





Oceanographic

Commission

Information Meeting

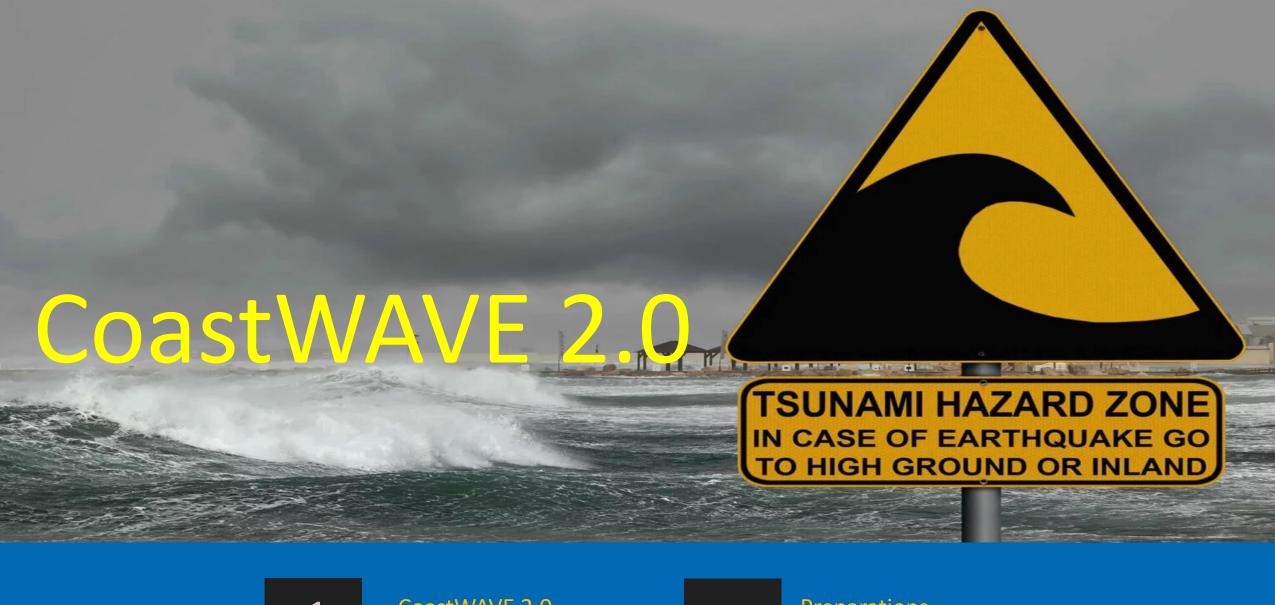
25 April 2024

IOC UNESCO EU DG ECHO

CoastWAVE 2.0

Denis Chang Seng, PhD

Programme Specialist
ICG/NEAMTWS Technical Secretary
CoastWAVE Project Responsible Officer
Tsunami Resilience Section
UNESCO IOC



CoastWAVE 2.0

)

Preparations





New IOC DG-ECHO Funded CoastWAVE Project

CoastWAVE 2.0

Scaling-Up and Strengthening the Resilience of Coastal Communities in the North-Eastern Atlantic and Mediterranean Regions to the Impact of Tsunamis and other Sea level-related coastal hazards.

Amount: 1.2 M Euros -Phase –II

• **Start**: 1 July 2024

Duration: 2 years

Direct Beneficiary Countries: Max 8

 Maintaining CoastWAVE countries: Egypt, Greece, Morocco, Spain, Türkiye (Malta and Cyprus indicated future interest)

• **Proposed new countries**: France, Italy & Portugal







CoastWAVE 2.0 Team









Derya Vennin
Associate Project Officer
(CoastWAVE Project
Coordinator)
Tsunami Resilience Section

Anzhela Danilova
Project Assistant
CoastWAVE
Tsunami Resilience
Section

Denis Chang Seng
Programme Specialist and
Technical Secretary
ICG/NEAMTWS,
CoastWAVE Project
Officer

Bernardo Aliaga Head Tsunami Resilience Section

CoastWAVE 2.0 Project Components

1

Component 1: Build and strengthen tsunami hazard assessments and evacuation mapping, risk knowledge, risk communication, and decision-making capacities.

