

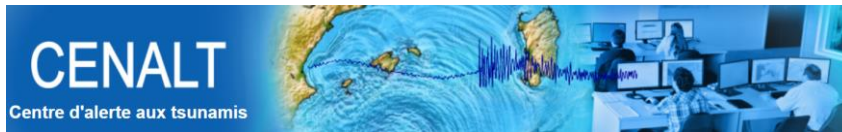


CENALT – French NTWC & TSP highlights

NEAMTWS Experts Meeting – Implementing NEAMTWS 2030 Strategy

GENERAL DISCUSSIONS - STEERING COMMITTEE RELATED

28 November 2022, Naples, Italy



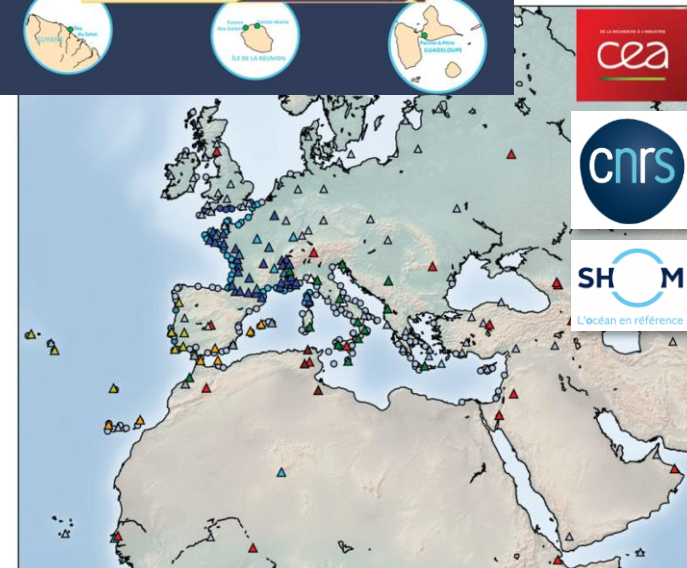
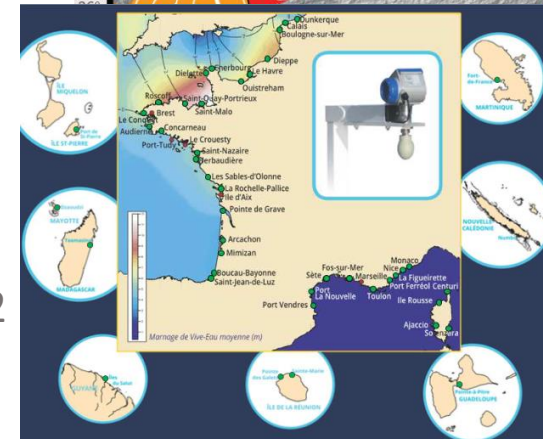
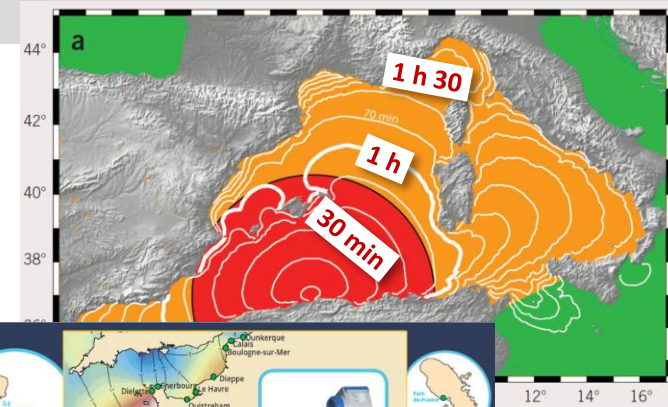
► Twofold mandate

- Message to French Civil Security within 15 min after an earthquake in the area
- TSP mandate for the NEAM region

