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Intergovernmental
Oceanographic
Commission

NEAMTWS SOPs for Tsunamis Generated by Volcanos

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5 Minutes

Towards a SOP for the volcanic tsunami TEWS in Stromboli

Monitoring and alerting

- 1) New instruments are being deployed
 - 2 cabled buoys
 - 2 beacons
- 1) CAP message definition
- 2) Message template for the NEAM TSP

INGV



University of Firenze



CPA

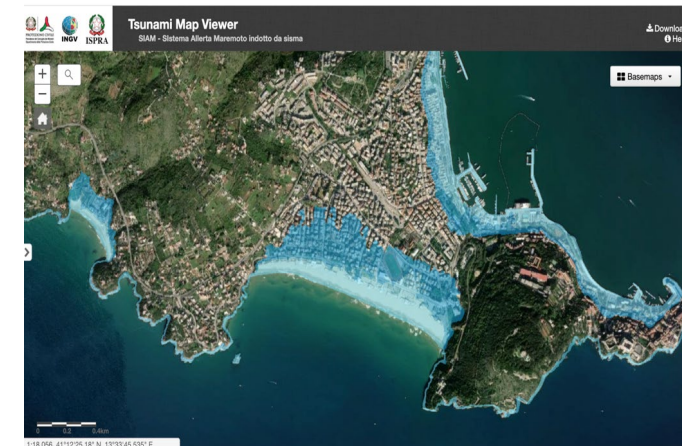
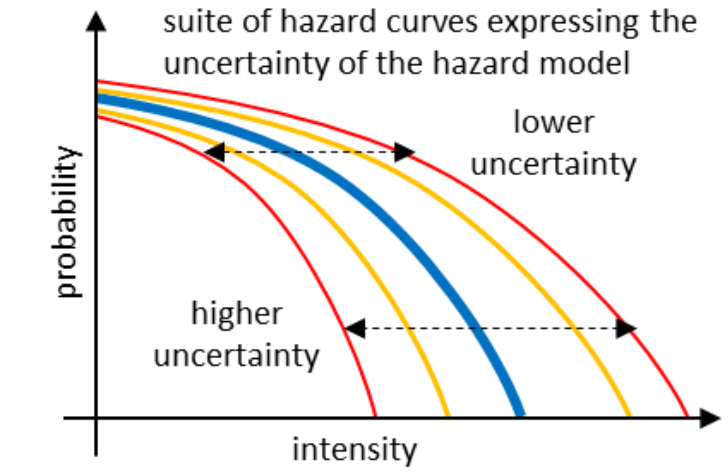


Definition of the design scenario for evacuation – Stromboli TEWS

Analogies 1/2: Coastal and evacuation planning from S-PTHA:

NZ-like approach, decision of Italian CPA since 2018

- INGV with EU partners provided the input S-PTHA
- CPA decides
 - **2% in 50 yrs AKA ~2500 yr ARP**
 - **84th perc.**
 - **Safety factors** to deal with
 - regional offshore PTHA limitations
 - Onshore DEM inaccuracy
- ISPRA implements **GIS friction-based** inundation approx. with safety factors

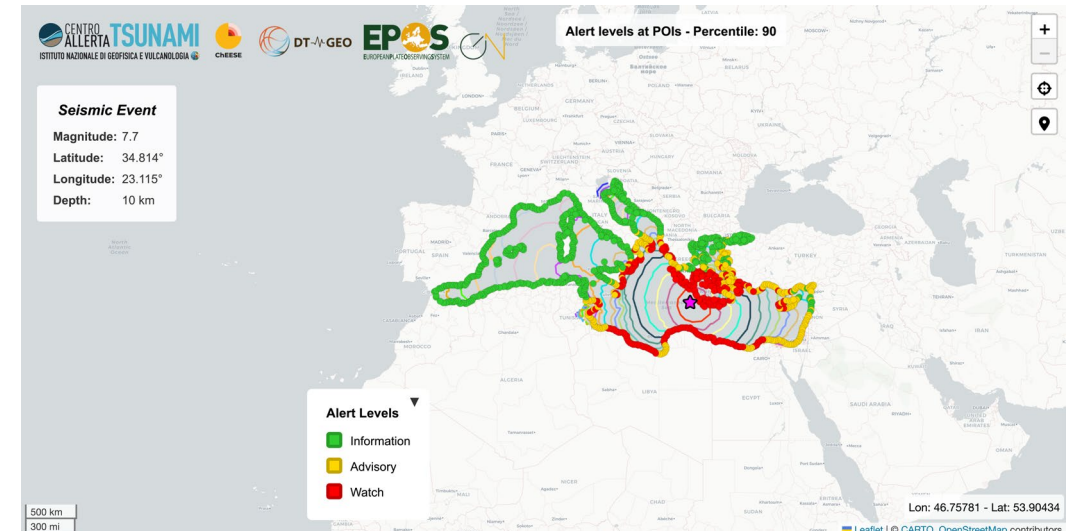
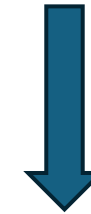
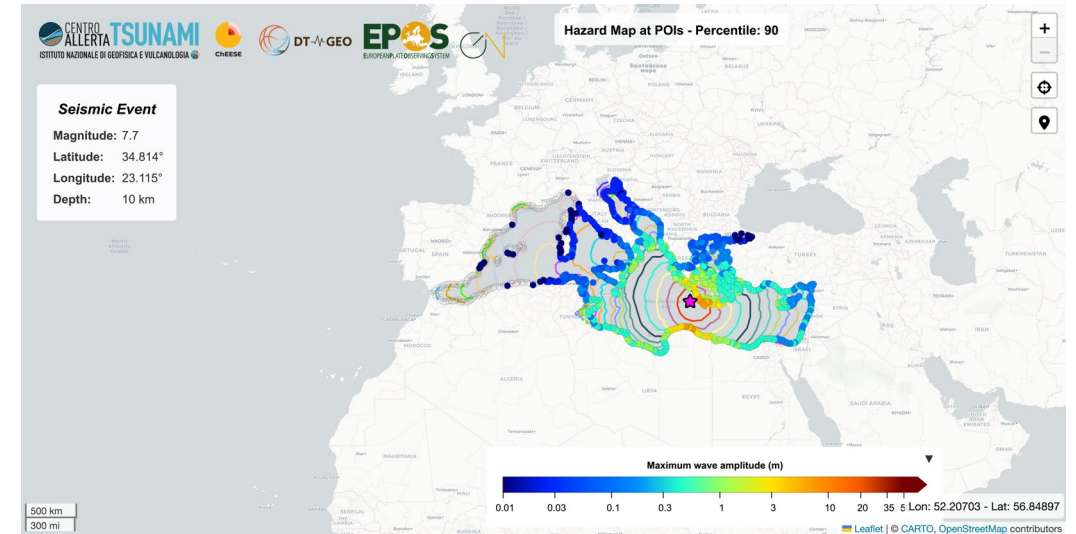


Analogies 2/2: Conversion of real-time PTF to alert/threat level

Similar to S-PTHA + National Major Risks Commission to recommend the threshold

- INGV with EU partners provided the input PTF
- CPA asks The Commission to
 - **98th percentile**

To become operational in 2026



Stromboli

- INGV provided the input V-PTHA
- CPA will ask Major Risks Commission

Aeolian Islands

- INGV provided in the past some scenarios
- Comparison in Stromboli with the V-PTHA
- CPA will ask Major Risks Commission

Southern Tyrrhenian Sea

- Ongoing (next 2 years)

