

### **T3.3-P31. Registration of regional and local seismic activity on seismic station PS44, GEYT, Turkmenistan. Appraisal of station capabilities and perspectives for seismic network development in Turkmenistan.**

Commissioning of the seismic array PS44 is associated with the beginning the new era of seismology in Turkmenistan, the era of digital data. The Institute created the program Sw-View for processing seismic data. It is designed for detailed processing and visual analysis of digital seismic signals coming from various data collection systems. Digital recording files in main seismic formats are used as raw data, such formats are used by stations Guralp, including miniSEED and mwf-files, which contain data of 3component digital registrations of vibrational speed and accelerations of the ground by seismometers Guralp, GeoSID, Ltd. The program is specifically designed for users whose task is to determine the parameters of the earthquake by specific characteristics of the signal. Sw-View is equipped with a simple and functional interface of interaction with the user and allows to conduct variety of manipulations with the seismic signals. Sw-View is the result of mathematical calculation that displays the speed and acceleration to improve the display of the event. Currently, the Institute of Seismology and Physics of atmosphere of Science Academy of Turkmenistan with the help of the program conducts operative and final processing of the earthquake.

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