

**XII International conference and school
“Problems of Geocosmos 2018”
CONFERENCE PROGRAM
General Schedule**

Monday, 08.10.2018

| | | |
|--------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|
| 09:00-13:00 | Registration – Institute of Physics, “Winter Garden” | |
| 11.00-13.00 | Section’s work – Small Conference Hall | Section STP. Solar-Terrestrial physics |
| 13:00-14:00 | Lunch break | |
| 14.00-14.10 | Conference opening - Conference Hall, Institute of Physics | |
| Invited Lectures. School. Conference Hall | | |
| 14.10-15.00 | Conference Hall | V.E.Pavlov, Invited talk |
| 15.00-15.50 | Conference Hall | I.N. Eltsov, Invited talk |
| 15.50-16.40 | Conference Hall | Vacant, Invited talk |
| 16.50-17.30 | Section’s work – Conference Hall | Section STP. Solar-Terrestrial physics, Poster presentations (Part I) |
| 17:30-20:00 | Ice-Breaking Party | |

Tuesday, 09.10.2018

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| 9.20-13.00 | Section’s work – Conference Hall | Section P. Paleomagnetism and Rock Magnetism |
| 10.00-14.00 | Section’s work - Small Conference Hall | Section STP. Solar-Terrestrial physics |
| 9.30-13.00 | Section’s work - Room 507 | Section EG. Exploration and Environmental Geophysics |
| 9.00-13.30 | Section’s work - Room 204 | Section S. Seismology |
| 13:00-15:00 | Lunch break | |
| 14.00-17.40 | Section’s work – Conference Hall | Section P. Paleomagnetism and Rock Magnetism |
| 15.00-18.00 | Section’s work - Small Conference Hall | Section STP. Solar-Terrestrial physics |
| 14.00-17.30 | Section’s work - Room 507 | Section EG. Exploration and Environmental Geophysics |
| 14.30-17.00 | Section’s work - Room 204 | Section S. Seismology |
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| Wednesday, 10.10.2018 | | |
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| Excursion | | |
| Thursday, 11.10.2018 | | |
| 09:30-13:00 | Section's work – "Winter Garden" | Section P. Paleomagnetism and Rock Magnetism. Poster viewing |
| 10:00-13:15 | Section's work - Small Conference Hall | Section STP. Solar-Terrestrial physics |
| 09.30-13.00 | Section's work - Room 507 | Section EG. Exploration and Environmental Geophysics |
| 13:00-14:00 | | Lunch-break |
| 14.00-18.00 | Section's work – Conference Hall | Section P. Paleomagnetism and Rock Magnetism |
| 14.20-18.00 | Section's work - Small Conference Hall | Section STP. Solar-Terrestrial physics |
| 14:00-18:00 | Section's work - Room 507 | Section EG. Exploration and Environmental Geophysics |
| Friday, 12.10.2018 | | |
| 9.20-13.00 | Section's work – Conference Hall | Section P. Paleomagnetism and Rock Magnetism |
| 13:00-14:00 | | Lunch-break |

Section P. Paleomagnetism and Rock Magnetism

Tuesday, 09.10.2018

Chair: Roman Veselovskiy

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| 09.20-09.40 | Shcherbakova V.V. , Veselovskiy R.V., Shcherbakov V.P., Zhidkov G.V., Smirnov M.A. | New 1.86 Ga paleointensity data from the Kola Peninsula intrusions, NE Fennoscandia |
| 09.40-10.00 | Sycheva N.K. , Shcherbakov V.P. | Computer modeling of Thellier and Wilson methods on SD grains carrying TRM and CRM |
| 10.00-10.20 | Maksimochkin V.I. , Grachev R.A., Tselebrovskiy A.N. | Experimental modeling of chemical magnetization in oceanic basalts and its properties |
| 10.20-10.40 | Tselebrovskiy A. N. , Maksimochkin V. I., Grachev R. A. | Structural transformations of titanomagnetite in natural basalts of the Red Sea during oxidation |
| 10.40-11.00 | Kazansky A.Yu. , Matasova G.G., Shchetnikov A. A., Filinov I. A. | Rock-magnetic and grain size data on the Quaternary multi-layered key section Tologoy (Buryatia, Russia) |
| 11.00-11.20 | Coffee break | |
| 11.20-11.40 | Stepanov I.A. , Kazansky A.Yu., Kosareva L.R., Rogov M.A., Tesakova E.M., Shchetpetova E.V. | Reconstruction of Jurassic sedimentary environments using rock-magnetic data in the Mikhaylovtsement reference section (Ryazan region, Russia) |
| 11.40-12.00 | Pechersky D.M. , Kazansky A.Yu., Kozlovskiy A.M., Kuzina D.M., Markov G.P. | Metallic iron in basaltic lava river from Maly Yenisei (Tuva, Russia): the results of thermomagnetic study |
| 12.00-12.20 | Belokon V.I. , Chibiryak E.V, Trofimov A.N., Dyachenko O.I. | Characteristics of the magnetic susceptibility of spin glasses |
| 12.20-12.40 | Afremov L.L. , Anisimov S.V. | Influence of stress' matrix on the inclusion deformation |
| 12.40-13.00 | Ermokhin K. M. | Interpretation of magnetic anomalies in conditions of presence of residual magnetization and other complications |
| 13.00-14.00 | Lunch break | |
| Chair: Andrei Kosterov | | |
| 14.00-14.40 | Gallet Y. , Yutsis- Akimova S., Fournier A., Genevey A., Troyano M., Livermore P., Le Goff M., Fortin M., Amirov S. | Rate and frequency of extreme geomagnetic field intensity variations |
| 14.40-15.00 | Savranskaia T. , Valet J.- P., Meynadier L., Bassinot F., Simon Q., | Beryllium and relative paleointensity signals during the last geomagnetic reversal |

