



# UNESCO-IOC Expert Meeting on Tsunami Sources Associated with Hellenic Arc and Azores–Gibraltar Fault Zone in the North-Eastern Atlantic, the Mediterranean, and Connected Seas (NEAM) Region

## AGENDA AND TIMETABLE

**Date:** 18-20 March, 2025

**Location:** UNESCO-IOC Meeting Room VII, 5 Pl. de Fontenoy, 75007, Paris, France

### 1. KEY AIM AND OBJECTIVES

The key aim of the meeting is to launch the second phase of CoastWAVE Project (CoastWAVE 2.0) which officially commenced on 1 July 2024.

The primary objectives of this meeting include:

Understanding Tsunami Sources:

- Identify and analyze tsunami sources in the Northeastern Atlantic, Mediterranean, and Connected Seas (NEAM) region, focusing particularly on the Hellenic Arc and Azores-Gibraltar Fault Zone (AGFZ).
- Differentiate between seismic and non-seismic sources (e.g., volcanic eruptions, landslides) contributing to tsunami generation.

Evaluation of Current Knowledge and Gaps:

- Review and assess the completeness, reliability, and uncertainties in existing databases, catalogues, and data compilations related to tsunamigenic sources.
- Address gaps in historical tsunami records, particularly pre-1900 events, and the identification of active submarine faults.

Developing Criteria for Source Credibility:

- Establish criteria and approaches for determining credible tsunami sources

- Explore the role of probabilistic approaches and address uncertainties in source selection.

#### Regional Focus:

- Conduct detailed examinations of tsunami sources in the Hellenic Arc and AGFZ regions, including segmentation and potential for tsunami generation from seismic, volcanic, and landslide sources.

#### Facilitating Expert Collaboration and Knowledge Exchange:

- Organize sessions with a mix of plenary discussions and working groups to ensure in-depth analysis and collaborative decision-making.
- Provide a platform for experts to present findings, share insights, and engage in discussions to refine methodologies.

#### Synthesizing Findings and Recommendations:

- Develop conclusive recommendations on credible tsunami sources for DG ECHO CoastWAVE 2.0 Project.
- Prepare a roadmap for improving tsunami hazard assessment and mitigation strategies.

## 2. PROVISIONAL TIMETABLE

### DAY 1 (18 March 2025- Room VII):

Item	Time (Paris)	Topic	Lead
<b>8:45am-9am- Pre-session Breakfast at the “Mall”</b>			
Overall Moderator-Derya Vennin			
<b>Session 1.</b>	<b>The CoastWAVE 2.0 Project (plenary)</b>		
1	09.00am-09.15am	Welcome and Introduction ICG/NEAMTWS (all tsunami sources)	Denis Chang Seng (Technical Secretary of ICG/NEAMTWS) EU DG ECHO (The project donor)
2	09.15am-9.30am	Introduction to DG ECHO CoastWAVE 2.0 and its objectives – Scope of the Meeting	Derya Dilmen Vennin (DG ECHO CoastWAVE project coordinator)
<b>Session 2</b>	<b>Status of databases and catalogues of interest for the tsunami generation and impact in the NEAM region (plenary)</b>		
3	09.30am-9:45am	Introduction – Organization of the session	Chair- Jorge Macías Sánchez
4	9:45am-10:15am	State-of-the-art of databases and catalogues including the TSUMAPS-NEAM Project	Introductory talk by Roberto Basili

Item	Time (Paris)	Topic	Lead
5	10.15am -10:30am	Short presentations by the participants.	1. José Antonio Alvarez Gomez
6	10.30am-11pm	Databases and catalogues: Discussion on their, uncertainties, completeness, availability and reliability.	Moderator: Didem Musavver Cambaz - KOERI, Türkiye (Plenary)
<b>Coffee Break(11am-11.30am)</b>			
6	11.30am-12.15pm	Databases and catalogues: Discussion on their, uncertainties, completeness, availability and reliability.	Moderator: Didem Musavver Cambaz - KOERI, Türkiye (Plenary)
7	12.15pm-12.30pm	Summary of Discussions	Moderator: Didem Musavver Cambaz - KOERI, Türkiye (Plenary)
<b>Lunch Break (12.30pm-1.30pm)</b>			
<b>Session 3. Seismic zones and sources in the NEAM region - Their tsunamigenic potential (plenary)</b>			
8	1.30pm-1.45pm	Introduction – Organization of the session	Chair- Jorge Macías Sánchez
9	1.45-2.15pm	Main tsunamigenic seismic zones in the NEAM region - An overview.	Introductory talk by Gerassimos Papadopoulos.
10	2.15pm -3pm	Short presentations by the participants.	1. Marc-Andre Gutscher-confirmed 2. Hélène Hebert-invited 3- Ioanna Triantafyllou
11	3pm -4pm	Interactive Discussions: Determination of the potential for tsunami generation in the <b>several</b> seismic zones - Criteria and approaches	
<b>Coffee Break (4pm-4.30pm)</b>			
12	4.30pm-5.30pm	Interactive Discussions: Determination of the potential for tsunami generation by <b>individual</b> seismic sources - Criteria and approaches	Moderator: Nikos Kalligeris – NOA, Greece (plenary)
13	5.30-6pm	Summary of Interactive Discussions	

