Report of
The Indian Ocean Tsunami Information Centre

WG1 Meeting
17-18 April 2023

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IOTIC Term of Reference

NEW TOR

Goal of IOTIC

The overall goal of IOTIC is to support the UNESCO-IOC ICG/IOTWMS in tsunami risk reduction for Indian Ocean at-risk communities through capacity building in tsunami hazard, awareness, preparedness, education, and mitigation measures.

Objectives

- 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 the 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 Term of Reference

NEW TOR

1. <mark>Help reduce the overall tsunami risk across the Indian Ocean by working closely and in coordination with the UNESCO-IOC ICG/IOTWMS, it's Steering Group, Working Groups, Task Teams, UNESCO-IOC ICG/IOTWMS Secretariat, and the TOWS-WG Task Team on Disaster Management & Preparedness (TT DMP) to:</mark>

a. <mark>Contribute to the development of global guidelines in tsunami risk reduction and their implementation in the Indian Ocean.</mark>

b. Maintain close familiarity of the operations and needs of the Indian Ocean Tsunami Warning and Mitigation System and work closely with the Tsunami Service roviders (TSPs), National Tsunami Warning Centres (NTWCs), and Disaster Management Organisations (DMOs) to assist, as needed, with the socialization, promotion, and capacity building required for an effective tsunami emergency response.

c. In coordination with the UNESCO-IOC ICG/IOTWMS Secretariat and as needed, support the ICG/IOTWMS and it's Working Groups and Task Teams to conduct training programmes, workshops, and seminars.

d. <mark>In collaboration with the UNESCO-IOC ICG/IOTWMS Secretariat develop project proposals and assist with project implementation in support of the ICG/IOTWMS programmes and activities in the Indian Ocean Region.</mark>

e. Manage tsunami post-event performance surveys and compilation of reports in close collaboration with the UNESCO-IOC ICG/IOTWMS Secretariat under the overall direction of the ICG/IOTWMS Steering Group, assisted by the International Tsunami Information Center (ITIC), UNESCO-IOC Tsunami Unit, and teams of experts nominated by the UNESC)-IOC ICG/IOTWMS Steering Group as required.

NEW TOR

2. Help Member States of the UNESCO-IOC ICG/IOTWMS reduce their tsunami risk by:

   a. <mark>Serving as the focal point under the guidance of the UNESCO-IOC ICG/IOTWMS to guide, facilitate, and process the implementation of the UNESCO/IOC Tsunami Ready Recognition Programme (TRRP) in the Indian Ocean.</mark>

   b. <mark>Serving of the focal point under the guidance of the IOC-UNESCO ICG/IOTWMS, to guide, facilitate, support and coordinate the activities of the World Tsunami Awareness Day in the Indian Ocean</mark>

   c. <mark>Assisting national stakeholders in the overall improvement of tsunami preparedness and effective tsunami emergency response through tsunami risk assessment, warning guidance and emergency response, education and awareness, tsunami mitigation, and the implementation of national initiatives to reach certification against the UNESCO-IOC Tsunami Ready indicators.</mark>

   d. Serving as an information resource providing for the development, publication, and distribution of resource materials on tsunami hazard, awareness, preparedness, and education for the Indian Ocean.

   e. Serving as a technical resource and help foster research and its application to strengthen technical and institutional aspects of tsunami preparedness and tsunami emergency response to prevent loss of life and minimize damage to property.
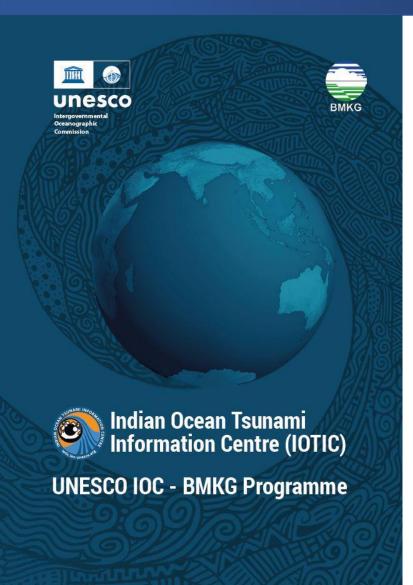
IOTIC Term of Reference

NEW TOR

3. Coordinate activities and exchange materials, resources, and information with other Tsunami Information Centres (TICs) of the other ocean basins (Caribbean Tsunami Information Centre (CTIC), International Information Centre (ITIC), and North-East Atlantic and Mediterranean Seas Tsunami Information Centre (NEAMTIC)) to ensure global consistency and potential use of derived products across all regions.

