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Intergovernmental
Oceanographic
Commission

Report of The Indian Ocean Tsunami Information Centre

ICG/IOTWMS SG Meeting
5-6 February 2023

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IOTIC Term of Reference (2022)

IOTIC's Roles

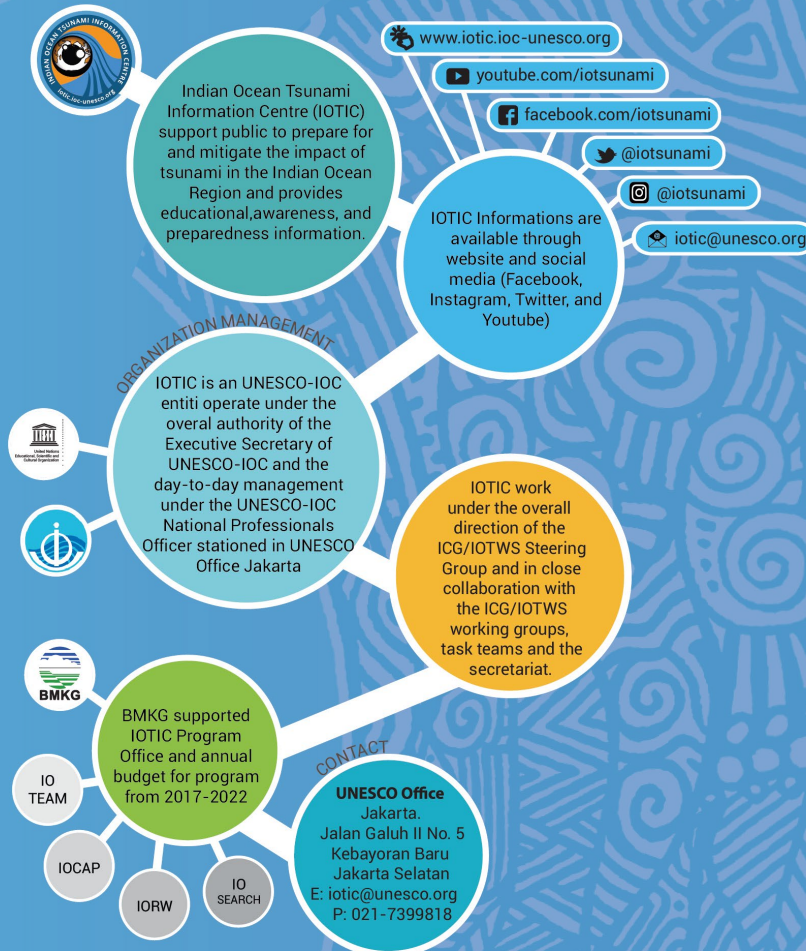
Work with the Tsunami Service Providers (TSPs), the National Tsunami Warning Centres (NTWCs), and the National **Disaster Management Offices (NDMOs)** in the Indian Ocean Region to promote and sensitize information on tsunami early warning system and the understanding of the warning process and products.

Supports Indian Ocean member states at national and community level to strengthen awareness and **preparedness for an effective emergency response** to a tsunami early warning system through i.e UNESCO IOC Tsunami Ready.

Capacity building and develop education, awareness, and preparedness materials for an **effective tsunami early warning and Mitigation** System.

Manage post-event performance surveys and compilation of reports in close collaboration with the ICG/IOTWS Secretariat under the overall direction of the ICG/IOTWS Steering Group, assisted by teams of experts nominated by the ICG/IOTWS Steering Group as required.

Coordinate activities, exchange materials and information with other Tsunami Information Centres (TICs) from other ocean basins.



IO TEAM : Indian Ocean Tsunami Education and Awareness Materials
 IOCAP : Indian Ocean Capacity Building Programme
 IORW : Indian Ocean Regional Workshop
 IO SEARCH : Indian Ocean Study/Research

- Strengthening the Indian Ocean (national and regional) tsunami disaster risk reduction and emergency response capacity for an effective tsunami early warning system,
- Supporting preparedness against tsunamis of at-risk communities, especially through Member States' implementation of UNESCO-IOC Tsunami Ready Recognition Programme (TRRP).
- Providing resources in tsunami risk reduction, educational, awareness, and preparedness for the Indian Ocean region.

IOTIC Achievement in a Flash (~ 2023)



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



BMKG

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



25 Work with Indian Ocean Member States (Active IOTWMS Member States)

- | | | | | | |
|----------------|-----------|------------|------------|--------------|----------------------|
| Australia | India | Madagascar | Mozambique | Seychelles | Tanzania |
| Bangladesh | Indonesia | Malaysia | Myanmar | Singapore | Thailand |
| Comoros | Iran | Maldives | Oman | South Africa | Timor Leste |
| French Reunion | Kenya | Mauritius | Pakistan | Sri Lanka | United Arab Emirates |
| | | | | | Yemen |



3 Work with Tsunami Service Providers

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

7 Projects (2012-2020)

IFIT (1); MFIT (1); UNESCAP (5); Charles Englehart Foundation (1)



IOWave



Support Indian Ocean Tsunami Wave Exercises (IOWave)

- 2009
- 2011
- 2014
- 2016
- 2018
- 2020
- 2023

8 Past Tsunamis

Information preserved

- 1945 Makran Tsunami
- 1950 Ambon Tsunami
- Central Sulawesi Tsunamis (1938, 1968, and 2018)
- 1992 Flores Tsunami
- 1994 Banyuwangi Tsunami
- 1995 Dili Tsunami, Timor-Leste
- 1996 Biak Tsunami
- 2000 Banggai Tsunami (On Going)

356

Past Tsunamis Eyewitness Stories

10 IORW (Webinars)

(2017-2021) Indian Ocean Regional Workshop and WTAD



12 Facilitate and support Tsunami Ready Community

2 communities in India and 10 communities in Indonesia recognized at UNESCO-IOC Tsunami Ready Community

