

PROGRAM

September 9 (Monday)

12:30-13:30

Lunch

September 5 (Worlday)	
08:00-09:00	REGISTRATION
09:00-10:30	Session 1-1 Convener: Sergey ANFINOGENTOV
09:00-10:00	OPENING
10:00-10:30	China-Russia Joint Research Center on Space Weather: 24 years of cooperation (plenary) Andrey MEDVEDEV, ISTP SB RAS, Irkutsk, Russia
10:30-11:00	Coffee-break
11:00-12:30	Session 1-2 Convener: Alexey KUZNETSOV
11:00-11:20	Introduction of International Meridian Circle Program and the Progress of Its Typical Demonstrations in Brazil (invited) Hui LI, NSSC CAS, Beijing, China
11:20-11:40	National Heliogeophysical Complex of RAS: Large Solar Telescope Opportunities for Solving Fundamental Problems of Solar Physics (invited) Dmitry KOLOBOV, ISTP SB RAS, Irkutsk, Russia
Section "Geoeffective processes on the Sun and in interplanetary space"	
11:40-11:55	On the Origin of the Open Magnetic Flux Problem in Heliosphere Mikhail DEMIDOV, ISTP SB RAS, Irkutsk, Russia
11:55-12:10	Forerunners and Effects of Powerful Solar Flares in Active Region 12673 in September, 2017 Alexey GOLOVKO, ISTP SB RAS, Irkutsk, Russia
12:10-12:25	Features of a Solar Flare Excess in May-June 2024 Sergey YAZEV, ISTP SB RAS, Irkutsk, Russia
10.00.10.00	

13:30-15:30	Session 1-3 Convener: Qinghe ZHANG
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13:30-13:50	Introduction to China's Space Environment Ground-Based Monitoring
	Network - Chinese Meridian Project (CMP) (invited)
	Convener: Qinghe ZHANG Introduction to China's Space Environment Ground-Based Monitoring Network - Chinese Meridian Project (CMP) (invited) Jiyao XU, NSSC CAS, Beijing, China
13:50-14:10	Energy Release and Particle Acceleration in the 25th Cycle Solar Flares: Joint Observations with New Russian and Chinese Instruments (invited) Alexey KUZNETSOV, ISTP SB RAS, Irkutsk, Russia

Section "Geoeffective processes on the Sun and in interplanetary space	."

14:10-14:25	Study of the Microwave Source Positioning as a Possible Prediction Pattern of Major Solar Flares Ivan MYSHYAKOV, ISTP SB RAS, Irkutsk, Russia
14:25-14:40	Multi-wavelength Analysis of Unusually Short Microwave Burst Preceding a Solar Flare Sergey ANFINOGENTOV, ISTP SB RAS, Irkutsk, Russia
14:40-14:55	Study on the Multipeak Flare with High Turnover-Frequency Microwave Spectra with SRH Data Zhao WU, Shandong University, Weihai, China
14:55-15:10	Spatial and Spectral Evolution of Microwave and X-Ray Sources during the Solar Limb Flare on February 5, 2023 Julia SHAMSUTDINOVA, ISTP SB RAS, Irkutsk, Russia
15:10-15:25	Neutral Line Associated Sources in Sympathetic Flare on 23 March, 2024 Anastasiia KUDRIAVTSEVA, ISTP SB RAS, Irkutsk, Russia
15:30-16:00	Coffee-break
16:00-18:00	Session 1-4 Convener: Mikhail DEMIDOV

Section "Geoeffective processes on the Sun and in interplanetary space"

16:00-16:15 Manifestations of Accelerated Electrons and Protons in the 20 January 2022 Major Solar Flare Observed with Fermi and the Siberian Radioheliograph

Alexey KOCHANOV, ISTP SB RAS, Irkutsk, Russia

16:15-16:30	Mysteries of the 17 May 2012 Solar Event Responsible for GLE71: CME and Shock Wave Development and Statistical Hints from the Spectra of Near-Earth Protons Valentin KISELEV, ISTP SB RAS, Irkutsk, Russia
16:30-16:45	Spatial Structure of Resonance Cavities in Sunspots Robert SYCH, ISTP SB RAS, Irkutsk, Russia
16:45-17:00	The Rayleigh-Taylor Instability as a Trigger of Solar Flares Alexander STEPANOV, CAO RAS, St. Petersburg, Russia
17:00-17:15	Diagnostics of Coronal Plasma Using the Exact Solution of the Evolution Equation for Slow Magnetoacoustic and Entropy Waves Dmitrii ZAVERSHINSKII, Samara University, Samara, Russia
17:15-17:30	Time-Profile Study of Type III Solar Radio Bursts Using Parker Solar Probe Tulsi THAPA, NSSC CAS, Beijing, China
17:30-17:45	Three-Minute Oscillations in Sunspot's Superpenumbrae. Alfvénic or Sound? Andrei CHELPANOV, ISTP SB RAS, Irkutsk, Russia
17:45-18:00	Multi-Spectral Stereoscopic Detection of the Solar Atmosphere and Its Precise Formation Heights Xiaofan WANG, NAOC, Beijing, China
18:00	Conference Photo
18:30	Opening Reception

