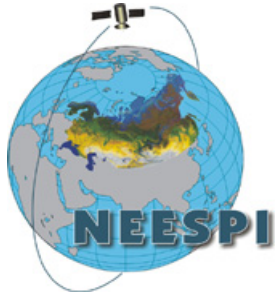


Northern Eurasia Earth Science Partnership



Initiative (NEESPI) in 2008: An overview of the current status

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Recognition



NEESPI is an interdisciplinary program of internationally-supported Earth systems and science research that addresses large-scale and long-term manifestations of climate and environmental change.

NEESPI Study Area includes: Former Soviet Union, Northern China, Mongolia, Fennoscandia, & Eastern Europe

NEESPI duration ~ 10 years

First phase foci of NEESPI: Monitoring and analyses

- **Monitoring the energy & water cycles**
- **Monitoring the cryosphere**
- **Monitoring the surface water cycle**
- **Monitoring the biogeochemical cycles, land use, and land cover**
- **Monitoring and projection of dust storms and air pollution**

Aspen Global Change Institute Workshop in August 2007

New course towards
strengthening of the NEESPI
research focus on **projections...**

**i.e., on modeling; and
regional modeling will play a
key role within this focus...**

Dynamics of the NEESPI statistics

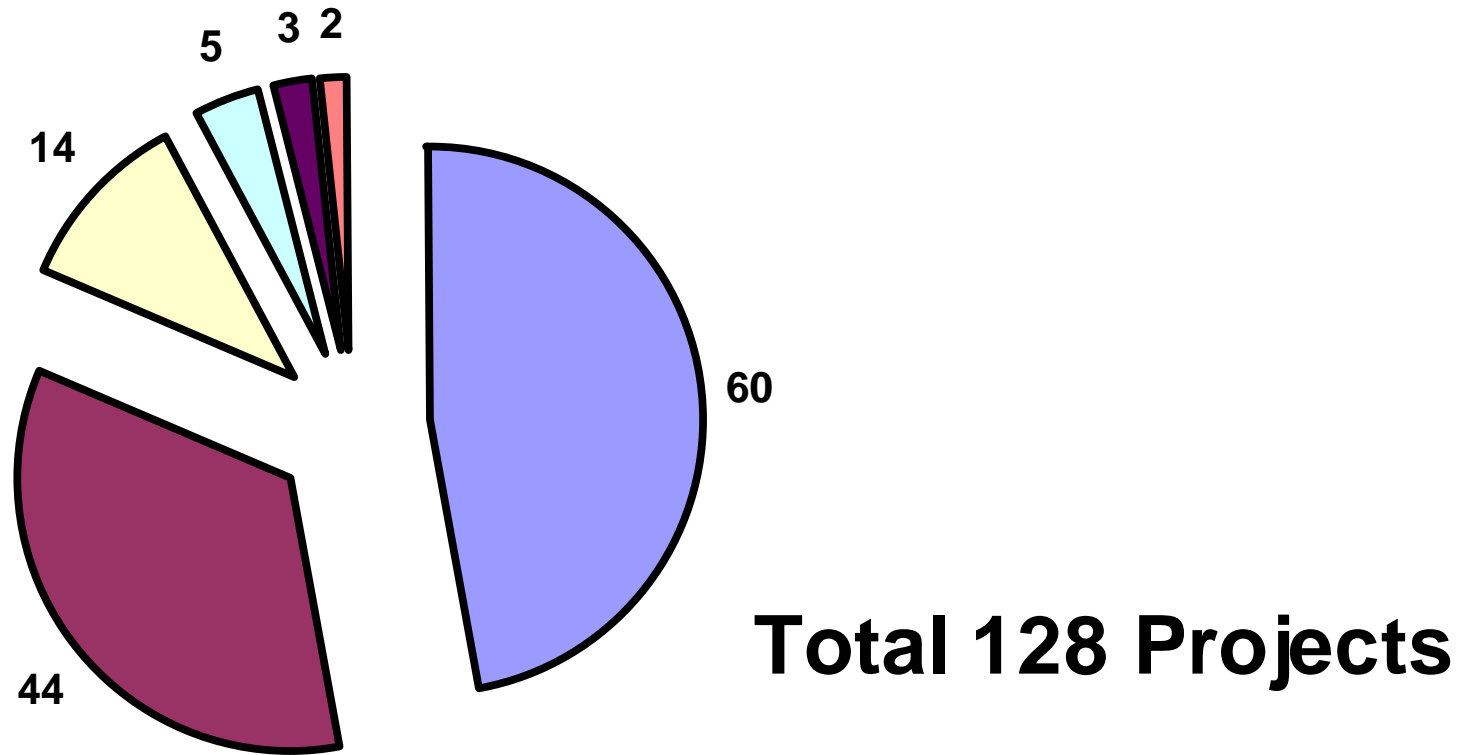
In December 2004, the NEESPI Science Plan was released after a successful peer review process.

In July 2006, 364 scientists of 195 institutions from 31 countries participated in the first 54 funded projects.

Current numbers (December 2008): More than 560 scientists from more than 200 institutions are working on 128 individual funded projects under the Initiative umbrella (with annual budget ~\$15M) and several more projects are in the process of joining NEESPI.

Additionally, NEESPI receives in kind assistance from EU, US, Russian, Chinese, Japanese, and International Agencies and Institutions.

