# **U** Plenary

22.04.2024

08:30 - 12:30	Participants registration	
12:30 - 13:30	Lunch break	
Main Conference Ha	II	
Plenaries   Chair Vla	dimir Semenov	
13:30 - 13:45	Conference opening	
13:45 - 14:45	Tatevossian Ruben	Macroseismiic studies: Historical earthquakes Solicited talk
14:45 - 15:45	Kiselev Andrey	Yesterday, today, and tomorrow of the Earth's climate system Solicited talk Online
15:45 - 16:15	Coffee break	
16:15 - 17:15	Kubyshkina Daria	Beyond the Solar System: methods of detection, characterisation, and classification of exoplanets Solicited talk
17:15 - 18:15	Concert by Sergei Pulinets	

18:15 - 19:30

Welcome refreshment

## **OLD Ozone Layer Dynamics**

24.04.2024

## Atmospheric Physics Dept, Room 314

## Chair Smyshlyaev S.P.

09:30 - 09:50	<b>Nerobelov Georgii</b> , Timofeyev Yuri, Polyakov Alexander, Rozanov Eugene, Virolainen Yana	Analysis of the quality of current forecasts of total ozone behavior in the 21st century
09:50 - 10:10	<b>Popov Andrey</b> , Gavrilov Nikolai, Shiokawa Kazuo	Climatology of mesoscale perturbations of OH and $\rm O_2$ rotational temperature in Rikubetsu, Shigaraki and Sata
10:10 - 10:30	<b>Imanova Anastasia</b> , Rozanov Eugene, Smyshlyaev Sergey	Comparative analysis of photolysis rates calculated using Cloud-J and LibRadran tools
10:30 - 10:50	Kriukovskikh Ekaterina, Polyakov Alexander, Virolainen Yana, Nerobelov Georgy, Timofeyev Yuri	Measurements of the total ozone column by the IKFS-2 instrument for the period of operation from 2015 to 2022 on board the «Meteor-M» №2 satellite
10:50 - 11:10	<b>Efimov Matvey</b> , Gavrilov Nikolai	Parameters of sudden stratospheric warmings from the reanalysis database jra-55
11:10 - 11:30	Akishina Svetlana, Virolainen Yana, Polyakov Alexander, Timofeyev Yury, Nerobelov Georgy, Zubov Vladimir, Rozanov Eugene	The variability of stratospheric gases in the vicinity of St. Petersburg
11:30 - 12:00	Coffee break	
Chair Divin A.V.		
12:00 - 12:20	<b>Akishina Svetlana</b> , Polyakov Alexander, Virolainen Yana	Information content of the outgoing thermal radiation spectra with respect to vertical ozone distribution
12:20 - 12:40	Smyshlyaev Sergei, Usacheva Margarita, Rozanov Eugene, Zubov Vladimir	Numerical modeling of simultaneous changes of ozone content in the lower and middle atmosphere in the past, present and future
12:40 - 13:00	<b>Bordovskaia Iuliia</b> , Timofeyev Yuriy, Virolainen Yana, Poberovskii Anatolij	Analysis of the synergetic ground-based MW+IR method for determining vertical profiles of ozone content
13:00 - 13:20	<b>Zubov Vladimir</b> , Rozanov Eugene, Mironov Andrey	The vertical profiles of O <sub>3</sub> , CH <sub>4</sub> , and N <sub>2</sub> O into the polar stratosphere of the SH. Model investigation

with CCM SOCOL

13:20 - 13:40	<b>Usacheva Margarita</b> , Rozanov Eugene, Smyshlyaev Sergey, Zubov Vladimir	Sensitivity of the ozone content and temperature to different forcing
13:40 - 14:00	Lukianova Renata	Formation of the extreme Arctic stratospheric polar vortex of winter 2019/2020 and related ozone loss
14:00 - 15:00	Lunch break	

## **PERM Paleomagnetism and Rock Magnetism**

23.04.2024

## Earth Phys Dept, Room 507

Paleomagnetism I	Chair Alexei Didenko
i alcomagnetism i	Cilali Alexel Dideliko

09:00 - 09:20	<b>Pavlov Vladimir</b> , Lebedev Ivan	Paleosecular variations indicate the specific mode of geodynamo operation during the Cretaceous Normal Polarity Superchron
09:20 - 09:40	Pasenko Aleksandr, Lebedev Ivan, Dudanova Varvara, Sirotin Kirill, Zaika Georgy	Paleomagnetism of rocks of the Okhotsk- Chukotka volcanic-plutonic belt of the Krest Bay (Chukotka): questions and tasks
09:40 - 10:00	<b>Lebedev Ivan</b> , Pasenko Alexander	Late Cretaceous-Cenozoic tectonic history of Chukotka according to new paleomagnetic data
10:00 - 10:20	<b>Anosova Maiia</b> , Shcherbakova Valentina, Zhidkov Grigoriy, Shcherbakov Valeriy, Lebedev Ivan, Latyshev Anton	High-Latitude paleointensities after the end of the Cretaceous Normal Superchron from the Okhotsk-Chukotka Volcanic Belt
10:20 - 10:40	Shcherbakova Valentina, Zhidkov Grigoriy, Shcherbakov Valeriy, Afinogenova Natalia	Geomagnetic paleointensity at $\sim 1.75$ Ga of Paleoproterozoic volcanic rocks from the Ukrainian Shield
10:40 - 11:10	Coffee break	

## Loess, paleoclimate, and magnetism | Chair Andrei Kosterov

11:10 - 11:50	Kazansky Alexey	Rock-magnetic indicators of climate in subaerial deposits, how do they work?  Solicited talk
11:50 - 12:10	<b>Meshcheriakova Olga</b> , Khormali Farhad, Kurbanov Redjep, Kazansky Alexey	Rock magnetic characteristics of loess -soil series in Tajikistan (based on materials from the study of the reference section Khonako-II)
12:10 - 12:30	Peskov Aleksey, Didenko Aleksey, Klimin Mikhail, Karetnikov Anatolii, Arkhipov Mikhail, Tikhomirova Anna, Tsygankova Viktoria	Paleomagnetic and rock magnetic studies on peats from the Nerpichiy bay coast, Southwestern Priokhotie
12:30 - 12:50	<b>Trubikhin Valeriy</b> , Vardanyan Hasmik, Stakhovskaya Rita	Record of climatic and paleomagnetic events of the late Holocene in takyr deposits of western Turkmenistan
12:50 - 13:50	Lunch break	

