

Working Group 4 Public Awareness, Preparedness and Mitigation

Chair: Cecilia Valbonesi (University of
Florence – INGV)

NEAMTWS Experts Meeting Implementing NEAMTWS 2030 Strategy Opportunities and Actions to Explore

28-30 Nov, Naples, Italy



PILLAR 3: Awareness and Response

- **Objective 3.1:** Understanding perceptions of coastal hazards and risks
- **Objective 3.2:** Strengthen public and local authority awareness of tsunami and associated hazards and how to prepare to respond
- **Objective 3.3:** Develop tsunami-related curriculum programmes for all levels of education
- **Objective 3.4:** Develop and deliver suitable and sustainable capacity-building programmes to facilitate effective and efficient response and coordination
- **Objective 3.5:** Develop and maintain the NEAMTIC tsunami information website
- **Objective 3.6:** Establish rapid and effective evacuation mechanisms given the risk assessment guidance and data
- **Objective 3.7:** Develop and conduct regular exercises to test early warning systems and evacuation mechanisms
- **Objective 3.8:** Roll out the “Tsunami Ready” initiative in coastal communities

Objective 3.1: Understanding perceptions of coastal hazards and risks

- Webinar on Tsunami Risk perception in NEAM region, on 9 November 2022
- Ongoing studies in different countries:
 - Review paper on global+NEAM risk perception studies – to be presented on 30 Nov 2022 (Cugliari et al., FRONTIERS in Earth Science, 2022)
 - CoastWAVE in several NEAM countries
 - New results from several Italian regions (NHES in press) (Cugliari et al., 2022)
 - France: the TASAOMA project - <https://arcg.is/0ifqmH>, led between 2019 and 2021. 750 questionnaires on 6 communes in the French Mediterranean. The results are not published yet (M. Péroche).
 - Others?

Webinar on tsunami risk perception studies within the NEAM region

November 9, 2022

- **10:30-10:35** | Cecilia Valbonesi NEAM WG4 – *"Welcome"*
- **10:35-10:55** | Denis Chang-Seng - NEAM Secretariat
"Risk perception studies within Coastwave project"
- **10:55-11:05** | Alessandro Amato - Massimo Crescimbene - Federica La Longa
"Studies about tsunami risk perception in different geographical risk contexts and in Italy"
- **11:05-11:30** | Lorenzo Cugliari - Loredana Cerbara
"The survey from Central and Southern Italy: Methodological issues and results"
- **11:30-11:50** | Maria Ana Baptista
"Results of risk perception studies from ASTARTE project"
- **11:50-12:10** | Andrea Cerase
"Effects of the 1908 event on tsunami risk perception in Southern Italy"
- **12:10-12:30** | **DISCUSSION**



NEAM
Working Group 4

Objective 3.2: Strengthen public and local authority awareness of tsunami and associated hazards and how to prepare to respond

- Exercises and drills
 - NEAMWAVE 2023 (30 Nov. Presentation «The Next NeamWAVE exercise» (Marinos Charalampakis, NOA, Greece, Ceren Ozer Sozdinler, GTU, Turkey)
 - National/Local Campaigns e.g. «Io Non Rischio» in Italy
- WTAD activities in different Countries
 - NEAM Secretariat presentation (30 Nov.)
 - SismaExe (D'Angelo 29 Nov.)
- Translation into English of the document *“Tsunami Risk Prevention in Italian Municipalities through the Application of Tsunami Ready Guidelines: Influences of the International Paradigm on the Regulatory Framework and Criminal Liability”*

Io Non Rischio Maremoto

- Specific formation on tsunami risk to Civil Protection volunteers
- National campaign with 529 squares in total (several on tsunami risk)

IO NON RISCHIO
BUONE PRATICHE DI PROTEZIONE CIVILE

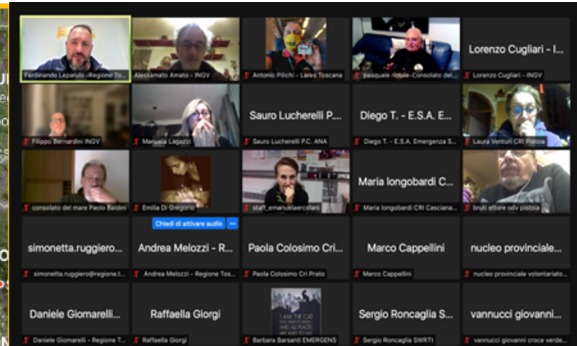
Regioni

529 Eventi	473 Organizzazioni	430 Comuni
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Regione 

Provincia 

[Dettaglio eventi](#) →



Objective 3.3: Develop tsunami-related curriculum programmes for all levels of education

