

Multidisciplinary and Interdisciplinary Session (M)
at the JpGU General Assembly May 20-25, 2012, Makuhari Messe, Chiba-City, Japan

Changes in Northern Asia and the Arctic: Their feedbacks to the Globe

The Northern Eurasia Earth Science Partnership Initiative (NEESPI) was launched as an interdisciplinary program of internationally-supported Earth science research addressing large-scale and long-term manifestations of climate, environmental, and socioeconomic changes (focusing on Northern Eurasia) that affect the rate of global change through atmosphere-biosphere-cryosphere interactions and through strong biogeophysical and biogeochemical couplings. Monsoon Asia Integrated Regional Study (MAIRS) embraces regional Earth System studies in Southern and Central Asia. Dry Land Area of extratropical Eurasia is a region of mutual interests of both these mega-projects. NEESPI and MAIRS research teams welcome a broad spectrum of participants and do not restrict their gatherings to the research team members. The particular focus of this year's Session will be on the studies of the early career scientists associated with (or are interested to join) these mega-projects. The goal of the proposed Session is to bring together scientists who conduct their studies in the region to share their findings, to discuss the yet unresolved problems, and to establish fruitful collaboration within a broad range of the disciplines and research groups. We invite presentations on the biogeochemical cycles, the surface energy budget and water cycle, climate and terrestrial ecosystems interactions (land cover and land use, atmospheric aerosols, soil, and, in particular, dry land and weather extreme changes that affect and are being affected by climate and ecosystems changes), human dimension that includes, in addition to regional impact studies of environmental changes, the feedback studies of societal and land use changes on regional and global environment and climate, and tools to address the Northern Asia and the Arctic studies (paleoclimatic reconstructions, present and past field campaigns, remote sensing, and modeling).

Conveners:

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