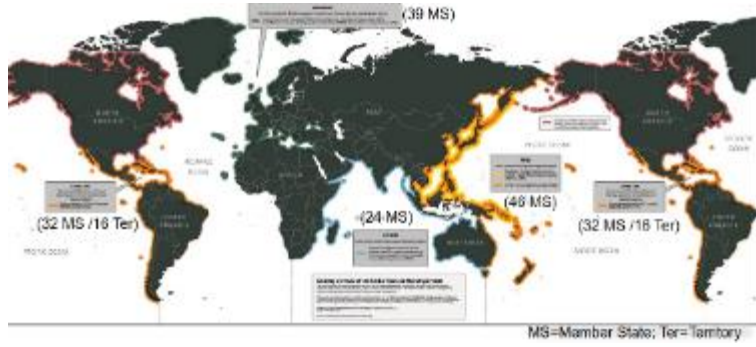




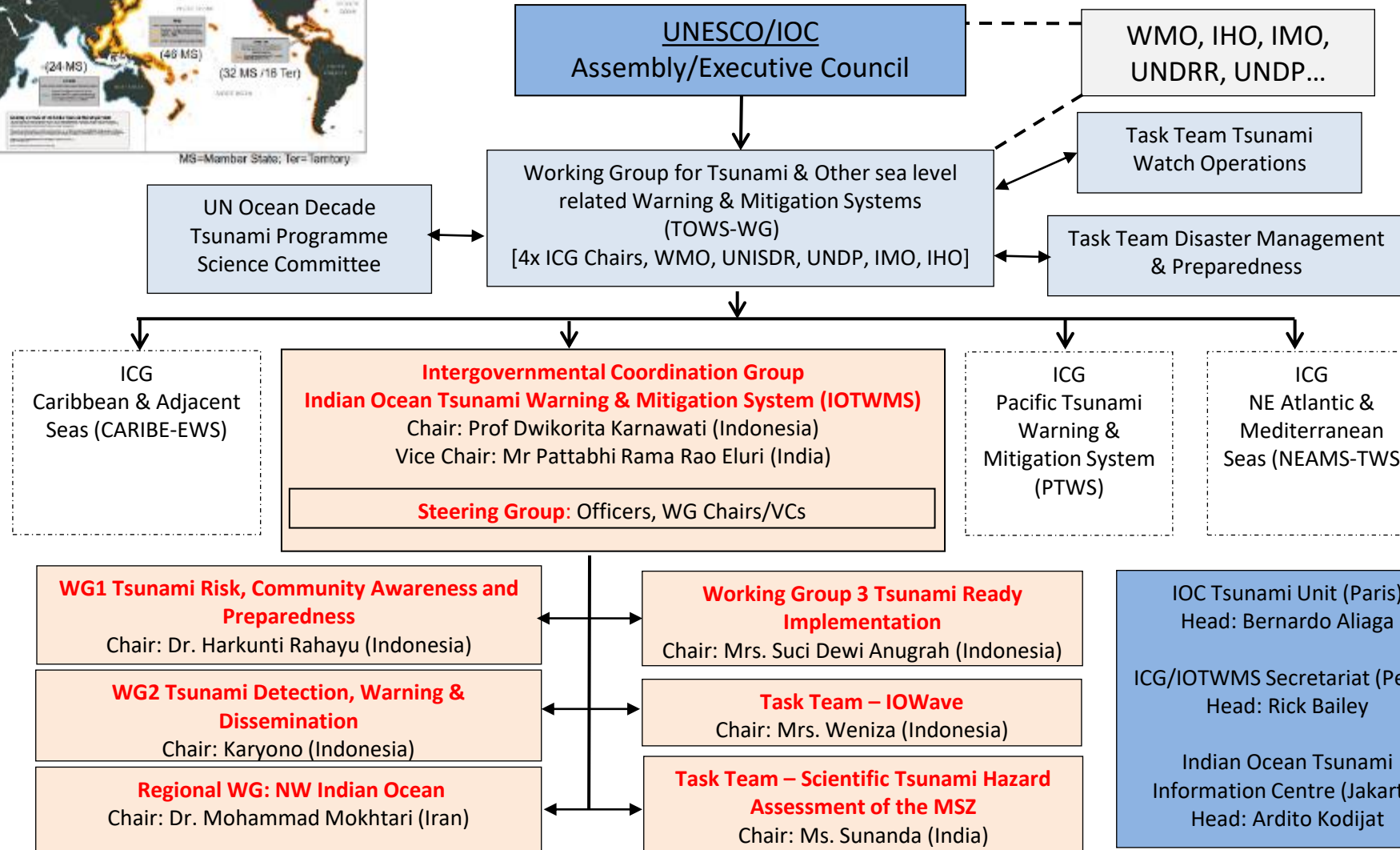
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Intergovernmental
Oceanographic
Commission