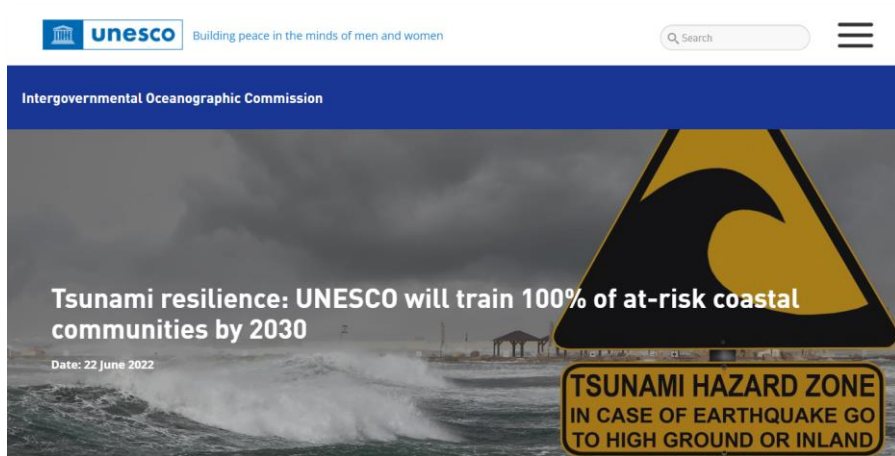
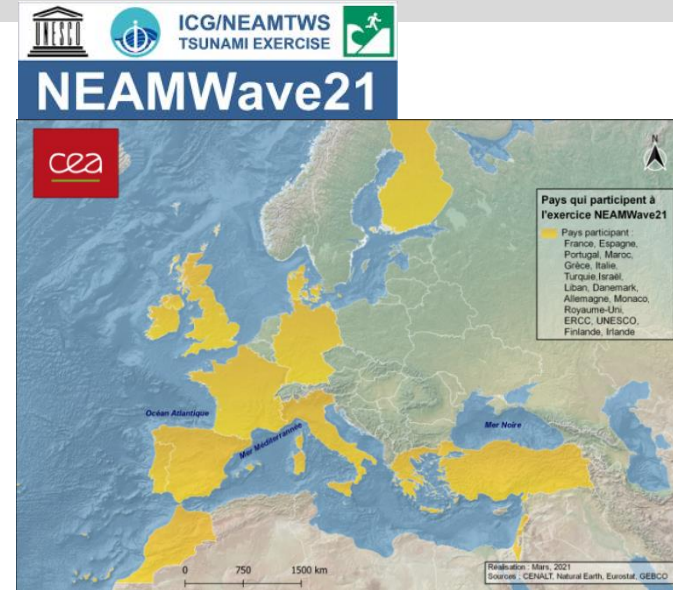
► Operational networks

- Seismic data
- Sea level data: major modernisation 2021-2022 (SHOM)
 - All data transmitted with redundancy and robustness

► No impact from the COVID crisis

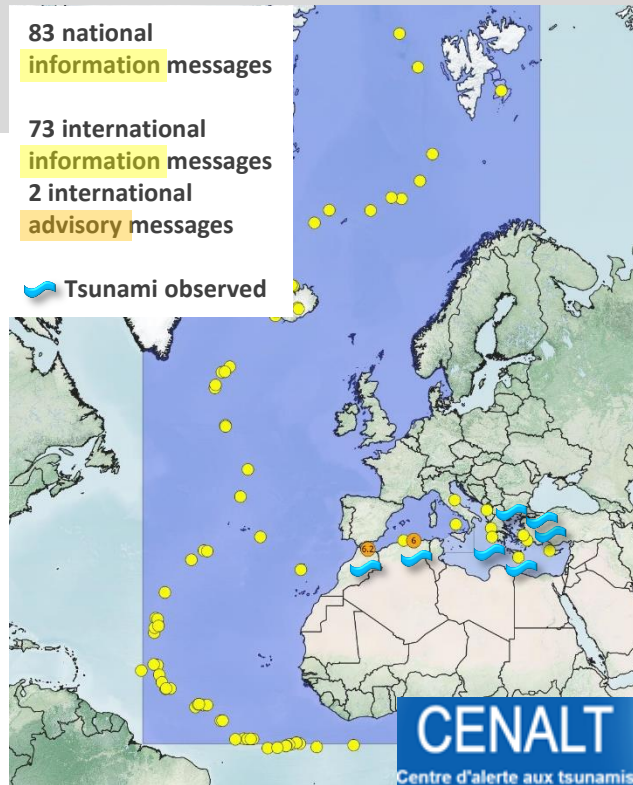
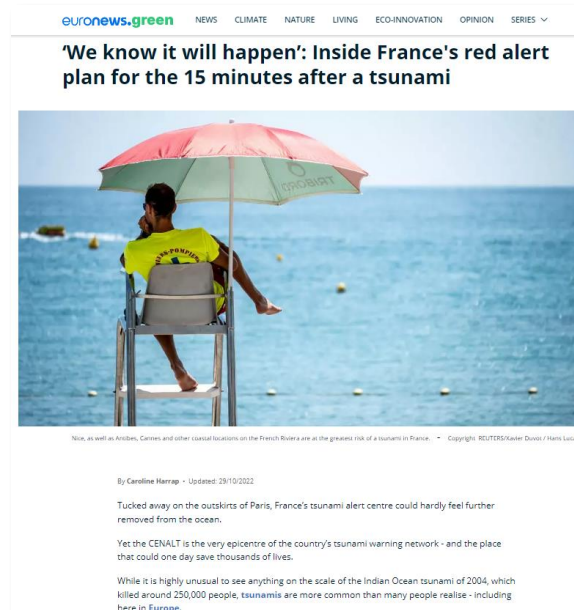