Rock magnetism I | Chair Alexey Kazansky

13:50 - 14:10	<b>Didenko Alexei</b> , Nosyrev Mikhail, Arkhipov Mikhail, Gilmanova Gulshat, Krutikova Valeriya	Deep structure model of the Taragai area of the Sutarsky ridge (Lesser Khingan) from geophysical field and magnetic petrology data interpretation
14:10 - 14:30	Pozhidaeva Daria	Changes in rock magnetic data in Late Pleistocene-Holocene sediments of the glacial lake Sosednee (Upper Kolyma region)
14:30 - 14:50	<b>Leonova Mariia</b> , Markov Gennady	Can the traces of the impact events in the sedimentary sequences be recorded by rockmagnetic properties?
14:50 - 15:10	<b>Sergienko Elena</b> , Kharitonskii Petr, Gareev Kamil, Yanson Svetlana, Dubeshko Danil	Study of biomineralization of iron oxyhydroxides by magnetometric methods
15:10 - 15:40	Coffee break	
Rock magnetism II   0	Chair Vladimir Pavlov	
15:40 - 16:00	Shcherbakov Valery, <b>Sycheva</b> <b>Natalia</b>	Theory of anhysteretic remanent magnetization of randomly oriented single-domain grains
16:00 - 16:20	<b>Shcherbakov Valeriy</b> , Gribov Sergey, Tselmovich Vladimir, Afinogenova Natalia	Experiments on samples carrying a sum of laboratory induced TRM and TCRM imparted perpendicular each other
16:20 - 16:40	<b>Belokon Valery</b> , Dyachenko Olga, Lapenkov Roman	Heat capacity of spin glasses in the model of random interaction fields
16:40 - 17:00	Kosterov Andrei	When magnetite is truly magnetite?
	24.04.202	4
09:30 - 13:00	Poster viewing	
GC2024- PERM005	Pilipenko Olga, Tsetlin Yuri	Rockmagnetic and archaeomagnetic investigations of ceramics of the multilayer archaeological site Ivanovskoe III
GC2024- PERM009	<b>Pilipenko Olga</b> , Markov Gennady, Tsetlin Yuri, Aphinogenova Natalya	Thellier's experiments on artificial ceramics to determine the magnitude of the magnetic field
GC2024- PERM020	Shcherbakova Valentina, <b>Zhidkov Grigoriy</b> ,  Afinogenova Natalia	Ultralow geomagnetic paleointensity at ~2 Ga of Paleoproterozoic igneous rocks from the Ukrainian Shield
GC2024- PERM041	<b>Sirotin Kirill</b> , Aleksandr Pasenko, Lebedev Ivan, Dudanova Varvara	Volcanogenic rocks of the Kresta Bay (Chukotka): petrographic studies in the context of substantiating the nature of the paleomagnetic signal

GC2024- PERM051	<b>Latyshev Anton</b> , Latanova Elena, Anosova Maiia, Bergal- Kuvikas Olga, Belyaev Alexey	Paleomagnetism and Anisotropy of Magnetic Susceptibility in the Late Quaternary Lava Flows from the Tolmachev Dol area (the Southern Kamchatka)
GC2024- PERM058	<b>Fedyukin Ivan</b> , Zhang Rui, Pavlov Vladimir, Pasenko Alexandr	AMS study of the evolution of the Middle-Late Ordovician sea basin in the North of the Siberian platform
GC2024- PERM012	<b>Fattakhova Leysan</b> , Kuzina Dilyara, Antonenko Vadim	Magnetic properties of the soil cover of active arable lands
GC2024- PERM048	Meshcheriakova Olga, Kononov Yuri, Kurbanov Rejep, Ivanov Andrew, Timireva Svetlana	Rock magnetic characteristics of loess-soil series in the Azov region (Beglitsa and Chumbur-Kosa sections)
GC2024- PERM008	<b>Minyuk Pavel</b> , Pozhidaeva Dasha	Iron sulfides in the lacustrine sediments of North- East Russia
GC2024- PERM045	<b>Iliushin Ilia</b> , Kharitonov Vladimir, Afremov Leonid	Dependence of the magnetic properties of the metal/metal oxide system on the degree of oxidation
GC2024- PERM023	<b>Iusupova Anastasiia</b> , Kuzina Dilyara	Holocene paleoclimate history of the lakes Bolshoe and Maloe Miassovo (Southern Urals) based on magnetic and geochemical investigations
GC2024- PERM036	Kosareva Lina, Kosarev Victor, Kuzina Dilyara, Yusupova Anastasia, Nourgalieva Nuriia, Antonenko Vadim	Local, regional and global components of environmental variability of the Southern Urals in the Neopleistocene-Holocene on the basis of petromagnetic parameters of modern lakes sediments
GC2024- PERM037	<b>Kuzina Dilyara</b> , Shcherbakov Valery, Salnaia Natalia, Yusupova Anastasiia, Nurgaliev Danis	Relative paleointensity of geomagnetic field obtained from the sediments of Lake Shira (Khakassia)
GC2024- PERM034	<b>Khosnullina Tansylu</b> , Piskarev Alexey, Elkina Daria, Gusev Evgeny	Paleomagnetic studies of marine sediments collected from the northern Barents Sea during the 2023 expedition
GC2024- PERM055	Elkina Daria, Gusev Evgeny, Ryabchuk Daria, Piskarev Alexey, Sergeev Alexander, Gostenina Anna, Khosnullina Tansylu, Yarzhembosky Yaroslav, Krylov Alexey	Paleomagnetic studies of marine sediments of the Russian Arctic seas under the project of state geological mapping of the territory and continental shelf of the Russian Federation at a scale of 1:1,000,000
GC2024- PERM043	<b>Iosifidi Alexandr</b> , Salnaia Natalia	Devonian deposits of the southern Timan: Paleomagnetic data

GC2024- PERM057	<b>Pavlov Vladimir</b> , Zhang Rui, Fedyukin Ivan, Pasenko Alexandr	Current update of the magnetostratigraphic scheme of the key Ordovician section of the Moyero River and the behavior of the geomagnetic field on the eve of the Moyero superchron
GC2024-	Rudko Dmitrii, Zhang Rui,	Cyclostratigraphic study of the Upper Cambrian
PERM059	Pavlov Vladimir	deposits of the Kulyumbe key section (NW of the Siberian platform) aimed to constrain the duration of magnetic zones and $\delta^{13}\text{C}$ SPICE anomaly
GC2024-	Golovanova Inessa,	A cyclostratigraphic study of the Katav
PERM015	<b>Salmanova Raushaniya</b> , Danukalov Konstantin, Parfiriev Nikita	Formation, (Upper Riphean, Southern Urals)
GC2024-	Danukalov Konstantin,	Study of the morphology of geomagnetic
PERM027	Golovanova Inessa, Parfiriev Nikita, Salmanova Raushaniya	reversals in the Late Riphean Katav Formation. New results
13:00 - 14:00	Lunch break	

25.04.2024

## Earth Phys Dept, Room 507

## Paleomagnetism II | Chair Dilyara Kuzina

09:00 - 09:20	<b>Kovalenko Dmitry</b> , Buzina Margarita	Problems of paleomagnetism in the Altai-Sayan region and Mongolia
09:20 - 09:40	<b>Kovalenko Dmitry</b> , Yarmolyuk Vladimir, Kozlovsky Alexander, Buzina Margarita	Paleomagnetism of the Phanerozoic Sequences of the Central Part of the Central Asian Fold Belt
09:40 - 10:00	<b>Golovanova Inessa</b> , Danukalov Konstantin, Parfiriev Nikita, Salmanova Raushaniya	Current issues of paleomagnetism of the Katav Formation (Upper Riphean, Southern Urals)
10:00 - 10:20	<b>Parfiriev Nikita</b> , Danukalov Konstantin, Golovanova Inessa, Salmanova Raushaniya	Test of intraformational conglomerates for the Katav Formation of the Upper Riphean (Southern Urals). New data
10:20 - 10:40	<b>Lubnina Nataliya</b> , Bychkov Andrey	Remagnetization during hydrothermal process: paleomagnetic data and geodynamic consequences

