



**Program of the e-ASIA JRP Conference on  
Climate Change and Natural Disasters**

<i>Time</i>	<i>Event</i>
<b>Monday, August 12</b>	
00:00-23:59	Arrival and accommodation of the participants at FEFU Campus hotel
<b>Tuesday, August 13</b>	
09:30-10:00	<b>Registration</b>
10:00	<b>Opening ceremony</b> <b>Room: G512</b>
10:00-10:05	<b>Welcome address:</b> - Vladislav Panchenko, Academician RAS, RFBR Board Chairman
10:05-10:10	<b>Welcome address:</b> - Nikita Anisimov, President of Far Eastern Federal University
10:10-10:15	<b>Welcome address:</b> - Valentin Sergienko, Academician RAS, Vice President of Russian Academy of Sciences, President of Far Eastern Branch of Russian Academy of Sciences
10:15-10:40	<b>e-ASIA Joint Research Program</b> Masaki Sato Japan Science and Technology Agency (JST), Former Secretary-General of e-ASIA Joint Research Program
10:40-11:00	<b>Role of University Networks in Building Resilience to Climate Change and Disaster Risk Reduction</b> Ario Damar, Centre for Coastal and Marine Resources Studies (PKSPL IPB), Bogor Agricultural University (Institute Pertanian Bogor), Indonesia Johanna Diwa-Acallar, Partnerships in Environmental Management for the Seas of East Asia (PEMSEA), Philippines
11:00-11:10	<b>Photo</b>
11:10-11:30	<b>Coffee-break</b>
<b>Section 1. Global Climate Change Impact</b> <b>Moderator: Seiya Nagao</b> <b>Room: G512</b>	
11:30-11:50	Possible Consequences of Global Warming for Russia and Other Countries of Asia-Pacific Region Sergey Govorushko Pacific Geographical Institute FEB RAS, Russia

11:50-12:10	Arctic Permafrost Soil Hydrology and Snow Cover Depth Critically Determine CO <sub>2</sub> and CH <sub>4</sub> Emissions Martin Heimann Max-Planck-Institute for Biogeochemistry, Jena, Germany
12:10-12:30	Increase of Seasonal Amplitude of the Atmospheric CO <sub>2</sub> – Permafrost Thawing Signal? Sergey Zimov North-East Scientific Station of Pacific Institute for Geography FEB RAS, Russia
12:30-12:50	Gashydrates, Methane Fluxes and Seafloor Instability in the Sea of Okhotsk and Japan Sea Anatoly Obzhairov Pacific Oceanological Institute FEB RAS, Russia
12:50-14:00	<b>Lunch</b>
<b>Section 1. Global Climate Change Impact</b> <b>Moderator: Viktor Bogatov</b> <b>Room: G512</b>	
14:00-14:20	Long-term Dynamics of the Extreme Meteorological Events in the Russian Primorye Yury Zhuravlev Federal Scientific Center for Biodiversity of Terrestrial Biota of East Asia FEB RAS, Russia
14:20-14:40	Extreme Temperature Events and Human Health Elena Grigorieva Institute for Complex Analysis of Regional Problems FEB RAS, Russia
14:40-15:00	How Meteorological and Climatic Conditions Influence the Formation of Surface Sediment Runoff in an Urban Environment in Spring? Andrian Seleznev Institute of Industrial Ecology of Ural Branch of RAS, Russia
15:00-15:20	Dangerous Trends in Ecologo-Parasitological Situation on the Southern Russian Far East Under Climate and Demographic Change Larisa Prozorova Federal Scientific Center for Biodiversity of Terrestrial Biota of East Asia FEB RAS, Russia
15:20-15:40	<b>Coffee-break</b>
<b>Section 1. Global Climate Change Impact</b> <b>Moderator: Noriko Hasebe</b> <b>Room: G512</b>	
15:40-16:00	Proposal for Complex Study on the Gas Hydrates in the Asian Seas Renat Shakirov Pacific Oceanological Institute FEB RAS, Russia
16:00-16:20	Dangerous Consequences of Global Climate Change in the Amur River Basin Aleksei Makhinov Institute of Water and Ecological Problems FEB RAS, Russia
16:20-16:40	Gas Hydrates and Natural Gas Vents in the Sea of Okhotsk (Gasgeochemical Research) Natalia Sokolova

