Saryzhaz earthquake of January 28, 2013 with MS_{reg}=6.0 (Raimbek area of Almaty district, Kazakhstan)

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Abstract In the East of the high of Terskey-Alatau, in the northern part of the mountainous arch of Khan-Tengry at 28 January, 2013 a strong (M=6.0) Saryzhaz earthquake there was with intensity of ~7-8 points, which to the intersection of deep regional faults cross Chilik with longitudinal Baiankol'skii was timed. This earthquake in the upper part of the earth's crust (h=10 km) under the influence of compression stresses in the submeridional direction and near-horizontal stretching in the sublatitudinal direction occurred. Type of movement in the focus represents a shift on both possible planes of the rupture. Taking into account the most significant destruction in the Ili-Kazakh's autonomous region and Aksu's district of China, it can be assumed, that in focus a horizontally shift there was, that is sub-parallel to the Baiankol's fault on the north-western strike. The earthquake had two foreshocks and over 1000 aftershocks. The area of aftershocks is 10×15 km. At 14 stations for main shock accelerograms and reaction spectra was obtained.

Keywords Kazakhstan, ridge Terskey-Alatau, nodal plane, horizontal shift, forshocks, aftershocks.

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