3 IOCAP

(2017-2023) Indian Ocean Capacity Building Training

2 IOLS

(2020-2023) Indian Ocean Lecture Series during COVID-19 and Tsunami Ready

2 NTRT

National Tsunami Ready Training (2023)

1 IOYVC

Indian Ocean Youth Video Competition (2021)

3 Tsunami Ready Communication Tools

- 1 TR Boardgame
- 21 TR E-Posters
- 14 Short Animation Videos



Summary of Achievements (2023)



1. UNESCO-IOC and BMKG Partnership Agreement

UNESCO-IOC and BMKG Partnership Agreement Renewed (2023-2027)

“Support IOMS through IOTIC Programme: IOTIC-BMKG”



23 June 2023

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Commission

BMKG

**Indian Ocean Tsunami
Information Centre (IOTIC)**

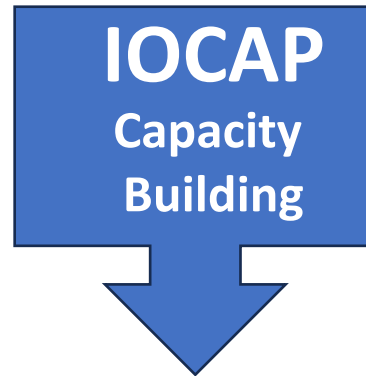
UNESCO IOC - BMKG Programme

Summary of Achievements (2023)

1. UNESCO-IOC and BMKG Partnership Agreement

IOTIC-BMKG Programmes (2023-2027)

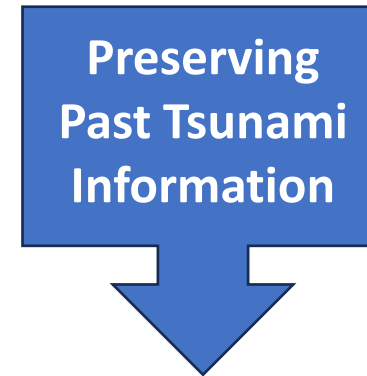
Support Indian Ocean Member States Regionally and Nationally



- TEMPP
- NTRT
- IOTIC Lecture Series



- Workshops
- Webinars
- WTAD



- 1945 Makran Tsunami
- 1950 Ambon Tsunami
- Central Sulawesi Tsunamis (1938, 1968, and 2018)
- 1992 Flores Tsunami
- 1994 Banyuwangi Tsunami
- 1995 Dili Tsunami, Timor-Leste
- 1996 Biak Tsunami
- 2000 Banggai Tsunami
- 2004 Indian Ocean Tsunami



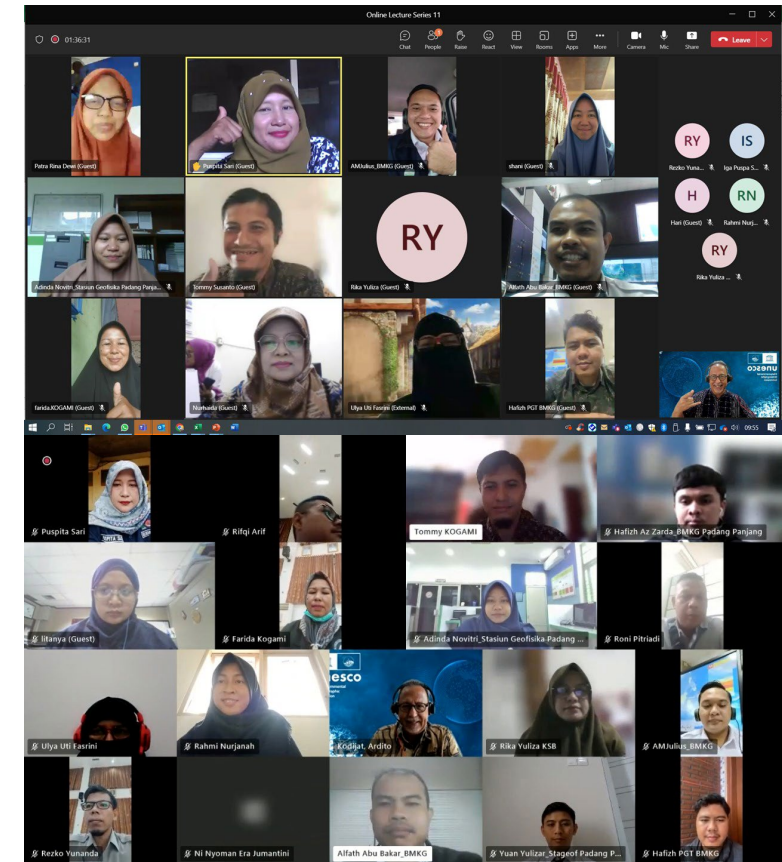
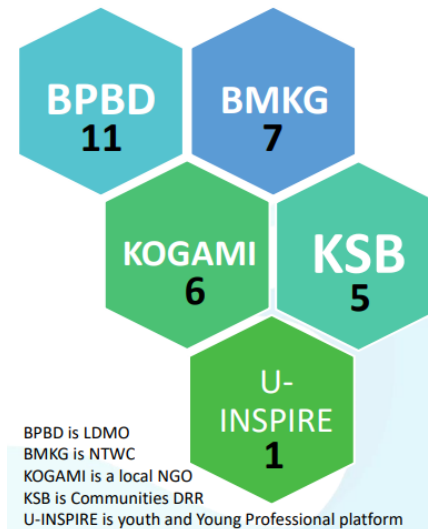
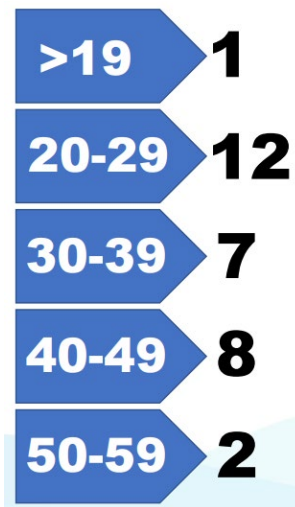
- Booklets.
- Posters
- Boardgame
- Youth engagement

