

Abstract

Title: Moment tensors of the largest events of the 2016 Central Italy earthquake sequence

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Abstract: Central Italy was struck by an earthquake sequence in 2016, with the largest earthquake of moment magnitude M_w 6.5. 300 people have died after the first earthquake on August 24th, M_w 6.1 and the city Amatrice was heavily damaged. Utilizing the software ISOLA, the low-frequency centroids are found of selected earthquakes with M_w above 4.5. Using these results, the multiple point finite seismic sources are obtained in order to determine fault irregularities. Afterwards, there is a comparison of these results with other academic papers and earthquake catalogs.

Keywords: earthquake, ISOLA, moment tensor, centroid