



CITES 2023 school & conference

June 13 - 23

PROGRAM
(section-by-section)

1. Numerical weather prediction and meteorology

Tuesday, June 13, 2023 10:00 - 10:25	Multiscale numerical weather prediction system PLAV: further development and results Mikhail Tolstykh [Marchuk Institute of Numerical Mathematics RAS; Hydrometcentre of Russia]
Tuesday, June 13, 2023 10:25 - 10:45	Postprocessing of numerical forecasts for aviation meteorological support Anna Ivanova [Hydrometcentre of Russia]
Tuesday, June 13, 2023 10:45 - 11:00	The system of short-term numerical weather forecast of the Hydrometeorological Center of Russia based on non-hydrostatic models Gdaliy Rivin [Hydrometcentre of Russia]
Tuesday, June 13, 2023 11:00 - 11:15	About some improvements in the global atmospheric model of the PLAV Rostislav Fadeev [Marchuk Institute of Numerical Mathematics RAS; Hydrometcentre of Russia]
Tuesday, June 13, 2023 11:15 - 11:30	A new approach to accounting for atmospheric model imperfections in ensemble forecasting: additive perturbations scaled using physical trends Elena Astakhova [Hydrometcentre of Russia]
Tuesday, June 13, 2023 12:00 - 12:15	Development of a dynamic kernel for a new-generation atmospheric model on a cubic sphere grid Vladimir Shashkin [Marchuk Institute of Numerical Mathematics RAS]
Tuesday, June 13, 2023 12:15 - 12:30	Assessment of the significance of ocean-atmosphere interaction in the orographic winds of Novaya Zemlya based on simulation results Anna Shestakova [A.M. Obukhov Institute of Atmospheric Physics RAS]
Tuesday, June 13, 2023 12:30 - 12:45	Development of forecasting systems for dangerous meteorological phenomena of different spatial and temporal scales in the territory of Russia Olga Kalmykova [Scientific and Production Association «Typhoon»]
Tuesday, June 13, 2023 12:45 - 13:00	Data assimilation system for the COSMO-Ru prognostic system Denis Blinov [Hydrometcentre of Russia]
Tuesday, June 13, 2023 13:00 - 13:05	Stochastic physics in a new ensemble weather prediction system based on the PLAV20 model Ksenia Alipova [Hydrometcentre of Russia]
Tuesday, June 13, 2023 13:05 - 13:10	Assessment of Urban Aerosol Impact on Radiation and Temperature Characteristics of the Atmosphere in Moscow Based on Numerical Experiments and Measurements Elizaveta Androsova [Hydrometcentre of Russia]

Tuesday, June 13, 2023 13:10 - 13:15	Forecasting of dangerous hydrological phenomena in Krasnoyarsk region Maksim Anikin [Reshetnev Siberian State University of Science and Technology]
Tuesday, June 13, 2023 13:15 - 13:20	Review of the data quality of the GME/ICON predictive model for the initial lead time for the territory of Russia for 2013-2022 Denis Blinov [Hydrometcentre of Russia]
Tuesday, June 13, 2023 13:20 - 13:25	Causes of low water availability of rivers by the example of the Yenisei River Viktoria Butina [Reshetnev Siberian State University of Science and Technology]
Tuesday, June 13, 2023 13:25 - 13:30	Improving the accuracy of short-term numerical weather forecasts of the mesoscale WRF model for the territory of Belarus using remote sensing data Polina Zaiko [Institute of Nature Management NASB]
Tuesday, June 13, 2023 14:30 - 14:35	Assessment of the risk of tornadoes near the Russian Black Sea coast: a two-step forecast strategy Olga Kalmykova [Scientific and Production Association «Typhoon»]
Tuesday, June 13, 2023 14:35 - 14:40	Using the METplus verification package during the author's tests of the COSMO-Ru/icon weather forecast system Aleksander Kirsanov [Hydrometcentre of Russia]
Tuesday, June 13, 2023 14:40 - 14:45	Investigation of the quality of reproduction of the Madden-Julian oscillation in the PLAV model Leonid Kostin [Lomonosov Moscow State University]
Tuesday, June 13, 2023 14:45 - 14:50	Study of the effect of aerodynamic drag parameterization on the prediction of surface wave under the action of a hurricane Aleksandra Kuznetsova [Institute of Applied Physics RAS]
Tuesday, June 13, 2023 14:50 - 14:55	Prediction of polar mesocyclones Sergey Petrichenko [Scientific and Production Association «Typhoon»]
Tuesday, June 13, 2023 15:00 - 15:05	SBP-SAT method of horizontal approximation of the equations of atmospheric dynamics on grids with local resolution enhancement Iliya Tretiyak [National Research University of Electronic Technology; Marchuk Institute of Numerical Mathematics RAS]
Tuesday, June 13, 2023 15:05 - 15:10	Short-term forecast of radiation fluxes near the Earth's surface ICON-Ru model with ecRad block and McICA scheme Yulia Shuvalova [Hydrometcenter of Russia]

