



## **The Krn Mountains (Slovenia) MW5.2 Earthquake: Data Acquisition and preliminary Results**

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On the 12th of July, 2004, MW=5.2 Krn Mountains (Slovenia) earthquake occurred in the NW part of Slovenia, close to the border with Italy and in the vicinity of the epicentre of the 12 April, 1998, MW=5.6 earthquake. The main shock features almost pure right lateral strike slip mechanism on a NW-SE striking vertical plane. Close similarity to the 1998 main shock mechanism and location suggests reactivation of the same fault. The earthquake was well recorded by the Seismic network of the Republic of Slovenia run by ARSO, the Short Period Network of Friuli-Venezia Giulia run by OGS and the Friuli strong motion network run by DST of the University of Trieste and the Friuli-Venezia Giulia stations of the National strong motion network run by Servizio Sismico Nazionale of the Dipartimento Protezione Civile (Roma). In the immediate hours following the main shock, a temporary network was installed in the epicentral area by the institutions above and by INGV from Rome, Italy. In addition one set of instruments was provided by Protezione Civile della Regione Autonoma Friuli-Venezia Giulia, Italy and one by the Kinematics Inc. from Pasadena, USA. Together with permanent stations of the SNRS a network of 19 stations within 10 km

from the epicenter operated until the end of August with few stations operating till the end of 2004. Temporary network recorded more than five thousand aftershocks with MWA magnitudes larger than 0.0. A total of 470 stronger events recorded on at least 10 stations have been selected for a preliminary analysis of the sequence. The earthquakes align on a approximately vertical plane and spread in a zone of approximately 6x3 km. Event waveforms have been merged into an integrated data set volume available upon request.