2. Tsunami Ready

Tsunami Ready Training for Facilitators in Indonesia

(February 2023 - Online)

- Online sessions: 11 lecture meetings (10 January - 24 February 2023).
- Every Tuesday and Friday at 08:30 - 10:30 (2 hours).
- Training in Bahasa Indonesia, materials in English.
- Quizzes and work assignment after every meeting/lectures



National Tsunami Ready Training in Timor-Leste

(July 2023)

- Jointly with Chair of WG-3
- 36 Participants from Timor-Leste Civil Protection Agency, Ministries Representatives, NGO, and UN agencies.
- 2 Days training on Introduction to Tsunami Ready
- Interest to implement Tsunami Ready in villages in Dili. Follow ups:
 - Adapting NTRB function to existing disaster coordination mechanism
 - Identifying Tsunami Ready Community for implementation
- Need external technical and expertise support
 - Indicator 1: Development of Hazard Map
 - Indicator 4: Development of Evacuation Map, Plans, and Procedures
 - Indicator 5: Tsunami Signages
 - Indicator 8: Planning Exercise
 - Indicator 9: Tsunami Emergency Response – SOP
 - Indicator 10 – 11: Receiving and Disseminating Warning

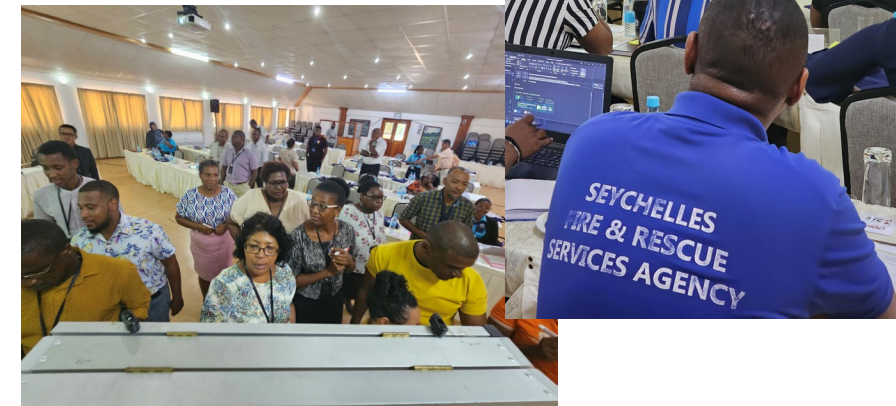


2. Tsunami Ready

National Tsunami Ready Training in Seychelles

(November 2023)

- Jointly with Chair of WG-3
- 40 Participants from Seychelles DRMD, Local Government and Communities, Other Ministries and Agencies,
- 3 Days training on Introduction to Tsunami Ready
- Interest to implement Tsunami Ready in villages in Dili. Follow ups:
 - Adapting NTRB function to existing disaster coordination mechanism
 - Identifying Tsunami Ready Community for implementation
- Need external technical and expertise support
 - Indicator 1: Development of Hazard Map
 - Indicator 4: Development of Evacuation Map, Plans, and Procedures
 - Indicator 5: Tsunami Signages
 - Indicator 9: Tsunami Emergency Response – SOP
 - Indicator 10 – 11: Receiving and Disseminating Warning



<https://www.youtube.com/watch?v=t0SCOU7oEzY&t=8s>

<https://www.youtube.com/watch?v=3VBPDhI8sWk&t=17s>

https://twitter.com/UNDRR_Africa/status/1749306531487588612

2. Tsunami Ready

Field Verification Nagari Tapakih in Indonesia

(September 2023)

- Nagari Tapakih received National Tsunami Ready Recognition.
- Requested IOTIC for Field Verification
- Field Verification recommendation for improvement of the 12 indicators.
- In west Sumatera, IOTIC worked with KOGAMI (local NGO since 2006) for the community preparedness capacity development based on the 12 Indicators.
- KOGAMI and BMKG Office of Padang Panjang in cooperation with BPBD conducted 3 months capacity development.
- December 2023 Nagari Tapakih Community requested for UNESCO-IOC Tsunami Ready Recognition.
- 20 December 2023 Nagari Tapakih Received UNESCO-IOC Tsunami Ready Recognition.



2. Tsunami Ready

Tsunami Ready in Indian Ocean



India

1. Noliasahi, **August 2020**
2. Venkatraipur, **August 2020**

Indonesia

1. Tanjung Benoa, **24 May 2022**
2. Glagah, **5 September 2022**
3. Tambak Rejo, **3 October 2022**
4. Kemadang, **12 December 2022**
5. Kuta Mandalika, **12 December 2022**
6. Pangandaran, **12 December 2022**
7. Panggarangan, **12 December 2022**
8. Lolong Belanti, **20 December 2022**
9. Purus, **20 December 2022**
10. Nagari Tapakih, **20 December 2023**

3. Workshop-Webinars

WTAD Webinar:

Fighting Inequality for a Resilient Future in the Context of Tsunamis



WORLD TSUNAMI AWARENESS DAY 5 NOVEMBER

unesco Intergovernmental Oceanographic Commission

Indian Ocean Tsunami Information Centre

BMKG

UNESCO-IOC Intergovernmental Coordination Group for Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWMS)

WORLD TSUNAMI AWARENESS DAY WEBINAR

“Fighting inequality for a resilient future”

From Left:
Prof. Ir. Dwikorita Karnawati, M.Sc., Ph. D. | Mrs. Maki Katsuno-Hayashikawa
Ms. Branwen Millar | Mr. Hisan Hassan | Dr. Srinivasa Kumar Tummala
Dr. Harkunti P. Rahayu | Mrs. Suci Dewi Anugrah

Tuesday, November 7th 2023
Time : UTC 07:00 – 08:30

Meeting ID : 937 6272 8359
Passcode : 43 2411

- Attended by 113 participants (at the peak) from the Indian Ocean region.

