

IOC Circular Letter No 3021
(Available in English only)

IOC/SK/BA/ah
14 January 2025

To : ICG/IOTWMS¹ Tsunami National Contacts
ICG/IOTWMS Tsunami Warning Focal Points
ICG/IOTWMS National Tsunami Warning Centres

C.c. : ICG/IOTWMS Chair and Vice Chairs
ICG/IOTWMS Working Group Chairs and Vice Chairs
Official National Coordinating Bodies for liaison with the IOC
in ICG/IOTWMS Member States
Permanent Delegates/Observer Missions to UNESCO,
and National Commissions for UNESCO of ICG/IOTWMS Member States

**Subject: Training/Workshop on Tsunami Evacuation Maps, Plans, and
Procedures and UNESCO-IOC Tsunami Ready Recognition Programme
in Hyderabad, India, 9–20 March 2025**

At the UNESCO-IOC 2nd Global Tsunami Symposium on commemorating the 20th year of the 2004 Indian Ocean Tsunami, it was agreed that the Indian Ocean is much safer against the threat of tsunamis than it was in 2004. The symposium came up with the statement “Global Tsunami Warning and Mitigation: Building Sustainability for the next decade through Transformation and Innovation”, following which, UNESCO and its partners called on States and civil society to drastically step up their investments and efforts to strengthen Tsunami Early Warning Systems and achieve 100% of Tsunami Ready Communities across the world by 2030.

In line with these priorities, the Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWMS) at its 14th session in Jakarta, in November 2024, agreed for the UNESCO-IOC Indian Ocean Tsunami Information Centre (IOTIC) and the IOTWMS Secretariat to conduct the Tsunami Evacuation Plans, Maps, and Procedures (TEMPP) training workshop in 2025.

This training workshop will be hosted in Hyderabad from 9 to 20 March 2025 by the Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences (MoES) at the facilities of the International Training Centre for Operational Oceanography (ITCOOcean), a UNESCO Category 2 Centre.

¹ ICG/IOTWMS Member States include Australia, Bangladesh, Comoros, Djibouti, France, India, Indonesia, Iran, Kenya, Madagascar, Malaysia, Maldives, Mauritius, Mozambique, Myanmar, Oman, Pakistan, Seychelles, Singapore, Somalia, South Africa, Sri Lanka, Tanzania, Thailand, Timor Leste, United Arab Emirates and Yemen

Chairperson

Yutaka MICHIDA, Prof.
Special Presidential Envoy
for UN Ocean Decade
The University of Tokyo (Atmosphere
and Ocean Research Institute)
Kashiwanoha 5-1-5
2778564 Kashiwa
JAPAN

Vice-Chairpersons

Dr Marie-Alexandrine SICRE
Directrice de Recherche
Centre national de la recherche scientifique
(CNRS)
3 rue Michel Ange
75016 Paris
FRANCE

Dr Nikolay VALCHEV
Director
Institute of Oceanology
Bulgarian Academy of Sciences
40 Parvi May Str.
9000 Varna
BULGARIA

Mr Juan Camilo FORERO HAUZEUR
Executive Secretary
Colombian Ocean Commission (COO)
Avenida Ciudad de Cali No. 51 – 66
Edificio WBC, Oficina 306
111071 Bogotá, D.C.
COLOMBIA

Prof. Amr Zakaria HAMOUDA
President of Marine Hazards Mitigation Center
(MHMC)
National Institute of
Oceanography and Fisheries (NIOF)
Qaitbay, Al-Anfoshi
Alexandria
EGYPT

Executive Secretary

Mr Vidar HELGESEN
Intergovernmental Oceanographic
Commission — UNESCO
7 Place de Fontenoy
75352 Paris Cedex 07 SP
FRANCE

The objectives of this training/workshop include:

- Strengthening capacities of IOTWMS Member States to develop Tsunami Evacuation Maps, Plans, and Procedures;
- Strengthening capacities of IOTWMS Member States to implement UNESCO-IOC Tsunami Ready Recognition Programme;
- Sharing lessons learned from the UNESCAP Phase-2c Project on “Strengthening tsunami early warning in the North-West Indian Ocean through regional cooperation”.