## Magnetostratigraphy | Chair Vladimir Vodovozov

**Coffee break** 

10:40 - 11:10

11:10 - 11:50	Guzhikov Andrey	Magnetostratigraphic method in geology: current state, problems and the ways to their solutions Solicited talk
11:50 - 12:10	<b>Dudanova Varvara</b> , Konstantinov Evgeniy, Veselovskiy Roman, Pasenko Aleksandr	The Matuyama-Brunhes reversal in the loess- paleosol series of the Otkaznoe section (Terek- Kuma Lowland)
12:10 - 12:30	Shelepov Dmitry, <b>Guzhikov Andrey</b>	Magnetostratigraphy of the Danian stage from the Saratov Volga region
12:30 - 12:50	<b>Gnibidenko Zinaida</b> , Marinov Vladimir, Levicheva Aleksandra, Semakov Nicolay	Cretaceous Magnetostratigraphy of the Severnaya Sosva River (Northern Urals) Online
12:50 - 13:30	Lunch break	
Paleomagnetism III	Chair Inessa Golovanova	
13:30 - 13:50	<b>Luzan Margarita</b> , Metelkin Dmitriy, Bragin Vasiliy	Analysis of the Devonian paleomagnetic direction distribution in the Minusa basin
13:50 - 14:10	<b>Salnaia Natalia</b> , Alexandr Iosifidi	Devonian paleomagnetic data on the East European Platform in the context of the problem of complicated magnetic field record and the presence of atypical Devonian components Online
14:10 - 14:30	Vodovozov Vladimir	Paleomagnetism of Mesoproterozoic intrusive complexes of the Bunger Hills (East Antarctica)
14:30 - 14:50	<b>Fedyukin Ivan</b> , Shatsillo Andrey, Romanyuk Tatyana, Latysheva Irina, Novikova Anastasia, Kuznetsov Nikolay	Paleomagnetic data of Jurassic igneous rocks of the Greater Caucasus: comparison with Lesser Caucasus
14:50 - 15:10	Doroshenkov Mikhail	Prospects of studying and possibilities of indication of catastrophic flood deposits by petromagnetic methods
15:10 - 15:30	<b>Ushakov Dmitrii</b> , Lebedev Ivan, Pavlov Vladimir	Influence of orientation errors associated with the use of a magnetic compass on the accuracy of determining the position of the paleomagnetic pole and the amplitude of paleosecular variations
15:30 - 16:00	Coffee break	
Geomagnetism   Cha	ir Andrei Kosterov	
16:00 - 16:20	Sanchez Rodriguez Cesar Julio, Merkuryev Sergei	Study of the structure and evolution of the axial zone of the Carlsberg Ridge

16:20 - 16:40	Starchenko Sergey	RMS velocities and magnetic fields in the Earth's liquid core
16:40 - 17:00	<b>Starchenko Sergey</b> , Yakovleva Svetlana	Statistics of dipole and non-dipole geomagnetic energy
17:00 - 17:20	Riabova Svetlana	Spectral analysis of geomagnetic field variations at the Eskdalemuir Observatory in the range of 2-41 years
		Online
17:20 - 17:50	General discussion, PERM section closin	ng

# **SG Seismology and Geodynamics**

23.04.2024

## Data processing and analysis methods | Chair Vladimir Troyan

Blue Hall		
09:00 - 09:20	<b>Fedorov Ivan</b> , Fedorov Andrey, Asming Vladimir	Experiments on the use of seismic and infrasound methods for remote recording of snow avalanches
09:20 - 09:40	<b>Isaev Igor</b> , Guskov Artem, Obornev Ivan, Obornev Eugeny, Rodionov Eugeny, Shimelevich Mikhail, Dolenko Sergey	Using the transfer learning approach in neural network solution of inverse problems of exploration geophysics
09:40 - 10:00	Polovkov Viacheslav, Terekhina Yana, Ponomarenko Andrey, Kudinov Artem, Bulanova Irina, Rakhimov Emil, Tokarev Mikhail, Gorbachev Sergei, Solovyova Marina	Technology for surface waves processing recorded using seismic streamers to study the upper part of the Pechora Sea shelf section
10:00 - 10:20	Ponasenko Svyatoslav	Automated system for seismological monitoring
10:20 - 10:40	Ponomarenko Andrey, Stanyulis Alexander, Polovkov Viacheslav, Troyan Vladimir	On the geophone coupling function in marine research
10:40 - 11:05	Coffee break	
11:05 - 11:35	<b>Kitov Ivan</b> , Sanina Irina	On the current state and prospective of waveform cross correlation in seismic studies: improvements in signal detection, parameter estimation, relative location, and identification of seismic sources  Solicited talk  Online
11:35 - 11:55	<b>Sychev Vladimir</b> , Sycheva Nailia	Nonextensive analysis of earthquakes and man- made impacts
11:55 - 12:15	<b>Baranov Sergey</b> , Shebalin Peter, Motorin Alexander	Earthquake Productivity Solicited talk
12:15 - 12:35	<b>Malyshkin Timur</b> , Gordeev Nikita	Development of a method for identifying surface faults using active and passive sensors in remote sensing data

12:35 - 12:55	<b>Lobodenko Ivan</b> , Fihieva Luiza, Malofeev Aleksey, Menschikova Viktoria	Solving direct and inverse geophysics and geodynamics problems in site selection, construction and operation of nuclear power plants in accordance with federal norms and rules for the atomic energy use  Online	
Fiber optics in geop	hysics. Distributed acoustic sensing	(DAS)   Chair Konstantin Kislov	
12:55 - 13:20	Kislov Konstantin	Fiber optics in geophysics. Distributed acoustic sensing (DAS) Solicited talk	
13:20 - 14:20	Lunch break		
14:20 - 14:40	<b>Tezikov Artemii</b> , Chugaev Aleksandr, Trapeznikova Anna	Spectral analysis of passive DAS data for monitoring of an undermined massif at a salt deposit  Solicited talk  Online	
14:40 - 15:00	Nikitin Sergei, Spiridonov Egor, Bengalskiy Danil, Kharasov Danil, Ashkar Georgiy, Kostenko Mikhail, Kislov Konstantin, Nanii Oleg, Starovoyt Yuriy, Treshchikov Vladmir	Applications of fiber optical DAS equipment for teleseismic observations and tomography tasks in seismology	
15:00 - 15:20	Ilinskiy Dmitry, Gorshkov Boris, Simikin Denis	Application of a distributed acoustic measurement system for active and passive seismic studies  Solicited talk	
15:20 - 15:40	<b>Belov Mikhail</b> , Tokarev Mikhail, Potemka Andrey	The Lomonosov Moscow State University experience in fiber optic sensors technology	
15:40 - 16:00	Coffee break		
Distributed acoustic sensing & Poster viewing			
GC2024-SG047	Kislov Konstantin, Ashkar Georgy, Bengalskii Danil, Gravirov Valentin, <b>Kostenko</b> <b>Mikhail</b> , Kharasov Danil, Vasiliev Alexey, Treshchikov Vladimir	Demonstration of the capabilities of Distributed Acoustic Sensing technology	
GC2024-SG013	Ashkar Georgy, Bengalskii Danil, <b>Gravirov Valentin</b> , Kislov Konstantin, Kostenko Mikhail, Kotov Andrey, Presnov	Full-Scale Testing of the Use of Distributed Acoustic Sensing (DAS) Technology to Determine Ice Cover Parameters	