No items to my knowledge

Objective 3.4: Develop and deliver suitable and sustainable capacity-building programmes to facilitate effective and efficient response and coordination

- CoastWAVE project (Secretariat)
- Tsunami Ready related activities (3.8)

Objective 3.5: Develop and maintain the NEAMTIC tsunami information website

Since the ICG/NEAMTWS XVII Session to now, 14 news articles and two videos (WTAD 2022 and African Ocean Conference 10-12 May 2022) have been published;

Contributions requested to TSP's

See next slide

Objective 3.5: Develop and maintain the NEAMTIC tsunami information website

- [COASTWAVE PROJECT ENDORSED AS “UN OCEAN DECADE PROJECT”](#)
- 22 November 2022 The United Nations Decade of Ocean Science for Sustainable Development (2021-2030), endorsed the IOC-UNESCO and EU Directorate-General for European Civil Protection an...
- [DIALOGUE: HOW TO HOLISTICALLY ADDRESS REQUIREMENTS, CHALLENGES AND OPPORTUNITIES OF EFFECTIVE LOCAL TSUNAMI WARNING IN THE MULTI-HAZARD DISASTER RISK MITIGATION CONTEXT](#)
- 28 October 2022 The European Commission's Joint Research Centre ([EC-JRC](#)), Directorate-General for European Civil Prote...
- [SETTING A BENCHMARK FOR THE DEVELOPMENT OF TSUNAMI STANDARD OPERATING PROCEDURES THROUGH COASTWAVE PROJECT](#)
- 20 October 2022 On 5 October 2022, IOC-UNESCO EU-DG ECHO CoastWAVE project partners held their first workshop on Standard Operating Procedures (SOPs) in the Northeast Atlantic, Mediter...
- [CELEBRATING TEN YEARS OF TSUNAMI EARLY WARNING OPERATIONS IN NORTH-EASTERN ATLANTIC, MEDITERRANEAN AND CONNECTED SEAS](#)
- 11 October 2022 Experts met at [CENALT](#) (France CENtre d'Alerte aux Tsunami), CEA (Commissariat à L'énergie Atomique et Aux éner...
- [KOERI'S TSUNAMI WARNING SYSTEM IN THE EASTERN MEDITERRANEAN AND ITS CONNECTED SEAS: A DECADE OF ACHIEVEMENTS AND CHALLENGES](#)
- 28 September 2022 A tsunami warning system providing services in the Eastern Mediterranean, Aegean, Marmara and Black Seas under the UNESCO Intergovernm...

Improve the link with national TSPs' websites



The Italian Alert System ▾

The International Context ▾

The Tsunami Alert Centre ▾

Tsunami alert ▾

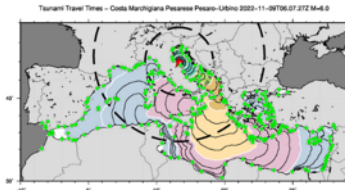
Know and defend ▾

News, Media and Documents ▾

Tsunami Ready

You are here: [Home](#) / [News, Media and Documents](#) / [News](#) / 09.11.22 - information message for earthquake offshore Marche coast (Pesaro-Urbino)

09.11.22 - information message for earthquake offshore Marche coast (Pesaro-Urbino)



This morning, 09.11.22, at 07:07 a.m. Italian time (06:07 UTC), an earthquake of **magnitude 6.0** was localized in the **north-central Adriatic Sea, offshore the Marche coast**, in the coast facing the province of **Pesaro-Urbino and Ancona** at geographic coordinates (lat, lon) **43.94N 13.30E** and a hypocentral **depth of about 12 km**.

The earthquake magnitude and the hypocentral localization, according to the [decisional matrix](#), activated the Tsunami Alert Center service that at 06:13 UTC, sent an [INFORMATION message](#) to the Civil Protection Department and to the Mediterranean Countries subscribing the CAT services.

