



## **12 years of the European-Mediterranean Regional Centroid Moment Tensors and their dissemination**

Silvia Pondrelli (1), Simone Salimbeni (1), Andrea Morelli (1), and Goran Ekstrom (2)

(1) Istituto Nazionale di Geofisica e Vulcanologia, sez. Bologna, Italy , (2) Lamont-Doherty Earth Observatory, Columbia University, NY, USA

The European-Mediterranean Regional Centroid Moment Tensor (RCMT) Catalog collects seismic moment tensor solutions that are routinely computed since 1997 for earthquakes with moderate magnitude ( $4.5 < M < 5.5$ ) in the Mediterranean region. This database represents an extension to smaller magnitudes of the Global CMT catalog (<http://www.globalcmt.org>). RCMT computation is mainly based on the modeling of intermediate period surface waves recorded at regional distance. In the last few years we also invert simultaneously for body and surface waves, but only when the magnitude is greater than 5.0 – i.e. when the signal-to-noise ratio at 40-100 s of period is significant enough to contribute to the inversion. The Catalog is regularly updated a few months behind real time, and reports are published in *Phys. Earth Planet. Int.* and on the web (<http://www.bo.ingv.it/RCMT>). RCMTs are also computed in real time. Such preliminary solutions are available within one or a few hours after an earthquake and published as Quick RCMTs. The European-Mediterranean RCMT Catalog currently includes more than 1000 solutions, mainly from the most seismically active areas, such as northern Greece and the Hellenic trench. In the consideration of the size of the Catalog, we constructed a Web Search page that allows to download subsets of data selected on the basis of different parameters. Selections can be made on geographical, time and magnitudes (mb, Ms and Mw) ranges. We consider important as well flags defining the quality of the RCMT and if it is a Definitive or a Quick solution.