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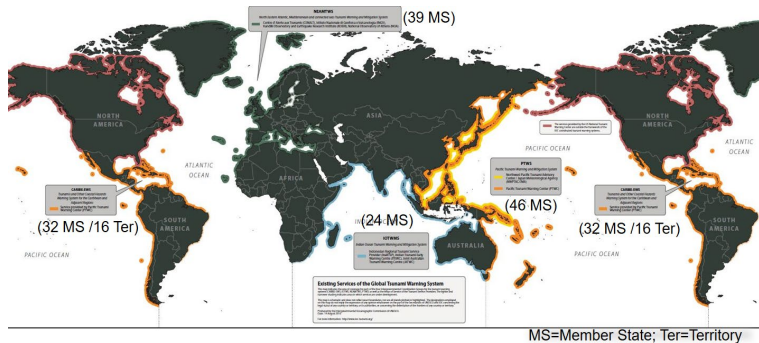
**Secretariat Report to
Inter-sessional Meeting of the
Intergovernmental Coordination Group
for Indian Ocean Tsunami Warning &
Mitigation System (ICG/IOTWMS)**

23 – 24 November 2021

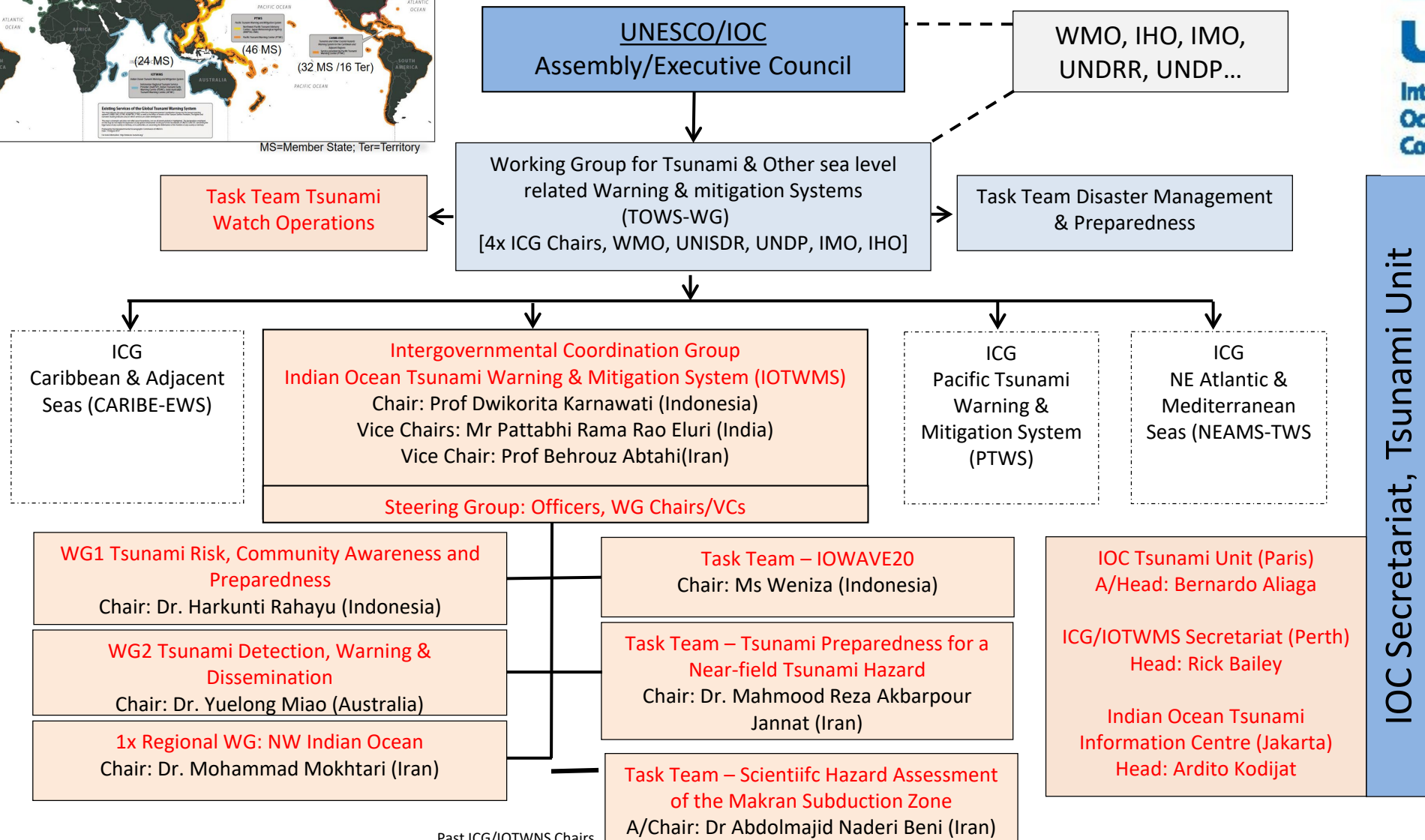
**Rick Bailey
Head of Secretariat
IOC-UNESCO ICG/IOTWMS**

