

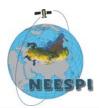
NEESPI Briefing



St. Petersburg, June 19, 2005

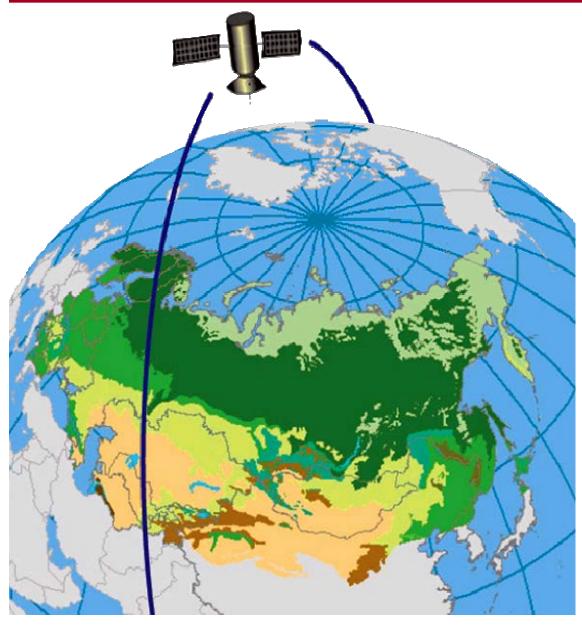
New NEESPI development and proposed structure

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National Climatic Data Center
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The NEESPI Study Area





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



Global, Interdisciplinary, Active



- Global Priorities were assigned to projects that addresses regional changes that affect (or may affect) Global Earth System
- Interdisciplinary -Strong interactions within the system terrestrial ecosystem -hydrospherecryosphere - atmosphere - human society in the region require interdisciplinary studies
- Active Preparation of the NEESPI Science plan (2003-2004) occurred simultaneous with pilot projects initiation and proposals' writing (some of them have been already funded)



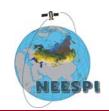
NEESPI statistics



NEESPI Science Plan Preparation Team includes more than 90 scientists (representing mostly academia) from 11 countries with the majority of them are from the United States and Russia.

Twenty five individual research projects (always with the international participation) are currently funded and approximately the same number of projects are pending under the NEESPI umbrella.

125 scientists of 87 institutions from 22 countries participated in the first 18 of these 25 funded projects



NEESPI Senior Scientists by country



(125 scientists from 87 institutions; 18 projects)

Russia
 31 scientists
 19 institutions

• including Moscow 18 scientists 8 institutions

most active Institution: RAS Sukachev Institute of Forest Research (6sci. in 4 pr-cts)

China
 15 scientists
 12 institutions

most active Institution: Nanjing University (2 scientists)

United States
 40 scientists
 23 institutions

most active institution: University of Maryland (4 scientists in 3 projects)

European Union (W) 20 scientists 14 institutions 6 countries

including Finland
 8 scientists
 4 institutions

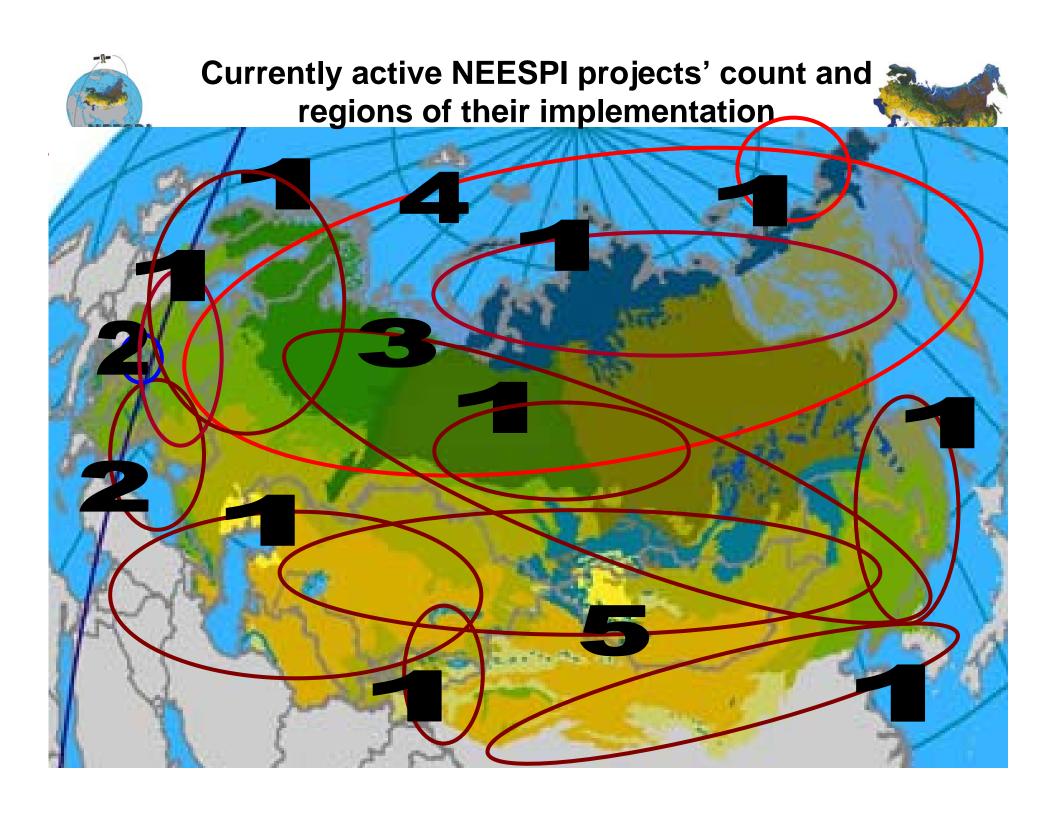
including Germany
 6 scientists
 4 institutions