Dmitry, Spiridonov Egor,

Shurup Andrey

GC2024-SG015	<b>Gravirov Valentin</b> , Kislov Konstantin	Advantages and Disadvantages of Distributed Acoustic Sensing Technology for Geophysics Tasks
GC2024-SG042	Kislov Konstantin, <b>Dmitrienko</b> <b>Maxim</b>	Performance of Seismic Observations by DAS Technology in Different Environments
16:55 - 17:15	Coffee break	
GC2024-SG008	<b>Gravirov Valentin</b> , Pershin Sergey, Sobisevich Alexey, Grishin Michail, Likhodeev Dmitry, Myasnikov Andrey	The Influence of Earthquakes on the Temperature Regime of Rocks
GC2024-SG012	<b>Gravirov Valentin</b> , Likhodeev Dmitry	Precision Rock Temperature Monitoring System
GC2024-SG014	Gravirov Valentin	Digital Data Acquisition Systems for Data Capturing of Geophysical Information: Methods for Testing Performance in the Field
GC2024-SG044	<b>Kislov Konstantin</b> , Marchenkov Alexey	Designing a side-by-side experiment to compare low-power impulsive artificial seismic sources
GC2024-SG021	Gravirov Valentin, Sobisevich Alexey, Zhostkov Ruslan, Presnov Dmitry, <b>Kotov Andrey</b>	Ice Geo-Hydroacoustic Buoy
GC2024-SG022	Gravirov Valentin, <b>Kotov Andrey</b> , Presnov Dmitry, Nuzhdaev Ivan, Toshchov Sergey	Study of the Internal Structure of Geothermal Deposits in the Southern Part of the Kamchatka Peninsula
GC2024-SG045	<b>Kasimova Victoria</b> , Chebrov Danila, Kopylova Galina	Integrated geophysical observations at the Petropavlovsk-Kamchatsky test site, Kamchatka Peninsula
GC2024-SG037	Solovieva Maria, Kopylova Galina, Korkina Galia, Bulatova Nadezhda, <b>Kasimova Victoria</b>	Disturbances of the lower ionosphere during strong seismic activity in 2023-2024 as observed on the Kamchatka peninsula

24.04.2024

## Blue Hall

## Processes in earthquake sources | Chairs Alena Filippova & Vladimir Troyan

09:00 - 09:25	Filippova Alena	Seismic moment tensor: a review Solicited talk
09:25 - 09:40	<b>Filippova Alena</b> , Burlakov Ilya, Fomochkina Anastasia	Focal mechanisms of earthquakes occurred in 1927–2022 in the East Arctic region

09:40 - 10:00	<b>Sokolova Inna</b> , Aristova Irina, Komekbayev Darkhan	Study of the wave pattern of various nature events from the area of the Novaya Zemlya Test Site according to historical seismic and infrasound records by Central Asia stations
10:00 - 10:20	<b>Zotov Oleg</b> , Guglielmi Anatol, Zavyalov Alexey, Klain Boris	Energy flows and the spatio-temporal structure in the earthquake source  Online
10:20 - 10:40	<b>Petrova Nataliya</b> , Gabsatarova Irina, Kurova Anna	Distance corrections to surface-wave magnitudes of Far East shallow earthquakes  Online
10:40 - 11:00	Fomochkina Anastasia, Filippova Alena	Source parameters of earthquakes in the Laptev Sea (1996, 1997 and 2023) from surface wave records
11:00 - 11:20	Coffee break	
Regional Seismicity	Chair Vladimir Troyan	
11:20 - 11:35	<b>Sokolova Inna</b> , Gabsatarova Irina, Berezina Anna, Kopnichev Yuri, Aristova Irina	Uqturpan earthquake with Mw=7.0 on January 22, 2024, in the south of the Tien Shan
11:35 - 11:50	<b>Motorin Alexander</b> , Baranov Sergey, Shebalin Peter	Aftershock domain estimation by first aftershocks on the example of the Khibiny deposits  Online
11:50 - 12:10	Burmin Valeriy, <b>Petrosyan</b> <b>Goharik</b>	Some Features of Earthquakes Distribution in Turkmenistan Online
12:10 - 12:30	<b>Tsiareshchanka Kseniya</b> , Aronov Arkady, Bialiayeva Victoriia, Martinovich Yuliya	Seismic effects of industrial explosions in a granite quarry in Belarus
12:30 - 12:50	Coffee break	
12:50 - 13:05	<b>Sokolova Inna</b> , Gabsatarova Irina, Berezina Anna, Pershina Elena	The source and consequences of the Kungey earthquake on March 4, 2024 (mpv=5.8) in the Northern Tien Shan region
13:05 - 13:20	<b>Zvereva Anastasia</b> , Skorkina Anna	The relationship between $M_{\rm W}$ and other magnitude scales for earthquakes of the North Caucasus
13:20 - 13:35	Zvereva Anastasia, <b>Klianchin</b> <b>Andrey</b>	Earthquake on January 24, 2024 in the in the region of Krasnodar city (North-West Caucasus) with $M_{\rm W}$ =4.1, $I_{\rm 0}$ =4-5

13:35 - 13:50	<b>Surkov Vadim</b> , Pilipenko Vyacheslav, Sorokin Valery, Yashchenko Aleksey	Ionospheric perturbations caused by a complex of atmospheric acoustic waves radiated during and after earthquakes
13:50 - 14:05	Surkov Vadim	Theoretical models of atmospheric and ionospheric anomalies that can be interpreted as earthquake precursors
14:05 - 15:00	Lunch	