ICG/IOTWMS Secretariat

- **Established in August 2005**
- Primarily based in Perth, Australia
- **Funded by Australia** since 2005 (AUD\$420,000/year)
- **Head of Secretariat – Rick Bailey**
- **Programme Specialist – Nora Gale**
- **Roles:**
 - **Part of the IOC Tsunami Unit**
 - **Supports and coordinates activities of ICG/IOTMWS**
 - **Assists with strategic planning**
 - **Manages TNC and TWFP formal registration**
 - **Works in close collaboration with Indian Ocean Tsunami Information Centre (IOTIC) on community education and capacity building**
 - **Provides online survey capability**
 - **Runs training programmes**
 - **Helps promote tsunami awareness (eg WTAD)**
 - **Manages externally funded projects**



Governance



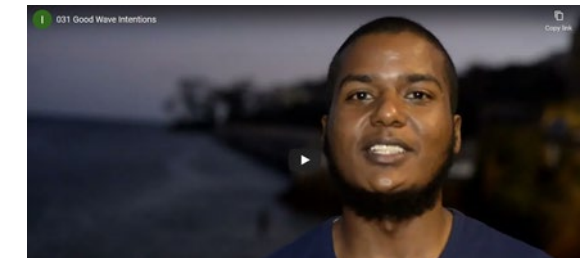
Past ICG/IOTWMS Chairs
 2017 - 2019: Dr Andi Eka Sayka (Indonesia)
 2015 – 2017: Srinivasa Kumar Tummala (India)
 2010 – 2015: Rick Bailey (Australia)
 2007 – 2010: Jan Sopaheluwakan (Indonesia)
 2005 – 2007: P. S. Goel (India)

Secretariat Achievements in 2021

- **Supported ICG related meetings** of Steering Group, WG1, WG2, WG-NWIO, TT IOWAVE 20, TT Scientific Tsunami Hazard Assessment of MSZ
- **Supported TOWS-WG** and its Task Team on Tsunami Watch Operations
- **Supported six workshops of the UNESCAP Project** in NWIO
- **Supported IOTIC** in development of 14 Tsunami Ready short animation videos
- **Supported IOC Exec Secretary** at UNESCO Board Meeting and UNESCO General Conference with regards to IOC Tsunami Programme
- **Regular status reports** to Australian Bureau of Meteorology and UNESCAP
- **Supported online surveys** for IOWAVE 2020 and COVID preparedness

Secretariat Achievements in 2021

- **International Disaster Risk Reduction Day (IDRR) 13 Oct 21**
 - Sri Lankan national event: “COVID-19 and systemic risks”
- **World Tsunami Awareness Day (WTD) 5 Nov 2021**
 - Contributed to planning between IOC TSU and UNDRR
 - UNDRR, UNESCO, UNESCAP, UNDP Event: International Cooperation on Tsunamis in Asia-Pacific
 - Sri Lankan national event: “ Learn, Share, Actions Amidst COVID-19 Pandemic”
 - International Cooperation: A Strategic Pathway for the Indian Ocean Tsunami Warning and Mitigation System within the Context of UN Decade for Ocean Science, including youth video competition on tsunami awareness
 - WTAD 2021: Leveraging the Power of Science and Technology to Reduce Tsunami Risk for Current and Future Generations



Letter to Dr Vladimir Ryabinin, Exec sec IOC, from Ms Mami Mizutori, UN Special Representative of the Secretary-General for Disaster Risk Reduction:

“The UNDRR New York Liaison Office has received very positive feedback on your compelling message on the basic principle on tsunami awareness which reached a wide network across social media platforms”.



