



Investigation on tsunami effects in the central Adriatic sea

A.Maramai (1), L.Graziani (1), S.Tinti (2)

(1) Istituto Nazionale di Geofisica e Vulcanologia, Rome, Italy, (2) Dip.to Fisica, Settore Geofisica Universita' di Bologna, Bologna, Italy (maramai@ingv.it / Fax: 390651860210)

In this work we present the result of a study aimed at examining the Italian earthquake sequences that occurred in the area of the central Adriatic sea with the purpose of understanding whether some of them were accompanied by tsunami effects. The motivation for this research is that tsunamis are known to have occurred in this area and are included in the Italian Tsunami Catalogue (ITC), and that there is possible evidence of further cases (not yet listed in the ITC) producing light tsunami effects: these are the August 1916 Rimini and the October 1930 Ancona events.

The bulk of the present research consists in collecting all the available data on the earthquakes that affected the selected area in the past century and in identifying those potentially capable of generating tsunamis. During the study all the available material, that is specific monographs and scientific papers, articles available in contemporary chronicles and in local and national newspapers are gathered. The final result of this research will improve our knowledge of the tsunamigenic activity of the central Adriatic sea and contribute to the assessment of the tsunami hazard and risk along these coasts, that especially in the peak season form one of the most densely populated areas of the Italian peninsula with flat and large beaches and water front resorts crowded of tourists.