25.04.2024

## Rock Mechanics and Mining Sciences | Chair Valerii Khimulia

09:00 - 09:20	<b>Khimulia Valerii</b> , Karev Vladimir, Barkov Svyatoslav	Comprehensive study of stress effect on filtration-capacitance properties of underground gas storage reservoirs using geomechanical and CT-based approach  Online
Blue Hall		
09:20 - 09:40	<b>Kovalenko Yury</b> , Barkov Svyatoslav, Khimulia Valerii	Experimental study of mechanical and filtration processes in low-permeability reservoir rocks of Verkhnevilyuchanskoye oil and gas condensate field at implementation the method of directional unloading of the reservoir
		Online
09:40 - 10:00	<b>Ivanov Zakhar</b> , Panteleeva Arina, Golosov Andrey	The influence of layer orientation on the mechanical properties of 3D printed models  Online
		Offilie
10:00 - 10:20	Kozhevnikov Evgenii, Turbakov Mikhail, Riabokon Evgenii, Guzev Mikhail, Qi	Comparative analysis of the reduction in permeability under loading in laboratory and field conditions
	Chengzhi, Li Xiaozhao	Online
10:20 - 10:40	Coffee break	
10:40 - 11:00	<b>Panteleeva Arina</b> , Ivanov Zakhar, Kozhevnikov Evgenii	The influence of rock conductivity on the of detached particles size distribution during filtration and cyclic loading  Online
11:00 - 11:20	<b>Riabokon Evgenii</b> , Turbakov Mikhail, Evgenii Kozhevnikov, Guzev Mikhail	Modelling the influence of acoustic vibrations on the movement of plastic particles through rocks Online

11:20 - 11:40	Panteleev Ivan, <b>Zaitsev Aleksey</b> , Ustinov Konstantin, Shevtsov Nikolay, Valeriy Khimulya, Mubassarova Virginiya, Karev Vladimir, Kovalenko Yuri	A Kaiser Damage-Memory Effect in Sandstone under Cyclic and Rotated Triaxial Stresses  Online
11:40 - 12:00	<b>Zaitsev Aleksey</b> , Demus Michael, Kourov Roman, Fukalov Anton	The Equilibrium State of a Hollow Horizontal Orthotropic Thick-walled Cylinder, which is Subject to a Nonuniform Internal Lateral Pressure and Weight Forces Online
12:00 - 12:20	Goev Andrey	Upper mantle – classic ideas and new insights Solicited talk
Earth's Structure   C	hairs Andrey Goev & Vladimir Troyar	n
12:20 - 12:40	<b>Usoltseva Olga</b> , Ovtchinnikov Vladimir	Lateral variations in travel times of reflected from the inner core waves and their connection with thermal and gravitational fields
12:40 - 13:00	<b>Sokolova Inna</b> , Kopnichev Yuri, Khachikyan Galina	Temporal variations of S wave attenuation field structure in the region of Zaili Alatay ridge: possible correlation with solar activity and large earthquakes
13:00 - 14:00	Lunch break	
14:00 - 14:20	<b>Filippov Sergey</b> , Abramova Darya	Lithospheric magnetic anomalies over the Anatolian Plate (Turkey) as a reflection of the crust-mantle interaction processes Solicited talk
14:20 - 14:40	Vakarchuk Roman	Typification of the Earth's Crust
14:40 - 15:00	<b>Filippov Sergey</b> , Filippova Alena, Sokolova Tatiana, Pankratov Oleg	Lithospheric magnetic sources in the East Arctic region
15:00 - 15:20	<b>Koroleva Tatiana</b> , Zarochentsev Andrey	Experience of determining S-wave velocities beneath the Caucasus from surface waves dispersion curves with the use of high-performance computing
15:20 - 15:40	Coffee break	
15:40 - 16:00	<b>Filippova Alena</b> , Sokolova Elena, Filippov Sergey, Bolshakov Egor	Integrated geophysical modeling of the lower crustal - upper mantle structure in the area of the Yenisei-Khatanga trough

16:00 - 16:20	Egorushkin Igor, Koulakov Ivan, Jakovlev Andrey, Huang Hsin-Hua, Gordeev Eugeny, Abkadyrov Ilyas, Chebrov Danila	Insights into the crustal structure beneath Central Kamchatka revealed by ambient noise tomography Online
16:20 - 16:40	<b>Sannikov Konstantin</b> , Lyskova Evgenia, Sannikov Alexander	New data on radial anisotropy in the European region from surface waves

26.04.2024

## **Blue Hall**

Geodynamic Processes   Chair Alena Filippova			
09:30 - 09:50	Rodkin Mikhail	Earthquake forecast algorithm based on the set of typical anomalies obtained in the general vicinity of large earthquake	
09:50 - 10:10	<b>Mikheeva Anna</b> , Kalinnikov Igor	On the possibilities and problems of using creepex as a characteristic of the seismogenic environment stress-strain state  Online	
10:10 - 10:30	<b>Sycheva Nailia</b> , Rebetsky Yuriy	Research of the features of seismicity and seismotectonic deformations of some areas of the Altai-Sayan mountain region	
10:30 - 10:50	Rodkin Mikhail	The role of geodynamics and the deep fluid regime in seismicity, and oil and ore generation processes	
10:50 - 11:20	Coffee break		
Earth Phys Dept, Roo	om 507		
11:20 - 11:40	Kopylova Galina, Serafimova Yulia, <b>Kasimova Victoria</b>	Precursors of strong earthquakes in Kamchatka (according to data from 2005-2022)	
11:40 - 12:00	Strelnikov Andrei	Paleoseismological studies of the Jumgal depression  Online	
12:00 - 12:20	<b>Sycheva Nailia</b> , Mansurov Artur	Comparing estimates of crustal deformation in Altai-Sayan mountain region based on seismic and GNSS data	
12:20 - 12:40	<b>Novikov Victor</b> , Kulkov Dmitry, Parov Stanislav, Gorynin Ivan	A possible thermal mechanism of electromagnetic earthquake triggering: Insight from laboratory press experiments and field estimations	

**Online** 

12:40 - 13:00	<b>Bataleva Elena</b> , Nepeina Kseniia, Matiukov Vitalii	Manifestation of the earthquake of January 23, 2024 (Northern China) in the components of the electromagnetic field (Northern Tien Shan)  Online
13:00 - 13:20	<b>Morozov Alexey</b> , Asming Vladimir	Relocation of Early Instrumental Earthquakes in the Arctic Online
13:20 - 15:00	Lunch break	

## Interpretation of Geophysical Fields | Chair Vladimir Troyan

ВI	116	Ha	м

Blue Hall		
15:00 - 15:20	<b>Daurbayeva Gulbanu</b> , Lukianova Renata, Siylkanova Akkenzhe	Variations of the electron density in the topside ionosphere during the earthquake on January 22, 2024 in Central Asia  Online
15:20 - 15:40	<b>Akbashev Rinat</b> , Makarov Evgeniy	Experiment on physical modeling of ash clouds with simultaneous recording of the atmospheric electric potential gradient  Online
15:40 - 16:00	<b>Vishniakov Dmitrii</b> , Lygin Ivan	On correlation of magnetic field variations with large seismic events  Online
16:00 - 16:20	<b>Riabova Svetlana</b> , Shalimov Sergey	Measured by magnetometers patterns of the ionospheric response to seismic events in the Philippines on December, 2023  Online
16:20 - 16:50	Coffee break	
16:50 - 17:10	Pashayan Romela	Graphic representation of the parameters of hydrogeochimical composition of mineral water in central Armenia  Online
17:10 - 17:30	<b>Zotov Leonid</b> , Sidorenkov Nikolay, Bizouard Christian	Chandler wobble changes in 2020s Online
17:30 - 17:50	Riabova Svetlana	Response of the upper ionosphere to the earthquake in the Sea of Japan on January 1, 2024 (preliminary results)  Online
17:50 - 18:10	<b>Petrushov Andrey</b> , Smirnov Vladimir	Anomalies of RTL function and Gutenberg- Richter parameter preceding earthquakes in California

**Riabova Svetlana**, Shalimov Sergey

18:10 - 18:30

Tsunami driven internal gravity waves after Great Japan Earthquake

Online

## **STP Solar-Terrestrial Physics**

23.04.2024

#### **Main Conference Hall**

Magnetospheric dynamics	storms and substorms	Chair: Anatonkov S V
Madifetospiletic dynamics	. Storins and Substorins	I CIIAII. ADALCIINUV J.V.