Wednesday, June 14, 2023 11:00 - 11:15	Study of the effect of urban parameterization TERRA-URB on the air temperature forecast for cities in the Siberian region Timur Gazimov [Siberian Regional Hydrometeorological Research Institute]
Wednesday, June 14, 2023 11:15 - 11:20	Studying the sensitivity of numerical weather prediction to the assimilation of radar data on the territory Alexander Gochakov [Siberian Regional Hydrometeorological Research Institute]
Wednesday, June 14, 2023 11:20 - 11:25	Extreme thunderstorm activity in the Arctic region Alena Popykina [Institute of Applied Physics RAS]

2. Modeling and analysis of global and regional climate and related atmospheric processes

Tuesday, June 13, 2023 15:15 - 15:30	Study of the role of Arctic shelf seas in the formation of ice and hydrological fields of the Arctic Ocean under the changing climate of the Earth Elena Golubeva [Institute of Computational Mathematics and Mathematical Geophysics SB RAS]
Tuesday, June 13, 2023 15:30 - 15:45	Study of modern climatic changes impact on the hydrological and ice fields state of the Siberian shelf seas. Marina Kraineva [Institute of Computational Mathematics and Mathematical Geophysics SB RAS]
Tuesday, June 13, 2023 16:30 - 16:45	Retrospective forecast of the Earth system for up to 5 years using the INM-CM5 climate model Vasilisa Vorobyeva [Marchuk Institute of Numerical Mathematics RAS; Hydrometcenter of Russia; A.M. Obukhov Institute of Atmospheric Physics RAS]
Tuesday, June 13, 2023 16:45 - 17:00	Changes in Arctic stratospheric dynamics in the 21st century as calculated by the SOCOLv4 chemical-climatic model Sergey Kostykin [Marchuk Institute of Numerical Mathematics RAS]
Tuesday, June 13, 2023 17:00 - 17:15	Trends of Climate Change in the Volga Federal District in the XIX-XXI Centuries and Their Consequences Yuri Perevedentsev [Kazan (Volga Region) Federal University]
Tuesday, June 13, 2023 17:15 - 17:30	Climate oscillatory system, resonances, long-distance asynchronous communications and forecasts of climate fluctuations Boris Sherstyukov [RIHMI-WDC]
Tuesday, June 13, 2023 17:30 - 17:45	Influence of solar activity changes on El Niño-Southern Oscillation and Southern Ring Mode as elements of the Global atmospheric oscillation Ilya Serykh [Shirshov Institute of Oceanology RAS]
Tuesday, June 13, 2023 17:45 - 18:00	Local climate in an Arctic city and its environmental impact Igor Esau [Tyumen State University]
Wednesday, June 14, 2023 10:00 - 10:05	A study of the Pacific Decadal Oscillation Index prediction using the IVM model for a period of 1 to 5 years Mikhail Aleksandrov [Lomonosov Moscow State University]
Wednesday, June 14, 2023 10:05 - 10:10	Analysis of the reproduction of polar mesocyclone trajectories in data from the COSMO-CLM RAh and RAS-NAAD model archives Ramil Akhtamyantov [Hydrometcentre of Russia; Lomonosov Moscow State University]
Wednesday, June 14, 2023 10:10 - 10:15	Description of the interaction between the ocean and sea ice in the SibCIOM numerical model Marina Gradova [Institute of Computational Mathematics and Mathematical Geophysics SB RAS]