Secretariat Achievements in 2021

- With IOTIC managed UNESCAP project “Strengthening Tsunami Warning in the North-West Indian Ocean through Regional Cooperation”

PROJECT GOAL: Timely delivery of national tsunami warnings to at-risk coastal communities who are prepared to respond effectively (Tsunami Ready)

Phase 1: Hazard and risk assessment

National tsunami warning chain development

**Phase 2: Inundation and evacuation mapping
capacity development**

Phase 3: At-risk coastal community preparedness

Phase 1 completed 30 Oct21 (24 months)

Phase 2 approved 5 Nov21 and to start 20 Dec21 (24 months)

Phase 3 proposal to be submitted towards end Phase 2

SECRETARIAT OBJECTIVE: Use procedures and outcomes and lessons learnt from this project and apply to benefit of all MS in the Indian Ocean



Secretariat Goals for 2022

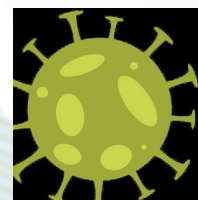
- **Continue to improve coordination and communication** across all activities of the ICG/IOTWMS
- **Continue to coordinate and support the work plans** of the WGs and TTs leading into ICG/IOTWMS XIII in May 2022
- **Continue to work with IOTIC to enhance community awareness** of tsunami risk
- **Continue to work with IOTIC to help develop the capacity of Member States**
- **Translate the outcomes of projects** like the UNESCAP project in NWIO **into outcomes for all Member States**
- **Work in collaboration with other organisations** like UNDRR, UNDP and WMO **to achieve common goals**
- **Assist and seek opportunities** for the ICG/IOTWMS and the IOC UNDOS Tsunami Programme **to meet the goal of more timely and more accurate tsunami warnings to 100% of at-risk coastal communities being Tsunami Ready**



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The Pathway



**10 years time:
More timely warnings
with reduced
uncertainties delivered
to 100% at-risk Tsunami
Ready communities**

Challenges along the route

- Maintaining sustainable funding, either for maintaining existing and implementing new observing systems, or for R&D on supporting the effort in implementing new technologies;
- Changes in government can result in loss of momentum
- COVID-19
- Supporting SIDS and LDCs
- Achieving 100% at-risk communities Tsunami Ready

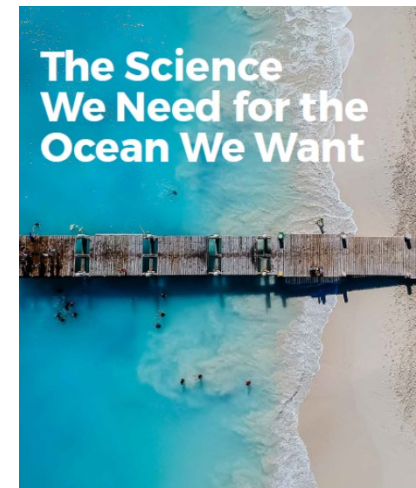
Today

Challenges along the route

- Lack of active and consistent engagement of all relevant organizations nationally.
- Working in Silos (Upstream and Downstream).
- Establishing and maintaining effective national working chains
- Multi-hazard Vs Combination of Single Hazards
DRR → integration of single hazards into multi-hazard framework → deliver community education in context of multi-hazard
- Maintaining commitment and awareness for low risk - high consequence hazard from penta-helix/multi entity (government, community, business entities, academia, broadcast media)