Topics:

- How to create accessible tsunami early warning for all;
- Research, development, and implementation plan for the Ocean Decade Tsunami Programme;
- Early warning for remote populations from Maldives; and
- Early warning for people with disabilities from Indonesia.

Showing of UNDRR- UNESCO-IOC 2023 WTAD Videos

- [This is how Madagascar ensures that tsunami warnings reach remote communities](#)
- [Disability protected his community from a tsunami](#)
- [Could a lullaby save people's lives? This Indigenous community has shown how](#)
- [How do we create accessible tsunami early warning](#)

Summary of Achievements (2023)

4. Preserving Past Tsunamis Information for Future Preparedness

Documentation of Eyewitness of 1995 Tsunami Dili

(July 2023)

- 31 Eyewitness were documented
- Progress: Transcript from Tetum to Bahasa and English
- Next step: Video Editing.



4. Preserving Past Tsunamis Information for Future Preparedness

Documentation of Eyewitness of 2004 Indian Ocean Tsunami in Seychelles

(November 2023)

- 8 Eyewitness were documented
- Next Step: Transcript and Video Edition



Summary of Achievements (2023)

4. Preserving Past Tsunamis Information for Future Preparedness

2015



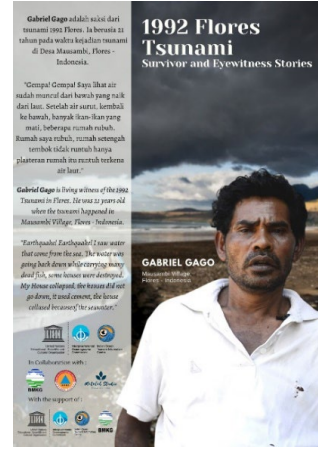
1945 Makran
Tsunami
38 videos

2016



1950 Ambon
Tsunami
28 videos

2018



1992 Flores
Tsunami
45 videos

2019



1994
Banyuwangi
Tsunami
46 videos

2020



Central Sulawesi
Tsunamis (1927,
1938, 1968,
1996, 2018)
30 videos

2021



1996 Biak
Tsunami
60 Videos

2022



2000 Banggai
Tsunami
72 Videos

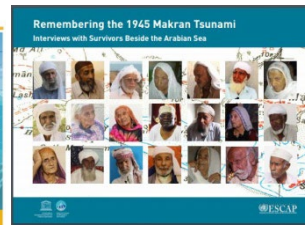
2023



1995 Dili
Tsunami
East Timor
37 Videos

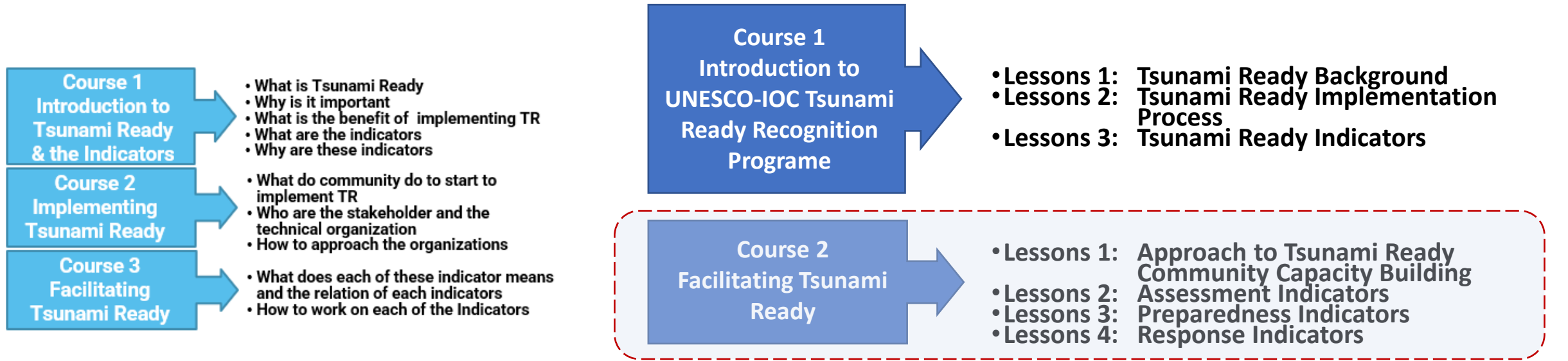
356 Stories of Eyewitness and Survivors of Past Tsunamis
(222 in YouTube IOTIC 134 in Process)