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| | Bourlès D., Thouveny N. | |
| 15.00-15.20 | Parshin A.V., Tsirel V.S. , Rzhhevskaya A.K | Methodology for low flying aeromagnetic service with the use of UAV |
| 15.20-15.40 | Starchenko S.V. | Analytic scaling laws in planetary dynamo models |
| 15.40-16.00 | Yakovleva S.V. , Starchenko S.V. | Variations of energy and power for a potential geomagnetic field since 1840 |
| 16.00-16.20 | Coffee break | |
| 16.20-16.40 | Shcherbakov V.P. , Khokhlov A.V., Sycheva N.K. | Paradoxes in the latitude distribution of the geomagnetic field vector in the Brunhes chron |
| 16.40-17.00 | Ivanov S.A. , Merkuriev S.A. | Exploring the influence of the geomagnetic polarity time scale on results of the geochronological and geohistorical analysis of the marine magnetic anomalies |
| 17.00-17.20 | Petrova A.A. , Kopytenko Yu.A. | Identification of magnetic chrons by components of marine band anomalies |
| 17.20-17.40 | Merkuriev S.A. , Demina I.M., Ivanov S.A. | Preliminary estimation of the non-dipole part of the geomagnetic field in the quaternary period based on the investigation of marine magnetic anomalies on the Carlsberg Ridge |
| Thursday, 11.10.2018 | | |
| 09.30-13.00 | Poster viewing | |
| P1. | Maksimochkin V.I. , Sleptsova, Yu.V. Nekrasov A.N. | Determination of paleointensity of geomagnetic field on the volcanoes lavas of Kamchatka |
| P2. | Zhidkov, G.V. | Correction for a weak residual magnetic field in the furnace during the paleointensity determination by Thellier-Coe method |
| P3. | Gribov S.K. , Shcherbakov V.P., Aphinogenova N.A., Smirnov M.A. | Laboratory modeling of Thellier-Coe paleointensity determinations on rocks bearing TCRM |
| P4. | Aphinogenova N.A. , Smirnov M.A., Gribov S.K. | Magnetic mineralogy of samples with I-shaped Arai-Nagata diagrams |
| P5. | Kurazhkovskii A.Yu. , Kurazhkovskaya N.A., Klain B.I. | Rhythms of the paleointensity changes with characteristic times 5 and 1 ma |
| P6. | Pilipenko O.V. , Nachasova I.E., Markov G.P. | Arheomagnetic studies of Neolithic ceramics of Veksa archeological site (continuation) |
| P7. | Matasova G.G. , Shchetnikov A. A., Kazansky A.Yu., Filinov I. A. | Interrelations between the granulometric composition, magnetic properties and geochemical indicators in the subaerial deposits of the archaeological site "Tuyana" (Tunka Depression, Baikal region, Russia) |
| P8. | Fattakhova L.A. , Kosareva L.R., | Magnetic properties of soils from the Volga-Kama forest-steppe |

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| | Shinkarev, A.A. | |
| P9. | Vardanyan A.A. , Stakhovskaya R.Y. | Estimation of suitability of sediments of the section of Dzknagnet river for studying the fine structure of geomagnetic field. |
| P10. | Vardanyan A.A. , Stakhovskaya R.Y. | The possibility of determining the age of the Norashen section of lake Sevan |
| P11. | Degtyareva, E. | The first paleomagnetic and petromagnetic data of takyr deposits in west Turkmenistan |
| P12. | Kosareva L., Nurgaliev D., Krylov P., Kuzina D. , Antonenko V., Yusupova A., Vorob'ev V., Evtygin V. | The magnetic properties of Lake Turgoyak sediments (Chelyabinsk region, Russia) |
| P13. | Nurgaliev D., Kuzina D. , Krylov P., Kosareva L., Antonenko V., Yasonov P., Yusupova A. | Preliminary magnetic investigations of Lake Bolshoe Miassovo sediments (Chelyabinsk region, Russia) |
| P14. | Kuzina D. , Gilmetdinov I., Aupov R., Balabanov Yu., Kosareva L., Zorina S., Silantiev V., Davydov V. | Results of magnetic and paleomagnetic investigations of Babyi Kamen' section, Kemerovo region |
| P15. | Peskov A.Yu. | Magnetic properties of sedimentary rocks from Pionerskaya and Gorinskaya formations (junction zone between the Sikhote-Alin and Mongol-Okhotsk orogenic belts) |
| P16. | Konstantinov K.M. , Konstantinov, I.K. Ibragimov Sh. Z., Tomshin M.D., Jakovlev A. A. | Paleomagnetism of dolerite dikes of the Chara-Sinsk fault zone (Aldan block of the Siberian platform) |
| P17. | Konstantinov, I.K., Konstantinov K.M. , Tomshin M.D., Gladkochub D.P., Jakovlev A. A., Vasil'eva A.E. | Petro- and paleomagnetic characteristics of kimberlites and basites in the Kyutingde graben (northeastern Siberian platform) |
| P18. | Anosova M.B. , Latyshev A.V., Khotylev A.O. | Paleomagnetic, rock-magnetic and geochemical properties of the Riphean intrusive bodies of the northern part of the Bashkirian megazone (the southern Urals) |
| P19. | Shatsillo A., Rudko D. , Rudko S., Latysheva I., Kuznetsov N. | Neoproterozoic glacial deposits of Siberia: the pros and cons of snowball Earth hypothesis |
| P20. | Vinogradov E.V. , Metelkin D.V., Abashev V.V. | Petromagnetism and paleomagnetism of the Ediacaran sediments of the Yenisei Ridge Vorogovka series |
| P21. | Zverev A.R. , Vodovozov V.Yu. | Paleomagnetism of the early Proterozoic basite complexes of the Olekma block of the south of the Siberian craton |
| P22. | Tselmovich V.A., Kuzina D.M. , Nourgaliev D.K., Garin E.V., Philippov D.A. | Morphology and composition of fossil cosmic dust from various sources |
| P23. | Peskov A.Yu. , Chakov V.V., Klimin M.A., | Petromagnetic and microprobe studies of peat deposits (preliminary results) |