September 10 (Tuesday)

09:00-10:30	Session 2-1
00.00 00.20	Convener: Jiyao XU
09:00-09:20	Recent Advances in the Research of Polar Cap Auroras (invited)
	Qinghe ZHANG, NSSC CAS, Beijing, China
09:20-09:40	Optical Instruments of the National Heliogeophysical Complex of RAS
	(invited)
	Roman VASILYEV, ISTP SB RAS, Irkutsk, Russia
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Section "Phys	sical processes in the middle and upper atmosphere"
09:40-09:55	Mid-Latitude Auroras with Data from Optical Instruments of the National
03.10 03.33	Heliogeophysical Complex
	Aleksandr BELETSKY, ISTP SB RAS, Irkutsk, Russia
	Mensariar BEEE TSINI, 1811 SB 1018, matsin, massia
09:55-10:10	Mid-Latitude Auroras during Geomagnetic Storms from Data by NHC
	Optical Instruments and Citizen Scientists
	Tatyana SYRENOVA, ISTP SB RAS, Irkutsk, Russia
10:10-10:25	Space Environment Responses of Natural Disasters — the Coupling
	Mechanisms of Earth Inner Activities with Space Environment
	Xuhui SHEN, NSSC CAS, Beijing, China
10:30-11:00	Coffee-break
11:00-12:30	Session 2-2
	Convener: Alexey MOISEEV
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Section Phys	sical processes in the middle and upper atmosphere"
11:00-11:15	Observation and Studies on Ionospheric Disturbances over China Using
	the Airglow All Sky Image Network
	Jiyao XU, NSSC CAS, Beijing, China
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11:15-11:30	Atmosphere Ionization as a Factor Uniting All Areas of IMCP Project
	Studies
	Sergey PULINETS, IKI RAS, Moscow, Russia
44.20.44.45	
11:30-11:45	The Influence of the Description of the Neutral Atmosphere on the
	Results of Modeling the Effects of the February 2022 Magnetic Storm
	Ilya EDEMSKIY, ISTP SB RAS, Irkutsk, Russia

11:45-12:00	Study of Ionospheric Irregularities Based on HF Radar Network Data Alexey OINATS, ISTP SB RAS, Irkutsk, Russia	
12:00-12:15	Simultaneous Observations of the IAR Wave Structure at the Mid- Latitude and Auroral Stations Alexander POTAPOV, ISTP SB RAS, Irkutsk, Russia	
12:15-12:30	Statistical Study on Plasma Velocities in the Bottom-Side Ionosphere over Low Latitude Hainan Station: Digisonde Measurement Guojun WANG, NSSC CAS, Beijing, China	
12:30-13:30	Lunch	
13:30-15:30	Session 2-3 Convener: Xuhui SHEN	
Section "Effects of solar phenomena on magnetospheric processes"		
13:30-13:45	Space Weather Research in Yakutia Alexey MOISEEV, SHICRA SB RAS, Yakutsk, Russia	
13:45-14:00	ULF Wave Polarization Dynamics as a Key to Understand Wave-Particle Interactions in the Magnetosphere Aleksandr RUBTSOV, ISTP SB RAS, Irkutsk, Russia	
14:00-14:15	Observations of a Magnetospheric Wave Generated by a Moving Plasma Inhomogeneity Maksim CHELPANOV, ISTP SB RAS, Irkutsk, Russia	
14:15-14:30	Radial Structure of Magnetospheric Alfven Waves and Phase Difference Between Transverse Magnetic Components: Two Case Studies Aleksandr VLASOV, ISTP SB RAS, Irkutsk, Russia	
14:30-14:45	The Mach Cone in Inhomogeneous Magnetosphere: Fast Magnetoacoustic Mode Generation by the Solar Wind Oblique Impulse on the Magnetopause Dmitri KLIMUSHKIN, ISTP SB RAS, Irkutsk, Russia	
14:45-15:00	Experimental Confirmation of the Existence of a Near-Equatorial Resonator for Magnetospheric Ion-Ion Hybrid Modes Olga MIKHAILOVA, ISTP SB RAS, Irkutsk, Russia	

15:00-15:15	Algorithm for Determining Auroral Oval Boundaries Based on Various Manifestations of Auroral Activity Yuri PENSKIKH, ISTP SB RAS, Irkutsk, Russia
15:30-16:00	Coffee-break
16:00-18:00	Poster Session