	Pacific Oceanological Institute FEB RAS, Russia
<b>Tuesday, August 13</b>	
<b>Section 2. Hazardous Natural Phenomena</b> <b>Moderator: Yury Kulchin</b> <b>Room: G601</b>	
11:30-11:50	Climate Change and the Risks of Flood Disasters in Asia: Crafting Adaptive and Just Institutions Jessie B. Manuta Fostering People's Education, Empowerment and Enterprise (FPE3), Philippines
11:50-12:10	The Role of a Catastrophic Tsunami in the Destruction of the Soil and Vegetation Cover in the Coastal Areas of the Bureya Reservoir Aleksei Makhinov Institute of Water and Ecological Problems FEB RAS, Russia
12:10-12:30	Climate Change and Natural Disasters in the Black Sea Region Alexander Polonsky Institute of Natural and Technical Systems, Russia
12:30-12:50	Extremely Hazardous Phenomena in the South of Russia in the Conditions of Climate Change Elena Voskresenskaya Institute of Natural and Technical Systems, Russia
12:50-14:00	<b>Lunch</b>
<b>Section 2. Hazardous Natural Phenomena</b> <b>Moderator: Jessie B. Manuta</b> <b>Room: G601</b>	
14:00-14:20	Microseisms of the "Voice of the Sea" Grigory Dolgikh Pacific Oceanological Institute FEB RAS, Russia
14:20-14:40	The Catastrophic Explosive Eruptions That Occurred in Southern Kamchatka Over the Past 4 Million Years Aleksey Rogozin Institute of Volcanology and Seismology FEB RAS, Russia
14:40-15:00	About the Relationship of Tropical and Subtropical Cyclogenesis on the Example of the Typhoon Dolphin. Nadezhda Kotovich The Department of Oceanology and Hydrometeorology FEFU Far Eastern Hydrometeorological Research Institute, Russia
15:00-15:20	Abnormal Gas-Geochemical Fields in Sediments of Gulf of Tonkin (Vietnam) and Thermal Sources of the Northwest Vietnam Nadezhda Syrbu Pacific Oceanological Institute FEB RAS, Russia
15:20-15:40	<b>Coffee-break</b>

<b>Section 2. Hazardous Natural Phenomena</b> <b>Moderator: Martin Heimann</b> <b>Room: G601</b>	
15:40-16:00	Photonics for Monitoring of Natural and Anthropogenic Disasters Yury Kulchin Institute of Automation and Control Processes FEB RAS, Russia
16:00-16:20	Prevalence of Tephra of Kamchatka Largest Volcanic Eruptions. GIS Analysis Anna Dolgaya Institute of Volcanology and Seismology FEB RAS, Russia
16:20-16:40	Tropical Cyclone Intensity Diagnostic Using Satellite Remote Sensing Data Aleksandr Eremenko Institute of Automation and Control Processes FEB RAS, Russia
16:40-17:00	The Threat of Forest Fires During Volcanic Eruptions in Kamchatka: Fire Factors, Conditions of Occurrence of Fires, Identification of Potential Risk Areas Sergey Grishin Federal Scientific Center for Biodiversity of Terrestrial Biota of East Asia FEB RAS, Russia
18:00	<b>Welcome Reception</b> <i>Polina" Café, FEFU Campus Promenade</i>
<b>Wednesday, August 14</b>	
<b>Section 1. Global Climate Change Impact</b> <b>Moderator: Vladimir Byshev</b> <b>Room: G512</b>	
10:30-10:50	How to Estimate the Past Record of Fault Activity: An Example from Nojima Fault, Japan Noriko Hasebe Kanazawa University, Japan
10:50-11:10	Local Oxygenation in the Midst of Regional Anoxia During the Last Glacial Maximum in the Japan Sea — the Case of Tatar Trough Renat Shakirov Pacific Oceanological Institute FEB RAS, Russia
11:10-11:30	Regional Climate Response in the Far North East Asia to Modern Warming Lyubov Vasilevskaya The Department of Oceanology and Hydrometeorology FEFU, Russia
11:30-12:00	<b>Coffee-break</b>
<b>Section 1. Global Climate Change Impact</b> <b>Moderator: Sergey Govorushko</b> <b>Room: G708</b>	
12:00-12:20	Modern Geoecological Problems of Lake Khanka, Causes and Solutions Anatoly Kachur Pacific Geographical Institute FEB RAS, Russia

12:20-12:40	Effects of Heavy Rain on Transport of Suspended Solids in River Systems Seiya Nagao Institute of Nature and Environmental Technology, Kanazawa University, Japan
12:40-13:00	Greenhouse Gases Distribution in the Near Water Atmosphere in the North of Japan Sea Andrey Yatsuk Pacific Oceanological Institute FEB RAS, Russia
13:00-14:00	<b>Lunch</b>
<b>Section 1. Global Climate Change Impact</b> <b>Moderator: Renat Shakirov</b> <b>Room: G708</b>	
14:00-14:20	The Impact of the Climatic Factor on the Variability of Transboundary Pollutant Transport in Northeast Asia Igor Kondratyev Pacific Geographical Institute FEB RAS, Russia
14:20-14:40	Methane Fluxes on the Water-Atmosphere Interface in the Sea of Japan Olga Mishukova Pacific Oceanological Institute FEB RAS, Russia
14:40-15:00	Migrational Processes of Chemical Elements and Soil Pollution During Deposit Exploitation in Priokhotye Region Alexandra Makhinova Institute of Water and Ecological Problems FEB RAS, Russia
15:00-15:20	<b>Coffee-break</b>
<b>Section 1. Global Climate Change Impact</b> <b>Moderator: Alexandra Makhinova</b> <b>Room: G708</b>	
15:20-15:40	About the Association of Climatic Features of the Primorsky Region with Solar Activity Irina Kuzmenko Ussuriisk Astrophysics Observatory FEB RAS, Russia
15:40-16:00	Greenhouse Gases Observations with High-Resolution Spectrometers from Space and Applications to Estimating Anthropogenic Greenhouse Gas Emissions Shamil Maksyutov National Institute for Environmental Studies of Japan, Tsukuba, Japan
16:00-16:20	Regional Aspects of Climate System Change Ekaterina Soloveva Department of Navigation, Far Eastern State Technical Fisheries University "Dalrybvtuz", Russia
16:20-16:40	Modeling of Changes in Global Climate Based on the Structure of Prehistorical Cultural Objects Alina Paranina The Herzen State Pedagogical University of Russia