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| | Krutikova V.O., Zakharchenko E.N., Arkhipov M.V., Didenko A.N. | |
| P24. | P.V. Kharitonskii , A. Kosterov, I.M. Berestnev, E.S. Sergienko | Magnetic properties of bricks: superparamagnetism and presence of high-coercivity-low-unblocking-temperature magnetic phase |
| P25. | A. Kosterov , E. Sergienko, A. Iosifidi, S. Yanson | High-field hysteresis and low-temperature magnetic properties of hematite- and goethite-bearing sediments |
| P26. | E.S. Sergienko , S.Yu. Yanson, I.A. Vasilyeva, M.S. Lozhkin, A. Kosterov, P.V. Kharitonskii | Applying the magnetic force microscopy to evaluate the magnetic states in rocks |
| P27. | Pechersky D.M., Markov G.P. | The average size of iron particles vs. the ages of lunar basalts |
| P28. | Demina I., Gorshkova N., Ivanov S., Merkurjev S. | The subduction zones effect on the structure of the small-scale currents at core-mantle boundary. |
| P29. | Kuzmicheva M.Yu. | Earth's crater magnetic anomalies: numerical modeling of simple craters |
| P30. | Sorokin A.G. | Checking the dimensions of coulomb's law for stationary magnetic field and the determination of the distances to the elementary sources in magnetometry |
| P31. | Karimov F.H. | The aggregation of superparamagnetic particles under in-phase and antiphase oscillations of their magnetic moments |
| 13.00- 14.20 | Lunch break | |
| Chair: Vladimir Pavlov | | |
| 14.20- 14.40 | Peskov A.Yu. , Arkhipov M.V., Kudymov A.V., Didenko A.N. | Paleomagnetism of the Pionerskaya Formation; contribution to the geodynamic model of the Sikhote-Alin orogenic belt |
| 14.40- 15.00 | Guzhikova A.A., Guzhikov A.Yu. , Manikin A.G., Grishchenko V.A. | Upper Cretaceous magnetostratigraphy of Lower Volga region |
| 15.00- 15.20 | Gnibidenko Z.N. , Levicheva A.V., Semakov N.N., Marinov V.A. | The Upper Cretaceous paleomagnetic investigation of northeast of Western Siberia |
| 15.20- 15.40 | Grishchenko V.A. , Guzhikov A.Yu., Manikin A.G. | Preliminary composite magnetostratigraphic section of the Valanzhinian of the Crimean Mountains |
| 15.40- 16.00 | Fetisova A.M. , Veselovskiy R.V., Mamontov D.A. | Analogue of the Nedubrovo anomalous remanence in the Zhukov Ravine section, Russian basin: the evidence for unusual behavior of geomagnetic field before Permian-Triassic boundary |
| 16.00- 16.20 | Coffee break | |

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| 16.20-16.40 | Latyshev A.V. , Ulyahina P.S., Krivolutskaya N.A. | Anisotropy of magnetic susceptibility in the Permian-Triassic intrusions from the northwestern Siberian platform: implications for the magma transport patterns |
| 16.40-17.00 | Iosifidi A.G. | Estimation of the position of arch. Novaya Zemlya at the Permian time according to paleomagnetic data |
| 17.00-17.20 | Fedyukin I.V. | Tectonic and geological restrictions on developing APWP for north Eurasian plate in Permian time |
| 17.20-17.40 | Iosifidi A.G. , Sergienko E.S., Salnaia N.V., Otmas N.M., Zuravlev A.V., Mikhailova V.A., Popov V.V., Danilova A. V. | Paleomagnetic studies of Carboniferous deposits of the Russian Platform |
| 17.40-18.00 | Kirguez A.A. , Konstantinov K. M., Vasil'eva A.E. | Petromagnetic legend of the basis of the eastern board of the Tungus syncline |
| Friday, 12.10.2018 | | |
| Chair: Alexei Kazansky | | |
| 09.20-09.40 | Golovanova I.V. , Danukalov K.N., Sergeeva N.D., Sal'manova R.Yu., Khatapov S.S. | Paleomagnetism of Ordovician-Silurian volcanic rocks on the western slope of the South Urals |
| 09.40-10.00 | Golovanova I.V. , Danukalov K.N., Kosarev A.M., Sal'manova R.Yu. | Paleomagnetism of Paleozoic rocks of the eastern slope of the South Urals |
| 10.00-10.20 | Chmerez V.S., Pavlov V.E. , Rudko D.V. | First magnetostratigraphic data on the Upper Cambrian of the key section of the Chopko river (NW Siberian platform) |
| 10.20-10.40 | Rudko D. , Rudko S., Shatsillo A., Kuznetsov N. | Cyclostratigraphic analysis of Lopata formation (NE of Enisey ridge, western Siberian platform): more on hyperactivity of geomagnetic field in the late Precambrian |
| 10.40-11.00 | Pasenko A.M. , Malyshev S.V. | Paleomagnetism of the Udzha and Olenek uplifts, northern Siberia |
| 11.00-11.20 | Coffee break | |
| 11.20-11.40 | Veselovskiy R.V. , Samsonov A.V., Stepanova A.V., Sal'nikova E.B., Larionova Yu.O., Travin A.V., Arzamastsev A.A., Egorova S.V., Erofeeva K.G., Stifeeva M.V., Esenkov A.A., Chistyakova A.V. | Four independent isotopic geochronometers in Paleoproterozoic dolerites from the Kola Peninsula as the basis for the new ~1.86 Ga Fennoscandian key paleomagnetic pole |
| 11.40-12.20 | Lubnina N.V. , Tarasov N.A., Zakharov V.S. | Paleoproterozoic trends of remagnetization for the Karelian craton: myth or reality |

