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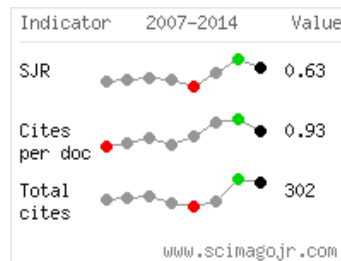
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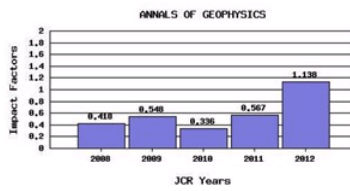
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Fast Track

## The May-June 2012 Ferrara Arc earthquakes (northern Italy): structural control of the spatial evolution of the seismic sequence and of the surface pattern of coseismic fractures

*Giusy Lavecchia, Rita de Nardis, Daniele Cirillo, Francesco Brozzetti, Paolo*

# Abstract

The Ferrara 2012 seismic sequence was characterized by two main compressional events, which occurred on May 20 and 29, 2012, with Mw 6.1 and Mw 6.0, respectively (quick Regional Centroid Moment Tensor [RCMT] at <http://autorcmt.bo.ingv.it/quicks.html>). These events were followed by five events with Mw >5.0 (two on May 20 and three on May 29, 2012) and by hundreds of events of lower magnitudes distributed along a WNW-ESE-elongated area of ca. 500 km<sup>2</sup> (ISIDe database at <http://iside.rm.ingv.it/iside/standard/index.jsp>). The ongoing activity of the northward-verging fold-and-thrust structures of the Ferrara-Romagna Arc (Figure 1A) and the eastward-verging Coastal Adriatic Arc (referred to as the Outer Thrust System [OTS] in Lavecchia et al. 2003) has been a debated topic in the Italian literature. [...]

## Keywords

Seismogenic source; Coseismic fracturing; Compressional tectonics; Ferrara arc earthquake; Po Plain

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