



Russian-China workshop:
17th Conference of Atmospheric Physics, Climate and Environment
Sochi, Sirius Conference Center (36/1 Olimpiyskiy Prospekt St.)

September 14, 2025

09:00-15:00

Sirius Conference Center

Registration

10:00 – 12:00 | Opening of the International Scientific and Practical Conference on Ecology and Climate Change (ICECC) and the International Olympiad on Climate Change and Ecology (IOCE)

September 15, 2025

Educational center "Sirius" (36/1 Olimpiyskiy Prospekt St.)

10:00-10:10 Welcome. V.A. Semenov, Prof. Tianjun Zhou

Convener: *Chernokulsky A.V.*

10:10-10:30 *Semenov V.A., Aldonina T.A.* Arctic sea ice changes: anthropogenic versus natural variations

10:30-10:50 *Zhou T., Zhang W.* Anthropogenic amplification of precipitation variability over the past century

10:50-11:10 *Chernokulsky A.V.* Climate risks in Russian regions

11:10-11:30 *Repina I.A., L. Zhou, Chechin D.G.* The influence of the underlying surface structure in the Arctic on exchange processes in the atmospheric surface layer

11:30-12:00 *coffee break*

12:00-12:20 *Zhou L., Zhu J., Ma Sh., Li F., Li P., Zhang Z.* Extreme wind over the Arctic passage and its possible influential factors

12:20-12:40 *Varentsov M.I., Repina I.A., Tarasova M.A., Artamonov A.Yu., Drozd I.D., Stepanenko V.M., Telminov A.E., Kobzev A.A., Zhou L.* Flux tower measurements in Russian and Chinese cities in the context of urban parameterization for weather and climate models

12:40-13:00 *Zhang M.* Analyzing trends and causes of double-high pollution of PM_{2.5} and ozone in China from 2015–2023

13:00-13:20 *Akperov M.G.* The contribution of extratropical cyclones to precipitation formation in the Russian Federation

13:20-13:40 *Han Z., Liang L., Chen W., Li J., Liang M., Shen S.* The source, transport, deposition and direct radiative effect of mineral dust over western China in summer 2022

13:40-15:00 *Lunch*

Convener: *Repina I.A.*

15:00-15:15 *Malinovskaya E.A., Chkhetiani O.G.* Aeroelectric structures in the dust aerosol emission

15:15-15:30 *Nakhaev M.I.* Modeling of atmospheric air pollution in a mountain area near Kislovodsk using the Chimere chemical transport model

15:30-15:45 *Marchuk E., Chechin D., Repina I., Artamonov A.* Study of mesoscale atmospheric circulation in marine cold-air outbreaks in the Arctic using observations from the v/s “Akademik Nikolay Strakhov” 2021

- 15:45-16:00 *Zakirov M.N., Kulichkov S. N., Chulichkov A.I., Chunchuzov I.P., Popov O.E., Bush G.A., Tsybulskaya N.D., Golikova E.V. A technique for simulating the propagation of acoustic waves and detecting infrasound.*
- 16:00-16:15 *Shtabkin Yu.A., Moiseenko K.B., Vasileva A.V., Belikov I.B., Belousov V.A., Kravchishina M.D., Pestunov D.A. Methane in the western part of Eurasian Arctic in late autumn 2023: AMK-93 observations and model simulation*

September 16, 2025

Sirius Conference Center (36/1 Olimpiyskiy Prospekt St.), small hall

Convener: Akperov M.G.

- 09:30-09:50 *Gao X., Tang X., Han Zh. Climate Change Projections over High Latitudes Northern Asia Using a Regional Climate Model*
- 09:50-10:05 *Babanov B.A., Semenov B.A. Weather regimes in Northern Eurasia: statistics, predictability and associated weather anomalies*
- 10:05-10:20 *Romanenko V.A., Semenov V.A. Strong negative summer sea ice area anomalies in the Arctic in observations and CMIP6 models during the modern period*
- 10:20-10:35 *Morgunova A.A., Semenov V.A. Factors contributing to extreme surface temperatures over the European part of Russia during the 2010 heatwave*
- 10:35-10:50 *Narizhnaya A.I., Latonin M.M., Timazhev A., Chernokulsky A.V. Cloud-radiative effect in the Arctic: a comparison of CMIP6 models and CERES satellite data*

Discussion