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| 12.20- 12.40 | Vodovozov V.Yu. , Zakharov V.S., Zverev A.R., Travin A.V. | Date of TRM of granite batholith: is it possible? |
| 12.40- 13.00 | Lubnina N.V. , Tarasov N.A. | Key early Paleoproterozoic 2.45 Ga paleomagnetic pole for the Karelian craton: further paleomagnetic evidences |

Section STP. Solar Terrestrial Physics

Monday, 8.10.2018

Space climate

Chair: Andreeva V.A.

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| 11.20-11.40 | Karagodin A. , Freeman M., Lam M., Rozanov E., Mironova I. | By IMF and cloud radiative properties affects to the polar tropospheric pressure through the ionospheric potential impact to GES |
| 11.40-12.00 | Ogurtsov M. , Jungner H. | New evidence of solar influence on climate of North Atlantic and Northern Fennoscandia |
| 12.00-12.20 | Ivannikova E. , M. Kruglyakov, A. Kuvshinov, L. Rastätter, A. Pulkkinen | An approach to regional three-dimensional modelling of ground electromagnetic field variations during space weather events using results of magnetohydrodynamic modelling of the Earth's magnetosphere and ionosphere |
| 12.20-12.40 | Avakyan S. , Nicvol'skii G. | Depression of the total flux of solar electromagnetic radiation during the generation of relativistic protons of solar cosmic rays |
| 12.40-13.00 | Veretenenko S. , Ogurtsov M. | Manifestation of 60-year climatic cycle in correlation links between solar activity and the lower atmosphere circulation |
| 13.00-14.00 | | Lunch break |
| 14:00–16:50 | Invited Lectures. School. Conference Hall | |
| 16.50-17.30 | | Poster presentations (part I). ##P1-P19. Two-minutes talks with brief .ppt or .pdf presentation. |
| 17.30-20.00 | | Ice-Breaking Party |

Tuesday, 9.10.2019

Magnetospheric waves

Chair: Gordeev E.I

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| 10.00-10.20 | Fedorov E. , Pilipenko V. | Electromagnetic fields of magnetospheric ULF disturbances in conjugate ionospheres: Current/voltage dichotomy |
| 10.20- | Petlenko A. | Localization of ionosphere sources of high-latitude geomagnetic pulsations in 2D field distributions |

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| 10.40 | | |
| 10.40-11.00 | Demekhov A. , Demekhov A., Manninen J., Santolík O., Titova E. | Conjugate ground-spacecraft observations of VLF chorus elements |
| 11.00-11.20 | Kostarev D. , Mager P., Klimushkin D. | The drift-compression modes in the magnetospheric plasma |
| 11.20-11.40 | Mager O. , Chelpanov M., Mager P., Klimushkin D., Bergardt O. | Simultaneous observations of a compressional Pc5 wave By EKB radar in the Ionosphere and By Van Allen probes in the Magnetosphere |
| 11.40-12.10 | Semenov V. , Kubyshkina M., Kubyshkin I., Erkaev N., Gordeev E., Shukhtina M., Sergeev V. | Alfvén waves as a driver for magnetospheric dynamics |
| 12.10-12.30 | | Coffee break |

Magnetotail

Chair: Gordeev E.I

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| 12:30-13:00 | Sergeev V. , Tsyganenko N., Gordeev E., Merkin V., Sitnov M., Angelopoulos V., Runov A. | Advances in magnetotail monitoring during substorms |
| 13:00-13:20 | Dubyagin S. , Ganushkina N.Y. | The electron energy spectra on the nightside ($r = 6-11 R_e$) during geomagnetic storms |
| 13.20-13.40 | Shukhtina M. , Gordeev E., Sergeev V. | Inner magnetosphere reconfiguration during the substorm growth phase |
| 13.40-14.00 | Rubtsov A. , Mager P., Klimushkin D. | Ballooning instability of coupled MHD modes in 2D model of the magnetosphere |
| 14.00-15.00 | | Lunch break |

Magnetotail and Sun-Earth Connections

Chair: Apatenkov S.V.