4. Share information on programmes, activities, and events, as well as information on tsunami education, awareness, and preparedness resources by managing and maintaining the IOTIC Website and social media channels as platforms for information exchange.

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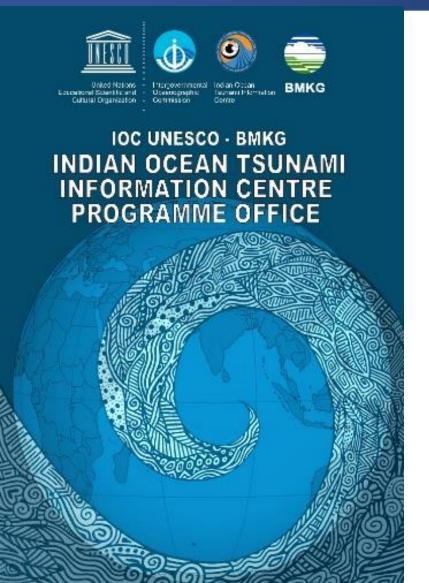Tsunami Information
Centre

2023 - 2027

Objectives

- Ensure the sustainability ==and continuation of service of the Indian Ocean Tsunami Information Centre to the Indian Ocean Member States of the ICG/IOTWMS==.

- Support IOTIC programmes and activities in coordination with ==IOC-UNESCO Tsunami Unit, the IOC-UNESCO ICG/IOTWMS Governance, and the IOC-UNESCO ICG/IOTMWS Secretariat.==

- Enhance BMKG's role in the Indian Ocean Tsunami Warning and Mitigation System.

- Support capacity building of BMKG's staff assigned to IOTIC-BMKG in international cooperation.

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BMKG

Indian Ocean Tsunami Information Centre (IOTIC)

UNESCO IOC - BMKG Programme

IOC-UNESCO and BMKG Partnership Agreement "Support to IOTIC-BMKG Programme"
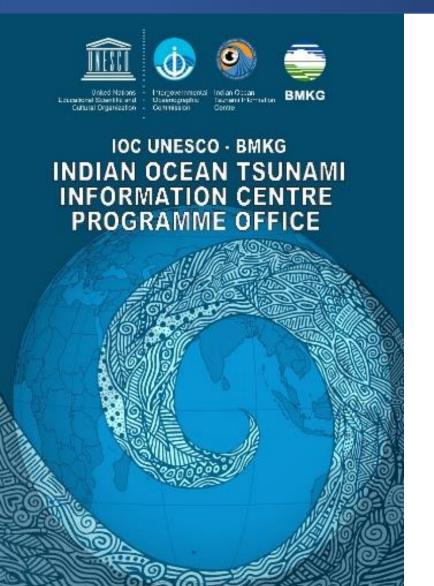

2023 - 2027

Programme and activities

- Indian Ocean Regional Workshops (IORW);

- Indian Ocean Capacity Building (IOCAP); and

- Indian Ocean Studies, Assessments, and Projects (IOSAP).

- Management of IOTIC website and social media at BMKG Server: for the IOTIC-BMKG programme and activities; Tsunami Education, Awareness and Preparedness resources; IOWave Tsunami Exercise; World Tsunami Awareness Day (WTAD); and other IOTIC activities and project results.

2023 - 2027

Budget

- Annual BMKG budget of approximately of USD 80.000
- Annual IOC-UNESCO 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).