Indian Ocean Tsunami Warning & Mitigation System (IOTWMS)

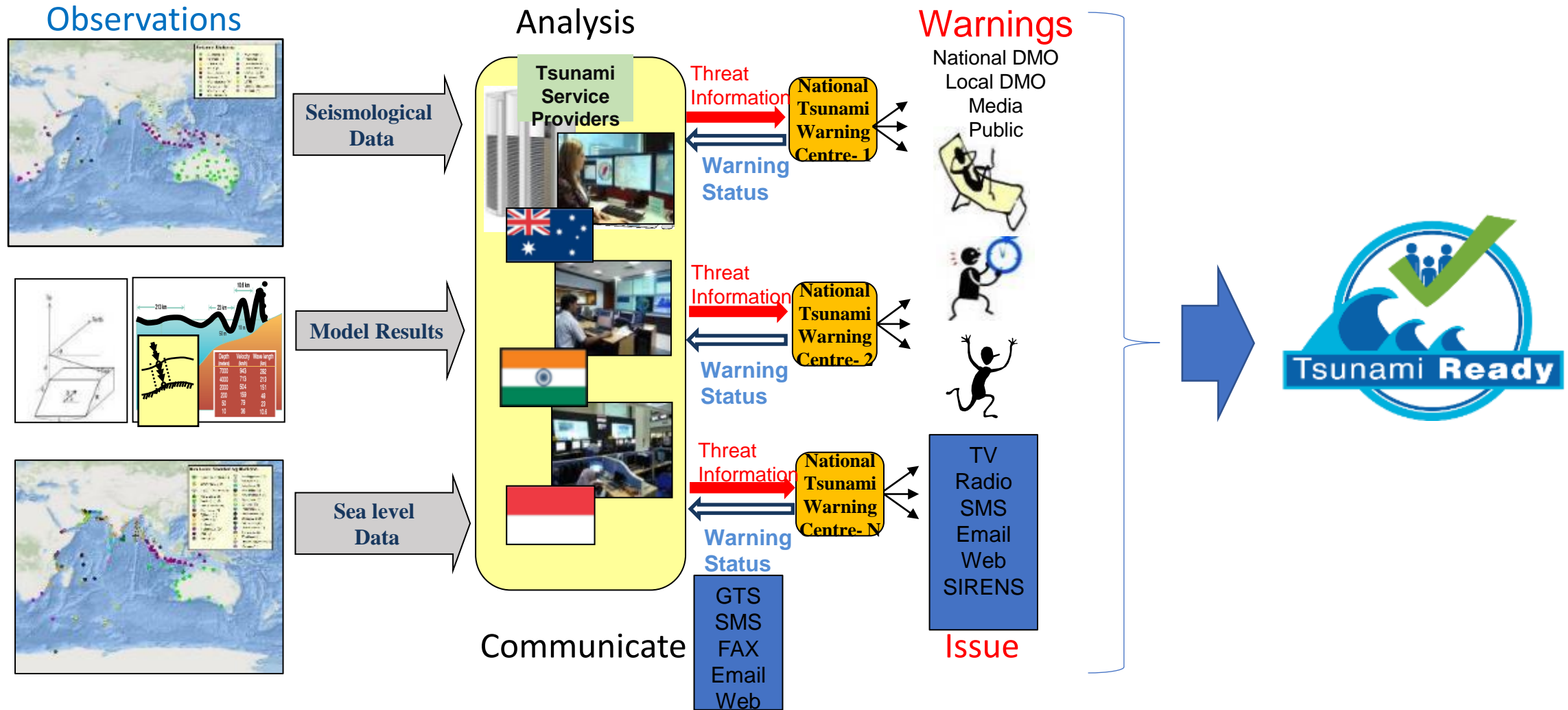


TWMS Governance



Past ICG/IOTWMS Chairs
 2017 - 2019: Dr Andi Eka Sayka (Indonesia)
 2015 - 2017: Srinivasa Kumar Tummala (India)
 2010 - 2015: Rick Bailey (Australia)
 2007 - 2010: Jan Sopaheluwakan (Indonesia)
 2005 - 2007: P. S. Goel (India)

Modus Operandum Tsunami Detection, Warning and Dissemination IOTWMS



Support for 25 IOTWMS Member States

1. Two years support (2022-2023 of USD\$310K per year) from Government of Australia, through Australian Bureau of Meteorology, to support ICG/IOTWMS Secretariat

2. Five years (2022-2027 of USD\$80K per year) from Government of Indonesia, through BMKG, to support Indian Ocean Tsunami Information Centre (IOTIC)

3. ICG/IOTWMS Secretariat and IOTIC support for meetings / workshops & related activities in online or hybrid mode.



4. UNESCAP Project “Strengthening tsunami warning in the North-West Indian Ocean through regional cooperation” Phase 1 and 2 (a&b) and 2c in 2023

5. IOTIC and IOC Secretariat supported Member States in the Implementation of IOC-UNESCO Tsunami Ready Recognition Programme

6. IOTIC and IOC Secretariat supported IOTWMS World Tsunami Awareness Day (WTAD) activities



INDIAN OCEAN TSUNAMI INFORMATION CENTRE



