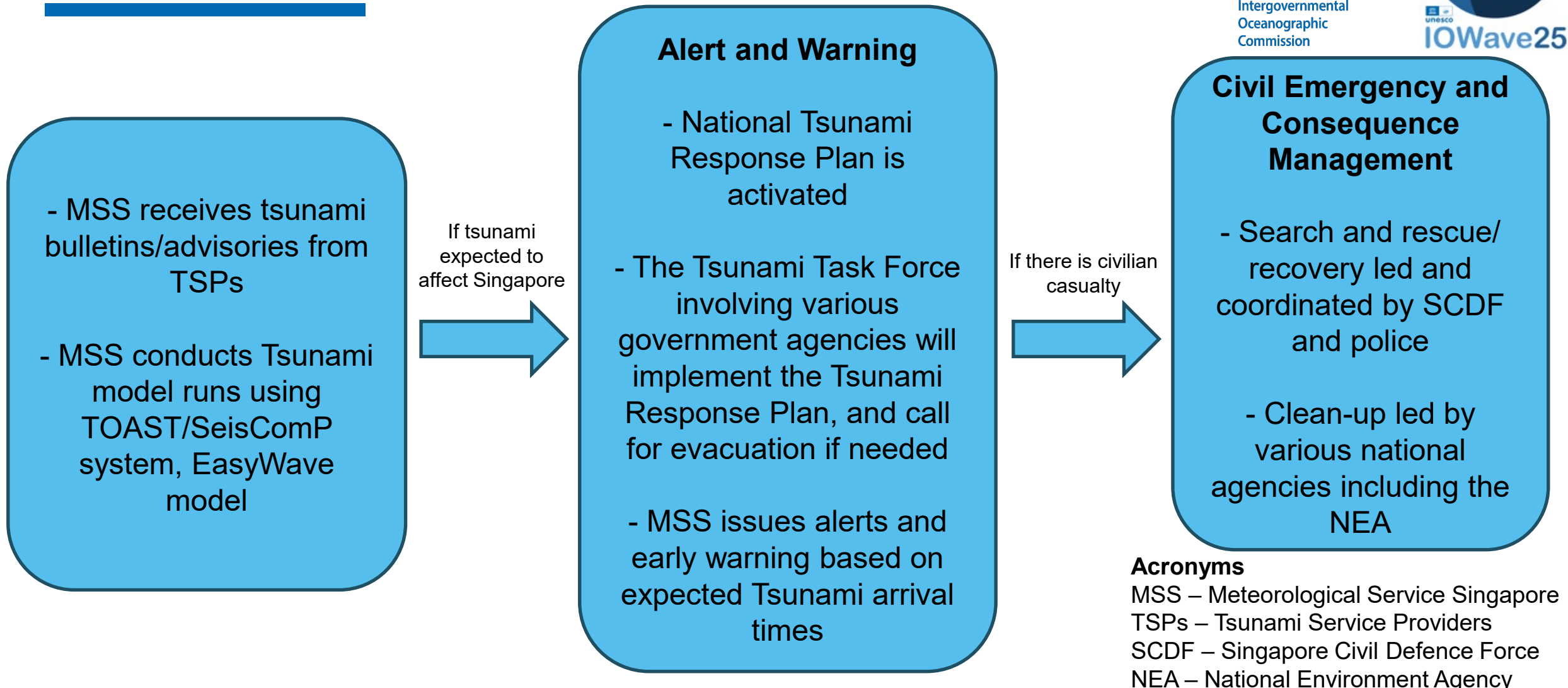


Sumatra Trench (05 Nov)



- The Meteorological Service Singapore (MSS) participated in the IOWave25 Exercise as the National Tsunami Warning Centre (NTWC)
- Only took part in the Sumatra Trench exercise as Singapore is not affected by the other scenarios
- Modelled Tsunami wave propagation for Sumatra Trench scenario provided also does not reach Singapore

National Tsunami Warning & Mitigation System



National Organisation of Exercise IOWave25



Focused on testing communication channels with the various TSPs

- No national warnings were disseminated

Monitored and recorded the time stamps of the tsunami bulletins from TSPs via SMS, Email and GDS

- Communication channels were functioning, and bulletins were received in time
- Singapore was not significantly affected by the tsunami waves in the scenario

Lessons Learnt

Benefits

- Providing valuable training for operational personnel on the different communication systems available during tsunami situations
- Helping to pinpoint weaknesses in our communication networks that need to be addressed before future tsunami incidents
- Enabling testing of system connectivity with Tsunami Service Providers for warning bulletins and alerts

Areas of improvement

- Carrying out additional research using extreme scenarios that factor in how tides and changing sea levels might affect the height of tsunami waves
- Studying the potential for tsunami waters to cause flooding in inland areas

THANK YOU