On behalf of the UNESCO-IOC IOTIC and the ICG/IOTWMS secretariat, you are invited to nominate two suitably qualified and experienced participants with the following skill sets to attend this training programme:

- **Researcher/Academician/Practitioner/Technical Officer** representing the national agency responsible for Tsunami Inundation Modelling and Mapping (TIMM) with experience in Geographical Information System (GIS). She/He will be responsible for TIMM and the development of an evacuation map.
- **Disaster Risk Reduction Practitioner** representing National/Local Disaster Management Organization with experience in tsunami awareness, preparedness, and capacity development activities at the community level through a participatory approach. Knowledge of the UNESCO-IOC Tsunami Ready Recognition Programme (TRRP) would be an advantage. She/He will be responsible for the development of Tsunami Evacuation Map, Plans and Procedures, on-ground verification of TRRP indicators, and responsible for in-country implementation of TRRP with priority given to the national Tsunami Ready Focal Point.

Both participants will work as a group throughout the training to ensure coordination in the development of the Tsunami Evacuation Map, Plans and Procedures. Participants should bring their computers (laptop or notebook) for the training and installation of QGIS Software. Furthermore, the participants are expected to bring data/information (bathymetry, topography, demography) in GIS format of a vulnerable coastal area within their country where they intend to develop Tsunami Evacuation Plans and implement the UNESCO-IOC TRRP.

Limited funding support is available for participants of Member States who are willing to implement the UNESCO-IOC TRRP in selected community/ies and have existing community preparedness initiatives. Funding support will consist of round-trip air travel (via the shortest and most economical route), shared accommodation, and *per diem*. Member States not eligible for funding support as described above are welcome to nominate participants on a self-funded basis to the limit of the workshops' capacity.

All nominees should complete the attached application form or via the Google form: <https://forms.gle/YMDbschM3PVxgX9S7> and return it along with a photocopy of the information page of their passport to: iotwms@unesco.org and iotic@unesco.org by 28 January 2025. The applicants will be notified of their acceptance by 10 February 2025. Further information on detail agenda, local logistics, hotel accommodation and visa requirements will be sent to participants by the organizer and will also be posted on the website: <https://oceanexpert.net/event/4662> as it becomes available.

Yours sincerely,

[signature]

Vidar Helgesen
Executive Secretary

Enclosures (2): Annex 1 Concept Note of TEMPP 2025
Annex 2 Application Form



Concept Note

Training Workshop on Tsunami Evacuation Maps, Plans, and Procedures (TEMPP) and the UNESCO-IOC Tsunami Ready Recognition Programme (TRIP) for the Indian Ocean Member States

I. Background

The Indian Ocean tsunami on 26th December 2004 resulted in the loss of over 230,000 lives and the displacement of over 1.6 million people around the Indian Ocean, with estimated economic losses of \$14 billion. At the time no tsunami warning system existed for the Indian Ocean and the catastrophe brought renewed focus on the need for a regional tsunami warning system to serve the Indian Ocean countries.

At the UNESCO-IOC 2nd Global Tsunami Symposium on commemorating 20th year of the 2004 Indian Ocean Tsunami, it was agreed that the Indian Ocean is much safer against the threat of tsunamis than it was in 2004. The symposium came up with the statement “Global Tsunami Warning and Mitigation: Building Sustainability for the next decade through Transformation and Innovation”, following which UNESCO and its partners called on States and civil society to drastically step up their investments and efforts to strengthen Tsunami Early Warning Systems and achieve 100% of Tsunami Ready Communities across the world by 2030.

In line with these priorities, the 14th session of the Intergovernmental Coordination Group of Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWMS) in Jakarta, in November 2024, agreed for the UNESCO-IOC Indian Ocean Tsunami Information Centre (IOTIC) and the Secretariat for Intergovernmental Coordination Group for Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWMS) to conduct the Tsunami Evacuation Plans, Maps, and Procedures (TEMPP) training workshop in 2025.

This training workshop will be hosted in Hyderabad during 09 to 20 March 2025 by the Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences (MoES) at the facilities of the International Training Centre for Operational Oceanography (ITCOOcean), a UNESCO Category2Centre.

The UNESCO-IOC IOTIC and the ICG/IOTWMS secretariat implemented the TEMPP training workshops in Indonesia (2017 and 2018) and India (2018) to ensure appropriate response of the community during a tsunami emergency. These events trained participants from the Indian Ocean Member States on how to produce reliable, practical, science-based, and community-driven tsunami evacuation maps. The training provided a methodology for the planning process, information on technical aspects including the development of evacuation strategies, zoning, map design and evacuation procedures and facilitation techniques to ensure a participatory and consultative approach at the community level.