2

Component 2: Scale-up and expand Tsunami Ready in selected NEAM countries.

3

Component 3: Enhance and densify detection, monitoring, and alerting systems.

4

Component 4: Enhance Dialogues on HILP (Tsunami) events within a multi-hazard context to improve strategies and effective decision-making capabilities.

CoastWAVE 2.0 Project Outcomes

1 comp 1 2

3 - 4 - 5

Outcome 1:

Standard and improved tsunami hazard assessments and evacuation mapping based on probabilistic and or non-probabilistic approaches for better planning, decision making at national to local level.

Outcome 2:

Enhanced understanding and communication of tsunami and other sea level-related risk in selected communities in NEAM countries.

Outcome 3:

More coastal communities and countries in the NEAM region joining the UNESCO-IOC Tsunami Ready Programme to be better prepared to respond to sea-level related hazards.

Outcome 4:

Increased/improved access to near real-time seismic and/or sea level detection and alert technology to provide early warning of rapid onset sea level-related hazards.

Outcome 5: Improved

understanding and knowledge of how to address HILP (Tsunami), highlighting strategies and procedures to better factor and integrate tsunamis in MHEWS approaches, and enhance real time decision making and long-term planning

COMPONENT 1

BUILDING AND STRENGTHENING TSUNAMI HAZARD ASSESSMENT, RISK KNOWLEDGE, RISK COMMUNICATION AND DECISION-MAKING CAPABILITIES € 118,214.00

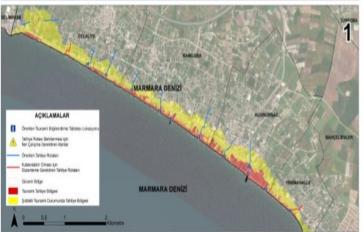
- OUTCOME 1: STANDARD AND IMPROVED TSUNAMI HAZARD ASSESSMENTS AND EVACUATION MAPPING FOR BETTER PLANNING AND DECISIONS AT LOCAL LEVEL.
- Output 1.1 (Currently 1.2)
- ➤ Enhanced Capacity Building and Training in PTHA and non-PTHA [Funded by TSR Core budget] and evacuation mapping
- Output 1.2 (Currently 1.1)
- ➤ Tsunami Ready Indicator on Assessment 1: Tsunami Hazard zones are mapped and designated.
 - High-resolution maps illustrating tsunami hazard zones, including areas prone to inundation and potential impact scenarios based on PTHA or non-PTHA (Project country to decide approach)



İSTANBUL İLİ TSUNAMİ EYLEM PLANI HAZIRLANMASI PROJESİ BÜYÜKÇEKMECE İLÇESİ EYLEM PLANI ÖRNEĞİ

İstanbul Büyükşehir Belediyesi Deprem Risk Yönetimi ve Kentsel İyileştirme Daire Başkanlığı Deprem ve Zemin İnceleme Müdürlüğü











- Output 1.3
- ➤ Tsunami Ready Indicator on Preparedness 1: Tsunami Evacuation maps (Approved at later stage)
- Proposed Activities
- 1. Organize 1 regional workshop and national-local workshop(s)
 - a. Regional non-PTHA (1 Day) and PTHA (2 Days), and evacuation mapping (2 Days) [5 Days total]
 - b. National to local in each project country on Non-PTHA or PTHA and evacuation mapping (2-3 days) based on Member State choice /preference.
- 2. Prepare maps in interactive and accessible formats.
- 3. Disseminate results to relevant stakeholders.
- 4. Prepare a report to be submitted to the ICG Steering Committee and ICG session by the end of the project.





