Written by Administrator Thursday, 09 August 2012 12:47 - Last Updated Tuesday, 24 May 2016 09:40

**April**, 2016

### RS RAS and IS NAS KR scientific collaboration

The scientific collaboration between Research Station of RAS and the Institute for Seismology of NAS KR

in the seismological research scope continues.

Two sets of RT130-01 seismic station and STS-2 seismic sensors have been prepared and consigned to the Institute for Seismology by Group of New Technologies Introduction staff according to the last Agreement. It is the fifth Agreement for similar works during last three years.

RT130-01 stations and STS-2 seismic sensors purchase was funded by CRDF (U.S. Civilian Research and Development Foundation). PDA-KIT terminal software, intended for RT130-01 control, was updated in 2014. It must be noted that manufacturer of RT130-01 — namely REFTEK Inc., USA, supports its equipment maintenance during all time of equipments and software usage. Updated PDA-KIT terminal firmware was provided upon the Research Station request in shortest time.

Field work assumes RT130-01 seismic stations completed by STS-2 sensors arrangement at studied area and continuous recording of microseisms and vibrations from remote earthquakes and industrial explosions. The monitoring period depends on seismic activity level at observed territory. 10 seismic events at least with high records quality are necessary for data processing. While one station is taken as a reference point other stations are mobile.

One month is period of Agreement.

Read more

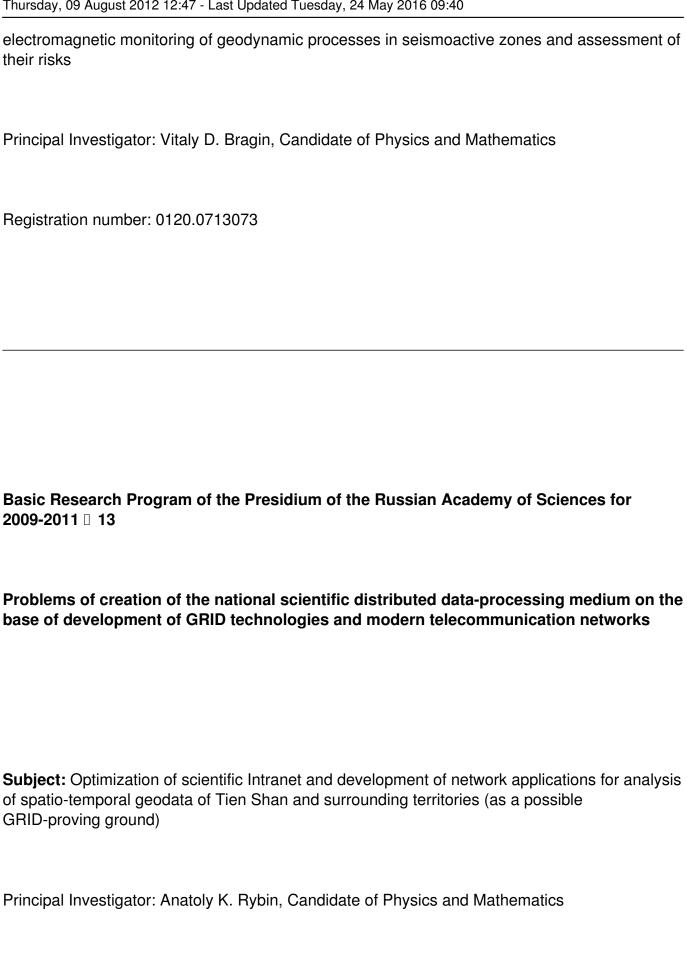


### **Projects and programs** Written by Administrator Thursday, 09 August 2012 12:47 - Last Updated Tuesday, 24 May 2016 09:40 **Basic Research Programs of National Academies of Sciences for 2008-2012** 7.3. Physical Fields of the Earth: Nature, Interaction. Geodynamics and Internal Structure of the Earth Subject 1: Study of deep structure of Tien Shan and surrounding territories using a complex of geophysical methods to find out the interrelation of mass-energy transfer in the Earth's crust and upper mantle with spatio-temporal distribution of seismicity Principal Investigator: Anatoly K. Rybin, Candidate of Physics and Mathematics Registration number: 0120.0713070 Subject 2: Study of distribution of velocities of the Earth's crust modern movements at the territory of Central Asia by means of space geodesy Principal Investigator: Gennady A. Sobolev, Doctor of Physics and Mathematics, Corresponding Member of the Russian Academy of Sciences