Japan
 International Arctic Research Center

Canada3 scientists 3 institutions

NIS countries, Mongolia, and Eastern Europe

16 scientists 16 institutions 11 countries

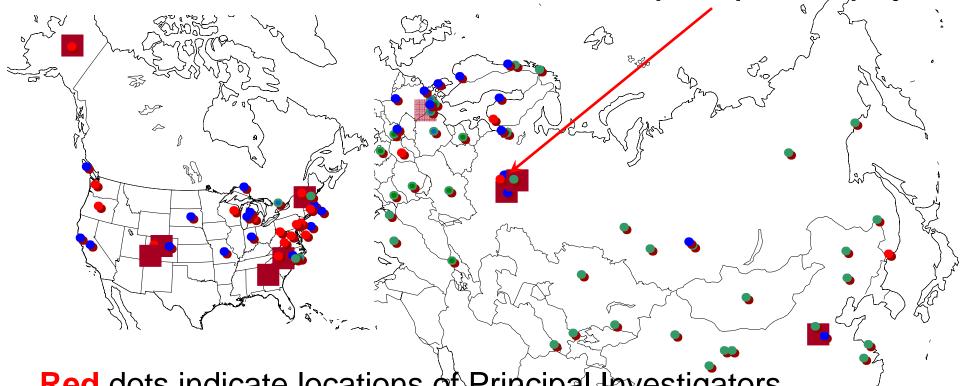




NEESPI Scientific Network



8 institutions in Moscow participate in 7 projects



Red dots indicate locations of Principal Investigators

Blue dots – locations of Co-Investigators, and

Green dots - locations of Collaborators.

Squares show Focus Research and Science Support Centers.

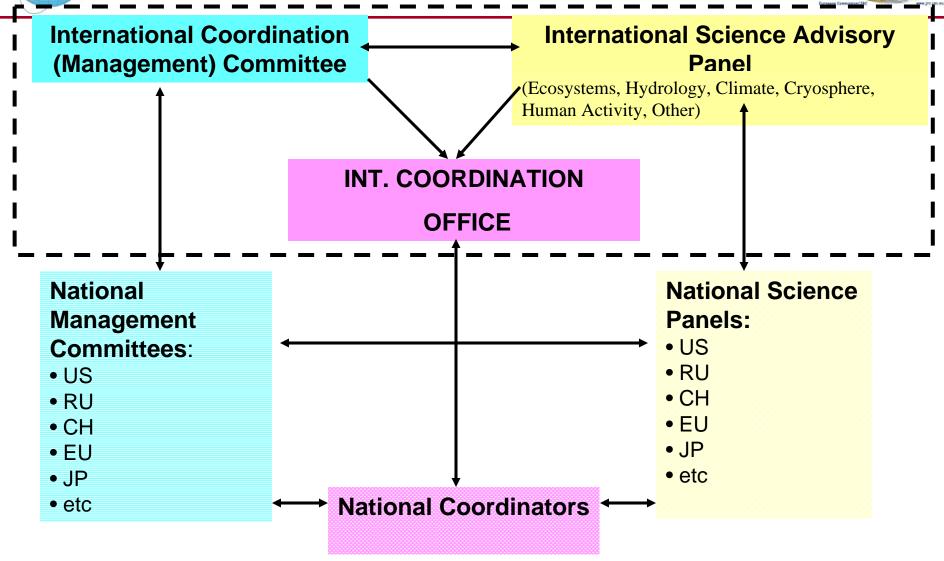
Six latest projects (in the arid zone) are not yet accounted.