6 Booklet Publication
2 under development

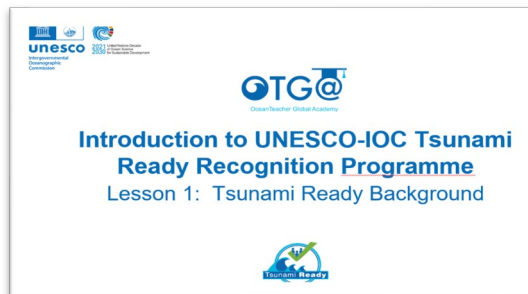


Preserving

5. Education Materials and Tools



IOTIC
ITIC



- 23 Slides
- Transcript for each slide



- 19 Slides
- Transcript for each slide



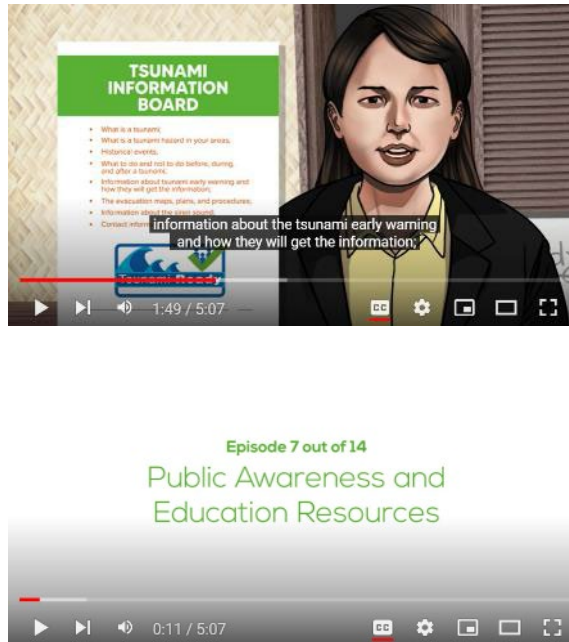
- 22 Slides
- Transcript for each slide

Export to
OTGA
Moodle

Summary of Achievements (2023)

5. Education Materials and Tools

Adaptation of the 14 Tsunami Ready Short Animation Video Series to Indonesian Language



- Video 1: Tsunami Ready (an introduction) **+ 7:10 minutes**
- Video 2: Tsunami Hazard for Tsunami Ready Community **+ 8:02 minutes**
- Video 3: Knowing people at risk of tsunami **+ 4:48 minutes**
- Video 4: Resource and capacity for Tsunami Ready Community **+ 6:57 minutes**
- Video 5: Public Tsunami Information in Community **+ 5:32 minutes**
- Video 6: Tsunami Evacuation Map for the community **+ 5:15 minutes**
- Video 7: Public Awareness and Education Resources **+ 5:07 minutes**
- Video 8: Outreach Activities in Tsunami Ready Community **+ 4:39 minutes**
- Video 9: Community Tsunami Exercise **+ 6:49 minutes**
- Video 10: Community Tsunami Emergency Operation Plan **+ 5:28 minutes**
- Video 11: Building Capacity in community for Emergency Response **+ 7:50 minutes**
- Video 12: Linking the Community to the Tsunami Warning Chain **+ 4:40 minutes**
- Video 13: Providing warning to the community **+ 5:27 minutes**
- Video 14: Getting Tsunami Ready Recognition **+ 6:50 minutes**

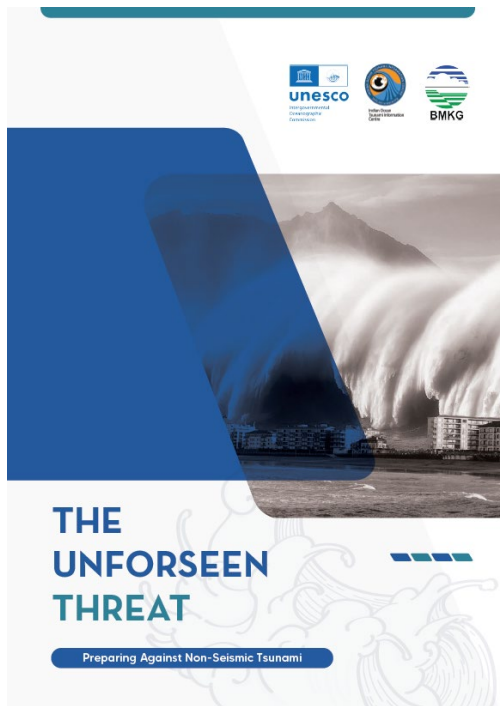
IOTIC YouTube Channel: <https://www.youtube.com/channel/UCFSPN4dJXOvFrMIkmlQdumQ>

Playlist: <https://www.youtube.com/playlist?list=PLDzuUvIHTE3BLFcGDXOAKwCcdTQ6VngH>

AEP Materials and Tools

5. Education Materials and Tools

Development of community education materials on the natural warnings signs for tsunamis generated by non-seismic and complex sources (WG-3)



18 Pages

CHAPTER 1 The Birth of Destruction: A Deeper Look into Tsunami Generation and Impacts.

1. Understanding the Genesis of Tsunami
2. Unleashing Global Synergy to Non-Seismic Tsunami Impact on Lives and Livelihoods

CHAPTER 4 Problems and Solutions: Early Warning System and Emergency Response of Non-Seismic Tsunami.

1. Early Warning System Challenges
2. Emergency Response Challenges
3. Real - World Cases: Lesson and Best Practices

CHAPTER 2 Observing to the Ocean: The Natural Sign of Non-Seismic Tsunami.

1. Ground Shaking or Tremors
2. Explosion
3. Sudden Changes in Sea Water Condition

CHAPTER 3 When Disaster Strikes: Non-Seismic Tsunami Case Studies.

1. The World's Deadliest Non-Seismic Tsunami Events
2. The Tallest Non-Seismic Tsunami Waves
3. Recent Significant Non-Seismic Tsunami Events

CHAPTER 5 Safety Guidance for Non-Seismic Tsunami.

1st Draft is ready to be reviewed by WG-1, WG2, and WG-3

6. Others

1. Support the ICG/IOTWMS Secretariat in meetings and workshops (online)

- ICG/IOTWMS Working Group 1 on Tsunami Risk, Community Awareness and Preparedness Intersessional Meeting, online 17-18 April 2023
- Meeting of the ICG/IOTWMS Regional Working Group for the North-West Indian Ocean (RWG-NWIO), online 30 May 2023.
- Eastern and Western Indian Ocean Member States Preparation Meeting for SOP Workksop, 1 June 2024.
- Western Indian Ocean Member States Training Workshop: Standard Operating Procedures (SOPs) for National Tsunami Warning Centers (NTWCs) and Disaster Management Organizations (DMOs) Online 03 – 06 July 2023.
- Eastern Indian Ocean Member States Training Workshop: Standard Operating Procedures (SOPs) for National Tsunami Warning Centres (NTWCs) and Disaster Management Organisations (DMOs) online 10 – 13 July 2023.
- North-Western Indian Ocean Member States Training Workshop: Review Standard Operating Procedures (SOPs) and Tsunami Service Provider (TSP) Products in Preparation for Exercise IOWave23, online 7 – 8 August 2023.
- Lessons Learnt during Exercise Indian Ocean Wave 2023 UNESCO-IOC Intergovernmental Coordination Group Indian Ocean Tsunami Warning & Mitigation System, online 12-13 December 2023.