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| 15.00-15.20 | Kozlov D. , Leonovich A. | The stability of the low-latitude boundary layer of the geomagnetic tail |
| 15.20-15.40 | Zaitsev I. , Divin A., Semenov V. | Acceleration of cold ion component at the separatrices during collisionless magnetic reconnection. |
| 15.40-16.00 | Korovinskiy D. , Kubyshkina M., Semenov V., Kubyshkina D., Erkaev | On application of asymmetric Kan-like exact equilibria to the Earth magnetotail modeling |

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| | N., Ivanov I., Kiehas S. | |
| 16.00-16.20 | Vokhmyanin M. , Stepanov N., Sergeev V. | Verification of the OMNI database using PC index |
| 16.20-16.40 | Andreeva V. , Tsyganenko N. | Empirical magnetospheric models for SIR- and CME-driven magnetic storms |
| 16.40-17.00 | | Coffee-break |
| 17.00-18.00 | | Poster viewing |

Thursday, 11.10.2018

Radiation belts and Ionosphere

Chair: Vokhmyanin M.V.

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| 10.00-10.20 | Ievenko I. | Observation of the proton aurora dynamics and the SAR arc occurrence as a consequence of the intense convection and substorm |
| 10.20-10.40 | Popova T. , Lyubchich A., Demekhov A., Yahnin A. | Pitch-angle diffusion of energetic protons upon their interaction with EMIC waves: comparison of THEMIS data on wave spectra and energetic particles |
| 10.40-11.00 | Kopytenko Yu. , Chernous S., Petrova A., Filatov M., Petrishchev M. | Changes in the position of the auroral oval under conditions of displacement of the Earth's magnetic pole |
| 11.00-11.20 | Timofeev E. , Shalimov S., Vallinkoski M., Kangas J. | Spatial-temporal characteristics and physical nature of thermal anomaly diagnosed by the EISCAT radar within the dusted nightside auroral dynamo layer |
| 11.20-11.40 | | Coffee-break |

Ionosphere and Space Climate

Chair: Mironova I.A.

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| 11.40-12.00 | Kudryavtsev I. , Dergachev V. | Younger Dryas and radiocarbon data |
| 12.00-12.20 | Remenets G. , Suhovey M., Shishaev V. | Diurnal variations of the bottom edge of the Ionosphere during the proton precipitations on and after 29 September, 1989 |
| 12.20-12.40 | Vahnina V. , Dubinin M., Kozub A. | Criteria for vulnerability of power transformers electric power systems with perturbation of cosmic weather |
| 12.40-13.00 | Mingalev I. , Orlov K., Mingalev V., Chechetkin V., Mingalev O. | A numerical model of the horizontal and vertical wind in the Earth's atmosphere and its improvements |
| 13.00-13.30 | | Poster presentations (part II). ##P20-P38. Two-minutes talks with brief .ppt or .pdf presentation. |

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| 13.30-14.20 | | Lunch break |
| Ionosphere | | |
| Chair: Mironova I.A. | | |
| 14.20-14.40 | Fetisova N. , Mandrikova O., Polozov Yu. | Modeling and analysis of ionospheric critical frequency data on the basis of a multicomponent model |
| 14.40-15.00 | Martines-Bedenko V. , Pilipenko V., Zakharov V. | In search of disturbances of the upper ionosphere and geomagnetic field above hurricanes as observed by Swarm satellites |
| 15.00-15.20 | Belakhovsky V. , JinY.u, Miloch W. | Influence of different ionospheric disturbances on the GPS scintillations at high latitudes |
| 15.20-15.40 | Mocnik K. | Updating 'Classical-Physics': Experimental proof of both non-existence of Empty space Photons moving through it |
| 15.40-16.00 | Miroshnichenko L. | Солнечные протонные события в природных архивах: Проблемы изучения и физические ограничения |
| 16.00-18.00 | | Poster viewing |
| Posters | | |
| Space climate | | |
| P1. | Golubenko K. , Mironova I., Rozanov E., Artamonov A. | Analysis of chemical components of polar winter atmosphere during relativistic electron precipitation |
| P2. | Kurazhkovskaya N. , Klain B., Yelagina I. | Intermittency statistics of high-latitude geomagnetic pulsations Pi2 |
| P3. | Kurazhkovskaya N. , Klain B. | Effect of the solar wind and IMF parameters on polarization characteristics of high-latitude geomagnetic impulses (MIES) |
| P4. | Maurchev E. , Mikhalko E., Germanenko A., Balabin Yu. | Validation of the results of modeling the passage of cosmic rays through the earth's atmosphere by experimental data |
| P5. | Maurchev E. , Balabin Yu., Gvozdevsky B., Mikhalko E., Hermanenko A., Belakhovsky V. | Numerical methods in the problem of studying the effect of cosmic rays on the earth's atmosphere |
| P6. | Danilova O. , Tyasto M., Sdobnov V. | Cosmic ray cutoff rigidity changes caused by the disturbed geomagnetic field of the storm in June 2015 |
| P7. | Semenova N. , Yahnina T., Yahnin A., | Dependence of Energetic Proton Precipitation Equatorward of the Isotropy Boundary on Geomagnetic |

