



GEO-HASARDS IN THE MEDITERRANEAN SEA

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1





RISK = hazard (alea) + vulnerability

Hazard = probability of catastrophic event

Vulnerability = societal impact

Classification

Nature

Meteorology, climate Geology/geophysic Biology, mixed,....

Recurrence Annual, decennial, secular,...















MAJOR HISTORICAL and RECENT SEISMS IN MEDITERRANEAN SEA









SEISMS (Magnitude > 3) between 1964 and 2006













www.windowe



MAJOR ACTIVE, OR HISTORICALLY ACTIVE, VOLCANOES IN MEDITERRANEAN SEA





2002-10-27 N17 09:58 UTC Etna eruption www.fvalk.com



Vesuvio, Eolian islands, Etna















Historical Tsunamis in Mediterranean Sea















Main tsunamigenic sources in Mediterranean Sea (after Papadopulos and Fokaefs, 2005)



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2009







destruction destruction destruction Dots show epicenters of the earthquakes that caused tsunamis.







Morphology of the Var submarine delta (after Sardou personnal communication)









Antibes, October 16, 1979







Three main tsunamigenic sources 17th BC eruption AD 365 EQ 1303 EQ









Historical catastrophic events in the Aegean area





Documents exposition Trésors engloutis d'Egypte (Franck Goddio; Paris hiver 2007)





Consequence In the area of Alexandria



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18

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