Wednesday, June 14, 2023 10:15 - 10:20	Analysis of Trends in Tropopause Characteristics under the Changing Earth Climate Lydia Kozlova [RIHMI-WDC]
Wednesday, June 14, 2023 10:20 - 10:25	Study of two heat waves of different genesis in Moscow in the summer of 2021 (in June and July) using mesoscale modeling by WRF-ARW Anastasia Korzhenevskaya [Lomonosov Moscow State University]
Wednesday, June 14, 2023 10:25 - 10:30	Climatic causes of the reduction of glaciation in Kamchatka Irina Korneva [Institute of Geography RAS]
Wednesday, June 14, 2023 10:30 - 10:35	Peculiarities of bioclimatic comfort of the northern territories of the SFD under conditions of climate change Aleksey Kotov [Reshetnev Siberian State University of Science and Technology]
Wednesday, June 14, 2023 10:35 - 10:40	Study of interannual variability of carbon dioxide in the Arctic region Marina Loskutova [Arctic and Antarctic Research Institute]
Wednesday, June 14, 2023 10:40 - 10:45	Natural and climatic risks of agriculture in Krasnoyarsk Krai Anna Ovchinnikova [Reshetnev Siberian State University of Science and Technology]
Wednesday, June 14, 2023 10:45 - 10:50	Reconstructing the vertical structure of NO ₂ distribution in the lower troposphere from multi-angle spectral measurements of scattered solar radiation (MAX DOAS) Oleg Postylakov [A.M. Obukhov Institute of Atmospheric Physics RAS]
Wednesday, June 14, 2023 10:50 - 10:55	Dynamics of non-Gaussian Anomalies of Climatic Values in the Northern Hemisphere at the end of the XXth - beginning of the XXst centuries Elena Kharyutkina [Institute of Monitoring of Climatic and Ecological Systems SB RAS]

3. Land surface processes: models, observations and data assimilation

Wednesday, June 14, 2023 11:50 - 12:20	Approaches to parametrization of mountain glaciation in the Earth System Models Pavel Toropov [Institute of Geography RAS]
Wednesday, June 14, 2023 12:35 - 12:50	Meteorological measurements in the high altitude zone of Mount Elbrus during the accumulation period Evgeny Drozdov [Institute of Geography RAS]
Wednesday, June 14, 2023 12:50 - 13:05	Numerical scheme for groundwater level in the land surface model Vasiliy Bogomolov [Institute of Monitoring of Climate and Ecological Systems SB RAS]
Wednesday, June 14, 2023 13:05 - 13:20	Sensitivity of the atmospheric circulation model of PLAV to the granulometric composition of soil Svetlana Travova [Hydrometcenter of Russia]
Wednesday, June 14, 2023 14:30 - 14:45	Temporal variability of carbon dioxide and methane fluxes in the hummock-hollow complex of Mukhrino bog Egor Dyukarev [Institute of Monitoring of Climate and Ecological Systems SB RAS]
Wednesday, June 14, 2023 14:45 - 15:00	Application of a three-dimensional hydrodynamic model to simulate carbon dioxide and methane fluxes over a heterogeneous forest surface Ravil Gibadullin [Lomonosov Moscow State University]
Wednesday, June 14, 2023 15:00 - 15:15	Microplastics in Lake Baikal: Hypothetical Scenarios Elena Tsvetova [Institute of Computational Mathematics and Mathematical Geophysics SB RAS]
Wednesday, June 14, 2023 15:15 - 15:30	Influence of meteorological data on the quality of lake thermal regime modeling Maria Tereshina [Lomonosov Moscow State University]
Wednesday, June 14, 2023 15:30 - 15:45	Calibration of the one-dimensional thermohydrodynamic model LAKE3.0 to estimate methane emissions from artificial reservoirs Victor Lomov [Research Computing Center, Lomonosov Moscow State University]
Wednesday, June 14, 2023 15:45 - 15:50	Sensitivity of the INM RAS-MSU terrestrial model to soil and vegetation parameters exemplified by regions in the south of Western Siberia Anna Ryazanova [Institute of Monitoring of Climate and Ecological Systems SB RAS]
Wednesday, June 14, 2023 15:50 - 15:55	Heat and moisture transfer dynamics in soil based on the INM RAS land surface scheme Andrey Loginov [Institute of Monitoring of Climate and Ecological Systems SB RAS]