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| | Demekhov A. | Activity |
| P8. | Sokolov S. , Soldatov V., Koshelevsky V. | Geomagnetic disturbances with sudden and gradual commencements in 1869-1954 according to observatory data and catalogs of storms |
| P9. | Vokhmyanin M. , Ponyavin D., Zolotova N. | Long-term north-south asymmetry of the solar magnetic field |
| P10. | Yagodkina O. , Vorobjev V., Yagodkina O., Antonova E., Zverev V. | Influence of Solar Wind Plasma Parameters on the Intensity of Isolated Magnetospheric Substorms |
| P11. | Yahnina T. , Yahnin A., Semenova N. | Relativistic Electron Precipitation and Geomagnetic Activity |
| P12. | Zalyaev T. , Mandrikova O., Mandrikova B. | Analysis of neutron monitors data during the periods of heliospheric disturbances |
| P13. | Zolotova N. , Vokhmyanin M. | Reconstruction of parameters of the solar activity in XVII century |
| P14. | Zotov O. , Klain B., Kurazhkovskaya N. | Trigger regime of the magnetosphere dynamics in the solar activity cycle |
| Magnetosphere | | |
| P15. | Apatenkov S. , Dubyagin S., Ganushkina N., Gordeev E. | Energetic particle scattering in GMHD current sheets |
| P16. | Belyaev R. , Divin A., Semenov V., Zaytsev I. | On correlation between local crustal magnetic field of the Moon and ion reflection |
| P17. | Cherneva N. , Firstov P., Akbashev R., Malkin E. | Perspectives of monitoring of atmospheric electric field in the central part of Kamchatka peninsula to detect atmospheric-electric effects from volcanic eruptions |
| P18. | Demina I. , Ptitsyna N., Tyasto M. | The contribution of the Earth's main magnetic field variations to auroral activity in 1600-1909 |
| P19. | Demina I. , Ptitsyna N., Danilova O., Tyasto M. | The latitude and longitude distributions of cosmic ray cutoff variations during the main phase of the magnetic storm in November 2003 |
| P20. | Despirak I. , Kozelova T., Kozelov B., Llubchich A. | THEMIS and main camera system observations - a case study |
| P21. | Despirak I. , Kleimenova N., Guineva V. | Comparison of different latitude substorms during two large magnetic storms |
| P22. | Divin A. , Semenov V., Zaytsev I. | Collisionless magnetic reconnection: 3D structure of jet fronts in the presence of a guide field |
| P23. | Dovbnya B. , Klain B. | On the similarity of the serpentine emission spectra at geomagnetic poles |
| P24. | Dovbnya B. , Klain B., Kurazhkovskaya N. | Statistical study of the effect of the substorm activity on the formation of noise ULF emissions in the frequency range (0 – 7) Hz |

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| P25. | Dovbnya B. , Klain B., Kurazhkovskaya N. | Some peculiarities of the diurnal, seasonal and cyclic variations of mid-latitude ULF emissions with resonance structure of the spectrum |
| P26. | Guglielmi A. , Kozyreva O. | The influence of foreshock orientation on the polar cusps oscillations |
| P27. | Ievenko I. , Parnikov S., Baishev D. | Eastward propagation of the Pc1 waves along the plasmopause according to observation of the dynamics of proton aurora and SAR arc |
| P28. | Kozyreva O. , Pilipenko V., Soloviev A. | Virtual magnetograms – new tool for the study of solar wind-magnetosphere coupling |
| P29. | Liubchich A. , Despirak I., Kleimenova N. | Large-scale types of the solar wind and appearance of magnetic substorms |
| P30. | Smolin S. | The simple analytical description for relativistic (>2 MeV) electron flux at geosynchronous orbit |
| P31. | Smolin S. | Ring current proton dynamics driven by wave-particle interactions during a nonstorm period |
| P32. | Rubtsov A. , Agapitov O., Mager P., Klimushkin D., Mager O. | Pc5 compressional event observed with THEMIS: spatio-temporal structure, wave-particle interactions |
| P33. | Yahnin A. , Manninen J., Raita T., Yahnina T., Titova E., Demekhov A. | Simultaneous observations of EMIC and VLF waves during multiple magnetosphere compressions |
| P34. | Parkhomov V., Yahnin A. , Borodkova N., Tsegmed B., Raita T., Khomutov S., Pashinin S., Chilikin V., Mochalov A. | Two types of the magnetosphere response to the interaction with interplanetary shocks in the geomagnetic pulsations Psc |
| Ionosphere | | |
| P35. | Cherniakov S. , Turyansky V. | Definition of temperature and sonic speed values at the mesospheric heights from variations of partial reflection radar signals |
| P36. | Losseva T. , Golub' A., Lyakhov A., Kosarev I. | Ionospheric disturbance caused by radiation of Chelyabinsk bolide flight |
| P37. | Maltseva O. , Bezvytnyj S., Morozov B., Shilov D., Shmelev J. | Elements of forecasting of space weather and ionospheric parameters |
| P38. | Shmelev Yu. , Blagoveshchensky D., Sergeeva M. | Ionosphere characteristics during similar geomagnetic events |
| P39. | Avakyan S.V. , Baranova L.A | How does the geocosmos control the biosphere? Formation of associates in high deluted water biosolutions under the influence of the microwave flux from the ionosphere |
| P40. | Avakyan S.V. , Baranova L.A | How does the geocosmos control the biosphere? DNA, ionospheric microwaves and water |

