



Report of The Indian Ocean Tsunami Information Centre (IOTIC)

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*Online Meeting on
TOWS WG Task Team on Disaster Management and Preparedness
21-22 February 2021*

IOTIC Term of Reference (2012)

1. Support, as needed, **the operations and needs of the Indian Ocean Tsunami Warning and Mitigation System working closely with the TSPs, NTWCs and NDMOs.**
2. Support ICG/IOTWMS on **training programs, workshops, and seminars** in coordination with the ICG/IOTWS Secretariat and the working groups.
3. Manage **Post-event Performance Surveys and the International Tsunami Survey Team and the compilation of reports** in close collaboration with the ICG/IOTWMS Secretariat under the overall direction of the ICG/IOTWS Steering Group.
4. Develop **educational, preparedness, and other awareness materials for Indian Ocean member states** required for an effective tsunami warning and mitigation system.
5. Develop, manage and maintain the **IOTIC Website and strategic and long term plans for sustaining the IOTIC** in consultation with the ICG/IOTWMS Steering Group.

More detailed TOR could be found at:

http://www.ioc-tsunami.org/index.php?option=com_content&view=article&id=77&Itemid=75&lang=en

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



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Intergovernmental
Oceanographic
Commission



BMKG

UNESCO-IOC and BMKG (27 June 2017 – 30 June 2022)

“Support to IOTIC-BMKG Programme”

Objectives

- Ensure sustainability of the Indian Ocean Tsunami Information Centre.
- Support IOTIC programs and activities for the Indian Ocean Member States in coordination with the ICG/IOTMWS Secretariat.
- Strengthen, enhance, empower BMKG’s role in IOTWMS.
- Support capacity building of BMKG staff in international platform, collaboration, and cooperation.

Program and activities

Agreed activities to be funded through BMKG Budget with additional support from UNESCO IOC:

- Indian Ocean Regional Workshops (IORW) **during covid changed to Webinar**
- Indian Ocean Capacity Building (IOCAP) **during covid changed to IOLS**
- Studies and Researches (IOSEARCH)
- Tsunami Education, Awareness and Preparedness Materials (TEAMIO)
- Documenting and Communicating IOWaves and World Tsunami Awareness Day

Budget

- Annual BMKG budget of approximately of USD 80.000
- Annual UNESCO-IOC budget of approximately of USD 20.000 to support additional international participants

Office Logistics

- Office space and equipment and Office Supplies (paper, toner, etc.) and Utilities (electricity, water, local and international communication, internet). **Vacant during COVID-19**

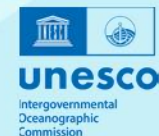
Staffing

- BMKG assigned 3 staffs to support the administrative, coordination and organization of activities under BMKG Budget.



Indian Ocean Tsunami
Information Centre (IOTIC)

UNESCO IOC - BMKG Programme



IOTIC in a Flash



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

25

Working with Indian Ocean Member States
(Active National Warning Centres)

- | | | | | | |
|----------------|-----------|------------|------------|--------------|----------------------|
| 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

Working 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

6 Projects

(2012-2020)

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



IOWave

6

Support Indian Ocean Tsunami Wave Exercises (IOWave)

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

iowave.org

1 IOYVC

Indian Ocean Youth Video Competition

5 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 (On going in 2021-2022)

187

Past Tsunamis Eyewitness Stories

14 Tsunami Ready Animation Video

8 IORW (Webinars)

(2017-2021) Indian Ocean Regional Workshop

4 IOCAP

(2017-2021) Indian Ocean Capacity Building Training

1 IOLS

(2020) Indian Ocean Lecture Series during COVID-19

2

Pilot and support Tsunami Ready Community

(2017-2020) India implement the Indian Tsunami Ready Programme. 2 communities in Odisha State India (Noliasahi and Venkatraipur) received Tsunami Ready Community Recognition in 2020



Intergovernmental Oceanographic Commission



Indian Ocean Tsunami Information Centre



BMKG



**IOC UNESCO - BMKG
INDIAN OCEAN TSUNAMI
INFORMATION CENTRE
PROGRAMME OFFICE**

IOTIC-BMKG Work Plan 2017 – 2022

- 1 Indian Ocean Regional Workshops (IORW)**
- 2 Indian Ocean Capacity Building (IOCAP)**
- 3 Studies and Researches (IOSEARCH):
Preserving Past Indian Ocean Tsunami
Information for Future Preparedness.**
- 4 Documenting and Communicating IOWave
and World Tsunami Awareness Day**
- 5 Tsunami Education, Awareness and Preparedness
Materials (TEAMIO)**





Learn about the 12 UNESCO-IOC Tsunami Ready Indicators of Assessment, Preparedness, and Response.