Wednesday,
June 14, 2023
15:55 - 16:00

Ground temperature monitoring at Anzob Pass (Tajikistan)
Denis Frolov [Lomonosov Moscow State University]

Wednesday,
June 14, 2023
16:00 - 16:05

Monitoring of ground temperature in a deep borehole at the MSU MO
site
Denis Frolov [Lomonosov Moscow State University]

4. Structure and dynamics of geophysical boundary layers

Wednesday, June 14, 2023 16:30 - 16:50	Determination of convective vortex parameters in the atmospheric boundary layer from joint seismic and meteorological measurements Mikhail Kurgansky [Obukhov Institute of Atmospheric Physics RAS]
Wednesday, June 14, 2023 16:50 - 17:00	On the spirality of Ekman-type boundary layers Lev Ingel [Scientific and Production Association «Typhoon»]
Wednesday, June 14, 2023 17:00 - 17:15	Structure of turbulence in the drive/ground layer of the atmosphere in coastal zones Irina Repina [Obukhov Institute of Atmospheric Physics RAS]
Wednesday, June 14, 2023 17:15 - 17:30	Influence of ice drifts and snow on the thermal regime over sea ice in the Arctic Dmitry Chechin [Obukhov Institute of Atmospheric Physics RAS]
Wednesday, June 14, 2023 17:30 - 17:45	Storms and dust storms over European Russia: Diagnostics and modeling Natalia Vazaeva [Obukhov Institute of Atmospheric Physics RAS]
Wednesday, June 14, 2023 17:45 - 18:00	Peculiarities of the vertical distribution of dust aerosol in weak and moderate winds over arid territories Elena Malinovskaya [Obukhov Institute of Atmospheric Physics RAS]
Wednesday, June 14, 2023 18:00 - 18:15	Numerical realisation of adaptive grids in large-eddy simulation models of the atmospheric boundary layer Ekaterina Tkachenko [Research Computing Center, Lomonosov Moscow State University]
Wednesday, June 14, 2023 18:15 - 18:30	Optimization of turbulent mixing parameterizations in the INMCM6 model Andrey Debolskii [Research Computing Center, Lomonosov Moscow State University]
Wednesday, June 14, 2023 18:30 - 18:45	Three-dimensional numerical simulation of thermohydrodynamics and biogeochemistry of land bodies Daria Gladskikh [Institute of Applied Physics RAS]
Wednesday, June 14, 2023 18:45 - 19:00	Estimation of aerodynamic roughness parameterizations for snow surface in a LES model. Victoria Bychkova [RCC MSU]
Friday, June 16, 2023 10:00 - 10:15	Canopy layer urban heat island measuring, modelling and monitoring: new WMO guidance and lessons Alexander Baklanov [World Meteorological Organization]

Friday, June 16, 2023 10:15 - 10:30	Approximation of the temporal dynamics of an urban heat island by machine learning methods Mikhail Varentsov [Research Computing Center, Lomonosov Moscow State University; Hydrometcentre of Russia]
Friday, June 16, 2023 10:30 - 10:45	Comparison of the effects of green and white roofs on urban heat island using 3 heat waves in Moscow Alen Kospanov [Lomonosov Moscow State University; Hydrometcentre of Russia]
Friday, June 16, 2023 10:45 - 11:00	Statistical analysis of atmospheric turbulence in urban areas Ilya Drozd [Obukhov Institute of Atmospheric Physics RAS]
Friday, June 16, 2023 11:00 - 11:05	Implementation of urban parameterization TEB in the COSMO regional atmospheric model: first results Maria Tarasova [Lomonosov Moscow State University]
Friday, June 16, 2023 11:05 - 11:10	Vertical distribution of PM2.5 and PM10 in the foothill urban area from UAV measurements and modeling Alexey Polyukhov [Lomonosov Moscow State University; Hydrometcentre of Russia]
Friday, June 16, 2023 11:10 - 11:15	Aerosol transport in the urban boundary layer under different stratification properties and urban environment Alexander Varentsov [Research Computing Center, Lomonosov Moscow State University]
Friday, June 16, 2023 11:15 - 11:20	Analysis of Kara Sea surface temperature based on satellite data and data from the «Floating University-2021» expedition Ekaterina Marchuk [Obukhov Institute of Atmospheric Physics RAS]

