

# U Plenary

22.04.2024

08:30 - 12:30 Participants registration

12:30 - 13:30 **Lunch break**

## Main Conference Hall

### Plenaries | Chair Vladimir Semenov

13:30 - 13:45 Conference opening

13:45 - 14:45 **Tatevossian Ruben** Macroseismic 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 O <sub>2</sub> 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	<b>Kriukovskikh Ekaterina</b> , 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	<b>Akishina Svetlana</b> , 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	<b>Smyshlyaev Sergei</b> , 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	<b>Lukianova Renata</b>	Formation of the extreme Arctic stratospheric polar vortex of winter 2019/2020 and related ozone loss

14:00 - 15:00      **Lunch break**

**Sightseeing trip to Kronstadt – from 15:00**

# PERM Paleomagnetism and Rock Magnetism

23.04.2024

Earth Phys Dept, Room 507

## Paleomagnetism I | Chair Alexei Didenko

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	<b>Pasenko Aleksandr</b> , 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	<b>Shcherbakova Valentina</b> , Zhidkov Grigoriy, Shcherbakov Valeriy, Afinogenova Natalia	Geomagnetic paleointensity at ~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	<b>Kazansky Alexey</b>	Rock-magnetic indicators of climate in subaerial deposits, how do they work? <b>Solicited talk</b>
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	<b>Peskov Aleksey</b> , 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	<b>Pozhidaeva Daria</b>	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 | Chair Vladimir Pavlov

15:40 - 16:00	Shcherbakov Valery, <b>Sycheva 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	<b>Kosterov Andrei</b>	When magnetite is truly magnetite?

24.04.2024

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

**Pilipenko Olga**, Markov Gennady, Tsetlin Yuri, Afinogenova Natalya

Thellier's experiments on artificial ceramics to determine the magnitude of the magnetic field

GC2024-  
PERM020

Shcherbakova Valentina, **Zhidkov Grigoriy**, Afinogenova Natalia

Ultralow geomagnetic paleointensity at ~2 Ga of Paleoproterozoic igneous rocks from the Ukrainian Shield

GC2024-  
PERM041

**Sirotn Kirill**, 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	<b>Meshcheriakova Olga</b> , 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 Iliia</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	<b>Kosareva Lina</b> , 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	<b>Elkina Daria</b> , 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- PERM059	Rudko Dmitrii, Zhang Rui, <b>Pavlov Vladimir</b>	Cyclostratigraphic study of the Upper Cambrian 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- PERM015	Golovanova Inessa, <b>Salmanova Raushaniya</b> , Danukalov Konstantin, Parfiriev Nikita	A cyclostratigraphic study of the Katav Formation, (Upper Riphean, Southern Urals)
GC2024- PERM027	<b>Danukalov Konstantin</b> , Golovanova Inessa, Parfiriev Nikita, Salmanova Raushaniya	Study of the morphology of geomagnetic reversals in the Late Riphean Katav Formation. New results

13:00 - 14:00

**Lunch break**

**Sightseeing trip to Kronstadt — from 15:00**

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

10:40 - 11:10

**Coffee break**

**Magnetostratigraphy | Chair Vladimir Vodovozov**

11:10 - 11:50	<b>Guzhikov Andrey</b>	Magnetostratigraphic method in geology: current state, problems and the ways to their solutions <b>Solicited talk</b>
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) <b>Online</b>

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 <b>Online</b>
14:10 - 14:30	<b>Vodovozov Vladimir</b>	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	<b>Doroshenkov Mikhail</b>	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 | Chair Andrei Kosterov**

16:00 - 16:20	<b>Sanchez Rodriguez Cesar Julio</b> , Merkurjev Sergei	Study of the structure and evolution of the axial zone of the Carlsberg Ridge
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16:20 - 16:40	<b>Starchenko Sergey</b>	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	<b>Riabova Svetlana</b>	Spectral analysis of geomagnetic field variations at the Eskdalemuir Observatory in the range of 2-41 years <b>Online</b>
17:20 - 17:50	General discussion, PERM section closing	

# 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, Osbornev Ivan, Osbornev 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	<b>Polovkov Viacheslav</b> , 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	<b>Ponassenko Svyatoslav</b>	Automated system for seismological monitoring
10:20 - 10:40	<b>Ponomarenko Andrey</b> , Stanyulis Alexander, Polovkov Viacheslav, Troyan Vladimir	On the geophone coupling function in marine research
10:40 - 11:05	<b>Coffee break</b>	
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 <b>Solicited talk</b> <b>Online</b>
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 <b>Solicited talk</b>
12:15 - 12:35	<b>Malyshekin 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      **Lobodenko Ivan**, 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 geophysics. Distributed acoustic sensing (DAS) | Chair Konstantin Kislov**

