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**11419 - Tsunami: a movie for the tsunami risk reduction in Italy**


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Title	<b>Tsunami: a movie for the tsunami risk reduction in Italy</b>		
Abstract	<p>is a country well known for the seismic and volcanic hazard. As a matter of fact the first seismological and volcanological observations were done in since the Roman times. However, a similarly great hazard, although not well recognized, is posed by the occurrence of tsunami waves along the Italian coastline. This is testified by a rich catalogue and by field evidence of deposits left over by pre- and historical tsunamis, even in places today considered safe. This observation is of great importance since many of the areas affected by tsunamis in the past are today touristic places. The Italian tsunamis can be caused by different sources: 1- off-shore or near coast in-land earthquakes (e.g. 1627, 1783 and 1908 events); 2- very large earthquakes on distant sources in the Mediterranean (e.g. the 365 Crete subduction zone earthquake); 3- submarine volcanic explosion in the Tyrrhenian sea; 4- submarine landslides triggered by earthquakes and volcanic activity (e.g. 2002 Stromboli landslide). The consequence of such a wide spectrum of sources is that an important part of the more than 7000 km long Italian coast line is exposed to the tsunami risk, and thousands of inhabitants (with numbers increasing during summer) live near hazardous coasts. In order to reduce this risk and following the emotional impact of the december 2004 Sumatra earthquake and tsunami, we developed an outreach program consisting in talks given by scientists and in a movie, both exploring the causes of the tsunami waves, how do they propagate in deep and shallow waters, and what are the effects on the coasts. Hints are also given on the most dangerous Italian coasts (as deduced by scientific studies), and how to behave in the case of a tsunami approaching the coast. These seminars are open to the general publics, but special programs are developed with schools of all grades. In this talk we want to present the movie used during the seminars and scientific expositions, that was realized from a previous 3D version originally developed for science festivals.</p>		
Key words	Tsunami risk-reduction	Presentation	<b>Oral</b>
Equipment	DVD		
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