

M-IS01 "Environmental, Socio-economic and Climatic Changes in Northern Eurasia and their Feedbacks to the Earth System"

We invite presentations on the biogeochemical cycles, the surface energy budget and water cycle, and climate and ecosystem interactions in Northern Eurasia (land-cover/land-use change, atmospheric aerosols, soil, and permafrost changes that affect and are being affected by climate and ecosystem change), 'human dimensions', models and tools to address emerging global change issues. In environmental studies, our Session foci are on the carbon cycle of Northern Eurasia and on the permafrost changes in Siberia, Asian Mountains, and the Arctic coastal regions. In the water cycle studies, our Session foci are on the changing distribution of precipitation intensity, frequency, especially, in the cold/shoulder season transition periods when surface air temperature is close to 0°C, and on the spatial pattern and seasonal dynamics. The particular foci of this Session will be the studies of changes that impact regional sustainable development in the Dry Latitudinal Belt of Northern Eurasia that expands through the continent from Pannonian Steppe in the west to the dryland plateaus of the Northeast China in the east. We also invite early career scientists associated with (or interested in) the Northern Eurasia Earth Science Partnership Initiative and its continuation, Northern Eurasia Future Initiative (<http://neespi.org/>).

Conveners:

- Pavel Groisman, UCAR at NOAA National Centers for Environmental Information, 151 Patton Avenue, Asheville, North Carolina, 28801, United States. E-mail: pasha.groisman@noaa.gov
- Shamil Maksyutov, National Institute for Environmental Studies, CGER, Tsukuba, Japan. E-mail: shamil@nies.go.jp
- Jianguo Qi, Center for Global Change & Earth Observations, Michigan State University, East Lansing, Michigan, USA. E-mail : qi@msu.edu
- Elena Kukavskaya, V.N. Sukachev Institute of Forest, Laboratory of forest fires, Krasnoyarsk, Russian Federation. E-mail: kukavskaya@ksc.krasn.ru