Staffing

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

Requests IOTIC in consultation with the ICG/IOTWMS Secretariat to create a capacity development work plan for the intersessional period, where appropriate utilising the International Training Centre for Operational Oceanography (ITCOocean) operated by INCOIS in India and the BMKG Training Center in Indonesia that serves as an OTGA Specialized Training Center (STC Indonesia), and STC ITIC in Hawaii;

Requests IOTIC and Working Group 1 develop community education materials on the natural warnings signs for tsunamis generated by non-seismic and complex sources;

Requests IOC-UNESCO IOTIC, IOC-UNESCO ICG/IOTWMS Secretariat, [and the new Working Group 3] to continue to organize regional workshops such as this as platform of sharing experience and lessons on the implementation of IOC-UNESCO Tsunami Ready in Indian Ocean.

Requests the Secretariat, IOTIC, WG1 and WG3 Members to develop urgently an online webinar for Tsunami Ready Focal Points on tools and strategies for implementing TR, supporting by a one-page brochure

IOC-UNESCO and BMKG Partnership Agreement ICG IOTWMS Tasked IOTIC

IOTIC and Task Team IOWAVE23

Requests Task Team IOWAVE23 in collaboration with IOTIC to:

1. Conduct Indian Ocean Wave Exercise (IOWave23) in 2023 noting suggestions from the post-IOWave20 lessons learnt workshop, including an increased focus on participation of Local Disaster Management Offices (LDMO) down to community level and exercising communities recognised or planning to be recognised under the TRRP or similar initiatives;
2. Explore mechanisms where resources available for participation of international observers with expertise in tsunami warning in countries conducting community evacuations and implementing TRRP and similar initiatives during future IOWave exercises;
3. Conduct IOWAVE23 in Sept/Oct 2023, with three scenarios run one week apart and not on consecutive days, at least one scenario with major impact
4. Support pre- and post-IOWAVE workshops to facilitate planning, conduct, and review of Exercise. Include near-field tsunami scenarios, including scenarios for tsunami generated by non-seismic and complex sources;
5. Develop technical guide/manual for exercises in pandemic situation.
6. Encourage Member States to test/verify the UNESCO-IOC Tsunami Ready Indicators during the Exercise.
7. Develop guidelines and manual for conducting virtual table-top exercises.

IOTIC under WG-1 TOR

- Work closely with Working Group 3 "Tsunami Ready Implementation" and IOTIC to help develop the capacity of Member States across the Indian Ocean to implement the IOC-UNESCO Tsunami Ready Recognition Programme (TRRP) or similar initiatives.

IOTIC under WG-2 TOR

- Work closely with Working Group 3 "Tsunami Ready Implementation" and IOTIC to help develop the capacity of Member States across the Indian Ocean to implement the IOC-UNESCO Tsunami Ready Recognition Programme (TRRP) or similar initiatives.
- Work closely with Working Group 1 "Tsunami Risk, Community Awareness and Preparedness", Working Group 3 "Tsunami Ready Implementation" and IOTIC to develop effective national tsunami warning chains, warning products, services, Standing Operating Procedures and warning chains.

