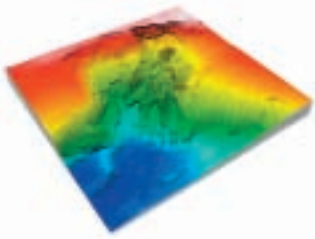


TSUNAMI EARLY WARNING SYSTEM NEED FOR EUROPE



Storrega Slide ca. 8000 b.p.



Santorini ca. 400 b.p.



Lisbon 1755

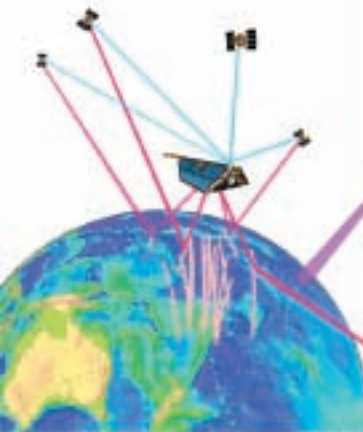


The giant wave

European coastal areas have been affected by large tsunamis throughout history: Following Santorini volcanic eruption, tsunami destroyed the Minoan culture; following the Storrega Slide off Norway, much of Northern Europe was devastated; following the 1755 Lisbon earthquake, with a still poorly understood source, a tsunami killed thousands of people.

RESEARCH NEEDS

- ▶ to establish suitable infrastructure
- ▶ to educate population in threatened areas
- ▶ to improve modelling of propagation and run-up
- ▶ to install Earth observation linking ocean floor and land stations via satellites



Tsunami early warning system based on new technology currently being installed in the Indian Ocean off Sumatra.

Ocean bottom unit equipped with pressure sensors connected via surface buoys through satellite links to onshore data center.

