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**Intergovernmental
Oceanographic
Commission**

**ICG/IOTWMS
INDIAN OCEAN
MEMBER STATE
PREPARATORY MEETINGs
STANDARD OPERATING PROCEDURE
(SOP) WORKSHOP**

Rick Bailey
Head of Secretariat for ICG/IOTWMS
01 June 2023

Preparatory Meeting Agenda

Time	Agenda Item (Speaker/Lead)
0900 – 0910 UTC	<p>1. Opening</p> <p>Welcome remarks and objectives of the meeting</p> <p>Mr. Rick Bailey (Head of UNESCO-IOC ICG/IOTWMS Secretariat)</p>
0910 – 0930 UTC	<p>2. Information on upcoming SOP Training</p> <p>Mr. Rick Bailey (Head of UNESCO-IOC ICG/IOTWMS Secretariat)</p>
0930 – 1100 UTC	<p>3. Review on Tsunami National Warning Chains</p> <p>National representatives provide feedback on latest national tsunami warning chain, using graphic in provided template</p> <p>(Member States)</p> <p>Feedback remarks on Tsunami National Warning chains</p> <p>Mr. Harald Spahn (UNESCO-IOC Consultant)</p> <p>Follow-up process</p> <p>Process to facilitate any further updates to national tsunami warning chains to be undertaken prior to the SOP Training</p> <p>Mr. Rick Bailey (Head of ICG/IOTWMS Secretariat)</p>
1100 – 1115 UTC	<p>4. Briefing on IOTWMS Comms Test in June 2023</p> <p>Ms. Nora Gale (UNESCO-IOC ICG/IOTWMS Secretariat)</p>
1115 – 1130 UTC	<p>5. Briefing on IOWave23</p> <p>Ms. Weniza (Chair ICG/IOTWMS Task Team Exercise IOWave23)</p>
1130 UTC	<p>6. Summary and Closing remarks</p> <p>Mr. Rick Bailey (Head of UNESCO-IOC ICG/IOTWMS Secretariat)</p>

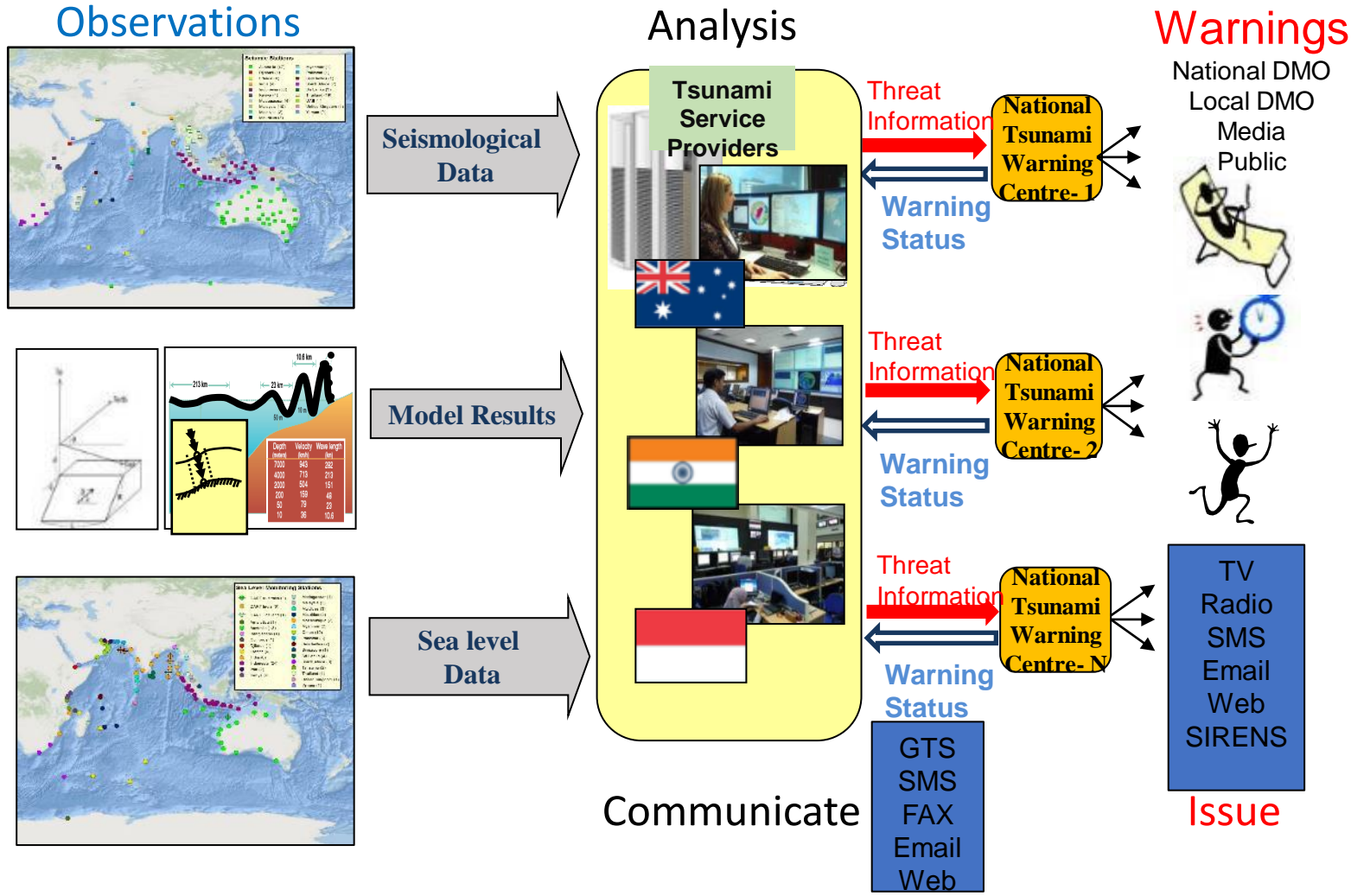
IOTWMS tsunami detection, warning and dissemination

