ICG NEAMTWS

ICG/ NEAM Tsunami Warning and Mitigation System Status, Achievements and Challenges

Dr. G.A. Papadopoulos
Chair UNESCO/ICG/NEAMTWS
National Observatory of Athens, Greece

Established 2005

40 Member States
4 WGs, various TTs
Tsunami threat in NEAM region from a variety of seismic sources

Large tsunamis are low frequency but high impact events

- Lisbon, 1755
  - Hundreds of victims
  - Destruction

- Algiers, 1365
  - Destruction

- Messina strait, 1908
  - 1500 victims

- Crete Isl. & Levantine Sea, 365 & 1303
  - 5000 victims

- Beirut, 551
  - Destruction

- Aegean Sea, 1956
  - Destruction

- Aegean Sea, 2017
  - Damaging
Tsunami threat in NEAM region from a variety of seismic sources

Large tsunamis are low frequency but high impact events

Lisbon, 1755
Hundreds of victims

Messina strait, 1908
1500 victims

Aegean Sea, 1956
Destruction
2016, Accreditation of NEAMTWS Tsunami Service Providers (TSPs)

1. CENALT – France (2012)
2. INGV-Italy (2014)
3. KOERI-Turkey (2012)
4. NOA-Greece (2012)

Portugal CTSP, Romania in preparation

Activities

Early Warning Services
Technical Support
Risk Assessment & Mitigation Studies
Public Awareness
Meetings & Publications
Seismic, GPS & Tide-gauge Networks

- In Europe there are currently more than 1200 observing stations.
- Gaps exist particularly South of Mediterranean.
NEAM Tsunami Information Centre (NEAMTIC)

- NEAMTIC supports the development of the NEAMTWS

10 Years of the North-Eastern Atlantic, the Mediterranean and Connected Seas Tsunami Warning and Mitigation System (NEAMTWS)

Accomplishments and Challenges in Preparing for the Next Tsunami

http://neamtic.ioc-unesco.org/
Awareness Raising and Education (Con’t)

• **Italy**: Main activity “I don’t take risks – Tsunami” campaign
• **Greece**: Tsunami educational activities every year
Awareness Raising and Education (Con’t)

• **Turkey:** Education activities for school children by experts

• **Israel:** Tsunami Exercises
NEAMTWS Pan-European Exercises

in collaboration with the ERCC (Brussels) and national Civil Protection Agencies

NEAMWAVE 12 Oct. 2012
NEAMWAVE 14 Oct. 2014
NEAMWAVE 17 Oct.-Nov. 2017

NEAMWAVE 19 or 20…..

Bilateral exercises
e.g. Greece – Israel 2016, 2017
Challenges and Opportunities

- **Tsunami hazard and risk assessment**
  - A holistic assessment of tsunami hazard and risk in the NEAM region, in a multi-hazard frame.

- **Monitoring, warning and forecast**
  - Efforts to maintain and improve real time observing networks.

- **Dissemination and communication of risk and information**
  - Synergy with national CPA’s and maritime communities.

- **Response capability**
  - (e.g. evacuation planning, drills, exercises)

- **NEAMTWS sustainability** (roots in communities at risk, funding)

The important role of NEAMTIC
THANKS FOR YOUR ATTENTION

Dr. G.A. Papadopoulos
ICG/NEAMTWS Chair