5. Computation and Information technologies for the Earth sciences

Friday, June 16, 2023 11:45 - 12:15	FAIR principles for datasets and TRUST requirements for data repositories Evgenii Viazilov [RIHMI-WDC]
Friday, June 16, 2023 12:15 - 12:45	Climatic trends in surface temperature on the territory of the Russian Federation, estimated using quantile regression Alexander Sterin [RIHMI-WDC]
Friday, June 16, 2023 13:15 - 13:30	Inverse modeling algorithms for building digital twins of atmospheric transport and transformation of impurities Alexey Penenko [Institute of Computational Mathematics and Mathematical Geophysics SB RAS]
Friday, June 16, 2023 14:30 - 14:45	Correction of numerical ground-level ozone forecasts by neural network methods Danil Borisov [Hydrometcenter of Russia]
Friday, June 16, 2023 14:45 - 15:00	Comparison of the results of clustering the quantile trends of surface temperature on the territory of the Russian Federation with the quasi-uniform climatic regions of Russia Alexander Lavrov [RIHMI-WDC]
Friday, June 16, 2023 15:00 - 15:15	Evaluation of the quality of atmospheric pollution modeling in Kazakhstan by SILAM model depending on large-scale synoptic processes Anatoly Glebov [Lomonosov Moscow State University]
Friday, June 16, 2023 15:15 - 15:30	Information system for monitoring the radio-climate of the Baikal natural area Aryun Bazarova [Institute of Physical Materials Science SB RAS]
Friday, June 16, 2023 15:30 - 15:45	RANGES system for assessing climatic ranges of species Anton Bogdanovich [Institute of Global Climate and Ecology]
Friday, June 16, 2023 15:45 - 16:00	NETCID-database on thermal comfort conditions for Northern Eurasia: current status and prospects Pavel Konstantinov [Lomonosov Moscow State University]
Friday, June 16, 2023 16:45 - 16:50	Field tests of the multielement pyranometer Sergey Zuev [Institute of Monitoring of Climate and Ecological Systems SB RAS]
Friday, June 16, 2023 16:55 - 17:00	Assessment of outdoor events in Moscow using CTIS Varvara Maratkanova [Lomonosov Moscow State University]

Friday,
June 16, 2023
17:00 - 17:05

General architecture of a prototype distributed information system for monitoring and integrated analysis of greenhouse gas fluxes of marsh ecosystems

Alexander Titov [Institute of Monitoring of Climate and Ecological Systems SB RAS]

Friday,
June 16, 2023
17:05 - 17:10

Assessment of hourly spatial temperature distribution by geostationary ISPRS data in the Moscow metropolitan area

Andrey Shishov [Hydrometcentre of Russia]