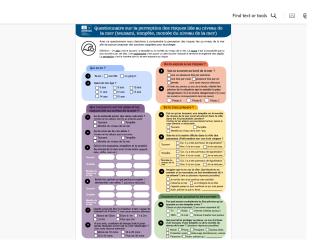
OUTCOME 2: ENHANCED UNDERSTANDING AND COMMUNICATION OF TSUNAMI AND OTHER SEALEVEL RELATED RISK IN SELECTED COMMUNITIES OF THE NEAM REGION

- Output 2.1
- Tsunami and other sea level-related risk perception for enhanced risk communication strategies and products to support effective decision making at national and local level
- Output 2.2
- Tsunami and sea-level risk information packaged and shared to different target groups, including schools and Civil Protection Agencies in NEAM countries.

Proposed Activities

- Identify the target groups in each project community in consultation with local partner agencies.
- Disseminate the survey in the target groups within the selected project communities. .
- Write the study report, translate into Arabic, Spanish and French and circulate to partner agencies, target communities and ICG/NEAMTWS WG 4
- Integrate and package findings and share tsunami and sea level hazard risk communication and dissemination strategies, tools and products with stakeholders.







Questions?

Next Comp 2



COMPONENT 2

SCALING -UP UNESCO-IOC TSUNAMI READY € 279,444.00

OUTCOME 3

More coastal communities in NEAM countries joining Tsunami Ready Programme to better prepare to respond to sea level related hazards.

Output 3.1

•Needs, resources, capacities, stakeholders, partners, and requirements, support for the Tsunami Ready programme assessed.

Output 3.2

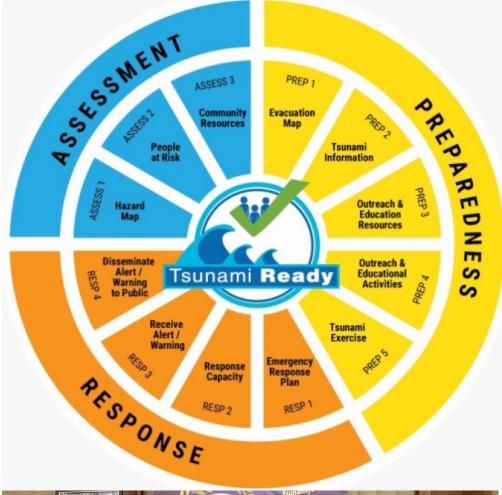
•NEAMTWS Member States implement Tsunami Ready programmes based on UNESCO Manual and Guide 74, including the Governance structure, National Tsunami Ready Board

Output 3.3

•Selected communities recognized as Tsunami Ready by the National Tsunami Ready Boards (or national equivalent) and IOC/UNESCO.

Proposed activities in line with the TR Indicators (M & G 74) [Except Asses 1 and Prep 1]

- •Organize Tsunami Ready workshops for the selected communities.
- •Organize national to local level Tsunami Awareness and Standard Operating Procedures (SOP) workshops in selected countries.
- •Conduct a tsunami community exercise following the guidelines of ICG/NEAMTWS NEAMWave Exercise .
- Organise Tsunami Ready recognition event ceremony





COMPONENT 3

ENHANCE AND DENSIFY, DETECTION, MONITORING, AND ALERTING SYSTEMS

€ 209.228.40



Raspberry Shake

Training

VATCH THE EARTH MOVE

Installation/ maintenance

Integration

OUTCOME 4

 Increased access to near real time seismic detection and alert technology to provide early warning of rapid onset sea levelrelated hazards in selected new coastal communities.

Out

• Tsunania (including seismic) and alerting sirens) installed or upgraded at selected sites.

Output 4

out 4.6

• Open training instal a, operation and intenance of tsunami detection ding seismic) and alerting s (e.g. sirens).

Planning

Output 4.3

 New Affordable Sea level devices for Tsunami detection and alerting systems installed at selected sites.

Output 4.4

 Operators trained in the installation, operation and maintenance of affordable sea level devices.