The 2025 TEMPP training will adapt the training workshop that was conducted in Oman in 2024 under the UNESCAP project on “Strengthening Tsunami Early Warning in the North-West Indian

Ocean region through regional cooperation". Under the project no-cost extension agreement, UNESCAP will facilitate the sharing of experiences and good practices from the participating countries with other Indian Ocean Countries. The 2025 TEMPP training will also be expanded to include the introduction and implementation of the UNESCO-IOC Tsunami Ready Recognition Programme (TRRP) which will benefit all participants.

Through joint funding of the UNESCO-IOC, UNESCAP, IOTIC-BMKG, and INCOIS, the training workshop will include at least 2 participants from each ICG/IOTWMS member state. Having at least 2 participants from different organizations responsible for tsunami inundation map development and community tsunami evacuation and response plan will establish a strong planning team in the country that could support the implementation of the UNESCO-IOC Tsunami Ready Recognition Programme in the country.

II. Objectives:

- Strengthening capacities of IOTWMS Member States to develop Tsunami Evacuation Maps, Plans, and Procedures
- Strengthening capacities of IOTWMS Member States to implement UNESCO-IOC Tsunami Ready Recognition Programme
- Sharing lessons learned from the UNESCAP Phase-2c Project on "Strengthening tsunami early warning in the North-West Indian Ocean through regional cooperation"

III. Output:

- Participants will be able to develop Tsunami Evacuation Maps, Plans and Procedures based on a strong understanding of Tsunami Inundation Modelling and Mapping
- Participants will be able to develop an Implementation Plan to implement the UNESCO-IOC Tsunami Ready Recognition programme within their countries

IV. Venue:

International Training Centre for Operational Oceanography (ITCOOcean), UNESCO Category2Centre,
Indian National Centre for Ocean Information Services (INCOIS),
Hyderabad, India

V. Dates:

09 – 20 March 2025

VI. Programme:

The training will be organized during 9 – 20 March 2025 and will comprise the following modules:

- Tsunami Inundation Modeling and Mapping (TIMM): 9-13 March 2025
- Tsunami Evacuation Maps, Plans and Procedures (TEMPP): 12-15 March 2025
- Tsunami Ready Implementation Planning (TRIP): 17-20 March 2025

Day 0 Sunday 9 March'25	Day 1 Monday 10 March'25	Day 2 Tuesday 11 March'25	Day 3 Wednesday 12 March'25	Day 4 Thursday 13 March'25	Day 5 Friday 14 March'25	Day 6 Saturday 15 March'25	Day 7 Sunday 16 March'25	Day8 Monday 17 March'25	Day9 Tuesday 18 March'25	Day 10 Wednesday 19 March'25	Day 11 Thursday 20 March'25
1	2	3	4	5							
Arrival of Tsunami Modelling and Inundation Mapping (TIMM) Participants	TIMM (Day 1)	TIMM (Day 2)	TIMM (Day 3)	TIMM (Day 4)							
		1	2	3	4	5	6	7	8	9	Departure of Tsunami Evacuation Map, Plans and Procedures (TEMPP) and Tsunami Ready (TRIP) Participant
		Arrival of Tsunami Evacuation Map, Plans and Procedures (TEMPP) and Tsunami Ready (TRIP) Participants	TEMPP (Day1)	TEMPP (Day2)	TEMPP (Day3)	TEMPP (Day4)	Free Day	TRIP (Day1)	TRIP (Day2)	TRIP (Day3)	

VII. Participants:

The total number of participants is expected to be around 60. Each ICG/IOTWMS Member State (list provided below) will be invited to nominate 2 suitably qualified and experienced participants with the following skill sets to attend this training programme:

1) Researcher/Academician/Practitioner/Technical Officer representing the national agency responsible for Tsunami Inundation Modelling and Mapping (TIMM) with experience in Geographical Information System (GIS). She/He will be responsible for TIMM and the development of an evacuation map.

2) Disaster Risk Reduction Practitioner representing National/Local Disaster Management Organisation with experience in tsunami awareness, preparedness, and capacity development activities at the community level through a participatory approach. Knowing the UNESCO-IOC Tsunami Ready Recognition Programme (TRRP) would be an advantage. She/He will be responsible for the development of Tsunami Evacuation Map, Plans and Procedures, on-ground verification of TRRP indicators, and responsible for in-country implementation of TRRP with priority given to the national Tsunami Ready Focal Point (TRFP).

