

The 16th International Conference on Atmospheric Physics, Climate and Environment

23-26, September, 2024, Dunhuang, Gansu Province, China

Conference Program

Wednesday 25, September, 2024		Feitian Meeting Room(飞天厅)
08:30		Registration
	Paper Number	Opening Ceremony Chair: Dr. Meigen Zhang, IAP, CAS
09:00		Welcome remarks by Prof. Tianjun Zhou, Deputy Director, IAP, CAS
09:05		Welcome remarks by Prof. Vladimir Semenov, Director, IAP, RAS
		Session I Chair: Prof. Hongbin Chen, IAP, CAS
09:10	OS-001	Historical Arctic sea ice variations: uncertainties and reconstructions Prof. Vladimir Semenov, IAP, RAS
09:30	OS-002	The Observed Near-surface Energy Exchange Processes over Arctic Glacier in summer Prof. Libo Zhou, IAP, CAS
09:50	OS-003	The role of Arctic sea ice loss in the interdecadal trends of the East Asian summer monsoon in a warming climate Prof. Bian He, IAP,CAS
10:10	Photo Session & Tea break	
		Session II Chair : Prof. Vladimir Semenov, IAP, RAS
10:30	OS-004	Baroclinic instability in geophysical hydrodynamics problems Dr. Otto Chkhetiani, IAP, RAS
10:50	OS-005	Decade-Long 1-km Surface Solar Radiation Data from the Fenyun-2 Geostationary Satellite - Method and Product Prof. Xiang'ao Xia, IAP, CAS

11:10	OS-006	Structure and dynamics of the atmospheric boundary layer in conditions of heterogeneous peatland topography Dr. Irina Repina, IAP, RAS
11:30	OS-007	The Characteristic of Multi-scale Flow Structure and its Parameterization on Air-Sea Flux in the Atmospheric Boundary Layer Prof. Xueling Cheng, IAP, CAS
11:50	OS-008	Hysteresis of the global carbon cycle to anthropogenic CO₂ emissions into the atmosphere Prof. Aleksey Eliseev, IAP, RAS
12:10	OS-009	Time series prediction combined with slow feature analysis Prof. Geli Wang, IAP, CAS
12:30	Lunch	
		Session III Chair : Prof. Libo Zhou, IAP, CAS
13:30	OS-010	Marine Weather Observer (MWO) : a mobile long-endurance ocean weather observation system Prof. Hongbin Chen, IAP, CAS
13:50	OS-011	Vertical helicity flux as an index of the intensity of atmospheric motions Prof. Michael Kurgansky, IAP, RAS
14:10	OS-012	Can soil effectively sequester carbon for climate change mitigation? Dr. Guocheng Wang, Beijing Normal University
14:30	OS-013	Trajectory based simulation of collision-induced spectra Prof. Andrey Vigasin, IAP, RAS
14:50	OS-014	The Validation of Chinese CO₂-measuring sensors and European TROPOMI/Sentinel-5 Precursor using FTIR and MAX-DOAS data at Xianghe (VCEX) Prof. Pucai Wang, IAP, CAS
15:10	OS-015	Extratropical cyclones and their impact on ocean waves in the Northern Hemisphere Dr. Mirseid Akperov, IAP, RAS

15:30	OS-016	Lidar studies of the middle atmosphere in the polar region Prof. Weilin Pan, IAP, CAS
15:50	Tea Break	
		Session IV Chair: Dr. Irina Repina, IAP, RAS
16:10	OS-017	Emission ratios of trace gases and ozone production in Siberian forest fire plumes Dr. Anastasiia Vasileva, IAP, RAS
16:30	OS-018	Size-resolved microphysical and optical properties of atmospheric aerosols in an urban area of the northern Tibetan Plateau Prof. Yunfei Wu, IAP, CAS
16:50	OS-019	Lightning leader propagation and its effects Dr. Shanfeng Yuan, IAP ,CAS
17:10	OS-020	Convective and electrostatic components of dust aerosol emission Dr. Elena Malinovskaia, IAP ,RAS
17:30	OS-021	Turbulent flux transfer over the Dunhuang Gobi surface Dr. Degang Zhou
17:50	OS-022	Characteristics of the inertia gravity waves and turbulence parameters in the troposphere and lower stratosphere revealed by the MST radar observations Dr. Yufang Tian, IAP ,CAS
18 :10	OS-023	AI assists the development of meteorological observation equipment Zhaorui Li, ZOGLAB Microsystem Co., Ltd.
19:00	Reception	
Thursday 26, September, 2024		Feitian Meeting Room(飞天厅)
		Session V Chair: Dr. Pucai WANG, IAP, CAS
09:00	OS-024	Nighttime Aerosol Optical Thickness Remote Sensing from Starlight Observations Prof. Minzheng Duan, IAP, CAS
09 :20	OS-025	Correction of satellite datasets to improve the orbital and

		<p>ground-based data compliance parameters and to clarify the atmospheric composition trend estimates</p> <p>Dr. Vadim Rakitin, IAP, RAS</p>
09 :40	OS-026	<p>How can finer resolution of General Circulation Model improve the precipitation simulation in China?</p> <p>Dr. Xiaolong Chen, IAP, CAS</p>
10 :00	OS-027	<p>Spatiotemporal evolution of the Arctic sea ice in the 21st century according to observations and CMIP6 models</p> <p>PhD St. Viktor Romanenko, IAP, RAS</p>
10:20	Tea Break	
		<p>Session V</p> <p>Chair: Dr. Otto Chkhetiani, IAP, RAS</p>
10 :40	OS-028	<p>The Impacts of Air Quality on Photovoltaic Power Generation under Different Carbon Neutrality Pathways in China</p> <p>Dr. Hongrong Shi, IAP, CAS</p>
11 :00	OS-029	<p>Electric field-meteorological integrated sounding and the charge structure of thunderstorms in North China</p> <p>Dr. Hongbo Zhang, IAP, CAS</p>
11 :20	OS-030	<p>The decomposition of complex acoustic atmospheric signals into specific shapes</p> <p>PhD St. Marat Zakirov, IAP, RAS</p>
11 :40	OS-031	<p>The Potential Impact of Blue Jet Discharge on Stratospheric Chemistry Using a Detailed Plasma-Chemistry Model</p> <p>Dr. Chen Xu, IAP, CAS</p>
12 :00	OS-032	<p>Stratospheric aerosol variability over Tibetan Plateau</p> <p>Dr. Qie Kai, IAP ,CAS</p>
12 :20	Closing	
12 :30	Lunch	