IOC-UNESCO and BMKG Partnership Agreement ICG IOTWMS Tasked IOTIC

IOTIC under WG-3 TOR

- Assist with training programmes of Member States implemented by IOC-UNESCO IOTIC and coordinated by IOC-UNESCO ICG/IOTWMS Secretariat to facilitate enhanced national tsunami warning chains and at-risk communities becoming resilient and prepared for tsunamis
- In collaboration with IOC-UNESCO IOTIC and IOC-UNESCO Secretariat for ICG/IOTWMS, identify Capacity Development and resource needs of Member States to implement TRRP, national Tsunami Warning Chains, and related Activity
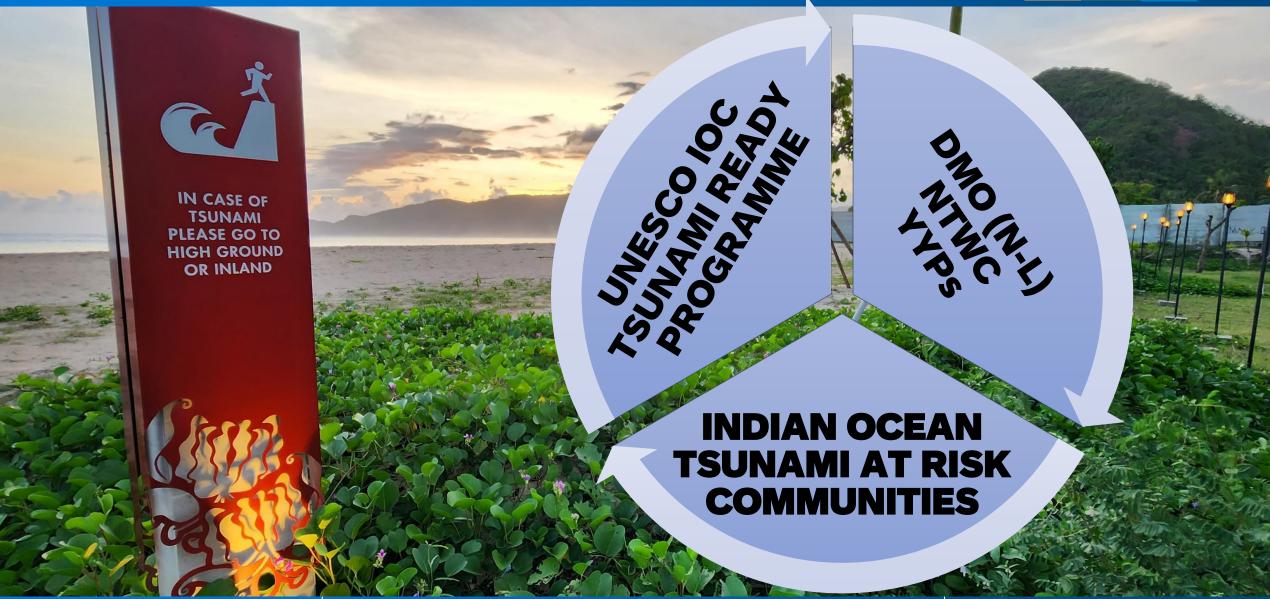
- **Indian Ocean Regional Workshops (IORW);**
  - World Tsunami Awareness Day ➜ November 2023

- **Indian Ocean Capacity Building (IOCAP);**
  - Online Training for Tsunami Ready Facilitator in Indonesia ➜ 10 January – 23 February 2023
  - Tsunami Ready National Workshop In Timor-Leste ➜ Dili, 20-21 July 2023
  - Tsunami Ready National Workshop in Seychelles ➜ Mahe, November 2023
  - Online Regional Training Tsunami Ready for Tsunami Ready Focal Point ➜ TBD (WG-3)

- **Indian Ocean Studies, Assessments, and Projects (IOSAP);**
  - Preserving Past Tsunami Information for Future Preparedness ➜ 1995 Tsunami in Dili, Timor-Leste 17 – 19 July 2023
  - Development of community education materials on the natural warnings signs for tsunamis generated by non-seismic and complex sources (WG-3)

- **Finalization of the Tsunami Ready Ocean Teacher Global Academy Training Material ➔ Hawaii 12-16 June 2023**

- **Implementation of UNESCAP Project Phase 2c ➔ July 2022 – June 2023**

- **Preparation of Program, Proposal, and Activities for 20th Commemoration of the 2004 Indian Ocean Tsunami ➔ May 2022 – November 2023**
  - Culture based Tsunami Awareness and Preparedness
  - Tsunami Survivors and Eyewitness Stories and Exhibition

- **Support ICG/IOTWMS Secretariat**
  - Western Indian Ocean Meeting Tsunami Warning & Preparedness Workshop
  - SOP Training Workshop for Western Indian Ocean NTWC/DMO/Media
  - SOP Training Workshop for Eastern Indian Ocean NTWC/DMO/Media
- **Advise, Guide, Facilitate, Support Member States in the Application Process for the Tsunami Ready Rocognition**

Thank you

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IOTIC-BMKG Programme Office

Disaster Risk Reduction and Tsunami Information Unit
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