Australia, Bangladesh, Comoros, Djibouti, France, India, Indonesia, Iran, Kenya, Madagascar, Malaysia, Maldives, Mauritius, Mozambique, Myanmar, Oman, Pakistan, Seychelles, Singapore, Somalia, South Africa, Sri Lanka, Tanzania, Thailand, Timor Leste, United Arab Emirates, Yemen

VIII. Trainers, organizers, and facilitators:

- UNESCO-IOC Indian Ocean Tsunami Information Centre
- UNESCO-IOC ICG/IOTWMS Secretariat
- Experts from India, Indonesia, Iran, and Pakistan

IX. Budget:

- INCOIS: In-kind (training venue, accommodation, meals, and local transport)
- UNSCAP Project TTF 32
- UNESCO-IOC (IOTIC)
- UNESCO-IOC (IOTWMS)



ANNEX 2: APPLICATION FORM

UNESCO-IOC

Intergovernmental Coordination Group for the Indian Ocean Tsunami Warning and Mitigation System (ICG/IOTWMS) and Indian Ocean Tsunami Information Centre (IOTIC)

**Training/Workshop on
Tsunami Evacuation Maps, Plans, and Procedures (TEMPP)
and the UNESCO-IOC Tsunami Ready Recognition Programme
(TRIP)
for the Indian Ocean Member States
09-20 March 2025**

**Venue: International Training Centre for Operational Oceanography (ITCOcean),
UNESCO Category2Centre,
Indian National Centre for Ocean Information Services (INCOIS), Hyderabad, India**

APPLICATION FORM

Deadline for applications is 28 January 2025. Successful applicants will be contacted by 10 February 2025. Applications should be sent to the ICG/IOTWMS Secretariat and IOTIC by email to: iotwms@unesco.org and iotic@unesco.org.

Please indicate:

Are you a Researcher/Academician/Practitioner/Technical Officer with background/ knowledge/ experience in Tsunami Modelling

Are you a Researcher/Academician/Practitioner/Technical Officer with background/ knowledge/ experience in Geographical Information System (GIS)

Are you a Researcher/Academician/Practitioner/Technical Officer with background/ knowledge/ experience in developing tsunami evacuation maps

Are you a middle to senior Disaster Risk Reduction Practitioner with background/ knowledge/ experience in community preparedness activities

Are you a middle to senior Disaster Risk Reduction Practitioner representing National/Local Disaster Management Organisation or National Tsunami Warning Centre

Have you attended any TEMPP Training before:

- TEMPP 2017
 TEMPP 2018
 Other TEMPP

Do you know or have been engaging with the implementation of Tsunami Ready?

Are you the Tsunami Ready Focal Point

1. PERSONAL INFORMATION

FULL NAME (as per passport)	
TITLE	<input type="checkbox"/> DR. <input type="checkbox"/> MR. <input type="checkbox"/> MS. <input type="checkbox"/> others
GENDER	<input type="checkbox"/> MALE <input type="checkbox"/> FEMALE
DATE OF BIRTH (DD-MM-YYYY)	
NATIONALITY	
ORGANISATION AND POSITION	
ADDRESS	
TELEPHONE NUMBER	
EMAIL ADDRESS	

2. EDUCATIONAL BACKGROUND

LEVEL	SCHOOL	DEGREE	YEAR GRADUATED
TERTIARY			
MASTERS			
DOCTORAL			

3. TSUNAMI RELATED TRAINING ATTENDED

TITLE OR SUBJECT	CONDUCTED BY	INCLUSIVE DATES

4. OTHER TSUNAMI-RELATED JOB EXPERIENCE

OFFICE / ORGANIZATION JOB DESCRIPTION	POSITION	DATES

5. TRAVEL INFORMATION

Please attach a scanned copy of the personal details page of your passport, which must have a minimum of 6 months' validity from the date of the workshop (at least until October 2025).

FULL NAME (AS PRINTED ON PASSPORT)	
DATE OF BIRTH (DD-MM-YYYY)	
PASSPORT ISSUING COUNTRY	
PASSPORT NUMBER	
DATE OF ISSUE	
PLACE OF ISSUE	
EXPIRY DATE	
NEAREST INTERNATIONAL AIRPORT	

6. OTHER

ENGLISH LANGUAGE PROFICIENCY		
<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair
<input type="checkbox"/> Poor		

G. Why are you interested in attending this training? Please explain your motivation.

H. After the training, where and how will the experience gained be used?

I. Please also separately submit your Curriculum Vitae (CV) and a copy of the information pages for your valid passport (the passport validity should be at least until October 2025).

PRINTED NAME AND SIGNATURE OF APPLICANT

DATE:

(_____)

8. ENDORSEMENT OF TSUNAMI NATIONAL CONTACT (TNC):

Printed Name (TNC)

Signature

Organization

Date