unesco

- UNESCO IOC Tsunami Unit
- UNESCO-IOC ICG/IOTWMS Secretariat
- UNESCO-IOC ICG/IOTWMS SG / WGs / TTs
- UNESCO-IOC TOWS Task Team for Tsunami Disaster Management and Preparedness
- UNESCO IOC Tsunami Information Centers (CTIC, ITIC, NEAMTIC)
- UNESCO-IOC Ocean Teacher Global Academy Secretariat



- BMKG Geophysics
- BMKG InaTEWS
- BMKG Training Centre (STC OTGA)

25

Working with Indian Ocean Member States
(active National Tsunami Warning Centres)

Australia
Bangladesh
Comoros
French Reunion

India
Indonesia
Iran
Kenya

Madagascar
Malaysia
Maldives
Mauritius

Mozambique
Myanmar
Oman
Pakistan

Seychelles
Singapore
South Africa
Sri Lanka

Tanzania
Thailand
Timor Leste
United Arab Emirates
Yemen



3 Working with Tsunami Service Providers

- Bureau of Meteorology (BOM) and Geoscience Australia (GA), Australia
- Indian National Centre for Ocean Information Services (INCOIS), India
- Agency for Meteorology, Climatology, and Geophysics (BMKG), Indonesia

8 Projects

(2012-2022)
IFIT (1); MFIT (1); UNESCAP (3);
Charles Englehart Foundation (1)



IOWave

6

Support Indian Ocean
Tsunami Wave Exercises
(IOWave)



iowave.org

1 IOYVC
Indian Ocean Youth
Video Competition

30 Tsunami
Ready
Posters

7 World Tsunami
Awareness Day
Videos

7 Past Tsunamis

Information preserved:

