

# Plans for NEESPI-related studies in Russia

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**OBSERVATIONS OF LAND COVER AND NEEDS OF  
RESEARCH PROJECTS IN NORTHERN EURASIA,  
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graph TD; A([Russian programs and projects]) --> B([The Russian research programs on subjects of NEESPI.]); C([Programs with taking part of specialists from foreign countries within special programs for Russia, bilateral and international programs]) --> B;
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**Russian programs and projects**

**The Russian research programs on  
subjects of NEESPI.**

**Programs with taking part of specialists from foreign  
countries within special programs for Russia, bilateral and  
international programs**

# **Russian programs and projects**

## **1. Russian Academy of Sciences**

### **1.1. Presidium of Russian Academy of Sciences**

### **1.2. Divisions of Russian Academy of Sciences**

#### **1.2.1. Regional Centers**

#### **1.2.2. Institutes**

### **1.3. Siberian and Far East Branches of Russian Academy of Sciences**

#### **1.3.1. Regional Centers**

#### **1.3.2. Institutes**

## ***Programs of Presidium of Russian Academy of Sciences (with special financial support)***

### **Selected Examples**

- Change of the natural environment and climate: natural catastrophes.
- Natural processes in polar areas of the Earth and their probable development, displays and consequences.

## ***Programs of Divisions of Earth Sciences of the Russian Academy of Sciences (with special financial support)***

### **Selected Examples**

- Change of natural-technical complexes of Russia in zones of intensive technogenic impacts.
- Water resources, dynamics and protection of underground, surface waters and glaciers.

*Projects of Institutes forms* the programs of basic researches of the Russian Academy of Science.

### Selected Examples

One of the programs: Natural processes in external environments of the Earth in conditions of growing anthropogenous influence and scientific bases of ecologically safe rational wildlife management.

One of the project within this program: Regional hydrological consequences of changes of a climate and economic in territory of Russia and the adjacent states.

## **2. Russian Fund for Basic Research**

There are several types of RFBR grants.

Selected Example

Hydrological anomalies on Russian plain in conditions of warm climatic epochs of the Holocene and expected global climate warming.

### *3. Ministry of education and science of Russia*

#### Selected Examples

Creation of models of interactions in system «fluxes of heat and water - permafrost grounds» of Eastern Siberia.

Development of scenarios of state of water systems of river basins in areas of distribution of permafrost grounds in the Russian Federation in conditions of change of natural and anthropogenous factors.

Development of scenarios of change of climate over territory of Russia in view of carbon cycle in the alive both lifeless nature and anthropogenous impacts for estimation of risks, potential threats and opportunities.

Development of technologies of assessment of pollution and resources of underground waters of technogenically pressed territories of Russia.

Development of technologies of assessment of state, preservation, restoration and rational use violated and degraded lands and landscapes, with output on the technology, adapted to economic laws of the market.

## **4. Ministry of Natural Resources of Russia**

### Selected Example

To develop long-term forecasts of river runoff of main river basins of the Russian Federation and Central Asian region



## **Bilateral projects**

- 1. Bilateral programs of Russian Academy of Sciences with foreign countries (with independent financial support)**
- 2. Joint programs of Russian Fund for Basic Research with Japan, Germany, Holland, Austria, China etc. Funds for independent supporting of cooperative research projects**
- 3. Bilateral projects of Ministry of Education and Science with foreign countries (with independent financial support)**

### **Selected Example**

Project “Variation of Land/Atmosphere System In Northern Eurasia”, supported by Russian-Japanese Committee on Science and Technology Cooperation

# Agreements between Institutes

Example

## **THE AGREEMENT ON COOPERATION**

between Institute of Geography of Russian Academy of Sciences, Moscow  
(Russia)

and Institute of Northern Engineering, University of Alaska, Fairbanks (USA)

## **Foreign grants for supporting cooperative investigations**

### **1. U.S. Civilian Research and Development Foundation (CRDF)**

Launched as the CRDF's first initiative in 1995, the Cooperative Grants Program (CGP) is the flagship of the Foundation's activities in the former Soviet Union (FSU). The CGP provides up to two years of support to joint U.S. and FSU research teams in all areas of basic and applied research in the natural sciences, mathematics, engineering, and biomedical and behavioral sciences. The program offers an avenue into new research directions and collaborative opportunities for both U.S. and FSU scientists and engineers.

### **2. INTAS**

### **3. International Science Foundation**

## **Foreign projects with taking part of Russian scientists**

1. EU
  2. NASA
  3. Japanese Projects
- Etc.

# **International Programs**

**GAME**

**IGBP**

**CLiC**

**IPY**

**etc.**

# **Foreign grants for supporting of individual scientific programs of Russian scientists (in Russia and in Foreign Countries)**

1. International Science Foundation

2. Fulbright fund

etc.

# **PLANS of Russian side activities within NEESPI**

## **(1) In Russia**

- 1. To create system of criterion for selection of programs and projects for taking part at Russian program of investigations in NEA.**
- 2. To make inventory of mentioned programs and projects and to prepare List of projects-participants of Russian program of investigations in NEA.**
- 3. To prepare Russian program on investigations in NEA supported by RAS.**
- 4. To help to get funds for Proposals on investigations in NEA from different sources.**

## **(2) Bilateral activities**

**1. To promote programs of joint investigations within the framework of bilateral Agreements (RAS-NASA, etc.).**

## **(3) International activities**

**1. To sign Memorandum of Understanding among members of the Northern Eurasia Earth Science Partnership Initiative**

**2. To take part at:**

**2.1) developing a coordination mechanism for implementation of the Science Plan that places individual projects and scientists into a Science Team (teams);**

**2.2) forming international NEESPI organizing structure.**

**3. To take part active role at preparation of International Science Conferences and WSs on NEESPI.**