NEESPI Projects by country; Dec.1, 2008



■ All US Agencies

■ All EU Agencies

■ All Chinese Agencies

■ All Russian Agencies

■ All Japanese Agencies

■ Canada

Governmental backing

- In April 2008, **The NEESPI research foci on regional modeling and studies of climate impacts and adaptation capacity** became a part of **The Memorandum of Understanding for Collaboration in the Fields of Meteorology, Hydrology, and Oceanography** between the U.S. National Oceanic and Atmospheric Administration (**NOAA**) and the Russian Federal Service for Hydrometeorology and Environmental Monitoring (**Roshydromet**).

NEESPI Outreach

<http://neespi.org>

During the past 3 years, 22 dedicated NEESPI Workshops and 5 NEESPI Open Science Sessions at the International Meetings were convened and more than 350 papers and books were published.

In April 2007: 1st Special NEESPI issue (13 papers) in *Global and Planetary Change*

In December 2007: 2nd NEESPI Special issue in *Environmental Research Letters* (15 papers)

This year: An overview paper for *Bull. Amer. Meteorol. Soc.* and **three books** are in press.

During the past 9 months there were five NEESPI gatherings

- **March 17-19, 2008, Jena, Germany. Workshop of the NEESPI Focus Research Center for Biogeochemical Cycles. Max-Planck Institute for Biogeochemistry** (52 presentations, 28 oral and 24 posters)
- **April 13-18, 2008, Vienna, Austria. NEESPI Session at the European Geosciences Union General Assembly 2008. Session BG2.8: "Land-atmosphere interactions in Northern Eurasia"** (61 presentations, 24 oral and 37 posters)
- **June 2-6, 2008, Helsinki, Finland. Regional NEESPI Science Team Workshop "Environmental and Climate Change in High Latitudes of Northern Eurasia"** (51 presentations, 39 oral and 12 posters)
- **August 23-28, 2008, Odessa, Ukraine. Regional NEESPI Science Team Workshop "Regional aspects of climate-terrestrial-hydrologic interactions in non-boreal Eastern Europe"** (49 presentations, 39 oral and 10 posters)
- **This session** (47 presentations).

Projected for 2009: April, 2009, Vienna, Austria. NEESPI Session at the Annual European Geosciences Assembly

Two Regional NEESPI Workshops:

Sept. 2009, Bishkek: on High Elevation Studies

July 2009, Krasnoyarsk: on Siberian Studies

Goals of each Workshop

Discuss current knowledge on past, present and future changes (in the region of Northern Eurasia in question or the topic in question) and their linkages with the global change problem

Assess regional field studies, data availability, and modeling capabilities

Identify problems and needs

Bring researchers together to encourage coordination and synergies

The meeting is considered a success if we make progress towards

- **Synthesis of current state of knowledge of changes, field and modeling capabilities**
- **Recommendations for integration of NEESPI regional and topical studies**
- **Identification of missing research topics critical for achievement of the NEESPI objectives**
- **Collection and dissemination of the Meeting presentations**
- **Bringing in new NEESPI members**
- **Conceiving a summary article, book, or proceedings**
- **We need to strengthen the NEESPI research focus to more effectively address **projections****
 - We charge the Workshop participants with a question: **What is the best road towards this goal?****

Dissemination of results presented at this Session

- We had requested and the Editors of the *Environmental Research Letters* (ERL) have agreed for a special NEESPI ERL issue based upon the presentations made at our Meeting and at the sister EGU Session in Vienna on April 2009.
- Those of you who are interested to contribute to this second NEESPI ERL Issue, please,
 - (a) let me know about your interest
 - (b) communicate an approximate title of the manuscript and
 - (c) read more about ERL at the Journal web site (www.iop.org/EJ/erl)

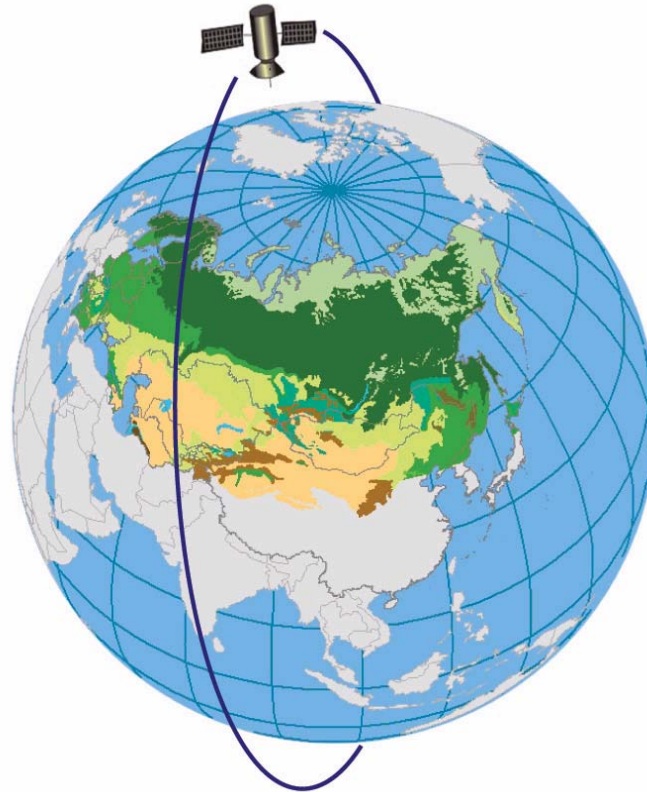
Editor of ERL, Dr. Keith De Blander, is present here and can answer your questions during the Session break.

FOR MORE INFORMATION SEE THE NEESPI WEB SITE:

<http://neespi.org>



(COURTESY PH)



Side Note:
*“NEESPI” is pronounced
approximately like the
Russian phrase for
“Don’t sleep”*

Northern Eurasia Earth Science Partnership Initiative