

Seismic Monitoring and its Analysis in Kyrgyzstan

Kyrgyzstan has signed the CTBT in 1996, and in 2003 it had been ratified by the Kyrgyz Parliament. In 2002 on the basis of Data Center of the Institute of seismology of National Academy of sciences of Kyrgyz Republic the National Data Center NDC-093 was established. Creation of the NDC-KG with access to the IDC in Vienna opens for Kyrgyzstan the additional capabilities in solving both scientific and practical problems in the seismic monitoring field, so far as geographically Kyrgyzstan is located in the limits of the Tien-Shan orogen, the modern tectonic activity of which defines a high seismicity of this territory. Very strong earthquakes with magnitude up to 8 and a lot of weaker events occur here. In average we process more than twelve thousand earthquakes per year. That is why a seismic monitoring was and remains one of the most actual problems for our republic. Correct seismic monitoring data and its appropriate analysis have both scientific and practical importance for Kyrgyzstan, as they are the basis for the estimation of seismic risk of this territory and appropriate preventive procedures planning, especially as the most densely populated areas are located in the focal zones of strong earthquakes.

Primary author: PERSHINA, Elena (Institute of Seismology (IS))

Presenter: PERSHINA, Elena (Institute of Seismology (IS))

Track Classification: 5. Monitoring for Nuclear Explosions in a Global Context