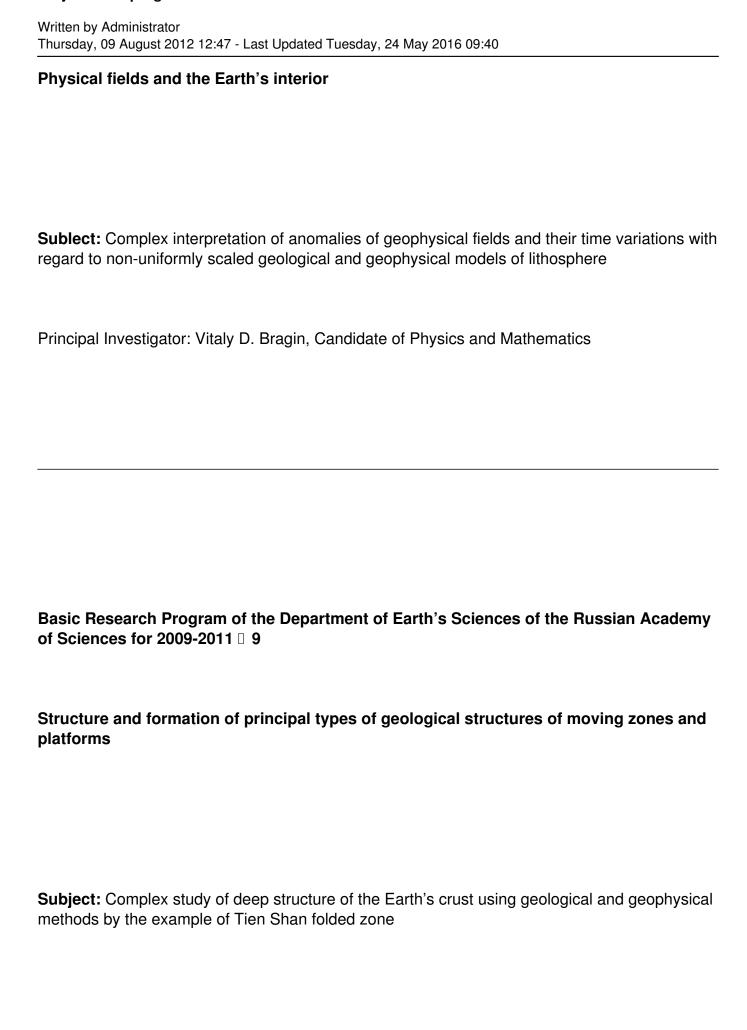
Registration number: 120.0713071

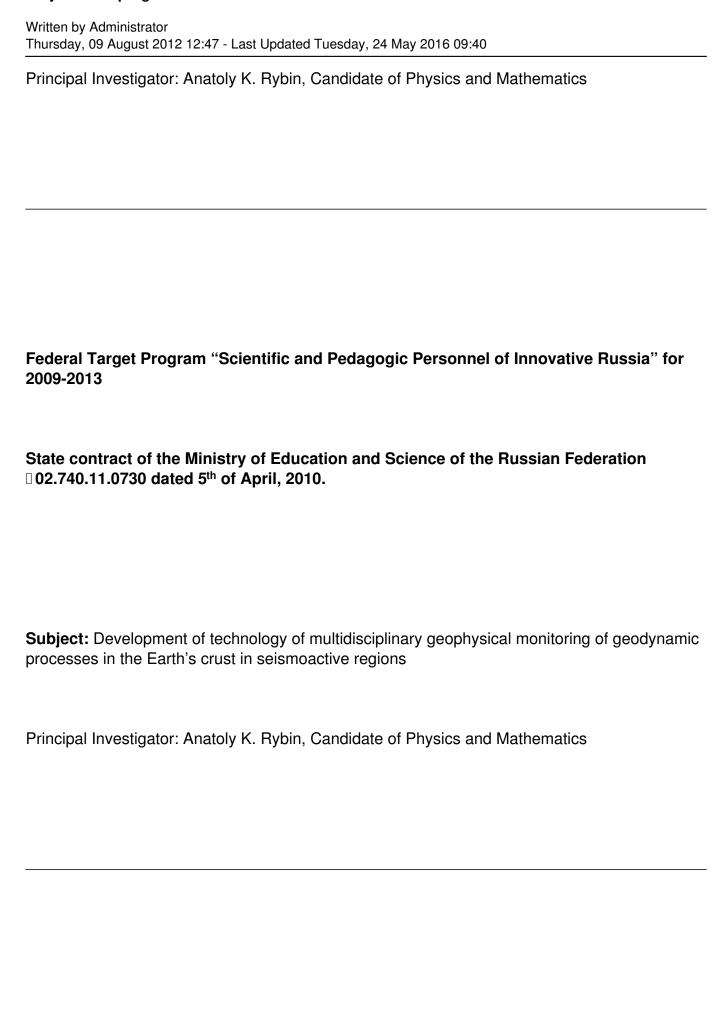
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7.11. Disastrous Processes of Natural and Technogeneous Origin, Seismicity – Study and Forecast
Subject: Study of geodynamic, seismic and geophysical processes as a base of earthquake forecast (including modeling of nonelastic processes in seismogenerating zones)
Principal Investigator: Vladimir A. Zeigarnik, Doctor of Technical Sciences
Registration number: 0120.0713072
7.13. Development of Methods, Technologies, Technical and Analytical Means of Studying the Earth's Surface and Interior, Hydrosphere and Atmosphere.  Geoinformatics.
Subject: Development of hardware and software aids and technological foundations of

# Projects and programs Written by Administrator Thursday, 09 August 2012 12:47 - Last Updated Tuesday, 24 May 2016 09:40 electromagnetic monitoring of geodynamic processes in seismoad



## Written by Administrator Thursday, 09 August 2012 12:47 - Last Updated Tuesday, 24 May 2016 09:40 Basic Research Program of the Department of Earth's Sciences of the Russian Academy of Sciences for 2009-2011 | 6 Geodynamics and physical processes in lithosphere **Subject:** Study of spatio-temporal distribution of deformations in the Earth's crust at the territory of Bishkek proving ground using electromagnetic and geodesic methods Principal Investigator: Vitaly D. Bragin, Candidate of Physics and Mathematics Basic Research Program of the Department of Earth's Sciences of the Russian Academy of Sciences for 2009-2011 | 7





### **Projects and programs** Written by Administrator Thursday, 09 August 2012 12:47 - Last Updated Tuesday, 24 May 2016 09:40 **Projects of the Russian Foundation for Basic Research (RFBR)** 11-05-00840-a (2011-2013) Deep structure and geodynamic features of depression areas of intracontinental orogenesis by the example of the Central Tien Shan Project Director: Anatoly K.Rybin 09-05-00687-a (2009-2011) Study of tectonic stresses generation mechanism in the Earth's crust of intraplate orogens Project Director: Nelly A.Sycheva 10-05-00572 (2010-2012)

Deep structure and geodynamics of the largest fault zones of Tien Shan

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Project Director: Elena A.Bataleva.

### 10-05-00231 (2010-2012)

Study of influence of electromagnetic fields on microfracture in geological medium by methods of active geoacoustic monitoring and laboratory modeling

Project Director: Alexander S.Zakupin