

The NEESPI Study Area

<http://neespi.org>

THE NEESPI UPDATE

During the **past 12 years**,

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

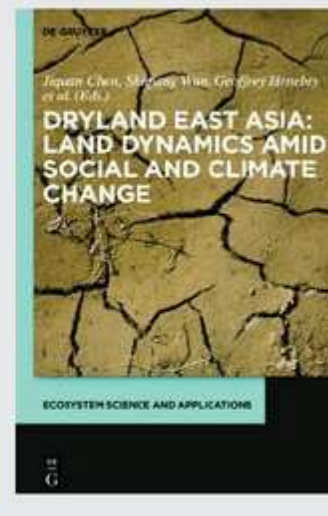
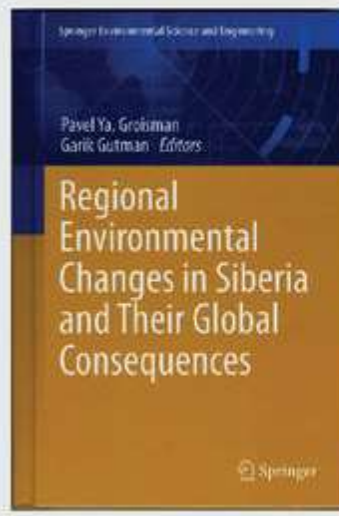
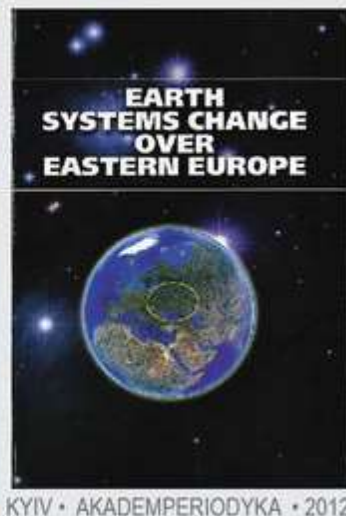
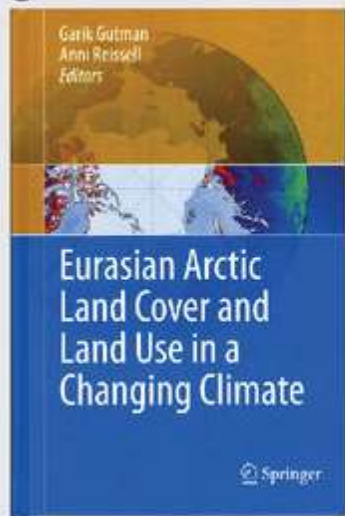
NEESPI Projects partition by topics and study zones and general statistics

- Biogeochemical cycles 50%
- Energy and Water cycles 30%
- Cryosphere changes 15%
- Atmospheric Aerosol changes/impact 5%

- Boreal Zone and the Arctic 75%
- Mid-latitude Dry Land Zone 25%

- **172** projects (**27** of them are still ongoing)
- **~ 750** scientists from more than **200** institutions of **30** countries; more than **80 PhD theses** defended.

The latest (present phase 3) NEESPI research foci consist from integrated assessments and projections



Book about the changes in Central Asia (~2015)

Two more overview books are in preparation and **one** more is planned.

New Challenges:

- **Increase in frequency and intensity of weather extremes**
- **Impacts of the rapid Arctic warming**
- **Impacts of the cryosphere retreat**
- **Biosphere changes (biomes' shifts)**
- **Growing water deficit**

All these challenges have “human dimension”

Future Earth:

New global platform for sustainability research launched in June 2014

- ***“Future Earth” objective:***
Interdisciplinary solution-oriented approach that will allow effective policy-making in environment management and control.

MAIRS => Future Asia;

BALTEX => Baltic Future;

NEESPI => “Northern Eurasia’s Future” Initiative (NEFI)

Transition from NEESPI to “Northern Eurasia’s Future” Initiative (NEFI)

- **Synthesis and Planning Workshop in Prague, The Czech Republic, Spring, 2015**
- **The ongoing NEESPI Projects will be coopted to NEFI**
- **Overviews of NEESPI Results (papers and book) are in preparation**
- **We are working on the NEFI White Paper**
- **In 2016, four NEESPI/NEFI Open Science Sessions are planned at the EGU, JpGU, AGU Meetings and the IGC Congress**