Output 4.5

 The effectiveness, compatibility, performance and benefits of the new affordable sea-level devices in NEAMTWS countries evaluated and submitted to the ICG/NEAMTWS. Maintenance programme and budget for the new affordable sea level devices prepared for follow up activities.

Output 4.7

 Affordable sea-level devices network fully integrated into the IOC/UNESCO Sea Level Station Monitoring Facility

Proposed activities

- Identify local partners to operate and maintain the alerting systems and affordable sea-level devices.
- Conduct site surveys to identify optimum locations for the tsunami detection and alerting systems, including affordable sea-level devices.
- Supply, install and commission tsunami detection and alerting systems and affordable sea-level devices.
- Conduct training course for local operators on the operation and maintenance of the tsunami detection and alerting system, and sea-level devices.
- Integrate tsunami detection and alerting systems and affordable sea-level devices into a national sea level hazard warning system in selected communities.





Questions?

Next Comp 4



COMPONENT 4

ENHANCING DIALOGUES WITH EMERGENCY RESPONDERS, DECISION MAKERS ON HILP (TSUNAMI) EVENTS WITHIN A MHEWS CONTEXT € 13,650 Euros + Budget Realignment (10 k) and Core Programme Budget (7k) [€ 30,000]

OUTCOME 5

STAKEHOLDERS UNDERSTAND AND HAVE THE KNOWLEDGE AND CAPACITY TO INTEGRATE RARE, BUT HIGH IMPACT TSUNAMI EVENTS IN MULTI-HAZARD APPROACHES, DECISION-MAKING AND PLANNING

O Output 5.1

Enhanced dialogues and training with first and second level responders, including Civil Protection Agencies, government, non-governmental organizations and the professional and private sectors, media, citizens schools and others on HILP (Tsunami) and tsunami alerting systems within a MHEWS context./framework.

Output 5.2

Developed best practices with the identification of specific challenges of knowledge transfer regarding HILP (Tsunami) events.

Proposed Activities

- i. Develop a literature analysis on HILP (Tsunami) in the context of MH/ MHEWS approaches
- ii. Organize a series of dialogues (2) and awareness workshops with various stakeholders on high impact low probability tsunami events in a multi-hazard context.
- iii. Develop and distribute outreach and public educational materials highlighting different scientific knowledge, tools, as well as management and planning strategies in dealing with threats of various probabilities of occurrence, including tsunamis.
- iv. Prepare a guideline/report on best practices and specific challenges of knowledge transfer regarding HILP events.



			and the same of th	2007/07/2010/07/07/07/07/07/07/07/07		
			Little or No Effect	Effects are Felt but Not Critical	Serious Impact to Course of Action and Outcome	Could Result in Disasters
Likelihood	Improbable	Risk Unlikely to Occur				
	Possible	Risk Will Likely Occur				
	Probable	Risk Will Occur				



	may jun jul aug sep		154,568	95,054	154,
 Project Support 	Cost (7%) € 78,5		56,845	99,011 99,216 101,090	15
		125,400 124,000 105,450	150,000 35,000 83,000	101,684	
		86,502	45,000	102,747	

Provisional Work Plan

	Year 1				Year 2																
INCEPTION PHASE Project setup, recruitment of project coordinator and assistant, inception workshop and report		Q1			Q2		Q3		Q4		Q1			Q2			Q3			Q4	
COMPONENT 1 – Building and Strengthening Tsunami Hazard Assessment, Risk Knowledge, Risk Communication and Decision-Making Capabilities																					
Outcome 1. Enhanced understanding and communication of tsunami and other sealevel related risk in selected communities in the selected NEAM countries.																					
Outcome 2. Standard and improved tsunami hazard assessments based on PTHA for better planning and improved understanding, effective communication and better decision-making from regional, national to local level of tsunami.																					
COMPONENT 2 – Scaling-Up and Expanding Tsunami Ready in NEAM Countries																					
Outcome 3. More coastal communities in NEAM countries joining Tsunami Ready Programme to better prepare to respond to sea level-related hazards.																					
COMPONENT 3 – Enhancing and Improving Detection, Monitoring and Alerting System in a Multi-Hazard Context																					
Outcome 4. Increased access to near real time seismic detection and alert technology to provide early warning of rapid onset sea level-related hazards in selected new coastal communities.																					
COMPONENT 4 – Enhancing Dialogues with Emergency Responders, Decision Makers on Low Probability High Impact Tsunami Events within a MH context to Improve Strategies and Decision-Making Capabilities																					
Outcome 5. Stakeholders understand and have the knowledge and capacity to integrate rare, but high impact tsunami events in multi-hazard approaches, decision-making and planning.																					
Project Reporting and Closure											Ľ										

