## Japan 2014

Project title	Contact	Institution - lea	Institution - othe	Country - Lead	Country - other	Project leader	Other participar	Project Period	Investigated are	Description/abstract
GRENE Arctic climate change research project: Change in the terrestrial ecosystems of the pan-Arctic and effects on climate	Atsuko SUGIMOTO Faculty of Environmental Earth Science, Hokkaido University sugimoto@star.dti2.r e.jp t.c.maximov@ibpc.y sn.ru	National Institute of Polar Research	Hokkaido University Tohoku University National Institute for Environmental Studies Forestry and Forest Products Research Institute Japan Agency for Marine-Earth Science and Technology Nagoya University Kyoto University Institute for Biologigical Problems of Cryolithozone, SBRAS NorhEastern Federal University Melinikov Permafrost Institute, SBRAS	Japan	Rusia	Atsuko SUGIMOTO	Mamoru ISHIKAWA Takeshi YAMAZAKI Masaki UCHIDA Masao UCHIDA Yoijro MATSUURA Rikie SUZUKI Kazuyuki SAITO Yoshihiro IIJIMA Hotaek Park Takeshi OHTA Tetsuya HIYAMA Akira OSAWA Takeshi ISE T. C. Maximov A. Fedorov	2011-2015	Yakutia (central and eastern Siberia)	Observations on terrestrial eco and Chokurdakh, to investigat monitering network in Siberia is challenged for future prediti is imporatn part of the whole p of terrestrial ecosystem of Arc global climate system and futu ecosystem under rapidly chan
GRENE Arctic climate change research project: The role of Arctic cryosphere in global change	Hiroyuki ENOMOTO National Institute of Polar Research enomoto.hiroyuki@n pr.ac.jp sugiura@sci.u- toyama.ac.jp	National Institute of Polar Research i	Toyama University Meteorological Research Institute Kitami Institute fo Technology Cryolithozone, SBRAS Melinikov Permafrost Institute, SBRAS	Japan	Russia	Hiroyuki ENOMOTO	Konosuke SUGIURA Naohiko HIRASAWA Masahiro HOSAKA Shuhei TAKAHASHI T. C. Maximov A. Fedorov	2011-2015	Yakutia (central and estern Siberia)	Field and remote sensing obs investigate glacier, precipitatic
Global Warming and the Human-Nature Dimension in Siberia: Social Adaptation to the Changes of the Terrestrial Ecosystem, with an Emphasis on Water Environments	hiyama@chikyu.ac.j p	Research Institute for Humanity and Nature	Nagoya University Tohoku University Hokkaido University Institute of Biological Problems of Cryolithozone, Siberian Branch of the Russian Academy of Sciences Melnikov Permafrost Institute, Siberian Branch of the Russian Academy of Sciences Institute of the Humanities and the Indigenous Peoples of the North, Siberian Branch of the Russian Academy of Sciences	Japan	Russia	HIYAMA Tetsuya	YAMAGUCHI Yasushi OHTA Takeshi TAKAKURA Hiroki SUGIMOTO Atsuko YAMAZAKI Takeshi OKUMURA Makoto TATSUZAWA Shirow MAXIMOV Trofim C. FEDOROV Alexander N. BOYAKOVA Sardana IGNATYEVA Vanda	2008-2014 (6 years)	Eastern Siberia	This project uses multiple sate and the cryosphere, and to as region. The project is jointly or This research project takes na associated environmental cha cycles and predict likely variat and hydrologic variability in Ea and 3) examine the capability to adapt to predicted change i

cosystem on permafrost are conducted at Yakutsk, Ust'Maya, Tura, Tiksi, ate energy, water, and C fluxes, biomass, and fluxes of GHG. Permfrost is also established. Cooperation betwen observation and modering work tion and global influence. Scientific works for Russian Arctic in this project project for pan-Arctic. Puposes of this project are (1) understanding role ctic for polar amplification, (2) understanding material cycle in Arctic for ture change, (3) understanding current status of Arctic terrestrial nging Arctic climate.

servations on snow and glacier are conducted for eastern Siberia, to on, snow-cover and aerosol variations.

tellite and surface systems to track changes in water and carbon cycles ssess their likely interactions and significance for human inhabitants of the conducted by Japanese and Russian universities and research institutes. atural and social science perspectives on three aspects of climateange. It is designed to: 1) describe current variation in water and carbon ation in the near future; 2) make field observations of the effect of carbon castern Siberian landscapes, and identify key exchanges or driving forces; of the multi-ethnic Siberian peoples, and their distinct social economies, in their climate and terrestrial ecosystems.