12:55 - 13:20      **Kislov Konstantin**

Fiber optics in geophysics. Distributed acoustic sensing (DAS)

Solicited talk

**Lunch break**

14:20 - 14:40      **Tezиков Artemii**, 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      **Ilnskiy Dmitry**, Gorshkov Boris, Simikin Denis

Application of a distributed acoustic measurement system for active and passive seismic studies

Solicited talk

15:20 - 15:40      **Belov Mikhail**, Tokarev Mikhail, Potemka Andrey

The Lomonosov Moscow State University experience in fiber optic sensors technology

**Coffee break**

**Distributed acoustic sensing & Poster viewing**

GC2024-SG047      Kislov Konstantin, Ashkar Georgy, Bengalskii Danil, Gravirov Valentin, **Kostenko Mikhail**, Kharasov Danil, Vasiliev Alexey, Treshchikov Vladimir

Demonstration of the capabilities of Distributed Acoustic Sensing technology

GC2024-SG013      Ashkar Georgy, Bengalskii Danil, **Gravirov Valentin**, Kislov Konstantin, Kostenko Mikhail, Kotov Andrey, Presnov Dmitry, Spiridonov Egor, Shurup Andrey

Full-Scale Testing of the Use of Distributed Acoustic Sensing (DAS) Technology to Determine Ice Cover Parameters

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 Maxim</b>	Performance of Seismic Observations by DAS Technology in Different Environments
16:55 - 17:15	<b>Coffee break</b>	
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	<b>Gravirov Valentin</b>	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	<b>Filippova Alena</b>	Seismic moment tensor: a review <i>Solicited talk</i>
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 <b>Online</b>
10:20 - 10:40	<b>Petrova Nataliya</b> , Gabsatarova Irina, Kurova Anna	Distance corrections to surface-wave magnitudes of Far East shallow earthquakes <b>Online</b>
10:40 - 11:00	<b>Fomochkina Anastasia</b> , 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 $M_w=7.0$ 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 <b>Online</b>
11:50 - 12:10	Burmin Valeriy, <b>Petrosyan Goharik</b>	Some Features of Earthquakes Distribution in Turkmenistan <b>Online</b>
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 ( $m_p=5.8$ ) in the Northern Tien Shan region
13:05 - 13:20	<b>Zvereva Anastasia</b> , Skorkina Anna	The relationship between $M_w$ and other magnitude scales for earthquakes of the North Caucasus
13:20 - 13:35	Zvereva Anastasia, <b>Klianchin Andrey</b>	Earthquake on January 24, 2024 in the in the region of Krasnodar city (North-West Caucasus) with $M_w=4.1$ , $I_0=4-5$

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	<b>Surkov Vadim</b>	Theoretical models of atmospheric and ionospheric anomalies that can be interpreted as earthquake precursors

14:05 - 15:00 **Lunch**

**Sightseeing trip to Kronstadt – from 15:00**

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
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**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
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**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
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**Online**

10:00 - 10:20	<b>Kozhevnikov Evgenii</b> , Turbakov Mikhail, Riabokon Evgenii, Guzev Mikhail, Qi Chengzhi, Li Xiaozhao	Comparative analysis of the reduction in permeability under loading in laboratory and field conditions
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**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
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**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
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**Online**

11:20 - 11:40	<b>Panteleev Ivan, 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 <b>Online</b>
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 <b>Online</b>
12:00 - 12:20	<b>Goev Andrey</b>	Upper mantle – classic ideas and new insights <b>Solicited talk</b>

### Earth's Structure | Chairs Andrey Goev & Vladimir Troyan

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 Alatau 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 <b>Solicited talk</b>
14:20 - 14:40	<b>Vakarchuk Roman</b>	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
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16:00 - 16:20	<b>Egorushkin Igor</b> , 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 <b>Online</b>
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	<b>Rodkin Mikhail</b>	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 <b>Online</b>
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	<b>Rodkin Mikhail</b>	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, Room 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	<b>Strelnikov Andrei</b>	Paleoseismological studies of the Jungal depression <b>Online</b>
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 <b>Online</b>