Play the boardgame with families, friends, and your community members.



1 Development of Tsunami Ready Board Game



Available:
200 game in English, and
200 game in Indonesian

Will be exhibited at the GPDRR in Bali in May 2022



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development



Join Azam, Azizah, and Adam in building
Tsunami Ready Community.

Watch them in the
UNESCO-IOC Tsunami Ready
Animation Video Information Series



2 Development of Tsunami Ready Short Animation Videos. 14 Short Animation Videos on:

- Video 1: Tsunami Ready (an introduction): <https://youtu.be/W4Zc5CIRYtGVideo>
- Video 2: Tsunami Hazard for Tsunami Ready Community: <https://youtu.be/hl3IHS544ZAVideo>
- Video 3: Knowing people at risk of tsunamis: <https://www.youtube.com/watch?v=Wox4cSS8th0Video>
- Video 4: Resource and capacity for Tsunami Ready Community: <https://youtu.be/DOqdlZqr98sVideo>
- Video 5: Public Tsunami Information in Community: <https://youtu.be/Od-o-G7IBb0Video>
- Video 6: Tsunami Evacuation Map for the community: <https://youtu.be/wECsv3XgJ3kVideo>
- Video 7: Public Awareness and Education Resources: <https://youtu.be/GKid6-RHmSsVideo>
- Video 8: Outreach Activities in Tsunami Ready Community: <https://youtu.be/Y8NoQXHCEX0Video>
- Video 9: Community Tsunami Exercise: <https://youtu.be/bANfS7TdVPoVideo>
- Video 10: Community Tsunami Emergency Operation Plan: <https://youtu.be/Or-lvl8HzPQVideo>
- Video 11: Building Capacity in community for Emergency Response: <https://youtu.be/JZ0-h3H7EC0Video>
- Video 12: Linking the Community to the Tsunami Warning Chain: <https://youtu.be/04iGaCXulioVideo>
- Video 13: Providing warning to the community: <https://youtu.be/wf8unCF1gz4Video>
- Video 14: Getting Tsunami Ready Recognition: https://youtu.be/myAt1_Udsio



2021
2030 United Nations Decade
of Ocean Science
for Sustainable Development

otic.ioc-unesco.org

INDIAN OCEAN YOUTH SHORT VIDEO COMPETITION ON TSUNAMI AWARENESS



WORLD TSUNAMI AWARENESS DAY



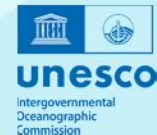
3 Indian Ocean Youth Short Video Competition 10 November 2021

A total of 79 videos were successfully submitted by participants from 9 countries:

- Bangladesh 3,
- India 5,
- Indonesia 24,
- Kenya 4
- Malaysia 12,
- Maldives 2,
- Pakistan 25,
- Seychelles 3, and
- Tanzania 2.

Five (5) independent judges evaluated the videos based on 6 assessment: criteria theme/topic, information, originality, impact, concept, creativity.

for more information: bit.ly/XXXXXXX



INDIAN OCEAN YOUTH SHORT VIDEO COMPETITION ON TSUNAMI AWARENESS



WORLD TSUNAMI AWARENESS DAY



GROUP 1: Eastern Indian Ocean Region

- 1st Winner: Little Sea in Tompe by Sarah Adilah (Indonesia)
<https://drive.google.com/open?id=1Hi0SUE030j1vNNifBA-8qmHbXFDAOBWG>
- 2nd Winner: Living with the Sea by Vania Qanita Damayanti, Adrian Muhammad Fikri Suni & Nur Amri Firmansyah (Indonesia)
https://drive.google.com/open?id=1gGDLdL8D-g6eo_JX54IkwP47r6y3UNsg
- 3rd Winner: Atypical Tsunami and Solution by Muhyddin Aprizandy, Bobby Tegar Sanjaya & Muna Fauziah (Indonesia)
<https://drive.google.com/open?id=1Xb-m2xfbTKN0QfEOyc2PWWyUNTqjWK-2>

Group2 - Indian Ocean Small Island States

- 1st Winner: We Are Aware by Darius Ashvine Commettant, Shainarah Chandell Manisha Ragain & Ruth Abigail Nicole Henrie (Seychelles)
<https://drive.google.com/open?id=1RXKsj43e3iXlFEGtrIISCUuQqEikRkH>
- 2nd Winner: Public Tsunami Awareness by Ahmed Yaeesh Shaheem (Maldives)
<https://drive.google.com/open?id=1e0-aJ4ztLH1aO-Te81kO1UOLPZ30c7Pf>
- 3rd Winner: Tsunami the Incoming Threat by Melchizedek Solin (Seychelles)
https://drive.google.com/open?id=1vdHHMP_CKvcZ-zEpOLsMLXRdSGm2dYwM