Section EG. Exploration and Environmental Geophysics

Tuesday , 9.10.2018, room 507

Morning session, 9.30 – 13.00

Chair: Dr. N.Yu. Bobrov

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|-------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 9.30-9.50 | Goglev D.A., GEOSCAN | The experience of low-altitude magnetic survey using unmanned complex GEOSCAN 401 |
| 9.50-10.10 | Vorobeva G.R., Ufa State Aviation Technical University | About the influence of geomagnetic activity on metrological characteristics of magnetic inclinometric systems |
| 10.10-10.30 | Shmurak Denis, Lomonosov Moscow State University | Seismoacoustic tomography on jet grouting |
| 10.30-10.50 | Alexey Vdovin, Institute of geophysics UB RAS | Possibilities of three-component geoacoustic logging at hydrocarbon deposits |
| 10.50-11.20 | Coffee break | |
| 11.20-11.40 | Alexey Vdovin, Institute of geophysics UB RAS | Investigation of signals of geoacoustic emissions and electromagnetic radiation in exploration and deep wells |
| 11.40-12.00 | Chernova E.S., Novosibirsk State University | Research of physico-chemical properties of reservoir fluids by nmr-relaxometry method |
| 12.00-13.00 | Poster presentations (about 5 minutes for one poster) | |
| | Zhamaletdinov A.A., SPbF of IZMIRAN | New data on the nature and structure of the Ladoga anomaly from DC and AMT research |
| | Shevtsov A.N., Geological Institute KSC RAS | Influence of displacement currents on the results of frequency soundings on the example of the results of the experiment "Kovdor 2015" |
| | Shevtsov A.N., Geological Institute KSC RAS | The solution of the 2-dimensional inverse MESD problem on the Selivanov-Hiitola-Sortavala-Suistamo (Northern Ladoga) |
| | Gerasimova A.A., Institute of Geology, Karelian Research Centre, RAS | Analysis of the effect of environmental factors on the disease incidence of Petrozavodsk residents, based on emergency call data |
| | Gorokhov I.V., Togliatti State University | Lithospheric current sources and their impact on power grids |
| | Moroz Yu.F., Institute of Volcanology and Seismology FEB RAS | Deep Electric Conductivity of the Avacha-Koryakskiy Group of Volcanoes, Kamchatka |
| | Samoylova O.M., Institute of volcanology and seismology FEB RAS | Peculiarities in geoelectrical structure of Kamchatka east coast |
| | Astapenko V.N., Research and Production Centre for Geology, Minsk, Belarus | Basic 3-D Geoelectric Model of the Lithosphere of Belarus |
| | Kushnir A.N., Subbotin Institute of Geophysics, NAS, Ukraine | MT/MV studies of the Kirovograd anomaly of electric conductivity in the southern of the Deniper-Donetsk basin slope |
| | Kushnir A.N., Subbotin Institute of | Deep magnetotelluric sounding of the northern part of the Scythian plate |

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| | Geophysics, NAS, Ukraine | |
| | Burakhovych T.K., Subbotin Institute of Geophysics, NAS, Ukraine | Recent research of geophysical parameters of the lithosphere platform regions |
| | Ermolin E.Yu., GM-Service LTD | The way of the host medium influence correction in the express-interpretation of 2D magnetovariational anomalies |
| | Sapozhnikov B.G., Institute of Environmental Geoscience RAS, SPb Division | Feynman corrective electrical field |
| | Hachay O., Institute of Geophysics UB RAS | On necessity of geological environment model complication for monitoring its state and forecast its stability |

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| 13.00-14.00 | Lunch | |
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Tuesday , 9.10.2018, room 507
Evening session, 14.00 – 17.30

Chair: Dr. A.K. Saraev

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| 14.00-15.00 | Poster viewing | |
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| 15.00-15.30 | Coffee break | |
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| 15.30-15.50 | Osipova P.S., Trofimuk Institute of Petroleum Geology and Geophysics SB RAS | The influence of the daily temperature on resistivity of sulfide mine tailings |
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| 15.50-16.10 | Riabova S.A., Institute of Geospheres Dynamics of RAS | Influence of Moscow megacity on near-surface electric field variations |
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| 16.10-16.30 | N.Yu.Bobrov, Saint-Petersburg State University | Transient electromagnetic soundings of magnetically viscous rocks in the Zhamanshin impact crater |
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| 16.30-17.00 | Discussion | |
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Wednesday, 10.10.2018
Excursions

Thursday, 11.10.2018, room 507
Morning session, 9.30 – 13.00

Chair: Dr. A.K. Saraev

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| 9.30-9.50 | Ermolin E.Yu., GM-Service LTD | Distortion of local magnetovariational anomalies by effect of regional structures |
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| 9.50-10.10 | Plotkin V.V., Trofimuk Institute of Petroleum Geology and Geophysics SB RAS | About the role of the Hall effect in magnetotelluric sounding |
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| 10.10-10.30 | Zhamaletdinov A.A., SPbF of IZMIRAN | Experiment "Murman-2018" on the study of the deep geoelectric boundaries in the Earth's crust with the use of DC and induction sounding methods |
| 10.30-10.50 | Ismagilov V.S., SPbF IZMIRAN | Natural ULF perturbations of the electric field in coastal zones |
| 10.50-11.20 | Coffee break | |
| 11.20-11.40 | Vorobev A.V., Ufa State Aviation Technical University | Statistical relationships between variations of the geomagnetic field, auroral electrojet, and geomagnetically induced currents |
| 11.40-12.00 | Plotkin V.V., Trofimuk Institute of Petroleum Geology and Geophysics SB RAS | About measurement of vertical component of electric field in magnetotelluric sounding |
| 12.00-12.20 | Zhamaletdinov A.A., SPbF of IZMIRAN | On the boundary between the brittle and ductile parts of the Earth's crust |
| 12.20-12.40 | Ulybyshev I.S., Institute of Volcanology and Seismology FEB RAS | Deep geophysical model of the area between Shanuch copper-nickel deposit and Aginskoye gold deposit in Kamchatka |
| 12.40-13.00 | Poster viewing | |
| 13.00-14.00 | Lunch | |
| Thursday, 11.10.2018, room 507 Evening session, 14.00 – 18.00 | | |
| Chair: Dr. N.Yu. Bobrov | | |
| 14.00-14.20 | Desyatov D.O., Lomonosov Moscow State University | New magnetotelluric study of the deep structure of the South-western Crimea |
| 14.20-14.40 | Ermolin E.Yu., GM-Service LTD | The features of dead band AMT signal in Chukotka region |
| 14.40-15.00 | Antashchuk Ksenia, SPbSU Institute of Earth sciences | Structure of the Northern part of South-Onega syncline basing on AMT, gravity and magnetometry data |
| 15.00-15.20 | Ermokhin K.M., SPbF IZMIRAN | Joint interpretation of geophysical and geochemical fields based on their analytical continuation down. |
| 15.20-15.50 | Coffee break | |
| 15.50-16.10 | Ermokhin K.M., SPbF IZMIRAN | Experimental verification of method for measuring the effects of induced polarization of deep objects in natural electromagnetic fields |
| 16.10-16.30 | Skorokhodov A.A. Geological Institute KSC RAS | 2D modeling of AMT data on the Ladoga and Pechenga structures |
| 16.30-16.50 | Zhamaletdinov A.A., SPbF of IZMIRAN | On the nature of the Ladoga conduction anomaly - graphites and (or) fluids? |
| 16.50-17.30 | Discussion | |