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) <b>Online</b>
13:00 - 13:20	<b>Morozov Alexey</b> , Asming Vladimir	Relocation of Early Instrumental Earthquakes in the Arctic <b>Online</b>

13:20 - 15:00 **Lunch break**

### Interpretation of Geophysical Fields | Chair Vladimir Troyan

#### 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 <b>Online</b>
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 <b>Online</b>
15:40 - 16:00	<b>Vishniakov Dmitrii</b> , Lygin Ivan	On correlation of magnetic field variations with large seismic events <b>Online</b>
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 <b>Online</b>

16:20 - 16:50 **Coffee break**

16:50 - 17:10	<b>Pashayan Romela</b>	Graphic representation of the parameters of hydrogeochemical composition of mineral water in central Armenia <b>Online</b>
17:10 - 17:30	<b>Zotov Leonid</b> , Sidorenkov Nikolay, Bizouard Christian	Chandler wobble changes in 2020s <b>Online</b>
17:30 - 17:50	<b>Riabova Svetlana</b>	Response of the upper ionosphere to the earthquake in the Sea of Japan on January 1, 2024 (preliminary results) <b>Online</b>
17:50 - 18:10	<b>Petrushov Andrey</b> , Smirnov Vladimir	Anomalies of RTL function and Gutenberg-Richter parameter preceding earthquakes in California

18:10 - 18:30

**Riabova Svetlana**, Shalimov  
Sergey

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: Apatenkov S.V.

09:00 - 09:20	<b>Lavrukhin Alexander</b> , Alexeev Igor	Aurora boundaries during magnetic storm
09:20 - 09:40	<b>Manina Alina</b> , 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	<b>Antonova Elizaveta</b> , Ovchinnikov Ilya, Naiko Daniil, Kirpichev Igor, Vorobjev Vyacheslav, Yagodkina Oksana, Stepanova Marina	Plasma sheet turbulence and topology of magnetospheric domains <b>Online</b>
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 Coffee break

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

12:10 - 12:30	<b>Shukhtina Maria</b> , Sergeev Victor, Nikolaev Alexander, Stepanov Nikita	Relationship between dipolarizations and Energetic Electron injections at the Geosynchronous orbit
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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>Ievlenko Igor</b> , Parnikov Stanislav	Dynamics of the proton aurora and current sheet in the magnetosphere. Ground-based and satellite observations
		<b>Online</b>

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

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

14:30 - 15:10	<b>Kalegaev Vladimir</b> , 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 <i>Solicited talk</i>
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 <b>Online</b>
15:30 - 15:50	<b>Ivanova Alexandra</b> , Kalegaev Vladimir, Basilevskaya Galina, Vlasova Natalia, Gruzdov Danil, Demekhov Andrey, Kaportseva Ksenia, Mironova Irina, Myagkova Irina, Shugay Yulia, Yahnina Tatyana	Features of energetic electron precipitation of different mechanisms from the outer radiation belt during geomagnetic disturbances

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

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

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

17:05 - 17:25      **Belakhovsky Vladimir**,  
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      **Zotov Oleg**, Klain Boris,  
Kurazhkovskaya Nadezhda,  
Kurazhkovskii Alexander      Hysteresis cycles and invariance of the *Dst* index  
form during geomagnetic storm development

GC2024-  
STP004      **Kozyreva Olga**, Pilipenko  
Vyacheslav, Myagkova Irina,  
Belakhovsky Vladimir      Correspondence between the dynamics of the  
outer radiation belt, auroral oval, and ULF power

GC2024-  
STP035      **Demekhov Andrei**, 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      **Yahnina Tatiana**, 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      **Popova Tatyana**, Yahnina  
Tatyana, Demekhov Andrey      A study of the influence of geomagnetic field  
asymmetry on relativistic electron fluxes at low  
Earth orbit altitudes

GC2024-  
STP011      **Despirak Irina**, Kleimenova  
Natalia, Gromova Lyudmila,  
Lubchich Andris      Global location of the maximum of very intense  
substorms

GC2024-  
STP013      **Lubchich Andris**, Despirak  
Irina, Kleimenova Natalia,  
Setsko Pavel, Malysheva  
Lyudmila      Polar substorms and solar activity

GC2024-  
STP064      Kurazhkovskaya Nadezhda,  
**Klain Boris**, Kurazhkovskii  
Alexander      Effect of interplanetary conditions and auroral  
activity on intermittency regularities of *Pi3*  
irregular geomagnetic pulsations

