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KEYWORDS

Earthquake
GPS
Historical
seismology
Ionosphere
Irpinia
earthquake
Italy Mt.
Etna
Seismic
hazard
Seismic
hazard
assessment

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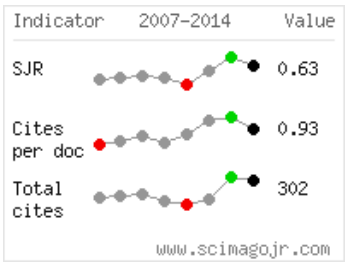

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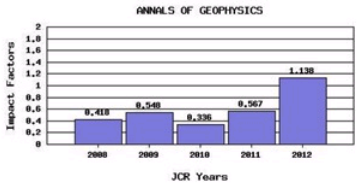

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Fast Track

The Emilia 2012 sequence: a macroseismic survey

Andrea Tertulliani, Luca Arcoraci, Michele Berardi, Filippo Bernardini, Beatriz Brizuela, Corrado Castellano, Sergio Del Mese, Emanuela Ercolani, Laura Graziani, Alessandra Maramai, Antonio Rossi, Manuela Sbarra, Maurizio Vecchi

Abstract

On May 20, 2012, at 4:03 local time (2:03 UTC), a large part of the Po Valley between the cities of Ferrara, Modena and Mantova was struck by a damaging earthquake (Ml 5.9). The epicenter was located by the Istituto Nazionale di Geo-fisica e Vulcanologia (INGV) seismic network [ISIDe 2010] at 44.889 °N and 11.228 °E, approximately 30 km west of Ferrara (Figure 1). The event was preceded by a foreshock that occurred at 01:13 local time, with a magnitude of Ml 4. The mainshock started an intense seismic sequence that lasted for weeks, counting more than 2,000 events, six of which had Ml >5. The strongest earthquakes of this sequence occurred on May 29, 2012, with Ml 5.8 and Ml 5.3, recorded at 9:00 and 12:55 local time, respectively. The epicenters of the May 29, 2012, events were located at the westernmost part of the rupture zone of the May 20, 2012, earthquake (Figure 2). The May 20 and 29, 2012, earthquakes were felt through the whole of northern and central Italy, and as far as Switzerland, Slovenia, Croatia, Austria, south-eastern France and southern Germany. Historical information reveals that the seismic activity in the Po Valley is moderate [...]

Keywords

Macroseismics

Full Text - Views: 2585

PDF

Identifiers

- DOI: 10.4401/ag-6140

Published by INGV, Istituto Nazionale di Geofisica e Vulcanologia -
ISSN: 2037-416X