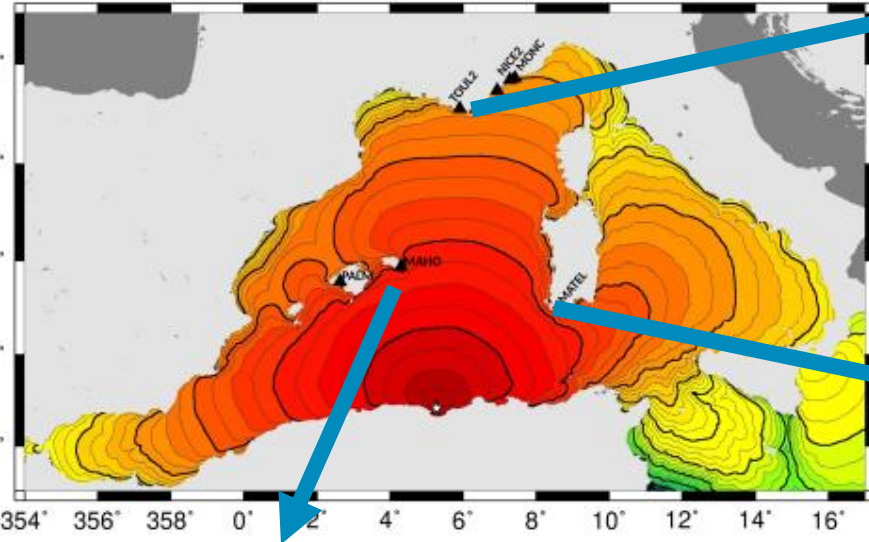
- ▶ **National monthly exercises with the French CPA**
 - Down to local scale, every 3 months
- ▶ **International level**
 - Monthly communication tests
 - NEAMWave exercises
- ▶ **World Tsunami Awareness Day**
 - Local commitment of the Cannes municipality
- ▶ **Solicitations in July 2022 following Unesco statement (UN Ocean Conference, Lisbon, June 2022)**



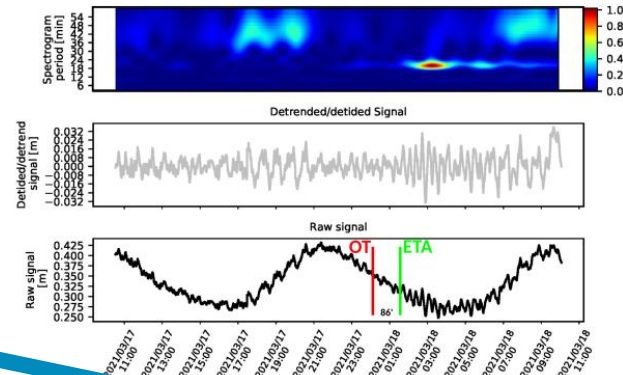
Scientific workshop, and more

- ▶ 29-30 September, 2022, workshop in Cenalt
 - ~40 scientists and representatives (national authorities, Unesco)
- ▶ 27-28 September, 2022, TSP meeting (Paris)
- ▶ 10 October, 2022: visit by authorities
- ▶ 21 October, 2022: press visit