Group3 - North Western Indian Ocean

- 1st Winner: Surviving Tsunami by Vandita Sariya (India)
<https://drive.google.com/open?id=1rKqrguYpKtqBUfi5D7jvIDXYzIWny8Uk>
- 2nd Winner: Let's Buck Against the Wave by Aneeqa Bibi, Humera Khan & Sania Mehmood (Pakistan)
https://drive.google.com/open?id=1qttdLuNJBkXq_yrDFe1uqWJR55w1J3l
- 3rd Winner: Make Them Aware if You Care by Ayesha Nadeem (Pakistan)
<https://drive.google.com/open?id=1CZmUKsPVPBbwIDPoPlmCElv-V3F4SsiT>

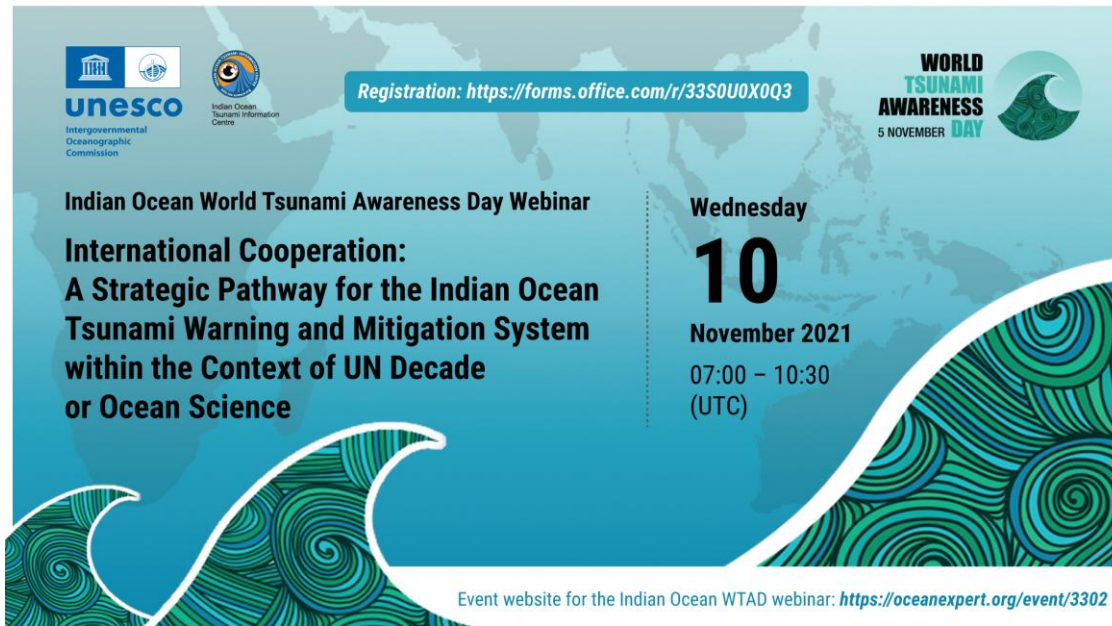
Group4 - Western Indian Ocean region

- 1st Winner: Good Wave Intentions by Mahfudh Khamisi Omar (Kenya)
<https://drive.google.com/open?id=1w3YbJeHpLd4KHMclqDR2exBpxdDysXiZ>
- 2nd Winner: Tsunami Exercise by Neema Tayai Mollel (Tanzania)
<https://drive.google.com/open?id=1f0eLL-wfWvAkFNmRg9iOarvABzdb5TbP>
- 3rd Winner: Do We Communicate Hazard and Risk of Tsunami by Yasin Ramadhan (Tanzania)
https://drive.google.com/open?id=1oR17PnAm2e-dpibot9UQQxgE-BeQR_Mc

for more information: bit.ly/XXXXXXX



4 Organize the World Tsunami Awareness Day webinar on International Cooperation: A Strategic Pathway for the Indian Ocean Tsunami Warning and Mitigation System within the Context of UN Decade for Ocean Science
Wednesday, 10 November 2021



