



PROGRAMME OF INTERNATIONAL SCIENTIFIC CONFERENCE
PROBLEMS OF ADAPTATION TO CLIMATE CHANGE

7–9 November 2011

November 7. Plenary session (Congress hall of World Trade Center Moscow, 2nd floor)

08:00 – 09:00	Registration
09:00 – 10:30	Opening of the conference. Greetings
	<p>Alexander Frolov (<i>Head of Roshydromet, Russian Federation</i>) Representatives of the Russian Federation high level Michel Jarraud (<i>Secretary-General of WMO</i>) Margareta Wahlström (<i>UN Special Representative of the Secretary General for Disaster Risk Reduction</i>) Rajendra Pachauri (<i>Chairman of IPCC</i>) Kori Udovički (<i>Assistant Secretary General of UN, Assistant Administrator of UNDP, Director of the Regional Bureau for Europe and CIS</i>) Welcoming address on behalf of Christiana Figueres (<i>Executive Secretary of UNFCCC</i>) Welcoming address on behalf of Irina Bokova (<i>Director-General of UNESCO</i>)</p>
10:30 – 11:00	<p>Going out to the media Coffee break (halls “Valdai” and “Seliger”, 1st floor)</p>
11:00 – 12:30	<p>Plenary session 1 Co-chairs: Alexander Frolov (<i>Roshydromet, Russian Federation</i>) Rajendra Pachauri (<i>IPCC</i>)</p>
11:00 – 11:30	<p>Alexander Frolov (<i>Roshydromet, Russian Federation</i>) The Science of and Adaptation to Climate Change: bridging over Uncertainties</p>
11:30 – 12:00	<p>Margareta Wahlström (<i>UN Special Representative of the Secretary General for Disaster Risk Reduction</i>) Using the Hyogo Framework for Action to strengthen climate change adaptation</p>
12:00 – 12:30	<p>Jean-Pascal van Ypersele (<i>IPCC</i>) Climate Change, Adaptation, and IPCC</p>
12:30 – 14:00	Lunch
14:00 – 15:30	Plenary session 2
14:00 – 14:30	<p>Yury Izrael (<i>Institute of Global Climate and Ecology, Roshydromet and Russian Academy of Sciences, Russian Federation</i>) Investigation on the possibility of artificial aerosol layer impact on the solar radiation flux with the purpose to stabilize the current climate. Results of field experiments conducted in Russia</p>
14:30 – 15:00	<p>Robert Corell (<i>Global Environment and Technology Foundation, Center for Energy and Climate Solutions, USA</i>) Climate Change: The Challenges of Adaptation</p>
15:00 – 15:30	<p>Nikolay Kasimov (<i>Moscow State University, Russian Federation</i>) Environmental and geographical consequences of global warming on the East European and Western Siberia Plains during XXI century</p>
15:30 – 16:00	Coffee break (halls “Valdai” and “Seliger”, 1st floor)
16:00 – 18:00	Plenary session 3
16:00 – 16:30	<p>Alan Robock (<i>Rutgers University, USA</i>) Smoke and Mirrors: Is Geoengineering a Solution to Global Warming?</p>
16:30 – 17:00	<p>Martin Parry (<i>Grantham Institute and Centre for Environmental Policy, UK</i>) Framing the key adaptation questions: How much adaptation is needed, when and where?</p>
17:00 – 17:30	<p>Marianne Fay (<i>World Bank</i>) Adapting to Climate Change in Eastern and Central Asia</p>
17:30 – 18:00	<p>Ulrich Bathmann (<i>Alfred Wegener Institute, Germany</i>) Climate engineering by Carbon Dioxide Removal Techniques: 1. Ocean Alkalinity Enhancement and 2. Ocean Iron Fertilization</p>
18:00 – 18:30	Concluding remarks by Co-chairs
18:30 – 21:00	Reception

November 8. Parallel section 1 “Adaptation policies and measures” (Auditorium 1 of World Trade Center Congress hall, 2nd floor)