6. 24th Session of the North Eurasian Climate Forum

Wednesday, June 14, 2023 10:00 - 10:10	Welcoming speech Roman Wilfand [Hydrometcentre of Russia]
Wednesday, June 14, 2023 10:10 - 10:20	Status and activities of ISCO to provide data to the regional climate center and national hydrometeorological services Valentina Khan [Hydrometcentre of Russia]
Wednesday, June 14, 2023 10:20 - 10:35	Main features of atmospheric circulation for the winter season 2022-2023. Ksenia Sumerova [Hydrometcenter of Russia]
Wednesday, June 14, 2023 10:35 - 10:50	Forecast of sea ice parameters of the INM-CM5 climate model in the Arctic for the summer season Vasilisa Vorobyeva [Marchuk Institute of Numerical Mathematics RAS; Hydrometcenter of Russia; A.M. Obukhov Institute of Atmospheric Physics RAS]
Wednesday, June 14, 2023 10:50 - 11:05	Initialization of the ocean by full fields in retrospective seasonal predictions of the INM RAS climate model Maria Tarasevich [Marchuk Institute of Numerical Mathematics RAS]
Wednesday, June 14, 2023 11:05 - 11:15	Evaluation of the quality of subseasonal surface temperature forecasts by the old and new versions of the PLAV model Ekaterina Kruglova [Hydrometcenter of Russia]
Wednesday, June 14, 2023 11:15 - 11:30	Assessing the Practical Predictability of the Madden-Julian Oscillation Elena Nabokova [Hydrometcenter of Russia]
Wednesday, June 14, 2023 11:30 - 11:45	Bulletin of seasonal meteorological forecasts for summer 2023 Ekaterina Kaverina [Hydrometcenter of Russia]
Wednesday, June 14, 2023 12:15 - 12:45	Messages from the CIS NHMS
Wednesday, June 14, 2023 12:45 - 13:00	Consensus forecast for summer 2023 and discussion Vladimir Tishenko [Hydrometcenter of Russia]
Wednesday, June 14, 2023 13:00 - 13:10	Possible effects of expected temperature and precipitation anomalies on the economy and social life Svetlana Emelina [Hydrometcenter of Russia]

Wednesday, Discussion
June 14, 2023
13:10 - 13:25

7. Workshop on the development of a national climate model

Thursday, June 15, 2023 10:00 - 10:15	Reproduction of climate changes in 1850-2023 by the INMCM6 version of the climate model Evgeny Volodin [Marchuk Institute of Numerical Mathematics RAS]
Thursday, June 15, 2023 10:15 - 10:30	Estimates of experimental long-term meteorological forecasts produced at the Hydrometeorological Center of Russia based on the INM-CM model Valentina Khan [Hydrometcentre of Russia]
Thursday, June 15, 2023 10:30 - 10:45	Modernization of the ocean model as part of a joint climate model Dmitriy Blagodatskikh [Marchuk Institute of Numerical Mathematics RAS]
Thursday, June 15, 2023 10:45 - 11:00	Parameterization of vortex transport in the ocean based on the results of mesoscale vortex field modeling Gennady Platov [Institute of Computational Mathematics and Mathematical Geophysics SB RAS]
Thursday, June 15, 2023 11:00 - 11:15	A new finite element model of sea ice dynamics on triangular A and CD meshes in Local-Decartes basis Sergey Petrov [Marchuk Institute of Numerical Mathematics RAS]
Thursday, June 15, 2023 11:15 - 11:30	Modeling the state of the Arctic shelf methane hydrate stability zone, taking into account the formation of permafrost Valentina Malakhova [Institute of Computational Mathematics and Mathematical Geophysics SB RAS]
Thursday, June 15, 2023 11:30 - 11:45	Numerical modeling of the relative contributions of chemical and physical processes to climate change and atmospheric gas composition Sergey Smyshlyaev [Russian State Hydrometeorological University]
Thursday, June 15, 2023 11:45 - 12:00	Global atmospheric electrical circuit modeling: results, perspectives, integration into the national climate model Nikolay Ilyin [Institute of Applied Physics RAS]
Thursday, June 15, 2023 12:30 - 12:45	The system for the preparation of data on land surface parameters for the Earth System Model of the INM RAS Viktor Stepanenko [Research Computing Center, Lomonosov Moscow State University]
Thursday, June 15, 2023 12:45 - 13:00	Parameterization of atmospheric conductivity perturbation during a sprite Andrey Evtushenko [Institute of Applied Physics RAS]
Thursday, June 15, 2023 13:00 - 13:15	Snow cover model in the INM RAS climate model Aleksey Chernenkov [Marchuk Institute of Numerical Mathematics RAS]