SOVEREIGNTY WARNING PRINCIPLE

- Seismic and sea level information for the entire Indian Ocean basin and tsunami forecast computer models are used by the designated **Tsunami Service Providers (TSPs)** (Australia, India, Indonesia) to **provide interoperable tsunami threat information** to **National Tsunami Warning Centres (NTWCs)** established in each country.
- NTWCs who analyse the information and have the authority to **issue sovereign national warnings** through **national tsunami warning chains** to their **Disaster Management Authorities (DMOs)** and **at-risk communities**
- UN Early Warnings for All (**EWS4ALL**) by 2027 initiative

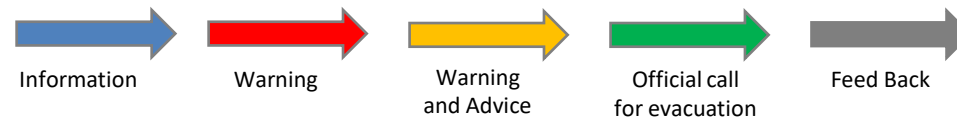
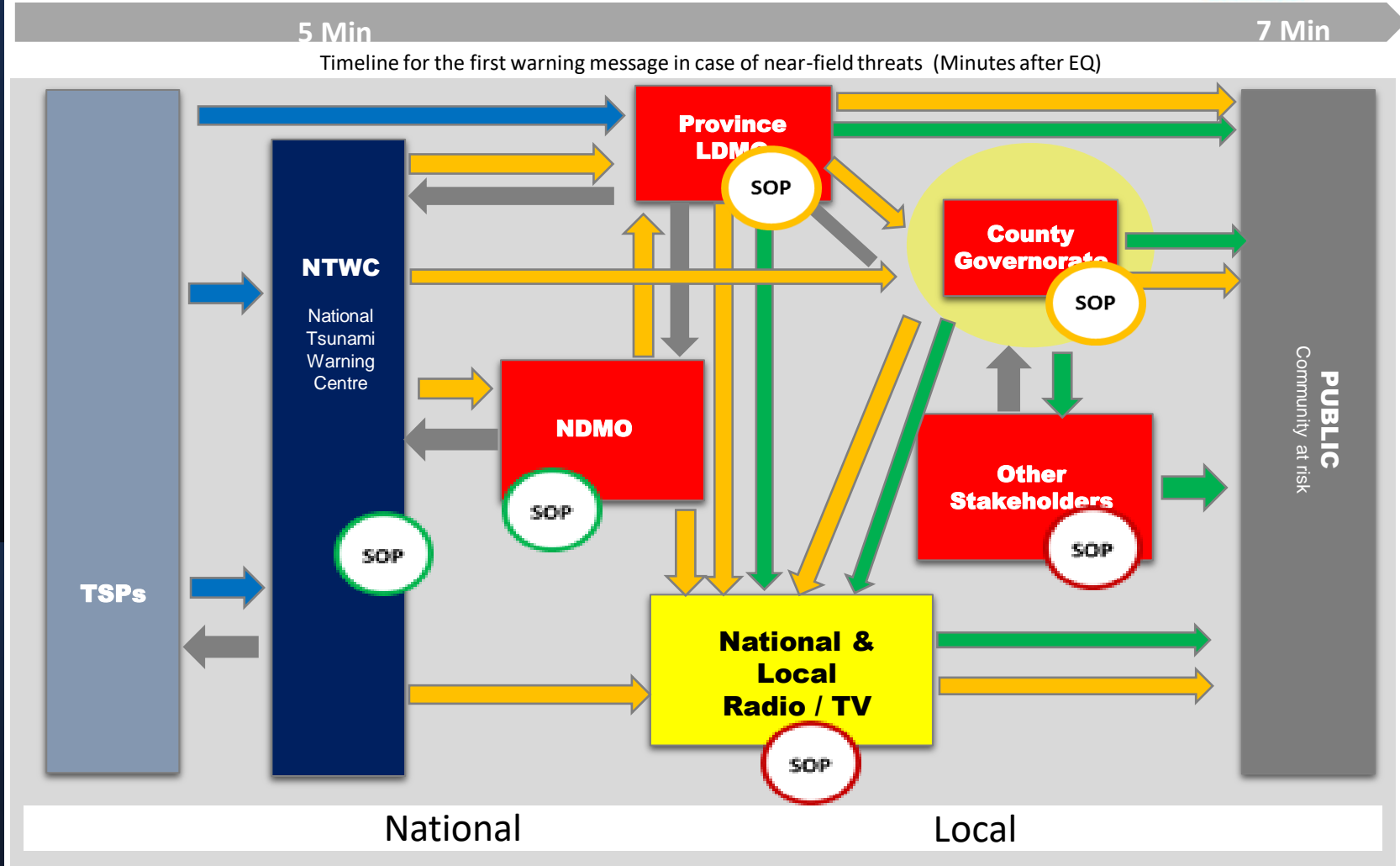
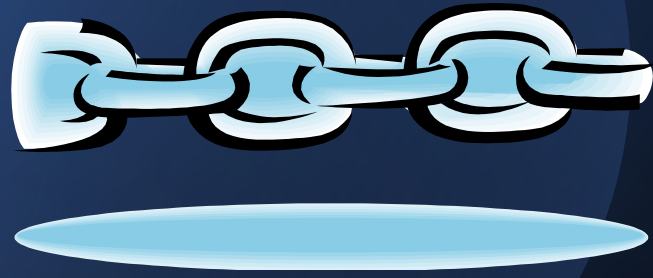


IOTWMS tsunami detection, warning and dissemination



ICG/IOTWMS
RTSP Task Team

National Tsunami Warning Chain focus





SOP Training Workshops in IOTWMS

- Began in 2011 to provide training to Member States in new IOTWMS TSP products launched after IOWAVE 2011 Exercise
- Undertaken almost every year since
- Initially for NTCs, now include DMOs and media
- Initially in-person workshops
- Now hybrid workshops to facilitate wider participation