6. Others

2. Support the International Tsunami Information Center (ITIC) trainings:

- UNESCO/IOC Tsunami Ready Recognition Programme 1st Regional Training for Pacific Island Countries and Territories (PICT) - Nadi, Fiji, 30th January – 1st February 2023
- Improvement of OTGA Tsunami Ready Training Materials
- ITIC Training Programme Hawaii: Tsunami Evacuation Planning and UNESCO-IOC Tsunami Ready Programme, 12-18 August 2023, Honolulu, Hawaii USA

3. Support the Northeast Atlantic and the Mediterranean Seas Tsunami Information Center (NEAMTIC)

- IOC-UNESCO DG ECHO CoastWAVE Project: IOC-UNESCO Tsunami Ready Recognition Programme (TRRP) Workshop Online, February 16-17, 2023

Activities in 2024

1. Tsunami Ready

1. National Tsunami Ready Training Focus on SID

- Maldives (confirmed) in August 2024 → IOTIC-BMKG Funding Support. (including Documenting Eyewitness Stories of 2004 Tsunami in Maldives)
- Mauritius or Sri Lanka (TBD) → depending on funding availability.

2. Follow up with Timor-Leste and Seychelles:

- The establishment of NTRB function within the existing national coordination mechanism.
- Support in country on the implementation of selected community
 - Timor-Leste: Dili
 - Seychelles: Anse Royale

3. Support the process of application and field verification of Tsunami Ready Recognition Request of IO Member States

1. Indonesia: 14 Communities
2. India:
3. Timor-Leste: 1 Community
4. Seychelles: 1 Community
5. Maldives: ?

Activities in 2024

1. Tsunami Ready

Tsunami Ready Recognition Process in line with the 20th Year Commemoration of the 2004 Indian Ocean Tsunami

	2024									
	February	March	April	May	June	July	August	September	October	November
Community TR Capacity Development, Completion of documents and form, and Field Verification (if needed)										
NTRB Application Submission with completed forms and supporting documents										
Document Review and Recognition Certificate and Sign Processing at UNESCO-IOC										
Tsunami Ready Innauguration at the UNESCO-IOC Global Symposium on 20th year Commemoration of 2004 Indian Ocean Tsunami										

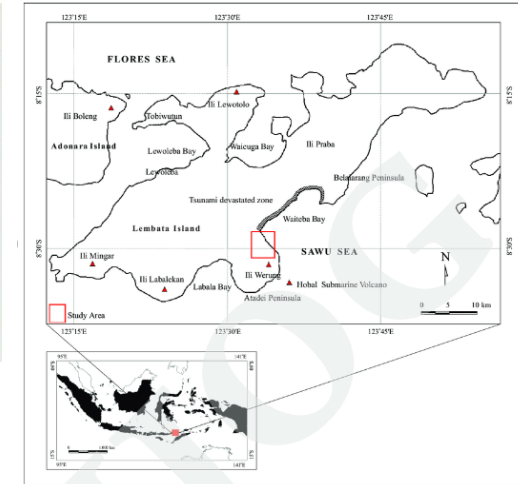
Activities in 2024

2. Preserving Past Tsunamis Information for Future Preparedness

Tsunami Lembata, 19 Juli 1979

Time	: 01:00 AM July 18, 1979
Death	: 539
Death+Missing	: 700
Tsunami Height	: 7-9 meter
Impacted Communities	: Waiteba, Lebala, and Bala Village
Inundation	: 150 m

On July 18, 1979, Lembata Island, located in East Nusa Tenggara Province, Indonesia, was struck by **a sudden tsunami, induced by a massive landslide**. Fifty million cubic meters of material was displaced and one third of it tumbled into the sea and generated a 7 - 9 m height tsunami which spread along the Waiteba Bay (Hadian et al., 1979; Lassa, 2009). Four villages were buried by the landslide material and 539 of inhabitants were reported killed by both landslide and tsunami.



The Straits Times / Article

154 killed, 23 hurt by giant tidal waves

22 July 1979 - VILLAGERS CAUGHT ASLEEP JAKARTA, Saturday AT LEAST 154 people were killed and 23 others seriously injured when giant tidal waves caused havoc on Lomblen Island, west of Timor, Indonesian officials said today. East Nusatenggara Governor Ben Mboi, contacted in the provincial Reuter - 383 words



The Straits Times / Article

Boy, 9, is lone survivor of tidal wave

25 July 1979 - Boy, 9, is lone survivor of tidal wave JAKARTA, Tuesday A NINE-year-old boy with a broken leg is believed to be the only survivor of a tidal wave which killed 538 people from four villages on a remote island last week, official sources said yesterday. Mikael Tue was the only UPI - 274 words

Activities in 2024

2. Preserving Past Tsunamis Information for Future Preparedness



[Submarine Mass Movements and their Consequences](#) pp 579–588 | [Cite as](#)

[Home](#) > [Submarine Mass Movements and their Consequences](#) > Chapter

Geothermal System as the Cause of the 1979 Landslide Tsunami in Lembata Island, Indonesia

[Yudhicara](#) , [Phillipson Bani](#) & [Alwin Darmawan](#)

Chapter

2389 Accesses | 1 [Altmetric](#)



Landslide scarp from the Waiteba – Lembata tsunami-causing landslide on the NE flank of Iliwerung. Landslide was not connected to volcanic activity, though continuous action by the hydrothermal system did weaken the material of the cone.