GC2024-  
STP065      Kurazhkovskaya Nadezhda,  
**Klain Boris**, Kurazhkovskii  
Alexander      The effect of the carrier frequency decreasing of  
serpentine emission in the polar cap during weak  
geomagnetic activity

24.04.2024

## Main Conference Hall

### Magnetospheric dynamics, storms and substorms | 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	<b>Erkaev Nikolai</b>	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	<b>Apatenkov Sergey</b>	Space weather effects on low altitude satellite orbits

### 10:50 - 11:05 Coffee break

### Magnetospheric waves | Chair: Zolotova N.V.

11:05 - 11:25	<b>Nikitenko Alexander</b> , Fedorenko Yuriy, Kleimenova Natalia, Gromova Liudmila, Malysheva Liudmila, Beketova Elena	Auroral hiss on Spitsbergen and "polar" substorms <b>Online</b>
11:25 - 11:45	<b>Mikhailova Olga</b> , Mager Pavel	The first experimental confirmation of the existence of a near-equatorial resonator for ion-ion 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	<b>Vlasov Aleksandr</b> , Kozlov Daniil	Determining the transverse structure of Alfvén 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	<b>Paramonik Igor</b> , Divin Andrey, Rumenskich Marina, Chibrarov 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 <b>Online</b>

14:00 - 15:00 **Lunch break**

**Sightseeing trip to Kronstadt — from 15:00**

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 <b>Online</b>
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	<b>Kirillov Andrey</b>	Electronically excited molecular nitrogen in the upper and middle atmospheres of Titan and Earth

10:50 - 11:05 **Coffee break**

#### 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	<b>Klimov Pavel</b> , 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
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12:25 - 12:40 **Coffee break**

**Ionosphere and atmosphere | Chair: Divin A.V.**

12:40 - 13:00	<b>Mironova Irina</b> , 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
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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.
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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
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**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
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14:00 - 15:00 **Lunch break**

**Ionosphere and atmosphere | 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
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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
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15:40 - 16:00	<b>Pulinets Sergey</b> , Budnikov Pavel, Pulinets Maria	Identification and filtration of different sources of the ionosphere variability
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16:00 - 16:15 **Coffee break**

**Brief oral presentation of posters | Chair: Mironova I.A.**

GC2024-STP066	<b>Potapov Alexander</b> , Guglielmi Anatol, Feygin Felix	On ponderomotive acceleration of heavy ions in magnetospheric plasma
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GC2024-STP027	<b>Petrashchuk Aleksandr</b> , Klimushkin Dmitri, Mager Pavel	On the dispersion properties of coupled Alfvén and slow waves in two-dimensionally inhomogeneous model of the magnetosphere
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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	<b>Titova Mariia</b>	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 Aleksi	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	<b>Denisenko Valery,</b> 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  <b>Online</b>
09:50 - 10:10	<b>Svertilov Sergey</b>	Multi-satellite constellation of Moscow university "Sozvezdie-270" for monitoring of space weather effects and electromagnetic transients

10:10 - 10:30	<b>Bogomolov Vitalii</b>	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 Sun-Earth connections | Chair: Semenov V.S.**

11:05 - 11:25	<b>Polukhina Sofia</b> , Kashapova Larisa	Limb Flare with Failed Eruption <b>Online</b>
11:25 - 11:45	<b>Gorbunova Ksenia</b>	Two-dimensional hydrodynamic outflow from exoplanets
11:45 - 12:05	<b>Vakhrusheva Anna</b> , Shugay Yulia, Kaportseva Ksenia, Ereemeev Valeriy, Kalegaev Vladimir	Two-dimensional cone models of geoeffective coronal mass ejections
12:05 - 12:25	Kadyshevich Elena, <b>Ostrovskii 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	<b>Riabova Svetlana</b>	Geophysical effects caused by the flyby and explosive destruction of the fireball on September 02, 2023 <b>Online</b>
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	<b>Cherniakov Sergei</b>	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 <b>Online</b>
15:00 - 15:20	<b>Kropotina Julia</b> , 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	<b>Malkin Evgeniy,</b> Cherneva Nina, Kazakov Evgeniy, Cherneva Veronika, Makhlai Dmitriy, Akbashev Rinat, Sannikov Dmitriy, Malkina Olga, Lichtenberger Janos, Koronczay David, Andreeva Marina	Recording of whistlers during Bezmyanniy and Shiveluch volcano eruptions
16:00 - 16:30	Discussion	
16:30 - 16:45	Conference closing	