EC Contribution to Tsunami Early Warning System in the NEAM region

The European Commission contributed to the efforts of establishing a regional Tsunami Warning System in the North East Atlantic, Mediterranean and connected seas region (NEAMTWS). In particular, it has contributed developing the following:

- Global Disaster Alert and Coordination System (GDACS) which includes tsunami modelling;
- Tsunami Scenario database;
- Tsunami Analysis Tool (TAT) shared with Turkey, Greece, Italy, Spain, Morocco, and Romania to develop their National Tsunami Centres;
- Tsunami Alerting Device (TAD) to quickly display tsunami warning messages (local or national);
- Sea Level Database and connected Sea Level Instrumentation network (IDSL/GDSL network).

**EU CONTRIBUTION** (Source: JRC, DG ECHO)

- Installed IDSL (38)
  - Inexpensive Device for Sea-Level Measurement
- Planned IDSL (2)
  - Marshaxlook (Malta)
- Installed TAD (3)
  - Tsunami Alerting Device
  - Setubal (Portugal), Kos (Greece)
- Planned TAD (2)
  - Marshaxlook (Malta)
- GDSL (IDSL-GPS)
  - La Spezia (Italy)
- Other sea-level measurement instrument (3)
  - Paleochora, Koroni, Kapsali (Greece)
- Tsunami Analysis Tool (TAT)
- EU-supported civil protection tsunami exercises

**Probabilistic tsunami hazard**

calculated along the bathymetric of the 50m

Map produced using the 84th percentile of the epistemic uncertainty.

ICG/NEAMTWS Programme

- Tsunami Services Providers
- Earthquake-induced tsunami
  - Source: GDACS
  - 2000-2020
- Landslide-induced tsunami
  - Stromboli (Italy), 2002 and 2018
  - Source: INGV