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Commission

Indian Ocean Tsunami Information Centre
Progress Report

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23-24 November 2021

1. Progress on Activities

Key Achievement ~ 2020

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UNESCO-IOC and BMKG
"Support to IOTIC-BMKG Programme"
27 June 2017 – 30 June 2022

Paris, 27 June 2017

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.**

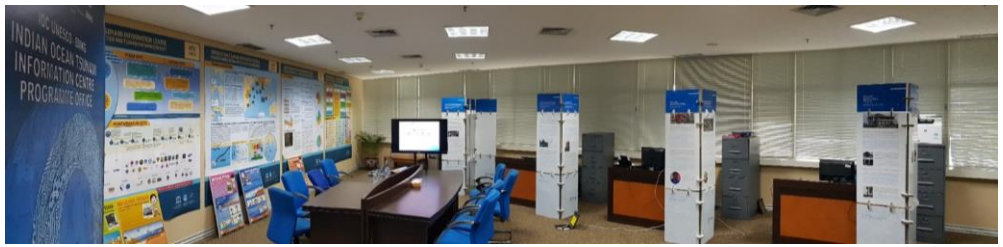
- Program and activities

  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.



1. Progress on Activities

Key Achievement ~ 2020

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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)

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

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 Arfica	Timor Leste
French Reunion	Kenya	Mauritius	Pakistan	Sri Lanka	United Arab Emirates
					Yemen

5 Projects
(2012-2020)
IFIT (1); MFIT (1); UNESCAP (2); Charles Englehart Foundation (1)

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)

IOWave

6 Support Indian Ocean Tsunami Wave Exercises (IOWave)
2009
2011
2014
2016
2018
2020

iowave.org

4 IORW
(2017-2019) Indian Ocean Regional Workshop

1 IOLS
(2020) Indian Ocean Lecture Series during COVID-19

4 IOCAP
(2017-2019) Indian Ocean Capacity Building Training

3 Webinars
(2020) Indian Ocean Webinars 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

1. Progress on Activities

Key Achievement 2020 (01)

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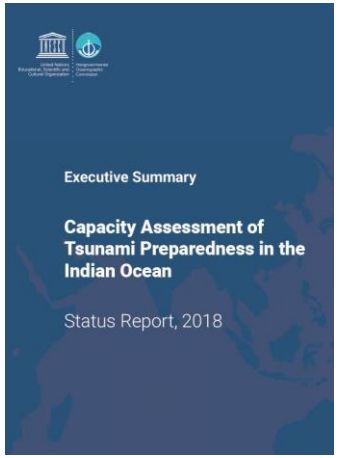
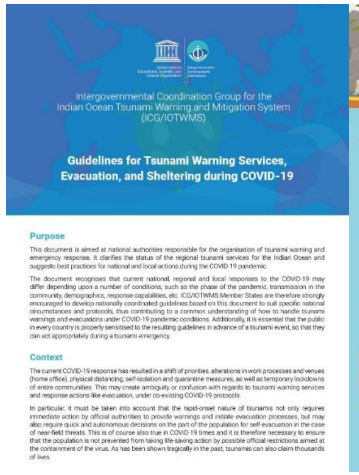
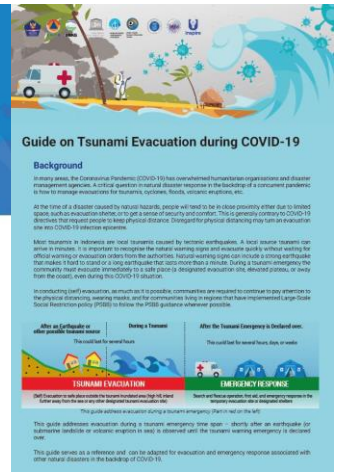
1



Supported ICG/IOTWMS Secretariat on the finalization of the Capacity Assessment of Tsunami Preparedness in the Indian Ocean (Status Report, 2018) Published in 2020

2





Supported ICG/IOTWMS Secretariat on the finalization the regional Guideline for Tsunami Warning Services, Evacuation, and Sheltering during COVID -19

National Guide on Tsunami Evacuation, during COVID -19 (Indonesia)

3

Contribution to Eco Magazine Special Edition on UN Decade

Learning from Past Tsunamis

4

Documentation 187 of Past Tsunamis Eyewitness Stories

1945 Makran Tsunami
38 videos

1950 Ambon Tsunami
28 videos

1992 Flores Tsunami
45 videos

1994 Banyuwangi Tsunami
46 videos

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

1. Progress on Activities

Key Achievement 2020 (02)

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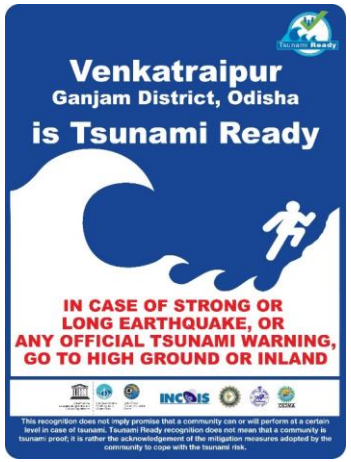
1



Process the recognition of two villages Venkatraipur and Noliasahi Villages in Odisha State, India As Tsunami Ready (28 May 2020)