**DAY 2 (19 March 2025- Room VII):**

Item	Time (Paris)	Topic	Lead
<b>Session 4 Non-seismic tsunami sources in the NEAM region (plenary)</b>			
1	9am-9.10am	Introduction – Organization of the session (plenary)	Chair- Jorge Macías Sánchez
2	9.10am-9.40am	Volcanic and landslide tsunami sources in the NEAM region - An overview.	Introductory talk by Raphael Paris
3	9.40am-10am	Short presentations by the participants	1. Dimitra Salmanidou
4	10am -11am	Interactive Discussions: Potential for tsunami generation by non-seismic sources. Criteria and approaches.	Plenary
<b>Coffee Break(11am-11.30am)</b>			
<b>Session 5 Identification of credible tsunami sources in the NEAM region for the needs of CoastWAVE 2.0 Project and ICG/NEAMTWS: criteria and approaches</b>			
5	11.30am-11:45am	Introduction – Organization of the session (plenary)	Chair- Jorge Macías Sánchez
6	11.45am-12:15pm	The role of probabilistic approach in tsunamigenic source selection	Introductory talk by Joern Behrens
7	12.15pm-12.45pm	Parallel Working Group 1 : Seismic versus non-seismic sources : Reasons for preference?	WG1
8	12.15pm-12.45pm	Parallel Working Group 2: Uncertainties and determination of credibility	WG2
9	12.45pm-1pm	Brief Reporting from Working Groups	WG1 And WG2
<b>Lunch Break (1pm-2pm)</b>			
<b>Session 6. Tsunami sources in the Hellenic Arc</b>			
10	2pm-2.15pm	Introduction – Organization of the session (plenary)	Chair- Jorge Macías Sánchez
11	2.15pm-2.45pm	Overview of tsunamis produced by various sources in the Hellenic Arc	Introductory talk by Ahmet Yalciner
12	2.45pm-3.45pm	Short presentations by the participants.	1. Vasiliki Mouslopoulou 2. Alina Polonia 3. Mohammad Heidarzadeh 4. Gian Maria Bocchini
13	3.45pm -4pm -coffee break at 4pm	Parallel Working Group 1 (WG1): Rupture zones of large earthquakes, segmentation of the Hellenic Arc and the potential for tsunami generation from seismic faults	WG1
14	3.45pm -4pm -coffee break at 4pm	Parallel Working Group 2 (WG2): The potential for tsunami generation from	WG2

		volcanic activity and landslides in the Hellenic Arc region	
	<b>Coffee break (4pm-4.30pm)</b>		
13 (cont.)	4.30pm -5.15pm -	Parallel Working Group 1 (WG1): Rupture zones of large earthquakes, segmentation of the Hellenic Arc and the potential for tsunami generation from seismic faults (cont.)	WG1
14 (cont.)	4.30pm -5.15pm	Parallel Working Group 2 (WG2): The potential for tsunami generation from volcanic activity and landslides in the Hellenic Arc region (cont.)	WG2
15	5.15-5.45pm	Brief reporting from WG 1 and WG2	WG1 and WG2
16	5.45pm -6pm	General discussion – Conclusions- Credible tsunami sources in the Hellenic Arc region	

**DAY 3 (20 March 2025- Room VII):**

Item	Time (Paris)	Topic	Lead
<b>Session 7.</b>	<b>Tsunami sources in the Azores-Gibraltar Fault Zone (AGFZ)</b>		
1	9am-9.10am	Introduction – Organization of the session (plenary)	Chair- Jorge Macías Sánchez
2	9.10am-9.30am	Overview of tsunamis produced by various sources in the AGFZ:	Introductory talk by Maria Ana Baptista
3	9.30am-10:15am	Short presentations by the participants.	1. Pedro Costa 2. Arantza Ugalde 3. Rachid Omira
4	10:15am-10.45am	Parallel Working Group 1. Ruptures zones of large earthquakes, segmentation of the AGFZ and the potential for tsunami generation from seismic faults	WG1
5	10:15am-10.45am	Parallel Working Group 2. The potential for tsunami generation from volcanic activity and landslides in the AGFZ region	WG2
6	10.45am-11am	Brief Reporting - Working Group 1 and 2 (plenary).	WG1 and WG2
<b>Coffee Break (11am-11.30am)</b>			
7	11.30am-12pm	Credible tsunami sources in the AGFZ region: General discussion – Conclusions.	Plenary
<b>Session 8.</b>	<b>General discussion – Conclusions and Recommendations (plenary)</b>		
8	12pm-12.30pm	Main Findings from sessions 1-7: General discussion	Plenary
9	12.30-1pm	Conclusions-Recommendations (panel, IOC, CoastWAVE 2)	Plenary
10	1pm-1.15pm	Wrap-up/Schedule for final Reporting/IOC Programme Report)	Plenary