September 11 (Wednesday)

09:00-10:30	Session 3-1
	Convener: Roman VASILYEV
09:00-09:20	National Heliogeophysical Complex of RAS: Radiophysical Complex for
	Ionospheric and Atmospheric Research (invited)
	Andrey MEDVEDEV, ISTP SB RAS, Irkutsk, Russia
09:20-09:40	Lunar Orbit Small Satellite Array for an Interferometric Radio Telescope
03.20 03.10	(invited)
	Ji WU, NSSC CAS, Beijing, China
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Section "Up-t	o-date methods and instruments for solar-terrestrial research within the
framework of	f IMCP"
09:40-09:55	Gamma-Ray Spectrometers on Launched and Planned MSU Cubesats for
	Solar-Terrestrial Research
	Vitalii BOGOMOLOV, SINP MSU, Moscow, Russia
09:55-10:10	DART: Daocheng Radio Telescope System and Early Results
09.55-10.10	Ji WU, NSSC CAS, Beijing, China
10:10-10:25	Global Navigation Satellite Systems for Space Weather Studies
	Yury YASYUKEVICH, ISTP SB RAS, Irkutsk, Russia
10.00.11.00	
10:30-11:00	Coffee-break
11:00-13:00	Session 3-2
	Convener: Hui LI
Section "Up-t	- to-date methods and instruments for solar-terrestrial research within the
framework of	
11:00-11:15	Progress of Solar Observation in NAOC
11.00 11.10	Yuanyong DENG, <i>NAOC, Beijing, China</i>
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11:15-11:30	SINP MSU Feasibilities for IMCP
	Alexei DMITRIEV, SINP MSU, Moscow, Russia
11:30-11:45	Decimetric Type-IV Solar Radio Bursts and Daocheng T-array Decimetric
	Solar Radioheliograph (DATA)
	Yao CHEN, Shandong University, Weihai, China
11:45-12:00	The New Radio Spectropolarimeters for Solar Activity Observations
	Eugene IVANOV, ISTP SB RAS, Irkutsk, Russia

12:00-12:15	Development of the Full-Disk Vector Magnetographs for the Meridian Project II Yingzi SUN, NAOC, Beijing, China	
12:15-12:30	Application of a Global MHD Simulation Model of Earth's Magnetosphere on Space Weather Forecasting Xiaocheng GUO, NSSC CAS, Beijing, China	
12:30-13:30	Lunch	
13:30-15:30	Session 3-3 Convener: Yury YASYUKEVICH	
Section "Effects of solar phenomena on magnetospheric processes"		
13:30-13:45	Monitoring of Space Weather Effects with the Use of Moscow University Sozvezdie-270 Nano-satellite Constellation Sergey SVERTILOV, MSU, Moscow, Russia	
13:45-14:00	Characteristics of Magnetic Dipolarizations in the Vicinity of Substorm Onset Region Observed by THEMIS Suping DUAN, NSSC CAS, Beijing, China	
14:00-14:15	Substorm Effects on the Storm-Time Dst Variation Vladimir MISHIN, ISTP SB RAS, Irkutsk, Russia	
14:15-14:30	PiB and Airglow Bursts during Strong Storm-Time Geomagnetic Disturbances Roman MARCHUK, ISTP SB RAS, Irkutsk, Russia	
14:30-14:45	Long-Term Evolution of the Earth Radiation Belts during Solar Cycles 23 – 25 Alexei DMITRIEV, SINP MSU, Moscow, Russia	

Section "Physical processes in the middle and upper atmosphere"

14:45-15:00

Electromagnetic ULF-ELF Response of Near-Earth Space to Man-Made, Atmospheric, and Magnetospheric Activity
Natalia SAVELYEVA, IPE RAS, Moscow, Russia

15:00-15:15	Features of Determining the Electron Density Profile, Plasmasphere Electron Content and Transition Height at Irkutsk Incoherent Scatter Radar Denis KHABITUEV, ISTP SB RAS, Irkutsk, Russia
15:15-15:30	MUSER Observation and Joint Study with SRH Chengming TAN, NSSC CAS, Beijing, China
15:30-16:00	Coffee-break
16:00-18:00	Discussion: Russian-Chinese Joint Research Center on Space Weather and collaboration with IMCP Convener: Alexander ALTYNTSEV
18:00-18:30	CLOSING

September 12 (Thursday)

08:00-21:00	Visiting session: Siberian Radioheliograph
08:00-14:30	Travel from Irkutsk to Badary
14:30-16:30	Siberian Radioheliograph - New Opportunities for Studying the Solar Corona Sergey LESOVOI, ISTP SB RAS, Irkutsk, Russia
16:30-21:00	Travel from Badary to Irkutsk

September 13 (Friday)

