

1.5-P48. Use of IMS Stations to Provide a New Representation of Kazakhstan Seismicity

Until the end of XX century it was considered that seismically active are only south, south-east and partially east regions of Kazakhstan. The maps of seismic zoning of Kazakhstan were constructed according to this information. With putting into operation of new IMS stations on the territory of Kazakhstan and in neighboring countries, the knowledge about seismicity of Kazakhstan territory has been changed significantly. The following new seismic arrays of the IMS have been installed in Kazakhstan: Makanchi (PS31), Borovoye (AS057), Kurchatov (AS058), and three-component Aktyubinsk (AS059). Data of seismic arrays Zalesovo (Russia) and Alibek (Turkmenistan), and three-component station Ala-Archa (Kyrgyzstan) are used. AFTAC (USA) has assisted with construction of seismic arrays in Kazakhstan – Karatau and Akbulak. The monitoring results showed availability of seismically active zones in Central, West, North and East parts of Kazakhstan. The earthquakes catalogue for these regions was compiled. The source mechanisms and aftershock activity were studied for the largest earthquakes; data on strong motions were collected. All new data are used for construction of a new map of seismic zoning of Kazakhstan. This work is implemented in cooperation with the Institute of Seismology of Kazakhstan.

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