09:00 – 10:30	Section 1 Co-chairs: Ali M. Noorian (<i>Shomal University, Islamic Republic of Iran</i>) Vladimir Kattsov (<i>Voeikov Main Geophysical Observatory, Roshydromet, Russian Federation</i>)
09:00 – 09:10	Opening remarks by Co-chairs
09:10 – 09:30	Joseph Mukabana (<i>Ministry of Environment and Mineral Resources, Kenya</i>) The Role of Climate in Socio-Economic Development in Kenya and Regional Initiatives
09:30 – 09:50	Paola Albrito (<i>Regional Coordinator Europe, UNISDR</i>) Governance of Climate change adaptation and disaster risk reduction in Europe
09:50 – 10:10	James Snider (<i>WWF, Canada</i>) Rapid Assessment of Circum-Arctic Ecosystem Resilience (RACER): a Framework and Tool to Guide Ecosystem Adaptation Measures under Major Climatic Change
10:10 – 10:30	Ali M. Noorian (<i>Shomal University, Islamic Republic of Iran</i>) Challenges of Climate Change Adaptation: Case study Urmia Lake
10:30 – 11:00	Coffee break (halls “Valdai” and “Seliger”, 1st floor)
11:00 – 12:30	Section 1
11:00 – 11:20	Nina Kobysheva (<i>Voeikov Main Geophysical Observatory, Roshydromet, Russian Federation</i>) Climate change adaptation strategies in the Technical Sphere
11:20 – 11:40	Isabelle Niang (<i>Cheikh Anta Diop University, Senegal</i>) Adaptation to climate change in coastal countries of West Africa
11:40 – 12:00	Sachidananda Satapathy (<i>Ministry of Environment and Forests, Government of India</i>) Climate Change Assessment and Adaptation Policy in India
12:00 – 12:20	Petteri Taalas (<i>Finnish Meteorological Institute, Finland</i>) Adaptation to Climate Change in the European Arctic
12:20 – 12:30	Concluding remarks by Co-chairs
12:30 – 14:00	Lunch

November 8. Parallel section 2 “Adaptation economics” (Auditorium 2 of World Trade Center Congress hall, 2nd floor)

09:00 – 10:30	Section 2 Co-chairs: Anil Markandya (<i>Basque Centre for Climate Change, Spain</i>) Boris Porfiriev (<i>Russian Academy of Sciences, Russian Federation</i>)
09:00 – 09:10	Opening remarks by Co-chairs
09:10 – 09:30	Shardul Agrawala (<i>OECD</i>) Economic Aspects of Adaptation: An Assessment of Costs, Benefits and Policy Instruments
09:30 – 09:50	Robert Mendelsohn (<i>Yale University, USA</i>) The Economics of Climate Adaptation
09:50 – 10:10	Keith Alverson (<i>UNEP/DEPI</i>) Making the scientific and economic case for Ecosystem Based Adaptation
10:10 – 10:30	Andrey Ivanov (<i>Russian Academy of Agricultural Sciences, Russian Federation</i>) Adaptive potential of agricultural production in Russian Federation
10:30 – 11:00	Coffee break (halls “Valdai” and “Seliger”, 1st floor)
11:00 – 12:30	Section 2
11:00 – 11:20	Eduardo Calvo (<i>University of San Marcos, Peru</i>) Adaptation to climate change and sustainable development
11:20 – 11:40	Boris Revich (<i>Russian Academy of Sciences, Russian Federation</i>) Climate change and public health: Adaptation strategy
11:40 – 12:00	Andrey Stetsenko (<i>Moscow State University, Russian Federation</i>) “Kyoto” forests of Russia – opportunities and problems
12:00 – 12:20	Sergey Bobylev (<i>Moscow State University, Russian Federation</i>) Climate change and energy security for Russia
12:20 – 12:30	Concluding remarks by Co-chairs
12:30 – 14:00	Lunch

November 8. Parallel section 3 “Investigation of possibilities of climate stabilization using new technologies” (Auditorium 3 of World Trade Center Congress hall, 2nd floor)