Section S. Seismology

Tuesday, 09.10.2018

Chair: Tatiana Yanovskaya

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|-------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 09.00-09.20 | Nesterenko M.Yu. | Natural and technogenic seismic and geodynamic activity of the Southern Urals |
| 09.20-09.40 | Fedorenko I.V. | New data about low magnitude seismicity of the Gakkel Ridge on the data of continuous regional monitoring |
| 09.40-10.00 | Polets A.Yu. | Analysis of the Spatial Distribution of the Earthquake Focal Mechanisms in the Kuril-Okhotsk Region |
| 10.00-10.20 | Zakharov V.S. , Didenko A. N., Gil'manova G.Z., Merkulova T.V. | Self-similarity analysis of earthquakes and active faults within the Sikhote-Alin orogenic belt and neighboring areas |
| 10.20-10.40 | Coffee break | |

Chair: Vladimir Troyan

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| 10.40-11.00 | Seredkina A.I. | Deep velocity structure of the Arctic region from Rayleigh wave dispersion data |
| 11.00-11.20 | Lyskova E.L. , Koroleva T.Yu., Yanovskaya T.B. | Radial anisotropy of the European upper mantle from records of earthquakes and seismic noise |
| 11.20-11.40 | Gobarenko V. , Yegorova T. | Seismicity and crustal structure of the Southern Crimea and adjacent northern Black Sea from local seismic tomography |
| 11.40-12.00 | Goev A.G. , Kosarev G.L., Sanina I.A. | Application of the receiver function technique in areas with a low-velocity near-surface layer |
| 12.00-12.10 | Coffee break | |

Chair: Tatiana Yanovskaya

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| 12.10-12.30 | Sharov N.V. | Superdeep drilling and its effect on the seismic models of the Fennoscandian shield |
| 12.30-12.50 | Mokhnatkin A.V. , Gorshkov V.L., Scherbakova N.V., Assinovskaya B.A. | Geodynamics of the East-European craton based on up-to-date GNSS data |
| 12.50-13.10 | Krasnoshchekov D. , Ovtchinnikov V. | Heterogeneities of the Earth's inner core boundary from differential measurements of PKiKP and PcP seismic phases |

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| 13.10-13.30 | Riabova S.A. , Spivak A.A. | Splitting of Earth's fundamental spheroidal mode 0S2 in geomagnetic variations |
| 13.30-14.30 | Lunch break | |
| 14.30-17.00 | Poster session | |
| P1. | Blagoveshchenskaya E. | Tectonic plates micromotions caused by the Chandler wobble |
| P2. | Dovbnya B.V. | Short-term precursors of earthquakes |
| P3. | Gravirov V.V. , Kislov K.V., Likhodeev D.V. | High-sensitivity sensor for correction of instrumental thermal noise of seismic devices |
| P4. | Gravirov V.V. , Kislov K.V., Sobisevich A.L. | PEMSDAS - portable expandable modular seismic data acquisition system |
| P5. | Guglielmi A.V. , Zotov O.D., Zavyalov A.D. | Atlas of the aftershocks: to the 150th anniversary of Fusakichi Omori |
| P6. | Ilyenko V.A. , Kushnir A.N. | New macroseismic manifestations of earthquakes in the Vranich area on the territory of Ukraine |
| P7. | Kislov K.V. , Gravirov V.V. | Some remarks on the seismometric experiments taking into account the thickness of the frozen layer soil |
| P8. | Kislov K.V. , Gravirov V.V. | On the question of the rotational seismology |
| P9. | Konechnaya Y.V. , Fedorenko I.V. | Seismicity in the area of North Sea route |
| P10. | Korsunova L.P. , Legenka A. D., Hegai V. V. | Possible short-term ionospheric precursors of strong crustal earthquakes |
| P11. | Mikhailova Ya. , Morozov A. | Software service «Seismology online» |
| P12. | Polets A.Yu. | Features of the tectonic stress field in the Okhotsk Sea and Japanese region |
| P13. | Zotov O.D. , Zavyalov A.D., Klain B.I. | On the spatial-temporal structure of aftershock sequences |