- 1945 Makran Tsunami
- 1950 Ambon Tsunami
- Central Sulawesi Tsunamis (1938, 1968, and 2018)
- 1992 Flores Tsunami
- 1994 Banyuwangi Tsunami
- 1996 Biak Tsunami
- 2000 Bangai Tsunami

319

Past Tsunamis
Eyewitness Stories

14 Tsunami Ready
Animation
Video

1 Tsunami Ready
Boardgame

9 IORW
(Webinars)

Indian Ocean Regional
Workshops

5 IOCAP
Indian Ocean Capacity
Building Training

6 IOLS

Indian Ocean Lecture
Series during COVID-19



11 Support
Tsunami Ready
communities

2 in India and 9 in Indonesia



Tsunami Ready “Community”

Community → an ecosystem of society



UNESCO/IOC Tsunami Ready Indicators

TSUNAMI READY INDICATORS

I ASSESSMENT (ASSESS)

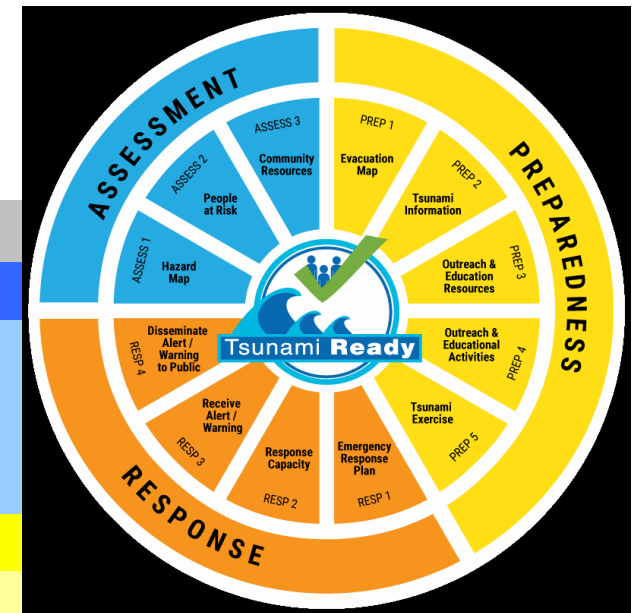
- 1 **ASSESS-1.** Tsunami hazard zones are mapped and designated
- 2 **ASSESS-2.** The number of people at risk in the tsunami hazard zone is estimated
- 3 **ASSESS-3.** Economic, infrastructural, political, and social resources are identified

II PREPAREDNESS (PREP)

- 4 **PREP-1.** Easily understood tsunami evacuation maps are approved.
- 5 **PREP-2.** Tsunami information including signage is publicly displayed.
- 6 **PREP-3.** Outreach and public awareness and education resources are available and distributed.
- 7 **PREP-4.** Outreach or educational activities are held at least 3 times a year.
- 8 **PREP-5:** A community tsunami exercise is conducted at least every two years

III RESPONSE (RESP)

- 9 **RESP-1.** A community tsunami emergency response plan is approved.
- 10 **RESP-2.** The capacity to manage emergency response operations during a tsunami is in place.
- 11 **RESP-3.** Redundant and reliable means to timely receive 24-hour official tsunami alerts are in place.
- 12 **RESP-4.** Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public are in place.



TSUNAMI READY RECOGNITION IN THE INDIAN OCEAN



Tsunami Ready Communities

A



- Nolasahi
- Venkatraipur
- Tanjung Benoa
- Tambakrejo
- Kemadang
- Glagah
- Pangandaran
- Panggarangan
- Kuta Mandalika
- Purus
- Lolong Belanti



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UNESCO-IOC Indian Ocean Tsunami Information Centre
IOTIC-BMKG Programme Office

Disaster Risk Reduction and Tsunami Information Unit
UNESCO Jakarta Office

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