## Wednesday, August 14

### Section 3. Climate Change Impact on Aquatic and Terrestrial Ecosystems

**Moderator: Olga M. Nuneza**

**Room: G601**

10:30-10:50	Climate Change Impact on the Dynamics of Freshwater Ecosystems Victor Bogatov Federal Scientific Center for Biodiversity of Terrestrial Biota of East Asia FEB RAS, Russia
10:50-11:10	Lessons from Historical Evidences: Catastrophic Impacts of Climatic Changes on Island Fauna and Their Implications on Ongoing Impacts Satoshi Chiba Division of Regional Ecosystem Studies in Center for Northeast Asian Studies, Tohoku University, Japan
11:10-11:30	Natural and Anthropogenic Threats for the Mekong Delta Aquatic Ecosystems Connected with Climate Change Xuan Quang Department of Environmental Management and Technology, Institute of Tropical Biology, VAST, Vietnam
11:30-12:00	<b>Coffee-break</b>
<b>Section 3. Climate Change Impact on Aquatic and Terrestrial Ecosystems</b> <b>Moderator: Yury Zhuravlev</b> <b>Room: G601</b>	
12:00-12:20	Harmful Algae Bloom in Jakarta Bay : Natural Disaster Related to Eutrophication Ario Damar Centre for Coastal and Marine Resources Studies (PKSPL IPB), Bogor Agricultural University (Institute Pertanian Bogor), Indonesia
12:20-12:40	Biodiversity and Ecosystem Service of Seagrass Beds in East and Southeast Asia: Current Status and Challenges Masahiro Nakaoka Akkeshi Marine Station, Field Science Center for Northern Biosphere, Hokkaido University, Japan
12:40-13:00	Trophic Interactions Between Bacteria, Heterotrophic Protozoa and bacteriophages in Epipelagic of the Sea of Japan Alyona Eskova Pacific Oceanological Institute FEB RAS, Russia
13:00-14:00	<b>Lunch</b>
<b>Section 3. Climate Change Impact on Aquatic and Terrestrial Ecosystems</b> <b>Moderator: Victor Bogatov</b> <b>Room: G601</b>	
14:00-14:20	Effects of Climate Change on Forest Ecosystems in Japan Tohru Nakashizuka Research Institute for Humanity and Nature, Japan

14:20-14:40	<p>Influence of Fertilizer Systems on the Structure and Change of Microorganisms of the Nitrogen Cycle</p> <p>Marina Sidorenko</p> <p>Federal Scientific Center for Biodiversity of Terrestrial Biota of East Asia FEB RAS, Russia</p>
14:40-15:00	<p>Addressing Vulnerabilities to Climate Change in the Philippines: the Academy Experience in Agusan Marsh</p> <p>Proserpina G. Roxas</p> <p>Mindanao State University at Naawan, Philippines</p>
15:00-15:20	<b>Coffee-break</b>
<p><b>Section 3. Climate Change Impact on Aquatic and Terrestrial Ecosystems</b></p> <p><b>Moderator: Masahiro Nakaoka</b></p> <p><b>Room: G601</b></p>	
15:20-15:40	<p>Terrestrial Biodiversity of Mimbilisan Protected Landscape in a Changing Climate in the Philippines</p> <p>Olga M. Nuneza</p> <p>Mindanao State University in Iligan City, Philippines</p>
15:40-16:00	<p>Communication of Solar and Geomagnetic Activity with the Weather Phenomena in the Troposphere and an Annual Increase of a Fir-tree Ayansky</p> <p>Michail Fisenko</p> <p>Ussuriisk Astrophysics Observatory FEB RAS, Russia</p>
16:00-16:20	<p>Effects of Hypoxia-Reoxygenation on the Antioxidant Defense System and Energetic Metabolism in Littoral and Deepwater Lake Baikal Amphipods</p> <p>Yana Klimova</p> <p>Papanin Institute for Biology of Inland Waters of Russian Academy of Sciences, Russia</p>
16:45	<p><b>Closing Ceremony</b></p> <p><b>Kirill Golokhvast</b></p> <p><b>Room: G512</b></p>