09:00 - 09:20	<b>Lavrukhin Alexander</b> , Alexeev Igor	Aurora boundaries during magnetic storm
09:20 - 09:40	Manina Alina, Kalegaev Vladimir, Nikolaeva Vera, Sarajev Roman, Ivanova Alexandra, Vlasova Natalya	Dynamics of the Earth's high-latitude magnetosphere during a magnetic storm on 02.27.2023
09:40 - 10:00	<b>Saladukhin Ihar</b> , Aronov Genady, Aronov Arkady, Laziuk Valiantsina, Pustoshilo Larisa	Analysis of the magnetic storms and variations of the geomagnetic field components at the Pleshchenitsy Observatory, Republic of Belarus
10:00 - 10:20	<b>Bryzhakhina Diana</b> , Apatenkov Sergey	Observation of stationary current sheet in the magnetosphere
10:20 - 10:35	Coffee break	

## Magnetospheric dynamics, storms and substorms | Chair: Apatenkov S.V.

10:35 - 10:55	Antonova Elizaveta, Ovchinnikov Ilya, Naiko Daniil, Kirpichev Igor, Vorobjev Vyacheslav, Yagodkina Oksana, Stepanova Marina	Plasma sheet turbulence and topology of magnetospheric domains  Online
10:55 - 11:15	<b>Petrashchuk Aleksandr</b> , Klimushkin Dmitri, Mager Pavel	Numerical analysis of ballooning modes in Earth's magnetosphere and their connections with MHD oscillation branches
11:15 - 11:35	<b>Leonenko Makar</b> , Grigorenko Elena, Zelenyi Lev	Strong electrostatic fluctuations associated with intense electric currents in the plasma sheet of the Earth magnetotail
11:35 - 11:55	<b>Troshichev Oleg</b> , Dolgacheva Svetlana, Sormakov Dmitry, Stepanov Nikita	Different origin of magnetic disturbances evaluated by AL index in course of the growth and expansion substorm phases

11:55 - 12:10

## Magnetospheric dynamics, storms and substorms | Chair: Kubyshkina M.V.

**Coffee break** 

12:10 - 12:30	Shukhtina Maria, Sergeev	Relationship between dipolarizations and
	Victor, Nikolaev Alexander,	Energetic Electron injections at the
	Stepanov Nikita	Geosynchronous orbit

12:30 - 12:50	<b>Sergeev Viktor</b> , Stepanov Nikita, Ogawa Yasunobu, Rozanov Eugene	Local time distribution and activity dependence of extreme electron densities in the auroral D- region as an image of energy-dependent energetic electron precipitation
12:50 - 13:10	<b>Stepanov Nikita</b> , Sergeev Victor, Ogawa Yasunobu	On the influence of the long-term history of magnetospheric activity on the precipitation of energetic electron fluxes into the D layer of the auroral ionosphere
13:10 - 13:30	<b>levenko Igor</b> , Parnikov Stanislav	Dynamics of the proton aurora and current sheet in the magnetosphere. Ground-based and satellite observations  Online
10.00 14.00		

13:30 - 14:30 **Lunch break** 

## Magnetospheric dynamics, storms and substorms | Chair: Semenov V.S.

14:30 - 15:10	Kalegaev Vladimir, Basilevskaya Galina, Vlasova Nataliya, Grankin Dmitry, Gruzdov Danil, Demekhov Andrey, Ivanova Alexandra, Kaportseva Ksenia, Mironova Irina, Myagkova Irina, Popova Tatiana, Rosanov Eugeny, Shugay Yulia, Yahnina Tatiana	Acceleration and losses of the outer radiation belt energetic electrons during period of long duration auroral activity Solicited talk
15:10 - 15:30	<b>Gruzdov Danil</b> , Kalegaev Vladimir, Vlasova Natalia, Ivanova Alexandra, Andrey Demekhov, Galina Bazilevskaya, Yahnina Tatyana	Spatial-energy dependencies of maximum electron fluxes of the outer radiation belt during geomagnetic activity  Online
15:30 - 15:50	Ivanova Alexandra, Kalegaev Vladimir, Basilevskaya Galina, Vlasova Natalia, Gruzdov Danil, Demekhov Andrey, Kaportseva Ksenia, Mironova Irina, Myagkova Irina, Shugay Yalia, Yahnina Tatyana	Features of energetic electron precipitation of different mechanisms from the outer radiation belt during geomagnetic disturbances
15:50 - 16:05	Coffee break	

#### 15:50 - 16:05 **Coffee break**

## Magnetospheric dynamics, storms and substorms | Chair Divin A.V.

16:05 - 16:45	Pilipenko Vyacheslav,	Is the global MHD modeling of the
	Kozyreva Olga, Sakharov	magnetosphere adequate for GIC prediction?
	Yaroslav	Solicited talk
16:45 - 17:05	Kostarev Danila	Impact of space weather on pipelines in high latitude regions

17:05 - 17:25	<b>Belakhovsky Vladimir</b> , Pilipenko Vjacheslav, Sakharov Yaroslav, Selivanov Vasiliy	Extreme growth of GIC in power lines on the Kola Peninsula and in Karelia during 11 years of observations Online
17:25 - 17:45	Marchuk Roman, Mishin Vladimir, Klibanova Yuliya, Penskikh Yuri, Mikhalev Alexander	Features of development of geomagnetic activity and night sky airglow at mid-latitudes during the 20 Dec 2015 storm
17:45 - 18:00	Coffee break	

