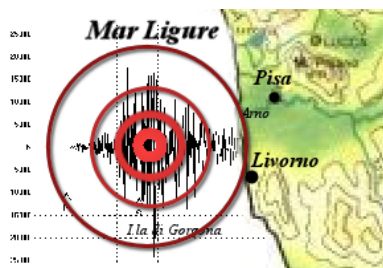


TSUNAMI A LIVORNO: MA I PROGETTISTI DELL'OFF SHORE, LO SANNO?



(report dati da archivi dell'
ISTITUTO NAZIONALE DI GEOFISICA E VULCANOLOGIA)

Fonte dati: <http://www.ingv.it/italiantsunamis/tsun.html>

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Data	5/4/1646
Intensità Tsunami (da 1 a 6)	3
Causa	Submarine Earthquake
Intensità Causa	MCS: 7 - Magnitudo: 5,2
Coordinate	Lat. 43,33 – Long: 10,19
Annotazioni	Epicenter coordinates, origin time, earthquake intensity (MCS scale) and equivalent moment magnitude from CPTI2 (r247). Tsunami reliability and intensity from Tinti (r9).
Descrizione	Strong earthquake in Livorno. Many buildings suffered severe damage. Sea level rising more than 3 yards (Settimani, r65). In the harbour some ships grounded (Pilla, r66). Further references: Mallet (r30), Capocci (r31), Mercalli (r13), Baratta (r1), Carrozzo (r36), Caputo (r5), Tinti (r9), Boschi (r249).

Data	19/1/1742
Intensità Tsunami (da 1 a 6)	2
Causa	Submarine Earthquake
Intensità Causa	MCS: 5,5 - Magnitudo: 4
Coordinate	Lat. 43,33 – Long: 10,19
Annotazioni	Origin time, epicenter coordinates, macroseismic magnitude and earthquake intensity (MCS scale) from ING (r3). Tsunami reliability and intensity from Tinti (r9).
Descrizione	Seismic crisis occurred in January -February, 1742 in Tuscany (central Italy). Epicentral location near Livorno. Notice that the main shock occurred on January 27 with estimated equivalent moment magnitude 5.2 (CPTI2, r247). Anomalous sea rising and subsiding in Livorno harbour. In the open sea sailors noted an anomalous sea rising and an unusual storm (Pedini, r96; Boccacci, r97; Mattei, r98; Gentili, r99). Some anomalous sea movements also reported in correspondence with the main shock (Gentili, r99) Further references: Mallet (r30), Mercalli (r13), Baratta (r1 and r41), Carrozzo (r36), Caputo (r5), Tinti (r9), Boschi (r249). Revisions: Maramai (r95).

Data	14/8/1846
Intensità Tsunami (da 1 a 6)	2
Causa	Earthquake Associated
Intensità Causa	MCS: 8,5 - Magnitudo: 5,7
Coordinate	Lat. 43,32 – Long: 10,30
Annotazioni	Epicenter coordinates, origin time, earthquake intensity (MCS scale) and equivalent moment magnitude from CPTI2 (r247). Tsunami reliability and intensity from Tinti (r9).
Descrizione	<p>Earthquake located in land, about 15 km SE of Livorno, causing severe damage in many villages. Orciano Pisano almost totally destroyed (99 houses collapsed out of 113), Castelnuovo, Guardistallo, Montescudaio, Lorenzana and Luciana heavily damaged. Some damage also at Livorno, Pisa and Volterra. Some sources report 60 victims, some others 384.</p> <p>Shock recorded at 4 seismological observatories: Vallombrosa, Parma, Florence and Modena.</p> <p>Tsunami description in some coeval sources (Savi, r124; Tellini, r125; Pilla, r66).</p> <p>At Livorno the sea rose quickly more than one yard. Some vessels felt a violent shock.</p> <p>Some ships steering towards the Livorno harbour had a sudden displacement.</p> <p>At the Livorno lighthouse the water rose near the tower and washed the quays.</p> <p>Further references: Baratta (r1 and r41), Carrozzo (r36), Caputo (r5), Soloviev (r194), Antonopoulos (r173), Tinti (r9), Boschi (r100).</p> <p>Revisions: Maramai (r95).</p>