



Ten years of seismicity in the euro-mediterranean region: panorama of the EMSC bulletin 1998-2007

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The Euro-Mediterranean Seismological Center (EMSC) is in charge of collecting seismological parametric data recorded by the local networks of the Euro-Mediterranean region in order to improve data availability for the seismologists and to rapidly produce a comprehensive seismicity bulletin for the region. The aims are to reproduce the seismicity as imaged by the local agencies when events occur within their network and to improve event location in borders regions and off-shore.

In this presentation, we show ten years of seismicity that occurred in the Euro-Mediterranean region. Event locations have been obtained in the Euro-Med Bulletin for the period January 1998 to December 2007 by merging parametric data collected from 77 seismological agencies. Thanks to the many contributions, the Euro-Med Bulletin displays a high coverage of the region with the collection of data recorded by 2,625 stations and only two known missing networks. In total, more than 100,000 events are included for the period 1998-2007. We present here the performances of the Euro-Med Bulletin and their evolution over the years.

In the spring 2009, the EMSC will produce a specific map of the Euro-Med seismicity. This map, dedicated to a wide audience will require a careful review and didactic selection of data. A special effort is needed to further discard non tectonic events from the current Euro-Med bulletin. This can be achieved by setting up additional collection of event type information (from rockburst to mine activity) with the help of the local networks. Additionally, the currently available bulletin may be recomputed using the global velocity model AK135.