## Brief oral presentation of posters | Chair: Kubyshkina M.V.

GC2024- STP078	<b>Zotov Oleg</b> , Klain Boris, Kurazhkovskaya Nadezhda, Kurazhkovskii Alexander	Hysteresis cycles and invariance of the <i>Dst</i> index form during geomagnetic storm development
GC2024- STP004	<b>Kozyreva Olga</b> , Pilipenko Vyacheslav, Myagkova Irina, Belakhovsky Vladimir	Correspondence between the dynamics of the outer radiation belt, auroral oval, and ULF power
GC2024- STP035	<b>Demekhov Andrei</b> , Yahnina Tatyana, Popova Tatyana, Kalegaev Vladimir, Lubchich Andris, Ivanova Alexandra, Gruzdov Danil	Influence of wave properties on energetic charged particle precipitation during a magnetic storm of 10-16 October 2017
GC2024- STP037	<b>Yahnina Tatiana</b> , Demekhov Andrey, Kalegaev Vladimir, Bazilevskaya Galina, Gruzdov Danil, Ivanova Aleksandra	Dynamics of energetic electrons and protons precipitation according to data from low-orbit satellites of the NOAA/POES and Meteor M2 during a magnetic storm on October 10-16, 2017
GC2024- STP052	<b>Popova Tatyana</b> , Yahnina Tatyana, Demekhov Andrey	A study of the influence of geomagnetic field asymmetry on relativistic electron fluxes at low Earth orbit altitudes
GC2024- STP011	<b>Despirak Irina</b> , Kleimenova Natalia, Gromova Lyudmila, Lubchich Andris	Global location of the maximum of very intense substorms
GC2024- STP013	<b>Lubchich Andris</b> , Despirak Irina, Kleimenova Natalia, Setsko Pavel, Malysheva Lyudmila	Polar substorms and solar activity
GC2024- STP064	Kurazhkovskaya Nadezhda, <b>Klain Boris</b> , Kurazhkovskii Alexander	Effect of interplanetary conditions and auroral activity on intermittency regularities of <i>Pi3</i> irregular geomagnetic pulsations
GC2024- STP065	Kurazhkovskaya Nadezhda, <b>Klain Boris</b> , Kurazhkovskii Alexander	The effect of the carrier frequency decreasing of serpentine emission in the polar cap during weak geomagnetic activity

## **Main Conference Hall**

Magnetospheric dynamics, storms and substorms   Chair: Zolotova N.V.	Magnetospheric dvi	namics, storms and	substorms   C	Chair: Zolotova N.V
--	--------------------	--------------------	---------------	---------------------

09:30 - 09:50	<b>Myagkova Irina</b> , Shiroky Vladimir, Vladimirov Roman, Gadzhiev Ismail, Dolenko Sergey	Prediction of the state of the Earth's magnetosphere using machine learning in SINP MSU Space Weather Analysis Center
09:50 - 10:10	Erkaev Nikolai	Dayside magnetosheath properties related to the magnetic reconnection
10:10 - 10:30	<b>Tsyganenko Nikolai</b> , Semenov Vladimir, Erkaev Nikolai, Gubaidulin Nikita	Magnetic fields and electric currents around the dayside magnetopause as inferred from large sets of in situ data
10:30 - 10:50	Apatenkov Sergey	Space weather effects on low altitude satellite orbits
10:50 - 11:05	Coffee break	
Magnetospheric wav	es   Chair: Zolotova N.V.	
11:05 - 11:25	Nikitenko Alexander, Fedorenko Yuriy, Kleimenova Natalia, Gromova Liudmila, Malysheva Liudmila, Beketova Elena	Auroral hiss on Spitsbergen and "polar" substorms Online
11:25 - 11:45	<b>Mikhailova Olga</b> , Mager Pavel	The first experimental confirmation of the existence of a near-equatorial resonator for ionion hybrid modes in the magnetosphere
11:45 - 12:05	<b>Grach Veronika</b> , Demekhov Andrei	Interaction of Relativistic Electrons with Electromagnetic Ion-Cyclotron Wave Packets of a Finite Length
12:05 - 12:25	<b>Ismagilov Valery</b> , Kopytenko Yury	Investigation of Pc5 geomagnetic pulsations on two-dimensional network of stations
12:25 - 12:40	Coffee break	
Magnetospheric waves and Sun-Earth connections   Chair: Zolotova N.V.		
12:40 - 13:00	Vlasov Aleksandr, Kozlov	Determining the transverse structure of Alfvén

12.40 - 15.00	Daniil	waves recorded by the Van Allen Probes satellites by means of the "phase portraits" technique
13:00 - 13:20	<b>Semenov Vladimir</b> , Kubyshkin Igor, Kubyshkina Marina, Tsyganenko Nikolai, Erkaev Nikolai	The role of the ring current in the Dungey cycle from the point of view of Stokes' theorem

13:20 - 13:40	Paramonik Igor, Divin Andrey, Rumenskich Marina, Chibranov Aleksey, Shaikhislamov Ildar, Semenov Vladimir	The ions counterclockwise motion near the diamagnetic cavity edge
13:40 - 14:00	<b>Ragulskaya Maria</b> , Obridko Vladimir	24th and 25th cycles of solar activity: features and predictors  Online
14:00 - 15:00	Lunch break	

25.04.2024

## **Main Conference Hall**

## Ionosphere and atmosphere | Chair: Mironova I.A.

09:30 - 09:50	<b>Savelyeva Natalia</b> , Pilipenko Vyacheslav	Study of ionospheric variations before the great Tohoku earthquake in search of precursors of catastrophic earthquakes  Online
09:50 - 10:10	<b>Denisenko Valery</b> , Bakhmetieva Nataliya	The ionospheric electric field variations caused by the release of radon from the ground
10:10 - 10:30	<b>Liperovskaya Elena</b> , Rodkin Mikhail	Spatiotemporal features of seismoionospheric anomalies in the F-layer, Japan region
10:30 - 10:50	Kirillov Andrey	Electronically excited molecular nitrogen in the upper and middle atmospheres of Titan and Earth
10:50 - 11:05	Coffee break	
Ionasuhava and atmassuhava I Chaire Miranava I A		

## Ionosphere and atmosphere | Chair: Mironova I.A.

11:05 - 11:25	<b>Dashkevich Zhanna</b> , Ivanov Vladimir	Time dependent physicochemical model of ionospheric components excitation during auroral events
11:25 - 11:45	<b>Dashkevich Zhanna</b> , Ivanov Vladimir	Variation of the effective recombination coefficient during auroral electron precipitation
11:45 - 12:05	Klimov Pavel, Nikolaeva Vera, Shchelkanov Konstantin, Saraev Roman, Sigaeva Ksenia, Belov Alexander, Murashov Alexei, Kozelov Boris, Roldugin Alexei, Sharakin Sergei	UV-microbursts of atmospheric emission in auroral zone