Current Approach to the NEESPI Organizational Structure and Management

- The Initiative's founding leaders in the United States (NASA) and Russia (RAS) recognize that the organizational structure and management strategy must adapt to changing needs that include the development broad-based, multi-agency and strong international sponsorship of the NEESPI vision.
- In particular, The NASA-NEESPI Project Office at the Goddard Space Flight Center and its coordinating functions for the U.S. were transitioned to an independent NEESPI Coordinating Office to be led by an overall Coordinator supported through multi-agency funding.
- Now NEESPI is actively seeking collaboration with other agencies institutions and international programs.



Projected NEESPI Organizational Structure





First Steps



- Science Plan published on the web [http://neespi.org]
- More than 30 projects will be running at the end of 2005 (currently 25 are funded and ~ 25 are pending)
- Links to several International Earth Science Projects/Programs:
 - CliC [+ IPY], GWSP (endorsement received)
 - GEWEX

We are asking for NEESPI the status of continental scale regional projects

- GLP, GCP, and IGBP.
- Presentations at International Conferences
- First Open Science Session at the AGU (2004)
- Special Issue of "Global and Planetary Change"
- Two Proposals to IPY
- NEESPI Focus Research and Science Support Centers

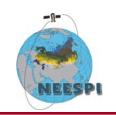
Location of NEESPI Focus Research, Science, and Education Support Centers

Current Centers and countries involved

- International Arctic Research Center, USA, Japan, Russia
- University of New Hampshire, USA, Russia, Uzbekistan
- Colorado State University, USA, Kazakhstan, Mongolia, Uzbekistan
- Georgia Institute of Technology, USA, China
- World Data Centers for Meteorology, Russia, USA
- Beijing Climate Center, China
- R&D Center SCANEX and Goddard Space Flight Center, Russia, USA
- University Corporation for Atmospheric Research, USA, Russia, Ukraine, China

Projected Centers

- Max-Planck-Institute for Biogeochemistry, Germany
- TBD



Currently, we envision six NEESPI Focus Research Centers



- Existing:
- Center for Cold Land Processes and Arctic Coastal Studies
- Center for Water System Studies
- Center on Aerosol Studies
- Center for Land Use Studies

Projected:

- Center for Biogeochemical Cycle Studies
- Center for Integration of the NEESPI Results and Modeling Studies



Currently, we envision five **NEESPI Science Support Centers**



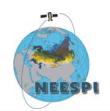
- Within the United States
- For hydrometeorological information:
- National Climatic Data Center, Asheville, NC
- For remote sensing information:
- Goddard Space Flight Center, Greenbelt, MD

Within the Russian Federation

- For hydrometeorological information:
- Research Inst. For Hydrometeorological Information, Obninsk, Kaluga Area
- For remote sensing information:
- SCANEX Corp., Moscow

Within China

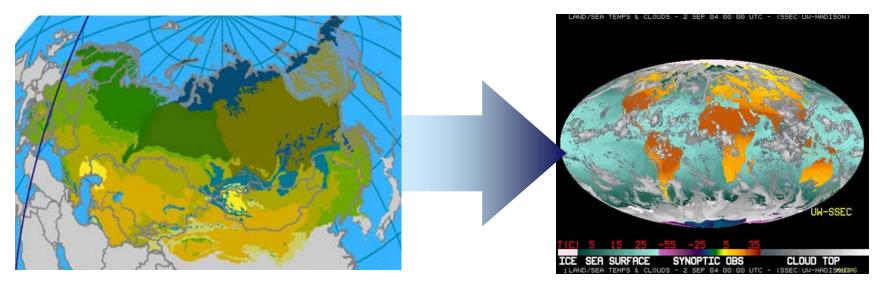
Beijing Climate Center



GEOSS Vision in the NEESPI Interpretation



 Enable a healthy public, economy, and planet through an integrated, comprehensive, and sustained Earth observation system

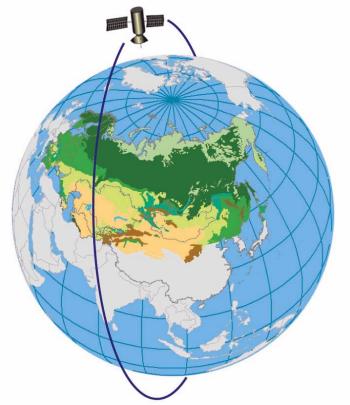


From a Regional View to a Global Analysis and Projections



FOR MORE INFORMATION SEE THE NEESPI WEB SITE:

http://neespi.org



Side Note:

"NEESPI" is pronounced approximately like the Russian phrase for

"Don't sleep "

Northern Eurasia Earth Science Partnership Initiative