SOP Training Workshops in 2023



3rd – 6th July: Hybrid Western Indian Ocean SOP Training Workshop

10th – 13th July: Hybrid Eastern Indian Ocean SOP Training Workshop

17th – 19th July: Hybrid North-West Indian Ocean SOP Training Workshop

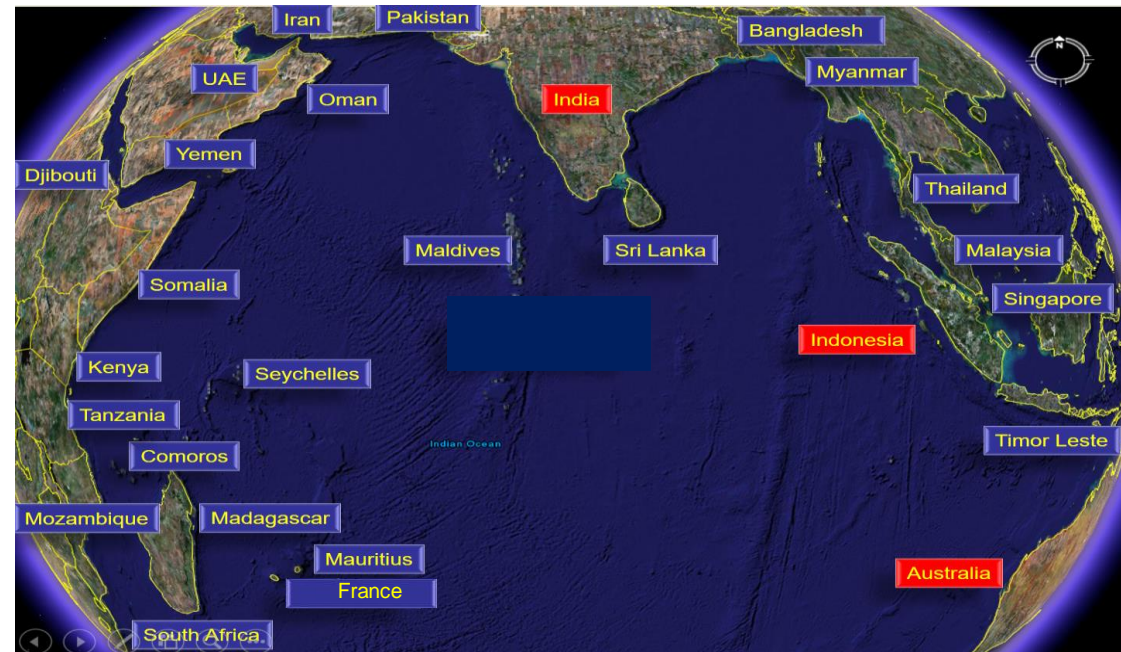
16th August: Workshop for Broadcast Media on Role In National Tsunami Warning Chains

4th, 11th, 18th, and 25th October 2023: Exercise IOWave23

UNESCO-IOC ICG/IOTWMS Member States



- a) **Western Indian Ocean:** Comoros, Djibouti, France Indian Ocean Territories, Kenya, Madagascar, Mauritius, Mozambique, Seychelles, Somalia, South Africa, and Tanzania
- b) **North-Western Indian Ocean:** India, Iran, Oman, Pakistan, United Arab Emirates, Yemen
- c) **Eastern Indian Ocean:** Australia, Bangladesh, Indonesia, Malaysia, Maldives, Myanmar, Singapore, Sri Lanka, Thailand, and Timor-Leste



Preparatory Meeting Objectives

- a) Share information on upcoming SOP Training Workshops for Member States and required preparations
- b) Review status of national tsunami warning chains and provide feedback to Member States
- c) Provide a briefing on IOTWMS Comms Test in June 2023
- d) Provide a briefing on Exercise IOWave23 in October 2023

Upcoming SOP Workshop Format

- a) 4 days
- b) Hybrid, with three days with regional focus online and one day with national focus in-person/online
- c) Need as many NTWC, NDMO, PDMO, LDMO reps as possible participating

SOP Workshop Format

Day #1 Regional	Day #2 Regional	Day #3 National	Day #4 Regional
Overview of warning chains and SOP needs and roles	Structure and timeline driven nature of SOPs	In-person or hybrid national workshop format	Member States report back on national workshop outcomes
<p>Breakout Session NTWCs:</p> <ul style="list-style-type: none"> ▪ Training on TSP products, including new non-seismic tsunami product ▪ IOWave23 scenarios <p>Breakout Session DMOs:</p> <ul style="list-style-type: none"> ▪ Capacity Assessment preparedness ▪ Tsunami Ready objectives ▪ IOWave23 scenarios 	<p>Breakout Session NTWCs:</p> <ul style="list-style-type: none"> ▪ Warning Centre SOPs ▪ Using TSP products <p>Breakout Session DMOs:</p> <ul style="list-style-type: none"> ▪ Critical issues along the warning chain for community response ▪ Example SOPs ▪ Discussion on decision making challenges – evacuation and all clear calls 	<ul style="list-style-type: none"> ▪ Discuss findings and learnings Days 1-2 ▪ Review and enhance national warning chains ▪ Discuss issues and challenges ▪ Develop plans to ensure national warning chains and SOPs in place for IOWave23 and any future real tsunami events 	<ul style="list-style-type: none"> • Discussions on identified joint challenges • Broadcast Media SOP workshop plans • How to plan, conduct and evaluate exercises in preparation for Exercise IOWave23

Thank you!