Thursday, June 15, 2023 13:15 - 13:30	Comparative analysis of different parameterizations of the peat accumulation process in climate system models Georgiy Aleksandrov [Obukhov Institute of Atmospheric Physics RAS]
Thursday, June 15, 2023 14:30 - 14:45	The system of joint simulation of the Earth System Climate Model of the INM RAS Vladimir Onoprienko [Marchuk Institute of Numerical Mathematics RAS]
Thursday, June 15, 2023 14:45 - 15:00	Stochastic parametrization of convection for a high-resolution model of the climate system: shallow convection Vladimir Krupchatnikov [Institute of Computational Mathematics and Mathematical Geophysics SB RAS]
Thursday, June 15, 2023 15:00 - 15:15	Optimization of data exchange on heterogeneous computing systems for Earth system models Elizaveta Gaschuk [Lomonosov Moscow State University]
Thursday, June 15, 2023 15:15 - 15:30	Organization of joint development of the Earth system model of the INM RAS Maria Tarasevich [Marchuk Institute of Numerical Mathematics RAS]
Thursday, June 15, 2023 15:30 - 15:35	New parametrization of land use in the INM RAS climate model Alexey Chernenkov [Marchuk Institute of Numerical Mathematics RAS]
Thursday, June 15, 2023 15:35 - 15:40	Development of the surface layer block for the INM RAS climate model Viktoria Bychkova [Research Computing Center, Lomonosov Moscow State University]
Thursday, June 15, 2023 15:40 - 15:45	Block of sea ice dynamics in a prospective model of the World Ocean: transfer of characteristics Alisa Ezhkova [Marchuk Institute of Numerical Mathematics RAS]
Thursday, June 15, 2023 15:45 - 15:50	Evaluation of parallel scalability and computational efficiency of a promising version of the INM RAS climate model Maria Tarasevich [Marchuk Institute of Numerical Mathematics RAS]
Thursday, June 15, 2023 16:20 - 16:35	Atmospheric circulation regimes in the Euro-Atlantic sector in the CMIP6 and ERA5 reanalysis models Boris Babanov [Obukhov Institute of Atmospheric Physics RAS]
Thursday, June 15, 2023 16:35 - 16:50	Reproduction of intra-seasonal tropical variability in the INM RAS model Daria Guschina [Lomonosov Moscow State University]

Thursday, June 15, 2023 16:50 - 17:05	Potential predictability of climate system dynamics on time scales of 1 - 10 years in the tropical Pacific according to CMIP6 climate models Andrey Gritsun [Marchuk Institute of Numerical Mathematics RAS]
Thursday, June 15, 2023 17:05 - 17:20	Modeling the interannual variability of the El Niño-Southern Oscillation phenomenon Aleksey Seleznev [Institute of Applied Physics RAS]
Thursday, June 15, 2023 17:20 - 17:25	Evaluation of the phase and amplitude reproduction of the Madden-Julian Oscillation in the INM-CM5-0 and INM-CM6-L models and other CMIP6 project models. Irina Zheleznova [Lomonosov Moscow State University]
Thursday, June 15, 2023 17:25 - 17:30	Reproduction of the water regime of the northern rivers of Russia in the INM RAS - MSU model of the active layer of the land Alexander Medvedev [Research Computing Center, Lomonosov Moscow State University]
Thursday, June 15, 2023 17:30 - 17:35	Comparison of the reproduction of polar and temperate tropospheric circulation response to two types of El Niño in the INM-CM5-0 model with other CMIP6 models Anna Gvozdeva [Lomonosov Moscow State University]
Thursday, June 15, 2023 17:35 - 17:40	Identification of global climate patterns from the RAS INM model Maria Buyanova [Institute of Applied Physics RAS]
Thursday, June 15, 2023 17:40 - 17:45	Estimating the uncertainty of turbulent heat fluxes in the Barents Sea from CMIP6 model ensemble data Viktor Romanenko [Research Computing Center, Lomonosov Moscow State University; Obukhov Institute of Atmospheric Physics RAS]
Thursday, June 15, 2023 17:45 - 17:50	Investigation of the influence of ocean surface temperature on atmospheric chemistry using the INM RAS - RSHU climate model Andrey Yakovlev [Russian State Hydrometeorological University]