Activities in 2024

3. Education, Awareness, and Preparedness Materials and Tools

Production of Tsunami Ready Boardgame: Run-Nami

to be launched at the 20th Year Commemoration of 2004 Indian Ocean Tsunami



“Run-Nami” or “Runami”



Activities in 2024

3. Education, Awareness, and Preparedness Materials and Tools

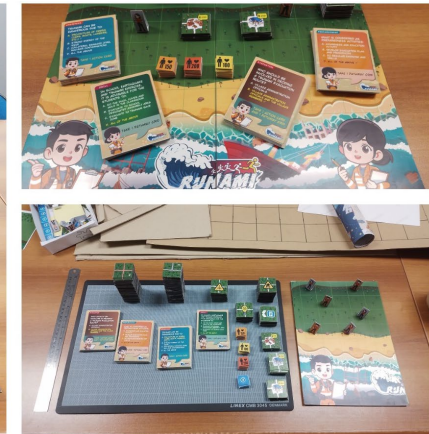
Tsunami Ready Boardgame: Run-Nami



100 Question Cards

- 25 Preparedness
- 25 Awareness
- 25 Evacuation
- 25 Tsunami Drills

- Age 12+
- 2-4 Players
- 1 – 1 ½ hours playing session



Will be available in English and Indonesian
Will be applied as

AEP Materials and Tools

4. World Tsunami Awareness Day (WTAD)

Support the WTAD in Indian Ocean

UNDRR: WTAD Theme in 2024 “ Youth and Education”

1. Encourage and Monitor WTAD National Activities of IOTWMS Member States.
2. Works with UNESCO-IOC – UNDRR WTAD Videos* (collaboration UNESCO-IOC and UNDRR)
Coordinated by UNESCO-IOC Tsunami Unit, Paris - 2020 – now
Playlist: https://www.youtube.com/playlist?list=PLWuYED1WVJIO3g5f7y_aDXtX7LVHDmoOn
3. Organize event (Webinar) to commemorate WTAD in Indian Ocean

** Some of the criteria for the UNESCO-IOC and UNDRR WTAD videos are:*

1. *This videos are very short, not longer than 2 minutes.*
2. *The videos is based on existing and available high-quality footage. There will not be any video shooting on location.*
3. *The video will follow the UNESCO-IOC and UNDRR WTAD video format.*
4. *(in Indian Ocean) IOTIC and ICG/IOTWMS secretariat and the partner(s) will develop the script for the short video.*
5. *UNDRR will hire a consultant to do the editing of the footages based on input and guidance of UNESCO-IOC.*

Activities in 2024

5. 20th Year Commemoration of 2004 Indian Ocean Tsunami

Support the organization of International Symposium of 20th Year Commemoration of 2004 Indian Ocean Tsunami

2nd UNESCO IOC Global Tsunami Symposium

“Two Decades After 2004 Indian Ocean Tsunami: Reflection and the Way Forward”

Monday 11th - Thursday 14th November 2024
in BANDA ACEH, INDONESIA



Indian Ocean Youth Tsunami Conversation and Campaign

THE PROPOSAL

- 01. BACKGROUND**
Why this initiative
- 02. OBJECTIVE**
What is the purpose of this initiative
- 03. TARGET SCHOOLS AND ENGAGEMENT PLAN**
Indian Ocean Countries impacted by 2004 Tsunami
- 04. THE INITIATIVE**
What this initiative will do
- 05. THE HOW**
How this initiative will be implemented
- 06. THE SCHEDULE**
The timeline to implement this initiative



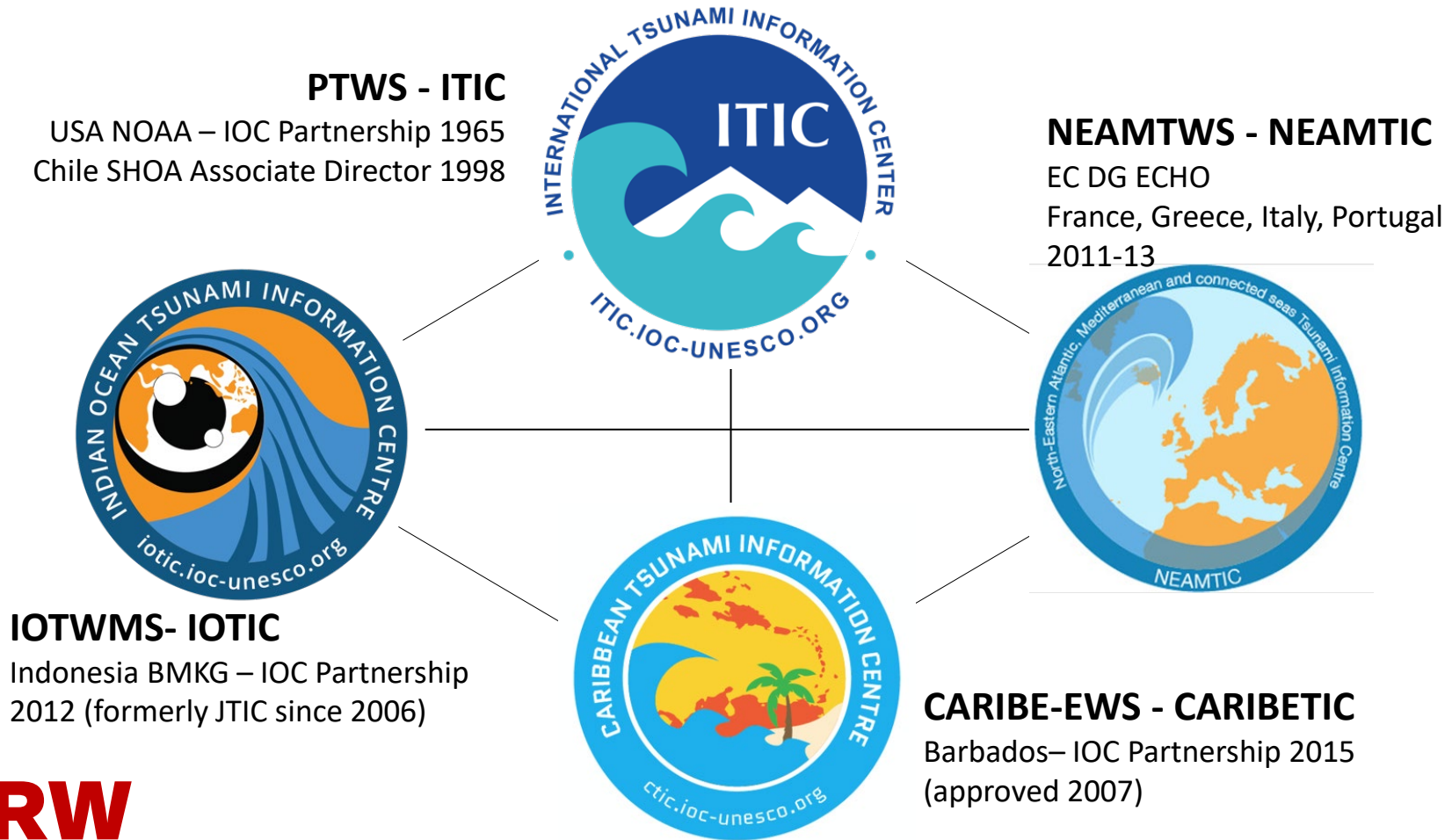
The Eyewitness and Survivor Story and Exhibition