5 Development of Tsunami Ready Training Course under Ocean Teacher Global Academy (OTGA)

4 Course breakdown

	Introduction to Tsunami Ready	Tsunami Ready Indicators	Implementing Tsunami Ready	Facilitating Tsunami Ready
3 Types of modules	Tsunami Ready for Decision Makers <i>(Gov Officials, NDMO, DDMO, NTWC)</i>	December 2021		
	Tsunami Ready for Community <i>(Community Leader, Community DRM, NGO, DDMO)</i>	2 x lectures: 1.5 hours Training program (Incl. Quiz)	2 x lectures: 1.5 hours Training program (Incl. Quiz)	2 x lectures: 1.5 hours Training program (Incl. Quiz)
	Tsunami Ready for Facilitators <i>(Community DRM, NGOs, Students, Youth groups, DDMO)</i>			5 x lectures: 9.5 hours Training program (Incl. Quiz)

Challenges

IOTIC Program and activities

1. Participation from MS, and support and engagement of TNC, NTWC, and DMO in IOTIC program and activities
2. Working mechanism and procedure for IOTIC activities and engagement within IOTWMS (WG, TT, and MS)
3. Clear role of IOTIC in IOTWMS
 1. Capacity building and training,
 2. Project implementation and coordination
 3. Developing and disseminating tsunami related knowledge (awareness and preparedness)
 4. Post-event surveys/report.
4. Sustainability and follow ups by MS post IOTIC activities

IOTWMS Program and activities

1. The role and responsibility of Tsunami Information Centres (TICs) within UN Ocean Decade Tsunami Program
2. Resources for TICs to support the implementation of Tsunami Ready in the Member States
3. TIC's modes of training and delivery for more impactful and sustained capacity building in Member States.
4. Involvement of Member States' Youth and Young Professionals → Re-generation of TWMS champions in MS.

IOTIC Management and organization

1. Follow up and social media → Human resources (full time and dedicated staff)
2. Sustainability → Re-generation of IOTIC staff

Moving Forward

1. Re-new / extend the Partnership Agreement between UNESCO-IOC and the Government of Indonesia (through BMKG) to continue to support the IOTIC- BMKG Program for another 5 years (2022 – 2027).
 1. Design a new 5 years program to align with the strategic pathway and UN Decade, i.e. tsunami ready.
 2. Advance working and funding mechanism to implement IOTIC-BMKG programs for the next 5 years
2. Review and Strengthen IOTIC Term of Reference and Working Mechanism:
 1. Common TOR among other TICs (ITIC, NEAMTIC, CaribbeTIC).
 2. TOC specific to support and strengthen IOTWMS.
3. IOTIC's role and responsibility within the UN Ocean Decade Tsunami Program in Indian Ocean:
 1. Involvement and engagement of IOTIC in IOTWMS strategic pathway and implementation plan within the context of UN Ocean Decade.
4. IOTIC's role and responsibility for the Tsunami Ready Implementation in Indian Ocean:
 1. Involvement and engagement of IOTIC in IOTWMS Tsunami Ready program and activities
 2. Guidance on advocacy, training/capacity building activity and resources, and support for the implementation of Tsunami Ready
 3. Support UNESCO-IOC in coordination, management, registration, verify, record, and monitor the development of tsunami ready community in MS and its recognition.

Partnership Agreement UNESCO-IOC and GOI (BMKG)

Renew Partnership Agreement UNESCO-IOC and GOI (BMKG) “Support to IOTIC-BMKG Programme” (2022 - 2027)

Objectives

- Ensure sustainability of the Indian Ocean Tsunami Information Centre.
- Support IOTIC programs and activities for the Indian Ocean Member States in coordination with the ICG/IOTMWS Secretariat.
- Strengthen, enhance, empower BMKG’s role in IOTWMS through capacity building of BMKG staff in international platform, collaboration, and cooperation

Program and activities

Regional Support focusing on Tsunami Ready Implementation in Indian Ocean:

- Indian Ocean Regional Workshops and Capacity Building (IORW)
- Hosting, Improving, Manage, and Maintaining IOTIC and IOWave Website
- Studies and coordination on Tsunami Ready in Indian Ocean
- Tsunami Awareness, Education, Preparedness Resources and/or Tsunami Ready Resources and Tools

Budget

- Annual BMKG budget of approximately of USD (To be determined)
- Annual UNESCO-IOC Regular Program budget of approximately of USD (To be determined)

Office Logistics

- Office space and equipment and office supplies (paper, toner, etc.) and Utilities (electricity, water, local and international communication, internet).

Staffing

- Three (3) staffs BMKG will be assigned to support the administrative, coordination, and organization of activities under BMKG Budget.



UNESCO IOC - BMKG Programme





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