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**CONTROL ID:** 1194853**TITLE:** Siberia Integrated Regional Study information-computational and instrumental infrastructure development**PRESENTATION TYPE:** Poster Requested**CURRENT SECTION/FOCUS GROUP:** Global Environmental Change (GC)**CURRENT SESSION:** GC16. Regional Climate Impacts 7. Environmental, Socio-economic and Climatic Changes in Northern Eurasia and their Feedbacks to the Global Earth System: The Role of Remote Sensing and Integrative Studies**AUTHORS (FIRST NAME, LAST NAME):** Evgeny P Gordov^{1, 2}, Michael V Kabanov², Vladimir A. Krutikov², Viktor I Kuzin³, Vasily N Lykosov⁴, Igor Okladnikov^{1, 2}, Alexander G Titov^{1, 2}, Evgeny A. Vaganov^{5, 6}**INSTITUTIONS (ALL):** 1. SCERT, Tomsk, Russian Federation.

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SPONSOR NAME: Evgeny Gordov**ABSTRACT BODY:** Reported are several important steps in development of information-computational and instrumental infrastructure of the NEESPI mega-project Siberia Integrated Regional Study, which is devoted to investigation of global change impact on Siberia environment and related feedback.

Firstly, development of scientific and technological basis and creation of a reference network for monitoring of climatic changes in Siberia is planned for 2012-2017. The network will include 12 reference monitoring stations equipped with modern instrumentation for monitoring spread across Siberia as well as data center aimed at storage of instrumental and modeling data and providing an access to those. The stations will be created at the following sites: Barnaul (Aktru), Chita (Arakhley), Irkutsk (Mondy), Khaty-Mansiisk (Shapsha), Krasnoyarsk (Zotino), Kyzyl (Dolinnaya), Nadym (Polyarnaya), Novosibirsk (Chany), Tomsk (Vasyuganie), Tomsk (Akademgorodok), Ulan-Ude (Istomino) and Yakutsk (Spasskaya Pad') and supported in operation by relevant SB RAS research Institutes and Siberian Universities.

Also a suite of models is under development now, which will comprise global and regional climatic and meteorological models run at the Siberian Supercomputer Center.

The CLEARs (CLimate and Environment Analysis and Research System) information-computational web-GIS is planned to be deployed at the data center and used for analysis of recent and future climatic and environmental changes in Siberia.

Altogether these components will form a SB RAS megascience facility aimed at detailed monitoring of on-going natural and climatic processes on this territory and prognoses of their dynamics in future. It should create an information basis for decision-making on future socio-economic development of Siberia. It will also improve significantly efficiency of international scientific cooperation in Siberia.

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INDEX TERMS: [1620] GLOBAL CHANGE / Climate dynamics, [1630] GLOBAL CHANGE / Impacts of global change, [1637] GLOBAL CHANGE / Regional climate change, [1694] GLOBAL CHANGE / Instruments and techniques.

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