



Probabilistic TSUnami Hazard MAPS for the NEAM Region: The TSUMAPS-NEAM Project

Roberto Basili (1), Andrey Y. Babeyko (2), Andreas Hoechner (2), Maria Ana Baptista (3), Samir Ben Abdallah (4), Miquel Canals (5), Azelarab El Mouraouah (6), Carl Bonnevie Harbitz (7), Aomar Ibenbrahim (6), Galderic Lastras (5), Stefano Lorito (1), Finn Løvholt (7), Luis Manuel Matias (8), Rachid Omira (3), Gerassimos A. Papadopoulos (9), Onur Pekcan (10), Abdelwaheb Nmiri (4), Jacopo Selva (1), Ahmet C. Yalciner (10), and Hong K. Thio (11)

(1) Istituto Nazionale di Geofisica e Vulcanologia, Italy (roberto.basili@ingv.it), (2) Helmholtz Centre Potsdam GFZ German Research Centre for Geosciences, (3) Instituto Português do Mar e da Atmosfera, (4) National Institute of Meteorology, (5) University of Barcelona, (6) CNRST, (7) Norwegian Geotechnical Institute, (8) University Lisbon, (9) National Observatory of Athens, (10) Middle East Technical University, (11) AECOM

As global awareness of tsunami hazard and risk grows, the North-East Atlantic, the Mediterranean, and connected Seas (NEAM) region still lacks a thorough probabilistic tsunami hazard assessment. The TSUMAPS-NEAM project aims to fill this gap in the NEAM region by 1) producing the first region-wide long-term homogenous Probabilistic Tsunami Hazard Assessment (PTHA) from earthquake sources, and by 2) triggering a common tsunami risk management strategy.

The specific objectives of the project are tackled by the following four consecutive actions: 1) Conduct a state-of-the-art, standardized, and updatable PTHA with full uncertainty treatment; 2) Review the entire process with international experts; 3) Produce the PTHA database, with documentation of the entire hazard assessment process; and 4) Publicize the results through an awareness raising and education phase, and a capacity building phase.

This presentation will illustrate the project layout, summarize its current status of advancement including the first preliminary release of the assessment, and outline its connections with similar initiatives in the international context.

The TSUMAPS-NEAM Project (<http://www.tsumaps-neam.eu/>) is co-financed by the European Union Civil Protection Mechanism, Agreement Number: ECHO/SUB/2015/718568/PREV26.