On Going Preparations to kick Start CoastWAVE 2.0 Project

- 2 April: Announcement to ICG/NEAMTWS Members States (IOC CL 2992)
- First Week of May: Letters to MS. Confirm interest , project focal point(s)
- 25 April: CoastWAVE 2.0 Information Meeting
- 30 April : Deadline to confirm interest
- Mid May: Project meetings. Discuss best way forward/modalities of implementation
- End of May: Submit CoastWAVE 2.0- as a new Ocean Decade Action
- 1 July: Project officially starts
- Mid July: Implementation Partnership Agreement (IPA) signed
- Summer Holiday
- By end of August: Launch of CoastWAVE 2.0 with project partners
- October: Regional workshop on hazard assessment and evacuation mapping [5 Days]



INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION COMMISSION OCÉANOGRAPHIQUE INTERGOUVERNEMENTALE COMISIÓN OCEANOGRÁFICA INTERGUBERNAMENTAL MEXTIPABUTEЛЬСТВЕННАЯ ОКЕАНОГРАФИЧЕСКАЯ КОМИССИЯ

اللجنة الدولية الحكومية لعلوم المحيطات

政府间海洋学委员会

UNESCO - 7 Place de Fontenoy - 75352 Paris Cedex 07 SP, France http://ioc.unesco.org - contact phone: +33 (0)1 45 68 03 18 E-mail: ioc.secretariat@unesco.org

IOC Circular Letter No 2992 (Available in English and French)

2 April 2024 IOC/VX/DCS

To: ICG/NEAMTWS Tsunami National Contacts (TNCs) ICG/NEAMTWS Tsunami Warning Focal Points (TWFPs) ICG/NEAMTWS Officers ICG/NEAMTWS Steering Committee

Official National Coordinating Bodies for liaison with IOC
Permanent Delegation/Observer Mission to UNESCO, and
National Commissions for UNESCO in ICG/NEAMTWS Member States
European Commission Directorate-General for European Civil Protection and Humanitarian
Aid Operations (ECHO) Directorate A – Emergency Management and rescEU

Subject: Announcement-New Project "Scaling-Up and Strengthening the Resilience of Coastal Communities in the North-Eastern Atlantic and Mediterranean Regions to the Impact of Tsunamis and Other Sea Level-Related Coastal Hazards (CoastWAVE 2.0 Project)

I am pleased to announce that the IOC's proposal "Scaling-Up and Strengthening the Resilience of Coastal Communities in the North-Eastern Atlantic and Mediterranean Regions to the Impact of Tsunamis and Other Sea Level-Related Coastal Hazards" (hereinafter referred to as the CoastWAVE 2.0 Project) has been approved for funding by the European Commission's Directorate-General for European Civil Protection and Humanitarian Aid Operations (DG-ECHO) in December 2023. The project is under the responsibility of UNESCO/IOC and its ICG/NEAMTWS Technical Secretariat.

The CoastWAVE 2.0 Project will build on Phase-I of the CoastWAVE Project, also approved as an Ocean Decade Action and implemented from 1 September 2021 to 30 June 2024. As Phase-I draws to a close, preparations are underway for a final project meeting in June 2024 (date and venue to be announced by the Tsunami Resilience Section Project Team on the project web page), at which the main results and outcomes will be presented.

