

Earthquakes in the Suha Krajina region in years 2013 and 2014

Martina Čarman, Matjaž Godec, Barbara Šket Motnikar, Polona Zupančič, and Mladen Živčić
Slovenian Environment Agency, Vojkova 1b, Ljubljana

In the region of Suha Krajina a number of weak to moderate earthquakes occurred in years 2013 and 2014 with two stronger shocks. The first one occurred on 16 June 2013 at 20.04 UTC. Its local magnitude was 3.6, and the highest intensity V-VI EMS-98. Since a lot of aftershocks followed the main one, we installed temporal seismic stations in the epicentral area. Thus, when the second and strongest event occurred on 13 March 2014 at 17.31 UTC, it was recorded on three temporal seismic stations, too. The magnitude of the strongest earthquake was 3.7, and the highest intensity VI EMS-98. Installation of instruments in the epicentral area has allowed us to explore the temporal, spatial and magnitude distribution of aftershocks and evaluates focal mechanisms of two stronger earthquakes.

Both earthquakes caused fear and some material damage. Data on earthquake effects were collected by macro-seismic questionnaires and analysed in details. Employees of the Office for Seismology and Geology visited the reported damaged buildings, and suggest possible seismic reinforced actions.