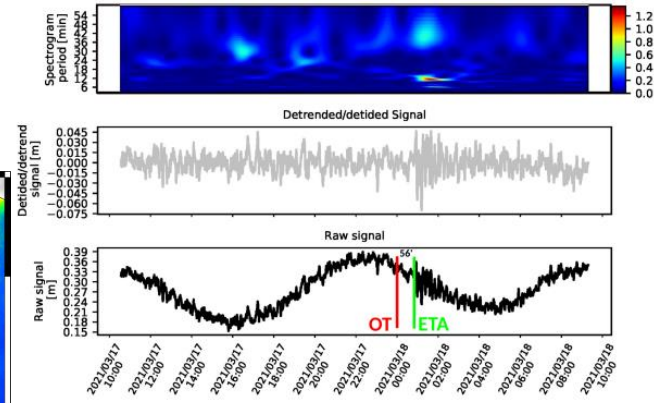




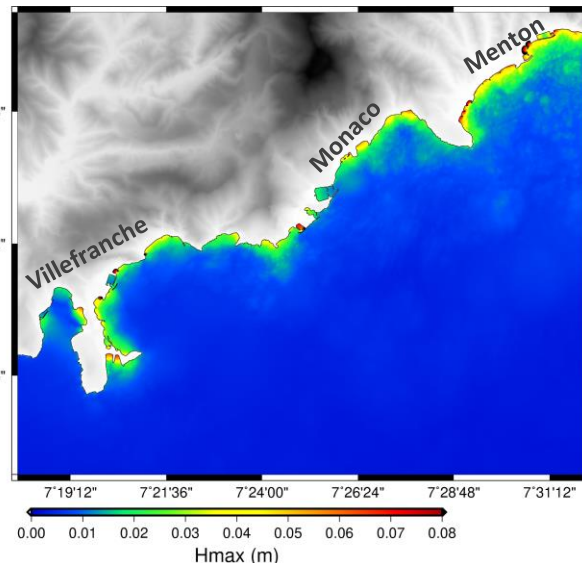
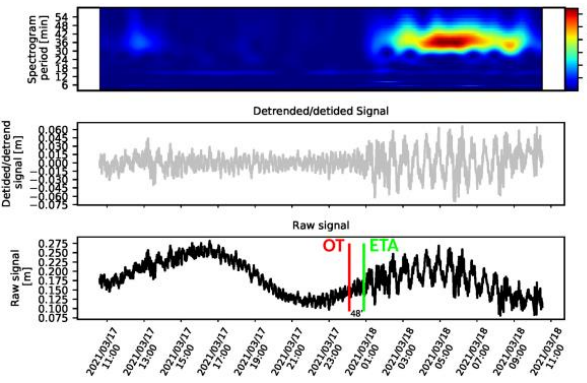
Toulon ~ 5 cm



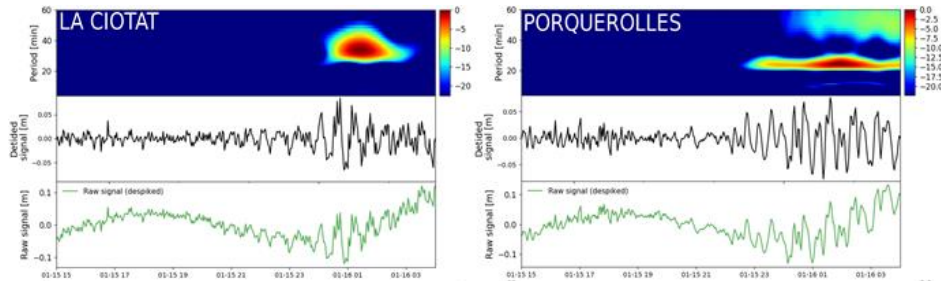
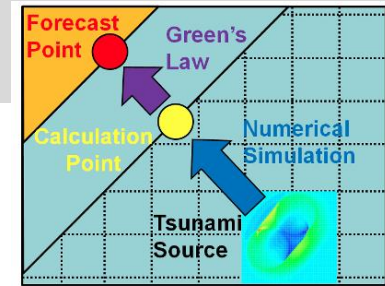
Marina di Teulada ~ 9 cm