The 24-month CoastWAVE 2.0 Project will officially start on 1 July 2024. It will directly benefit some of the countries currently participating in the CoastWAVE project Phase-1 as well as new countries. An online information meeting on the new project is planned on 25 April 2024. A kick-off workshop and the official launch of the project are envisaged for late August/early September 2024 (date and venue to be announced on the <u>project web page</u>). Please find additional information in the attached summary.

Chairperson

Dr Yutaka MiCHIDA Professor Almosphere and Ocean Research Institute, The University of Tokyo Kashiwanoha 5-1-5 2778564 Kashiwa

Executive Secretary

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

Vice-Chairpersons

Dr Nikolay VALCHEV

Bulgarian Academy of Sciences

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

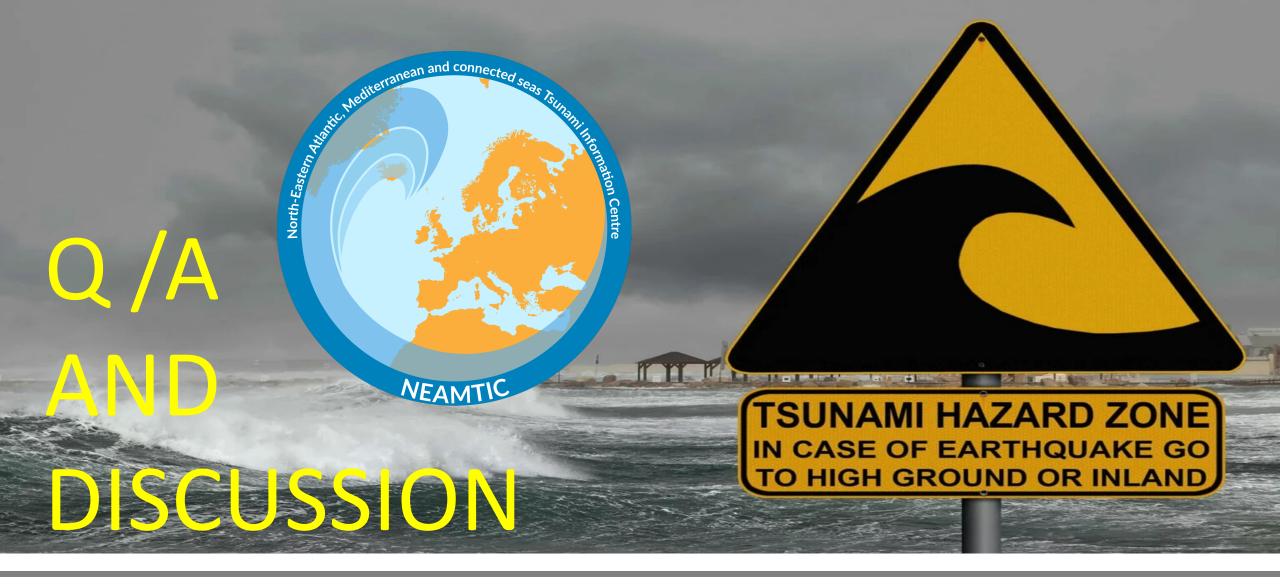
Dr Srinivasa Kumar TUMMALA Director Indian National Centre for Ocean Information Services (INCOIS) Pragatith Nagar (BO), Nizampet (SO) Hyderabad 500090

Executive Secretary

Edifido WBC, Ofidna 306

Mr Juan Camilo FORERO HAUZEUR

Colombian Ocean Commission (CC Avenida Ciudad de Call No. 51 – 66 Prof. Amr Zakaria HAMOUDA President National institute of Oceanography and Fisheries (NIOF) Qalibay, Al-Anfoshi Alexandria EGYPOT







Your feedback is very important/appreciated/welcome Thank you.

d.dilmen-vennin@unesco.org | a.danilova@unesco.org and d.chang-seng@unesco.org