Objective 3.6: Establish rapid and effective evacuation mechanisms given the risk assessment guidance and data

- Increase interaction with WG1
- From Probabilistic Tsunami Hazard Assessment to evacuation maps (see Lorito and Di Manna presentation tomorrow)
- Stromboli (INGV-UNIFI)

Layers

Legend

Bookmarks

Identify

Draw

Measurement

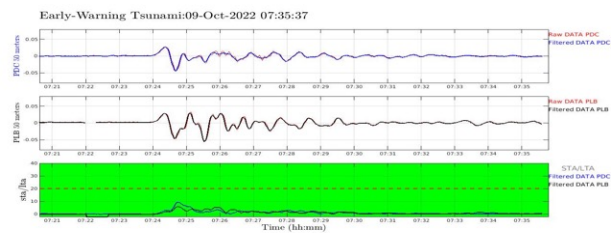
Print



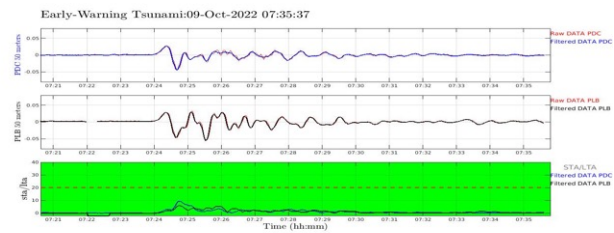
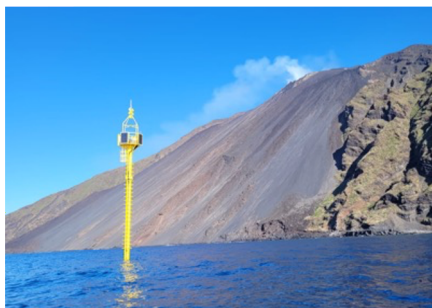
Basemaps



Sistema di Allerta tsunami locale a Stromboli (in collab. con UniFI)



Local tsunami alert system in Stromboli (in collab. With Univ. Firenze)



Objective 3.7: Develop and conduct regular exercises to test early warning systems and evacuation mechanisms

- Monthly exercises by TSPs
- Drills
- WTAD
- NEAMWave

WTAD in Italy – Vertical evacuation in primary school in Minturno (Tsunami Ready candidate)



Pachino / Marzamemi

Pachino: si pianifica l'esercitazione "SiMaTEX" sul rischio tsunami in citta'.



Preparation Meeting - Syracuse, Oct. 4, 2022

- Civil Protection Plan of the Municipality including tsunami risk approved (Oct. 2022)
- Full scale Exercise SiMaTEX in Marzamemi on Nov. 26, 2022



«Tsunami a Marzamemi e Pachino: niente panico, è una esercitazione di Protezione Civile», in Siracusa Oggi 27 Novembre 2022

Objective 3.8: Roll out the “Tsunami Ready” initiative in coastal communities

- Establishment of the Task Team on Tsunami Ready - Co-chairs: Ignacio Aguirre Ayerbe (Instituto de Hidráulica Ambiental de Cantabria, Spain) and Elena Daskalaki (National Observatory of Athens, Greece)
- Ongoing activities in several Countries (CoastWAVE)

NE

Stage of achievement Initial stage Medium stage Final stage

MITIGATION (MIT)

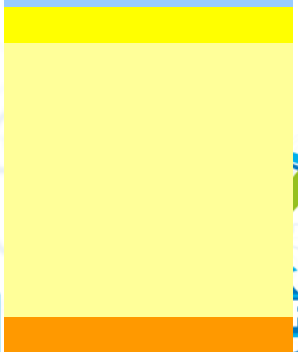
- 1 MIT-1. Tsunami hazard zones are mapped and designated
- 2 MIT-2. The number of hazard zones is estimated
- 3 MIT-3. Available educational and social resources are identified
- 4 MIT-4. Tsunami information is disseminated