09:00-20:00	Visiting session: Lake Baikal
20.00	Visiting Session. Lake Darkar



Poster session

Geoeffective processes on the Sun and in interplanetary space		
1-1	F10.7 Index Forecasting Using the Deep-Learning N-HiTS Model Yaroslav EGOROV, ISTP SB RAS, Irkutsk, Russia	
1-2	Cosmic Rays as a Tool for Heliosphere, Magnetosphere and Atmosphere Monitoring Marina KRAVTSOVA, ISTP SB RAS, Irkutsk, Russia	
1-3	North-South Asymmetry of Solar Activity on the Growth Branch of Cycle 25 Elena ISAEVA, ISU, Irkutsk, Russia	
1-4	The Structure of Coronal Mass Ejections Recorded by the K-Coronagraph at Mauna Loa Solar Observatory Hongqiang SONG, Shandong University, Weihai, China	
1-5	Propagation of Hot Electrons in Jets in the June 29, 2012 Event Nataliia MESHALKINA, ISTP SB RAS, Irkutsk, Russia	
1-6	Recognition of Solar Flares in Microwave Observations Using Machine Learning Julia SHAMSUTDINOVA, ISTP SB RAS, Irkutsk, Russia	
1-7	Forecast of the Course of Solar Activity in the 21st Century Galina MASHNICH, ISTP SB RAS, Irkutsk, Russia	
Effects of solar phenomena on magnetospheric processes		
2-1	Timing of Geomagnetic Activations by PiB Type Pulsations Roman MARCHUK, ISTP SB RAS, Irkutsk, Russia	
2-2	Midlatitude Bursts of PiB Geomagnetic Pulsations and Night Airglow during Stormtime Sawtooth Events Yulia KLIBANOVA, IrSAU, Irkutsk, Russia	
2-3	Dynamics of Field-Aligned Currents in the lijima-Potemra Region 1 during the Period of Stationary Magnetospheric Convection from the Magnetogram Inversion Technique Vyacheslav KAPUSTIN, ISTP SB RAS, Irkutsk, Russia	
2-4	Velocity-Space Signatures of Resonant Energy Transfer between Whistler Waves and Electrons in the Earth's Magnetosheath Wence JIANG, NSSC CAS, Beijing, China	
2-5	A Method for Estimating the Ionospheric Conductivity Based on Spacecraft Observations of Alfvén Waves in the Magnetosphere Ekaterina SMOTROVA, ISTP SB RAS, Irkutsk, Russia	
2-6	Feasibility of the Frozen-In Field Line Condition in Magnetospheric Disturbances: Analysis of THEMIS-A Data Dmitry SHUBIN, ISTP SB RAS, Irkutsk, Russia	

Physical processes in the middle and upper atmosphere			
3-0	Studying Large-scale Structures in the High-latitude Ionosphere at Meridional		
	Chains of Stations on the Eurasian Continent		
	Geliy ZHEREBTSOV, ISTP SB RAS, Irkutsk, Russia		
3-1	Analysis of Seismic and Ionospheric Disturbances Generated by the Explosion in		
	North Korea on September 3, 2017		
	Natalia PEREVALOVA, ISTP SB RAS, Irkutsk, Russia		
3-2	Long-Term Variations in Temperature in Mesopause Region and F2-region Peak Electron Density over Eastern Siberia		
	Irina MEDVEDEVA, ISTP SB RAS, Irkutsk, Russia		
3-3	Methods for Effective Joint Observation of Space Debris Using EISCAT, Qujing and		
	Irkutsk Radars		
	Valentin LEBEDEV, ISTP SB RAS, Irkutsk, Russia		
3-4	Variations in Chirp Signal Characteristics during X-ray Solar Flares: Experiment and		
	Modeling		
	Vera IVANOVA, ISTP SB RAS, Irkutsk, Russia		
3-5	Impact of a Lunar Gravitational Tide on Dynamical Processes in the Upper		
	Stratosphere Based on ERA-5 Reanalysis Data		
	Denis KHABITUEV, ISTP SB RAS, Irkutsk, Russia		
Up-1	Up-to-date methods and instruments for solar-terrestrial research within the framework of IMCP		
4-1	Modeling Research on Atmospheric Optical Characteristics for Ground-Based		
	Observations		
	Xuan QIAN, NAOC, Beijing, China		
4-2	Environmental Conditions at the High-Altitude Ali Observatory for Space Weather		
	Research		
	Yongqiang YAO, NAOC, Beijing, China		
4-3	Parameterization of Optical Turbulence Characteristics over the Baikal Astrophysical		
	Observatory		
	Artem SHIKHOVTSEV, ISTP SB RAS, Irkutsk, Russia		
4-4	Climate Change and Its Impact on Atmospheric Characteristics along 120 E Meridian Pavel KOVADLO, ISTP SB RAS, Irkutsk, Russia		