12:05 - 12:25	<b>Kotikov Andrey</b> , Nikolaeva Vera, Klimov Pavel, Shchelkanov Kostantin	Geomagnetic conditions during UV-microbursts measurements by PAIPS photometer
12:25 - 12:40	Coffee break	
lonosphere and atmo	osphere   Chair: Divin A.V.	
12:40 - 13:00	Mironova Irina, Grankin Dmitry, Rozanov Eugene, Kalegaev Vladimir, Bazilevskaya Galina, Ivanova Alexandra, Yahnina Tatiana, Demekhov Andrey	Forced atmospheric-ionospheric effects by precipitation of energetic electrons during a magnetic storm on October, 2017
13:00 - 13:20	<b>Grankin Dmitry</b> , Mironova Irina, Rozanov Eugene	The response of the ionosphere and upper atmosphere to the energetic particles precipitation.
13:20 - 13:40	<b>Bessarab Fedor</b> , Kurdyaeva Yuliya, Borchevkina Olga, Klimenko Maxim	Spatial features of the ionospheric disturbance caused by a meteorological squall  Online
13:40 - 14:00	<b>Belyuchenko Kupriyan</b> , Klimenko Maxim, Ratovsky Konstantin, Vesnin Artyom, Klimenko Vladimir	Identification of spatial area that gives main contribution to positive storm-time response in high-latitude regional electron content
14:00 - 15:00	Lunch break	
Ionosphere and atmo	osphere   Chair: Divin A.V.	
15:00 - 15:20	<b>Medvedeva Irina</b> , Ratovsky Konstantin	Long-term variations in characteristics of upper neutral atmosphere and ionosphere from spectrometric and radio sounding measurements
15:20 - 15:40	<b>Larchenko Alexey</b> , Nikitenko Alexander, Lebed Olga, Fedorenko Yury	The influence disturbances in the ionosphere caused by electron precipitation on the propagation of VLF signals
15:40 - 16:00	<b>Pulinets Sergey</b> , Budnikov Pavel, Pulinets Maria	Identification and filtration of different sources of the ionosphere variability
16:00 - 16:15	Coffee break	
Brief oral presentation of posters   Chair: Mironova I.A.		
GC2024-	Potapov Alexander, Guglielmi	On ponderomotive acceleration of heavy ions in

magnetospheric plasma

On the dispersion properties of coupled Alfven

inhomogeneous model of the magnetosphere

and slow waves in two-dimensionally

STP066

GC2024-

STP027

Anatol, Feygin Felix

Petrashchuk Aleksandr,

Klimushkin Dmitri, Mager Pavel

16:21 - 16:24	<b>Veretenenko Svetlana</b> , Dmitriev Pavel	Long-term effects of solar activity on extratropical cyclone movement in different regions of the North Atlantic
GC2024- STP026	Titova Mariia	The technique of processing of radiotechnical and geophysical information about conditions of satellite radio signal propagation for studying lithospheric-ionospheric manifestations
GC2024- STP040	<b>Egorov Ivan</b> , Blagoveshchenskaya Nataly, Borisova Tatiana, Kalishin Aleksei	The features of small-scale artificial field-aligned irregularities, induced by the O- and X-mode HF pumping by the EISCAT/Heating facility
GC2024- STP044	<b>Ljubchich Vladimir</b> , Ivanov Nikita, Shapovalova Julia	Distortion of the results of impedance measurements interpretation on the Kola Peninsula due to the proximity of ionospheric sources of the natural electromagnetic field
GC2024- STP042	Denisenko Valery, Klimenko Maxim, Klimenko Vladimir, Anisimov Sergei, Frank- Kamenetsky Alexandr, Nagorskiy Petr, Pustovalov Konstantin, Pilipenko Viacheslav, Smirnov Sergey	Mathematical simulation of the atmospheric electric field disturbances caused by a magnetic storm
GC2024- STP010	<b>Mandrikova Oksana</b> , Fetisova Nadezhda	Analysis of the ionospheric parameter dynamics during increased geomagnetic activity and strong earthquakes in Kamchatka
GC2024- STP012	<b>Despirak Irina</b> , Setsko Pavel, Lubchich Andris, Sakharov Yaroslav, Selivanov Vasiliy	Large pulses of solar wind dynamic pressure and the appearance of intense GICs
GC2024- STP075	<b>Ostrovskii Victor</b> , Kadyshevich Elena	PFO-CFO Theory of Solar System Formation and Transformation: Foundation, method, explanations, proofs, and predictions

26.04.2024

#### **Main Conference Hall**

## New experiments and Methods | Chair: Zolotova N.V.

09:30 - 09:50	Mandrikova Oksana, <b>Mandrikova Bogdana</b>	Method for detecting sporadic manifestations of solar activity in cosmic ray variations
		Online
09:50 - 10:10	Svertilov Sergey	Multi-satellite constellation of Moscow university "Sozvezdie-270" for monitoring of space weather effects and electromagnetic transients

10:10 - 10:30	Bogomolov Vitalii	Solar gamma-ray spectrometers on MSU cubesats: experimental methodology and first results	
10:30 - 10:50	<b>Kholodkov Kirill</b> , Burov Vyacheslav, Kondratov Andrey, Aleshin Igor	Efforts of China-Russia Consortium at Global Aviation Space-Weather Service	
10:50 - 11:05	Coffee break		
Space climate and S	un-Earth connections   Chair: Semen	ov V.S.	
11:05 - 11:25	<b>Polukhina Sofia</b> , Kashapova Larisa	Limb Flare with Failed Eruption Online	
11:25 - 11:45	Gorbunova Ksenia	Two-dimensional hydrodynamic outflow from exoplanets	
11:45 - 12:05	<b>Vakhrusheva Anna</b> , Shugay Yulia, Kaportseva Ksenia, Eremeev Valeriy, Kalegaev Vladimir	Two-dimensional cone models of geoeffective coronal mass ejections	
12:05 - 12:25	Kadyshevich Elena, <b>Ostrovskii</b> <b>Victor</b>	Determining role of the solar protuberance activity in the Earth's climate current warming	
12:25 - 12:40	Coffee break		
Space climate and Sun-Earth connections   Chair: Semenov V.S.			
12:40 - 13:00	Riabova Svetlana	Geophysical effects caused by the flyby and explosive destruction of the fireball on September 02, 2023  Online	
13:00 - 13:20	<b>Vladimirov Roman</b> , Shirokiy Vladimir, Barinov Oleg, Dolenko Sergey, Myagkova Irina	Multistage time series forecasting algorithm based on machine learning methods used to forecast the state of the earth's magnetosphere	
13:20 - 13:40	Cherniakov Sergei	Winter effects of a night meteor explosion in high latitudes	
13:40 - 14:40	Lunch break		
Space climate and Sun-Earth connections   Chair: Semenov V.S.			
14:40 - 15:00	<b>Novikov Victor</b> , Sorokin Valery	Space weather and seismic activity: Possible triggering of earthquakes by strong solar flares of X-class  Online	
15:00 - 15:20	Kropotina Julia, Bykov Andrei	The impact of rotational discontinuities on ions acceleration at the Earth's bow shock	

15:20 - 15:40	<b>Kupriyanova Elena</b> , Mikhalchuk Agneshka	Quasi-periodic fast propagating wave trains as a seismological tool for plasma structures in the solar corona
15:40 - 16:00	Malkin Evgeniy, Cherneva Nina, Kazakov Evgeniy, Cherneva Veronika, Makhlai Dmitriy, Akbashev Rinat, Sannikov Dmitriy, Malkina Olga, Lichtenberger Janos, Koronczay David, Andreeva Marina	Recording of whistlers during Bezymyanniy and Shiveluch volcano eruptions
16:00 - 16:30	Discussion	
16:30 - 16:45	Conference closing	