Opportunities



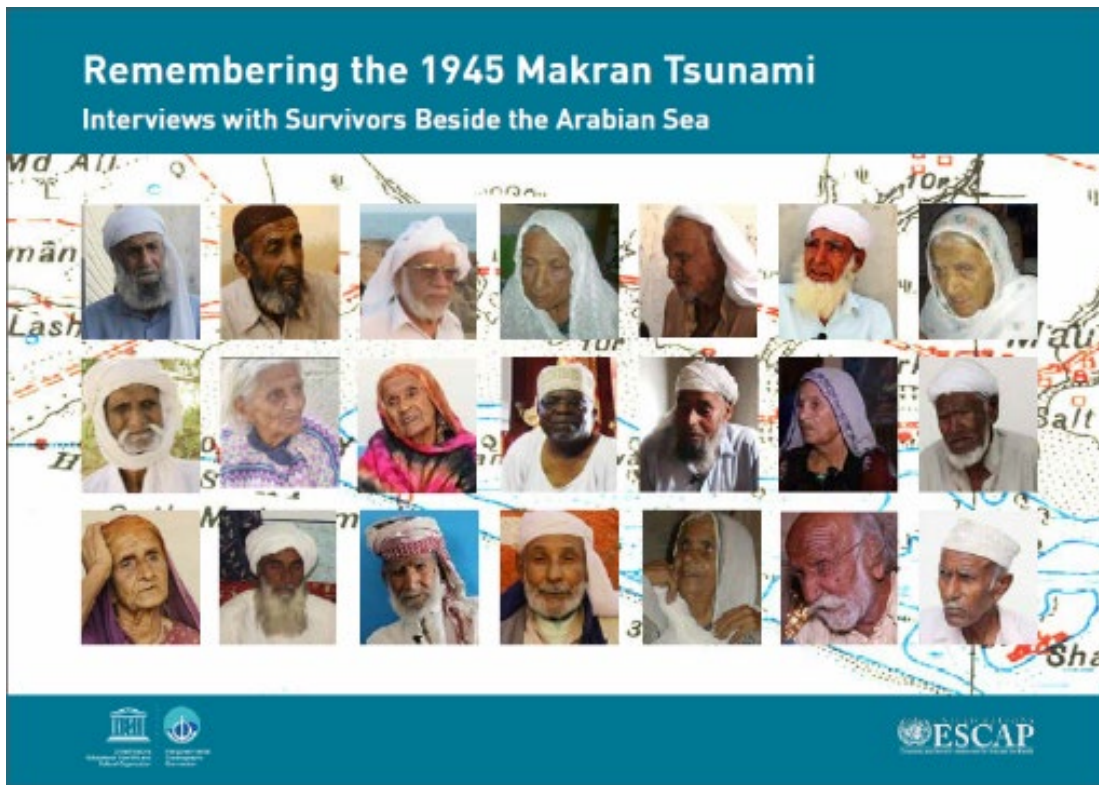
The United Nations
Decade of Ocean Science
for Sustainable Development
(2021-2030)



- **UN Ocean Decade 2021 – 2030** Tsunami Programme.. includes Science Plan to be developed by TOWS-WG
- Development of Multi-hazard Framework by **WMO**
- Working closer with **UNDRR, UNDP, ...**
- Utilising the expertise of **other international activities**, such as: Kyoto Landslide Commitment 2020, Augmenting Tsunami Monitoring Steering Committee, Joint Task Force Scientific Monitoring And Reliable Telecommunications (SMART) cables, German Tsunami Risk Project, UNESCAP Project Strengthening Tsunami Warning in the North-West Indian Ocean through Regional Cooperation
- **Lessons to be Learnt** from past and future tsunami events



National, Regional, & Global Commitment



- **National operational and R&D funding**
- Support for IOC-UNESCO Indian Ocean tsunami Information Centre (**IOTIC**) by Indonesia
- Support for IOC-UNESCO **ICG/IOTWMS Secretariat** by Australia
- Support and provision of tsunami threat information to Member States Tsunami Service Providers (**TSPs**) by Australia, India, Indonesia.
- Support of capacity building in community preparedness, such Japan's support for schools programme being developed by **UNDP**
- The UN Economic and Social Commission for Asia and the Pacific (**ESCAP**) funding of capacity building, such as in North-West Indian Ocean region
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