09:00 – 10:30	Section 3 Co-chairs: Yury Izrael (<i>Institute of Global Climate and Ecology, Roshydromet and Russian Academy of Sciences, Russian Federation</i>) Ulrich Bathmann (<i>Alfred Wegener Institute, Germany</i>)
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09:00 – 09:10	Opening remarks by Co-chairs
09:10 – 09:30	Alan Carlin (<i>Environmental Protection Agency, USA</i>) The Increasing Need for Research on Geoengineering Approaches to Reducing Potential Global Cooling
09:30 – 09:50	Karen Scott (<i>University of Canterbury, New Zealand</i>) The Legal and Policy Implications of Geoengineering Technologies: An Evaluation
09:50 – 10:10	Alexey Eliseev (<i>Institute of Atmospheric Physics, Russian Academy of Sciences, Russian Federation</i>) An Assessment for Geoengineering Efficiency due to Sulphate Emissions in the Stratosphere under the RCP (Representative Concentration Pathways) Anthropogenic Scenarios
10:10 – 10:30	Evgeniy Volodin (<i>Institute of Numerical Mathematics, Russian Academy of Sciences, Russian Federation</i>) Modeling of climate changes induced by injection of sulfur species to the stratosphere with Earth system model
10:30 – 11:00	Coffee break (halls “Valdai” and “Seliger”, 1st floor)
11:00 – 12:30	Section 3
11:00 – 11:20	Georgiy Stenchikov (<i>King Abdullah University of Science and Technology, Saudi Arabia</i>) Study of Long-term Effect of Stratospheric Geoengineering on Climate Characteristics
11:20 – 11:40	Artash Aloyan (<i>Institute of Numerical Mathematics, Russian Academy of Sciences, Russian Federation</i>) Formation of sulfate aerosols in the troposphere and lower stratosphere
11:40 – 12:00	Vladimir Ivanov (<i>Research and Production Association “Typhoon”, Russian Federation</i>) Climate Chamber Studies of Solar Radiation Attenuation by Model Stratospheric Aerosol
12:00 – 12:20	John Latham (<i>National Centre for Atmospheric Research, USA</i>) Marine cloud brightening
12:20 – 12:30	Concluding remarks by Co-chairs
12:30 – 14:00	Lunch
14:00 – 15:30	Section 3
14:00 – 14:30	Alan Gadian (<i>University of Leeds, UK</i>) Numerical Simulations of Stratocumulus Cloud Response to Aerosol Perturbations
14:30 – 15:00	Stephen Salter (<i>University of Edinburgh, UK</i>) Identification of Side Effects of Cloud Albedo Control Using Pseudo-Random Perturbations of Climate Models
15:00 – 15:30	Robert Kennedy (<i>The Ultimax Group Inc., USA</i>) Dyson Dots: Changing the Solar Constant to a Variable with PV Lightsails
15:30 – 16:00	Concluding remarks by Co-chairs

**November 8. Round table 1 “Risks for indigenous people in regions vulnerable to climate change: adaptation perspective”
(Auditorium 1 of World Trade Center Congress hall, 2nd floor)**

14:00 – 15:30	Round table 1 Moderators: Vital Bambanze (<i>Parliament, Burundi</i>) Pavel Sulyandziga (<i>Russian Association of Indigenous Peoples of the North, Siberia and Far East</i>)
14:00 – 14:10	Opening remarks by Moderators
14:10 – 14:35	Lyudmila Bogoslovskaya (<i>Russian Institute of Cultural and Natural Heritage</i>) Yury Plusnin (<i>Higher School of Economics, Russian Federation</i>) Hubertus Samangun (<i>International Alliance of Indigenous and Tribal Peoples of the Tropical Forests, Indonesia</i>) Roberto Coraite (<i>Trade Confederation of Bolivian Rural Workers, Bolivia</i>) Victoria Sharakhmatova (<i>Association of the Indigenous Peoples of the North of Kamchatka Region, Russian Federation</i>) Leonid Zubov (<i>World Health Organization</i>) Vyacheslav Shadrin (<i>Institute of the Humanities and the Indigenous Peoples of the North of the Siberian Branch of the Russian Academy of Sciences</i>)
14:35 – 15:20	Discussion
15:20 – 15:30	Concluding remarks by Moderators

**November 8. Round table 2 “State and business interaction in addressing adaptation issues”
(Auditorium 2 of World Trade Center Congress hall, 2nd floor)**