8. Future Earth Program and Northern Eurasia Future Initiative

Thursday, June 15, 2023 13:00 - 13:15	Northern Eurasia Future Initiative (NEFI), Present Status and Perspectives Pavel Groisman [Hydrology Science and Services Corp & North Carolina Institute for Climate Studies, Asheville, USA]
Thursday, June 15, 2023 13:15 - 13:45	Assessment of the potential impact of climate change in Uzbekistan using the RCP and SSP scenarios Dmitry Belikov [Chiba University]
Thursday, June 15, 2023 13:45 - 14:15	Satellite monitoring of methane emissions to the atmosphere Shamil Maksyutov [National Institute for Environmental Studies]
Thursday, June 15, 2023 14:15 - 14:45	Extreme Low Flow during the Long-lasting River Runoff Phases in the Central Part of the East-European Plain Aleksandr Georgiadi [Institute of Geography, RAS]
Thursday, June 15, 2023 14:45 - 14:50	Cloud-radiation characteristics of the atmosphere in the Arctic according to expeditionary and satellite observations Alexandra Narizhnaya [Obukhov Institute of Atmospheric Physics RAS]

9. YOUNG SCIENTISTS SCHOOL

Monday, June 19, 2023 10:00 - 11:00	lecture «Atmospheric general circulation models in the tasks of diagnostics and predictability of weather-climatic anomalies» Vladimir Semyonov [Academician, Obukhov Institute of Atmospheric Physics RAS]
Monday, June 19, 2023 11:20 - 12:20	lecture «Multiscale atmospheric models and their applications» Mikhail Tolstykh [Marchuk Institute of Numerical Mathematics RAS; Hydrometcentre of Russia]
Monday, June 19, 2023 12:40 - 13:10	lecture «Introduction to practical exercises: numerical modeling of direct and inverse relations in the atmosphere - active layer system» Rostislav Fadeev [Marchuk Institute of Numerical Mathematics RAS; Hydrometcentre of Russia], Viktor Stepanenko [Research Computing Center, Lomonosov Moscow State University]
Monday, June 19, 2023 13:10 - 13:40	[workshop] Preparation for practical exercises: technical aspects, forming teams, getting to know each other
Monday, June 19, 2023 15:00 - 19:00	Practical exercises
Tuesday, June 20, 2023 10:00 - 11:00	lecture «Numerical modeling of heat and moisture exchange and carbon cycle in the active layer of land» Viktor Stepanenko [Research Computing Center, Lomonosov Moscow State University]
Tuesday, June 20, 2023 11:20 - 12:20	lecture «Integration of high-resolution models and data for environmental control in the smart city» Igor Esau [Tyumen State University]
Tuesday, June 20, 2023 12:40 - 13:40	Profile lectures on the topics of practical classes Evgeny Mortikov [Research Computing Center, Lomonosov Moscow State University], Svetlana Travova [Hydrometcenter of Russia], Vasiliy Bogomolov [Institute of Monitoring of Climate and Ecological Systems SB RAS]
Tuesday, June 20, 2023 15:00 - 19:00	Practical exercises
Wednesday, June 21, 2023 10:00 - 11:00	lecture «Monin-Obukhov similarity theory: history, application, development» Irina Repina [Obukhov Institute of Atmospheric Physics RAS]
Wednesday, June 21, 2023 11:20 - 12:20	lecture «Integrated modeling of interrelated changes in weather, climate, and air quality for sustainable development of arctic and northern cities and regions under conditions of global climate change» Alexander Baklanov [World Meteorological Organization]

Wednesday, June 21, 2023 12:40 - 13:40	[Round table] Discussion of current results obtained in the practical assignments
Wednesday, June 21, 2023 15:00 - 19:00	Practical exercises
Thursday, June 22, 2023 10:00 - 11:00	lecture «Development of early warning systems for weather and climate risks on time scales from sub-hourly to seasonal» Dmitry Kiktev [Hydrometcentre of Russia]
Thursday, June 22, 2023 11:20 - 12:20	lecture «Ocean models on unstructured grids, basic discretizations, and major problems» Sergey Danilov [Alfred Wegener Institute]
Thursday, June 22, 2023 12:40 - 13:40	[Round table] Discussion of current results obtained in the practical assignments
Thursday, June 22, 2023 15:00 - 19:00	Practical exercises
Friday, June 23, 2023 10:00 - 13:40	[workshop] Completion of practical assignments, preparation of presentations
Friday, June 23, 2023 15:00 - 18:00	[Round table] Presentations of teams on the results of practical tasks, awarding the winners