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Project title	Contact	Institution - lea	Institution - oth	Country - Lead	Country - other	Project leader	Other participa	Project Period	Investigated are	Description/abstract
Land Surface Observation of Heat/Water/Vegetati on Conditions in the Yakutsk Area	Hironori Yabuki Japan Agency for Marine-Earth Science and Technology yabuki@jamstec.go.j p	Japan Agency for Marine-Earth Science and Technology	Japan Agency for Marine-Earth Science and Technology	Japan	Rusia	Hironori Yabuki	Tetsuo Ohata Yoshihiro IIJIMA Hotaek Park Konosuke SUGIURA Mamoru ISHIKAWA Takeshi YAMAZAKI Yuji Kodama T. C. Maximov A. Fedorov Pavel Konstantinov	2001-2017	Yakutsk (Taiga region in central and eastern Siberia)	Observational study of land su permafrost in Yakutsk region. Data base construction on soil Taiga region at Lena river Bas
Land Surface Observation of Heat/Water/Vegetati on Conditions in Yakutia	Hironori Yabuki Japan Agency for Marine-Earth Science and Technology yabuki@jamstec.go.j p	Japan Agency for Marine-Earth Science and Technology	Japan Agency for Marine-Earth Science and Technology	Japan	Russia	Hironori Yabuki	Tetsuo Ohata Yoshihiro IIJIMA Hotaek Park Konosuke SUGIURA Mamoru ISHIKAWA Takeshi YAMAZAKI Yuji Kodama A. Fedorov Pavel Konstantinov	2000-2017	Tiksi(Tundra region in Eastern Siberia)	Observational study of land su construction on soil temperatu at Lena river Basin.
Study on the forest dynamics in Siberian Taiga.	Sukachev Institute of Forest, SB RAS	Forestry and Forest Products Research Institute	Kyoto University Shinshu University Hokkaido University Okayama University	Japan	Russia	Matsuura Y	Osawa A, Kajimoto T, Morishita T, Noguchi K, Nakai Y, Yasue K, Koike T, Tokuchi N, Hirobe M	1994-2000, 2002- 2007, 2008-2009, 2009-2013, 2014- 2017	Tura, Central Siberia	forest biomass, CO2 flux, soil see Ecological Studies 209: Po
Aircraft Monitoring by NIES	Toshinobu MACHIDA tmachida@nies.go.j	National Institite for Environmental Studies (NIES)	Institute of Atmospheric Optics, Permafrost Institute, Institute of Microbiology	Japan	Russia	Toshinobu MACHIDA	Motoki SASAKAWA, Mikhael ARSHINOV, Alexey GALANIN, Boris BELAN	1993-present	Surgut, Novosibirsk and Yakutsk	Air samples are collected by a in NIES, Japan.
JR-STATION	Motoki SASAKAWA sasakawa.motoki@n ies.go.jp	National Institite for Environmental Studies (NIES)	Institute of Atmospheric Optics, Permafrost Institute, Institute of Microbiology	Japan	Russia	Motoki SASAKAWA	Toshinobu MACHIDA, Mikhael ARSHINOV, Alexey GALANIN, Boris BELAN	2001-present	8 sites in west Siberia and 1 site in east Siberia	CO2 and CH4 concentrations
Geodynamics in Russian Far East	Takahashi Hiroaki Faculty of Science Hokkaido University Sapporo, Japan Hiroaki Takahashi hiroaki@mail.sci.hok udai.ac.jp	Hokkaido University	Geophysical Survey of RAS Institute of Marine Geology and Geophysics of RAS Far Eastern Federal University Institute of Applied Mathematics of RAS Institute of Tectonics and Geophysics of RAS Kagoshima University Yamagata University	Japan	Russia	IHiroaki Takahashi	Alexey Malovichko Yuri Levin Victor Chebrov Larisa Gunbina Evgeny Gordeev Victor Byov Boris Levin Mikhail Gerasimenko Nikolay Shestakov Yuichiro Tanioka Kiyoshi Yomogida Kazunori Yoshizawa Hiroaki Miyamachi Mako Ohzono	1994-	Russian Far East	Seismological and geodetic ob Far East have been operated.

urface hydrology, heat/water exchange and vegetation conditions on

I temperature, deep ground temperature, and soil moisture content in sin.

urface hydrology, heat/water on tundra region in Tiksi region. Data base ure, deep ground temperature, and soil moisture content in Tundra region

carbon storage, litterfall, fine root biomass, CH4, N2O emmision, / Permafrost Ecosystems, Siberian Larch Forests, published 2010 Springer

ircraft over the 3 sites in Siberia and are analyzed for greenhouse gases

are continuously measured using 9 towers.

bservation network for tectonics and geodynamics researches in Russian

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Project title	Contact	Institution - lead	Institution - oth	Country - Lead	Country - other	Project leader	Other participa	Project Period	Investigated are	Description/abstract
Eruption dynamics of	Takahashi Hiroaki	Hokkaido University	Institute of	Japan	Russia	Nakagawa Mitsuhiro	Gordeev Evgeny	2010-	Kamchatka	Geophysical and geological in
Klyuchevskoy	Faculty of Science		Volcanology and				Yarosrav Muravyev		peninsula	have been carried out.
volcano	Hokkaido University		Seismology of RAS				Victor Chebrov			
	Sapporo, Japan		Kamchatka Branch				Natalia Malik			
	hiroaki@mail.sci.hok		of Geophysical				Sergey Serovetnikov			
	udai.ac.jp		Survey of RAS				Hiroaki Takahashi			
			Kyushu University				Hiroshi Aoyama			
			Kagoshima				Hiroki Miyamachi			
			University				Takeshi Matsushima			
			Ibaraki University				Takeshi Hasegawa			
			Tohoku University				Yoshihiro Ishiuka			
			National Instutute of							
			Advanced Industrial							
			Science and							
			Technology							

nvestigation for eruption dynamics of Klyuchevskoy volcano in Kamchatka