14:00 – 15:30	Round table 2 Moderators: Oleg Pluzhnikov (<i>Ministry of Economic Development of the Russian Federation</i>) Walter Fust (<i>Former Director General, Swiss Agency for Development and Cooperation</i>)
14:00 – 14:10	Opening remarks by Moderators
14:10 – 14:35	Leena Wokeck (<i>Asian Institute for Technology, Thailand</i>) Wijnand de Wit (<i>Strategic advisory firm “Dalberg”, Switzerland</i>) Esko Kivisaari (<i>Federation of Finnish Financial Services, Finland</i>) Robert Pukaric (<i>Ericsson, Northern Europe and Central Asia</i>) Pradeep Kurukulasuri (<i>UNDP</i>) Mary Power (<i>World Meteorological Organization, Switzerland</i>) Sergey Konyaev (<i>Gazprom, Russian Federation</i>)
14:35 – 15:20	Discussion

15:20 – 15:30	Concluding remarks by Moderators
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**November 8. Round table 3 “Specific features of adaptation to climate change in economies in transition”
(Auditorium 1 of World Trade Center Congress hall, 2nd floor)**

15:30 – 17:00	Round table 3 Moderators: Kori Udovički (UN, UNDP, Regional Bureau for Europe and CIS) Vladimir Sergeev (Ministry of Foreign Affairs of the Russian Federation)
15:30 – 15:45	Opening remarks by Moderators
15:45 – 16:30	Alexander Grebenkov (UNDP, Belarus) Oleg Shamanov (Ministry of Foreign Affairs of the Russian Federation) Roman Corobov (Eco-Tiras, Moldova) Pradeep Kurukulasuri (UNDP) Martin Kaspar (European Commission) Tolebay Adilov (Ministry of Environment Protection, Kazakhstan) Zuhra Abaihanova (UNDP) Yegor Volovik (UNDP)
16:30 – 16:50	Discussion
16:50 – 17:00	Concluding remarks by Moderators

November 8. Poster session (Halls “Valdai” and “Seliger”, 1st floor)

15:30 – 18:00	Poster session
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November 9. Plenary session (Congress hall of World Trade Center Moscow, 2nd floor)

09:00 – 15:30	Plenary session Co-chairs: Alexander Frolov (Roshydromet, Russian Federation) Rajendra Pachauri (IPCC)
09:00 – 09:30	Reports of Co-chairs of section 1 “Adaptation policies and measures” on the results of the section and review of poster presentations on the subject of section 1: Ali M. Noorian (Shomal University, Islamic Republic of Iran) Vladimir Kattsov (Voeikov Main Geophysical Observatory, Roshydromet, Russian Federation)
09:30 – 10:00	Reports of Co-chairs of section 2 “Adaptation economics” on the results of the section and review of poster presentations on the subject of section 2: Anil Markandya (Basque Centre for Climate Change, Spain) Boris Porfiriev (Russian Academy of Sciences, Russian Federation)
10:00 – 10:30	Reports of Co-chairs of section 3 “Investigation of possibilities of climate stabilization using new technologies” on the results of the section and review of poster presentations on the subject of section 3: Yury Izrael (Institute of Global Climate and Ecology, Roshydromet and Russian Academy of Sciences, Russian Federation) Ulrich Bathmann (Alfred Wegener Institute, Germany)
10:30 – 11:00	Coffee break (halls “Valdai” and “Seliger”, 1st floor)
11:00 – 12:00	Plenary session
11:00 – 11:20	Reports of Moderators of Round table 1 “Risks for indigenous people in regions vulnerable to climate change: adaptation perspective”: Vital Bambanze (Parliament, Burundi) Pavel Sulyandziga (Russian Association of Indigenous Peoples of the North, Siberia and Far East)
11:20 – 11:40	Reports of Moderators of Round table 2 “State and business interaction in addressing adaptation issues”: Oleg Pluzhnikov (Ministry of Economic Development of the Russian Federation) Walter Fust (Former Director General, Swiss Agency for Development and Cooperation)
11:40 – 12:00	Reports of Moderators of Round table 3 “Specific features of adaptation to climate change in economies in transition”: Kori Udovički (UN, UNDP, Regional Bureau for Europe and CIS) Vladimir Sergeev (Ministry of Foreign Affairs of the Russian Federation)
12:30 – 14:00	Lunch
14:00 – 14:30	Discussion
14:30 – 15:00	Summary by the Chairman of the Organizing Committee of the Conference Alexander Frolov (Roshydromet, Russian Federation)
15:00	Conference close