



SakhaFluxNet



National Summer Field School
"Greenhouse Gases and Climate:
Monitoring, Manipulation, Modeling and Management"
dedicated to the 70th anniversary of
Institute for Biological Problems of Cryolithozone SB RAS (IBPC)
Yakut Scientific Center SB RAS
August 15 - 22, 2022
Forest Science Station "Spasskaya Pad"

Summer Field School Program

August 14	Arrival of participants.
August 15	<p>09:30 - 10.00 – Registration of participants Yakutsk Scientific Center SB RAS, Conference Hall, Yakutsk, Petrovskogo 2</p> <p>10:00 - 10:30 – Welcome speech Sergey V. MESTNIKOV – Deputy Chairman of the Government of the Republic of Sakha (Yakutia) Mikhail P. LEBEDEV – General Director of the Federal Research Center "Yakut Scientific Center SB RAS", corresponding member of the Russian Academy of Sciences; Innokentiy M. OKHLOPKOV - Director of the Institute for Biological Problems of Cryolithozone SB RAS, PhD</p> <p>Plenary session 10:30 - 11:00 – Trofim MAXIMOV., Dr.Sci., Institute for Biological Problems of Cryolithozone SB RAS, Federal Research Center "Yakut Scientific Center SB RAS",</p>

	<p>Russia STUDY OF GREENHOUSE GASES WITHIN PERMAFROST FOREST ECOSYSTEMS OF THE NORTH-EASTERN EURASIA IN THE CONTEXT OF GLOBAL CLIMATE WARMING AND INCREASED ANTHROPOGENIC PRESSURE AT THE END OF THE XXth AND THE BEGINNING OF THE XXI CENTURY 11:00 - 11:30 Alexander FEDOROV, Dr,Sci., Institute of Permafrost Science SB RAS, Russia IMPACT OF CLIMATE CHANGE AND PERMAFROST ON PERMAFROST LANDSCAPES AND ECOSYSTEMS 11:30 - 11:45 Coffee break 11:45 - 12:15 – Stanislav KSENOFONTOV, PhD, University of Northern Iowa, USA SOCIAL AND ECOLOGICAL SYSTEMS OF THE ARCTIC IN THE CONTEXT OF GLOBAL CHANGES 12:15 - 12:45 – Taro NAKAI, PhD, National Taiwan University, Taiwan INTRODUCTION TO FOREST MICROMETEOROLOGY 12:45 – 13:15 –Roman PETROV, Institute for Biological Problems of Cryolithozone SB RAS, Russia ARCTIC STUDIES ON ENERGY, MOISTURE AND CARBON FLOWS 13:15 – 14:15 – Lunch 14:15 – 14:45 – Ayumi KOTANI, PhD, Nagoya University, Japan FOREST CARBON CYCLE ACCORDING TO FLUX TOWER OBSERVATIONS 14:45 – 15:15 Ruslan SHAKHMATOV, PhD, Hokkaido University, Japan EXPERIMENTAL SNOW COVER MANIPULATION AS A METHOD FOR PREDICTING THE IMPACT OF POTENTIAL CLIMATE CHANGE EFFECTS ON ARCTIC ECOSYSTEMS 15:15 - 15:45 Shamil MAKSYUTOV, PhD, National Institute for Environmental Studies Japan CARBON DEPOSITION: BIOGEOCHEMICAL MODELS AND ATMOSPHERIC CO2 MEASUREMENTS 15:45 – 16:15 Tuyara GAVRILYEVA, Dr,Sci., Institute of Economics SB RAS, Russia ANTHROPOGENIC GREENHOUSE GAS EMISSIONS ON THE EXAMPLE OF THE REPUBLIC OF SAKHA (YAKUTIA) 16:15 – 16:45 Lena SIDOROVA, Dr,Sci., North-Eastern Federal University, Russia NATURAL LANDSCAPE IN THE TRADITIONAL CULTURE OF THE PEOPLES OF YAKUTIA 16:45 – 17:00 – Coffee break 17:00 – 17:30 Brendan ROGERS, PhD, Woodwell Climate Research Center, USA USING CARBON FLUX MEASUREMENTS TO MONITOR AND PROJECT CARBON-CLIMATE FEEDBACKS ACROSS THE ARCTIC-BOREAL ZONE 17:30 – 18:00 Yuri ZHEGUSOV, PhD, Institute for Biological Problems of the Cryolithozone SB RAS, Russia CLIMATE CHANGE SOCIOLOGY AS A NEW DIRECTION OF ENVIRONMENTAL SOCIOLOGY 18:30- 21:30 Ice break</p>
August 16	<p>9:00 Departure to the scientific station "Spasskaya Pad" IBPC SB RAS (30 km north of Yakutsk), accommodation 13:00 - 14:00 Lunch 14:00 – 15:00 Trofim MAXIMOV, Dr,Sci., Institute for Biological Problems of Cryolithozone SB RAS, Russia FOREST STATION 'SPASSKAYA PAD' AS A RESEARCH REGIONAL OUTPOST IN SIBERIA 15:00 – 16:30 PRESENTATIONS OF THE WORK GROUP FOR CARBON POLYGONS AND FARMS 16:30 – 17:15 Roman PETROV, Institute for Biological Problems of Cryolithozone SB RAS, Russia</p>