II PREPAREDNESS

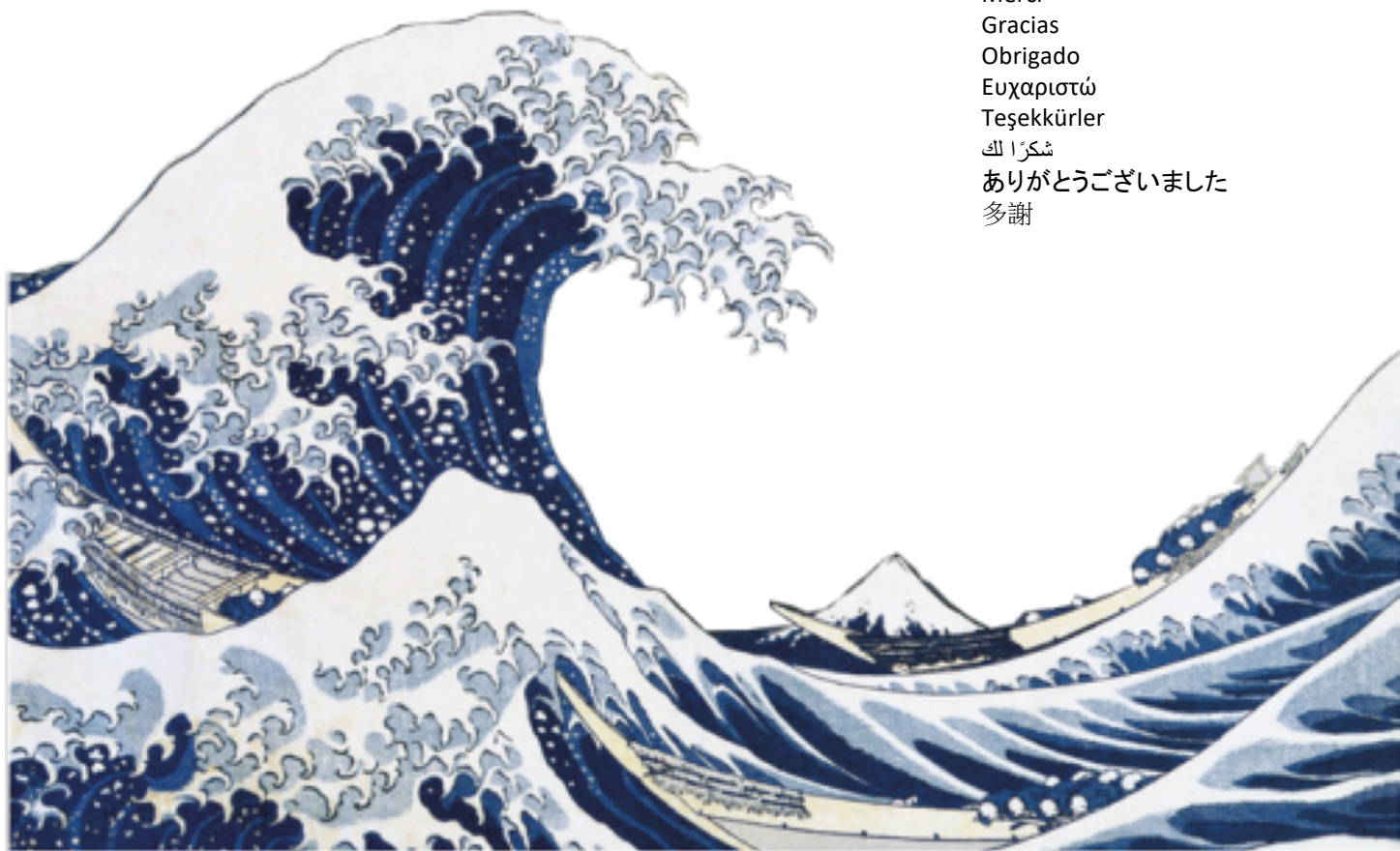
- 5 PREP-1. Easily understood and developed.
- 6 PREP-2. Outreach resources are available
- 7 PREP-3. Outreach activities are conducted times a year.
- 8 PREP-4. A Tsunami Preparedness Plan is updated at least every two years

III RESPONSE (RESP)

- 9 RESP-1. A community emergency operations plan (EOP) has been prepared
- 10 RESP-2. The capability to conduct operations during a tsunami is tested
- 11 RESP-3. Redundant and reliable means to timely receive 24-hour official tsunami alerts have been identified.
- 12 RESP-4. Redundant and reliable means to timely disseminate 24-hour official tsunami alerts to the public have been identified



Several pil



Thank you

Grazie

Merci

Gracias

Obrigado

Ευχαριστώ

Teşekkürler

شكراً لك

ありがとうございました

多謝