2

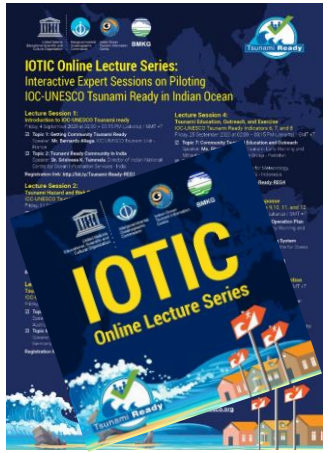
IOWave20

Organize the Pre IOWave20 Webinar on TWES SOP and Emergency Response 28-30 September 2020

Supported the Exercise IOWave20 (7, 13, 20 October 2021)

And the Post IOWave20 Webinar on Lessons Learnt (11-12 November 2020)

3



IOTIC Online Lecture Series on Tsunami Ready (7 Sept – 9 Oct 2020)

Reached 2.171 participants from 44 countries

4

Jointly with the ICG/IOTWMS Secretariat on the implementation of the Strengthening tsunami warning in the Northwest Indian Ocean through regional collaboration with project funding from UNESCAP

5

Organized the World Tsunami Awareness Day Regional webinar on Tsunami Ready in Indian Ocean Island States (4 Nov 2020)

1. Progress on Activities

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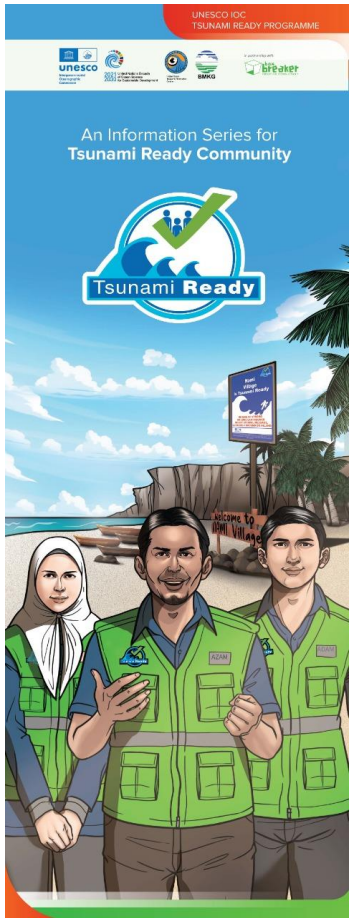
1 Development of Tsunami Ready Board Game

December 2021

2021 2030 United Nations Decade of Ocean Science for Sustainable Development

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

2021 2030 United Nations Decade of Ocean Science for Sustainable Development



Video 1: Tsunami Ready (an introduction).
Video 2: Tsunami Hazard for Tsunami Ready Community
Video 3: Knowing people at risk of tsunami
Video 4: Resource and capacity for Tsunami Ready Community
Video 5: Public Tsunami Information in Community
Video 6: Tsunami Evacuation Map for the community
Video 7: Public Awareness and Education Resources
Video 8: Outreach Activities in Tsunami Ready Community
Video 9: Community Tsunami Exercise
Video 10: Community Tsunami Emergency Operation Plan
Video 11: Building Capacity in community for Emergency Response
Video 12: Linking the Community to the Tsunami Warning Chain
Video 13: Providing warning to the community
Video 14: Getting Tsunami Ready Recognition.

December 2021

3

Indian Ocean Youth Short Video Competition
10 November 2021

1. Progress on Activities

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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)

December 2021

4 Course breakdown

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

2. Challenges

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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

IOTIC Management and organization

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

2. Challenges

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OTWMS 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.

3. Pathways Forward & Opportunities

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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

• **Steering Group to advice and guide IOTIC on direction for the extension of IOTIC-BMKG program for the next 5 years.** • **IOTIC to consult, liaise, and initiate the discussion between UNESCO-IOC and GOI (BMKG) on the extension of the partnership agreement**	**Steering Group, Secretariat, IOTIC**	**January 2022**

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.

Steering Group to review IOTIC Terms of Reference and working mechanism and make recommendations to the ICG for endorsement	**Steering Group, Secretariat, IOTIC**	**May 2022 (ICG XIII)**

3. Pathways Forward & Opportunities

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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.

Steering Group to further develop a strategic pathway and implementation plan for the Indian Ocean Tsunami Warning and Mitigation System, within the Context of the UN Decade for Ocean Science, to enable more timely and accurate warnings to at-risk communities who are recognized as Tsunami Ready	**Steering Group, Secretariat, IOTIC**	**May 2022 (ICG XIII)**

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.

Steering Group to develop draft ToRs for a Tsunami Ready Working Group of the ICG/IOTWMS to lead and coordinate the implementation of the Tsunami Ready Programme in the Indian Ocean. The Tsunami Ready Working Group shall work in conjunction and take technical advice from the other working groups and task teams of the ICG/IOTWMS. Member States to nominate representatives from DMOs to the Tsunami Ready Working Group to promote increased participation of disaster managers in the work of the ICG/IOTWMS	**Steering Group, Secretariat, IOTIC**	**May 2022 (ICG XIII)**

Thank you

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IOTIC-BMKG Programme Office

Disaster Risk Reduction and Tsunami Information Unit
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