	<p>STUDY METHODOLOGIES ON CARBON CYCLE COMPONENTS OF ECOSYSTEMS 17:15 – 18:00 Sergey KARSANAEV, Institute for Biological Problems of Cryolithozone SB RAS, Russia</p> <p>INSTRUMENTATION BASE OF SAKHAFLUXNET SCIENTIFIC STATIONS 18:00 – 18:30 Clustering into 4 research groups. Moderators are Petrov R., Grigoryev M., Shepelev A., Zhegusov Y.I.)</p> <p>19:00 – 20:30 Welcome Party 20:30 – 22:30 Ethno-music program</p>
August 17	<p>08:00 – 09:00 Breakfast 09:30 – 11:00 Vitaliy AVILOV, A.N. Severtsov Institute of Ecology and Evolution, Russian Academy of Sciences, Russia</p> <p>PRACTICAL EXPERIENCE IN CREATING AND MAINTAINING OF THE SCIENTIFIC STATIONS FOR GREENHOUSE GAS FLOW MONITORING USING THE TURBULENT PULSATION METHOD 11:00 – 12:30 Group work: photosynthesis, soil respiration, carbon fluxes and scientific diplomacy</p> <p>13:00 - 14:00 Lunch 14:30 – 18:00 Group work: photosynthesis, soil respiration, carbon fluxes and scientific diplomacy</p> <p>19:00 – 20:00 Dinner 20:30 – 22:30 Cultural program (Yakutia Night)</p>
August 18	<p>08:00 – 09:00 Breakfast 09:30 – 11:00 Olga KURICHEVA, PhD, A.N. Severtsov Institute of Ecology and Evolution, Russian Academy of Sciences, Russia</p> <p>QUALITY CONTROL OF METEOROLOGICAL DATA 11:00 – 12:30 Group work: photosynthesis, soil respiration, carbon fluxes and scientific diplomacy</p> <p>13:00 - 14:00 Lunch 14:30 – 18:00 Group work: photosynthesis, soil respiration, carbon fluxes and scientific diplomacy</p> <p>19:00 – 20:00 Dinner 20:30 – 22:30 Cultural program (Moscow Night)</p>
August 19	<p>08:00 – 09:00 Breakfast 09:30 – 11:00 Andrey SHEPELEV, PhD, Institute of Permafrost Science SB RAS, Russia</p> <p>ASSESSMENT OF CARBON POOLS OF PERMAFROST ECOSYSTEMS 11:00 – 12:30 Group work: photosynthesis, soil respiration, carbon fluxes and scientific diplomacy</p> <p>13:00 - 14:00 Lunch 14:30 – 18:00 Group work: photosynthesis, soil respiration, carbon fluxes and scientific diplomacy</p> <p>19:00 – 20:00 Dinner 20:30 – 22:00 Cultural program</p>
August 20	<p>08:00 – 09:00 Breakfast 9:00 – 12:30 Group work: photosynthesis, soil respiration, carbon fluxes and scientific diplomacy. Data processing and report discussion</p> <p>13:00 - 14:00 Lunch 14:30 – 17:00 Group work: photosynthesis, soil respiration, carbon fluxes and scientific diplomacy.</p> <p>17:00 – 18:30 Reports of 4 scientific groups. 19:00 – 20:30 Farewell Party 20:30 – 22:30 Cultural program</p>
August 21	<p>Leaving to Yakutsk. City excursions (Mammoth Museum, Permafrost Kingdom, etc.) 19:00 – 20:00 Farewell party</p>

August 22	Departure of participants
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*The cultural program includes a presentation of various regions of Russia (a brief overview of socio-economic development of the region, cultural and natural attractions, folk songs, dances, local folk games, etc.).