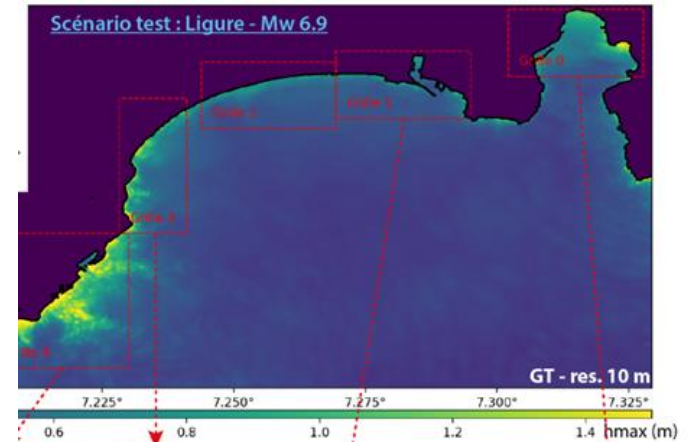
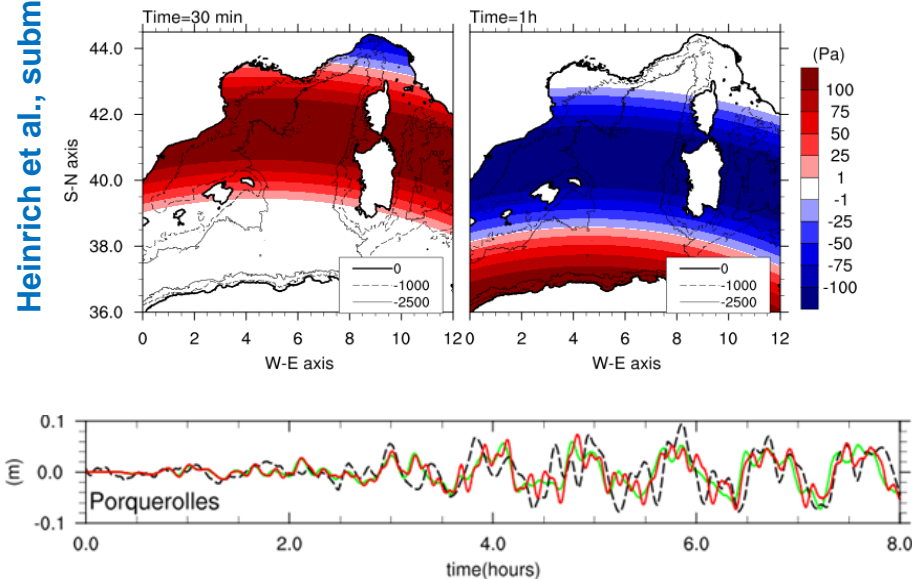
Mahon ~ 6 cm (crest-to-trough)



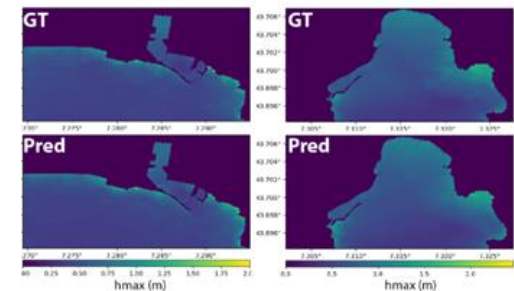
► Unprecedented tsunami triggered by the Tonga explosion (Jan. 2022)



Heinrich et al., submitted



Scenario M 6.9 Ligurian Sea



► Progress on the amplification law for rapid forecast

- Toward AI approaches

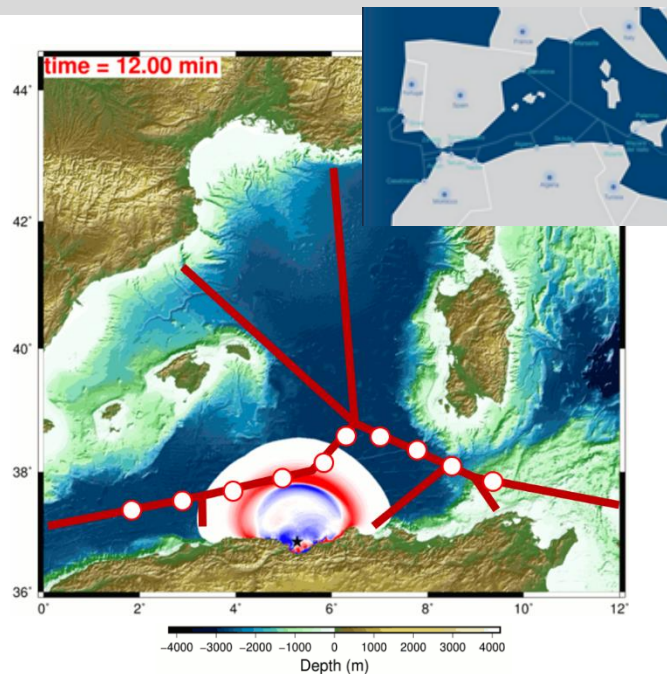
Original requirements are continuously needed

► Need for robust data and system

- Upcoming IT system and softwares in Cenalt
- Lack of data in North Africa (seismic, sea level)
 - And offshore

► Need for scientific and technical improvements

- Hazard and risk assessment
 - Benchmarking, data exchanges
 - Real events modeling
 - Forecasting
- Preparedness
 - TsunamiReady in France (Cannes)
- Alerting
 - Towards the cell broadcast





THANK YOU FOR ATTENTION