- **The Survivor Portraits:** 15 portraits and accompanying editorial feature profiles will be developed by UNESCO-IOC. The portraits and text will be repurposed for travelling exhibitions in museums and public spaces globally, with QR codes to link with short interview-videos of each Eyewitness & Survivor. Shooting and video recording will be performed at UNESCO Studios.
- **Public Outreach Events:** Organisation of a series of related public outreach events both during the production in June 2024 (when tsunami survivors are at UNESCO in Paris for the photography shoot and interviews) and post-production, in late 2024 and 2025, from World Tsunami Awareness Day 2024, going through to the 20th Anniversary of the 2004 Indian Ocean Tsunami, and all the way to the Third UN Ocean Conference (June 2025, in Nice, France).

Activities in 2024

5. 20th Year Commemoration of 2004 Indian Ocean Tsunami

UNESCO-IOC Tsunami Information Join Exhibition



2. Activities in 2024

5. UNESCAP Project

Implementation of UNESCAP Project



Jointly with the ICG/IOTWMS Secretariat implement the UNESCAP Project (Proposal development, Implementation, Project administrative, and Reporting)



Strengthening tsunami early warning in the North-west Indian Ocean region through regional cooperation

Phase 2c

Ardito M Kodijat
Indian Ocean Tsunami Information Centre
UNESCO-IOC
a.kodijat@unesco.org



Activities in 2024

6. TIC Coordination (2024)

1. Update on TICs Programme and activities for 2024- 2025
2. Discussion on coordination and mechanism on TICs Coordination and collaboration
3. TR Implementation – Review, Challenges, and Plan
 - Update on Implementation in the region
 - Review on documents, application, and recognition process.
 - Improving submission process (filename cheat sheet, Google Drive application documents, online submission tool, etc)
 - Guidance/ template for video documentation and production
4. Update on Migration of TICs Website: Process, challenges, issues, and concerns (if any); Consistency in content, Minimizing duplication going forward (IOC tsunami and TIC sites)
5. TICs Joint activities at the 20th Commemoration of 2004 Indian Ocean Tsunami
6. TR Training – Review, Challenges, and Plan
 - OTGA
 - Regional and National

- Support ICG/IOTWMS secretariat on Meetings and Workshops.
- Support Tsunami Information Centers of other regions.
- Support to request from IOTWMS Member.
- Support WG-1, WG-2, WG-3, RGW NWIO i.e.
 - WG1-WG-3: Assessment of People At Risk in Indian Ocean → to support OTDP
 - WG1-WG3: Criteria for national preparedness programme as equal to 12 UNESCO-IOC Tsunami Ready Indicators to meet the 100% people at risk or tsunami are prepared for and resilient to tsunami

Activities in 2024

7. Others

UNESCO is on a quest in finding NEMO

The **N**ext **G**eneration for **M**arine and **O**cean

through U-OSEAN

Youth and Early Career Scientists and Researchers
Network on Ocean Science, Education and Awareness



unesco

Intergovernmental
Oceanographic
Commission



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

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IOTIC Challenges and Gaps

1. Working mechanism and procedure within IOTWMS for IOTIC program and activities, i.e. engagement with TNC, NTWC, and DMO, WG, TT, etc.
2. Role of IOTIC in:
 1. UNESCO-IOC Tsunami Ready Recognition Programme
 2. UN Ocean Decade Tsunami Program in Indian Ocean
 3. Capacity building, workshops/webinars, and training,
 4. Project implementation and coordination
3. Participation of MS in IOTIC programme and activities and the follow up and sustainability post implementation.
4. Engagement and involvement of MS' Youth and Young Professionals → Re-generation of TWMS champions in MS.
5. Resources (funding and man-power) for IOTICs to provide information, facilitate, and process MS' UNESCO IOC Tsunami Ready Recognition Programme (i.e. implementation, verification process).
6. Communication and information, management, maintenance, and update and sustaining the IOTIC website and social Media.
7. Sustainability of IOTIC → Re-generation staff

Thank you



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IOTIC-BMKG Programme Office***

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