

Accepted reports

1 Atmosphere physics

Real orographic effect in cosmic ray studying

Balabin Yu.

Instrumental monitoring of the activity of whistlers in the radiophysical station "Oybenkel"
SHICRA SB RAS

Gotovtsev M.R., Karimov R.R.

The physicochemical interaction in the auroral ionosphere: the time dependent model

Dashkevich Zh.V., Ivanov V.E., Kozelov B.V., Sergienko T.I.

The diagnostic of auroral electron flux characteristics used the optical observation data

Kozelov B.V., Dashkevich Zh.V., Ivanov V.E.

The effective recombination coefficient in the auroral ionosphere

Ivanov V.E., Dashkevich Zh.D.

Reflection of seismic and solar irregularities in hydrogeological fields of Kyrgyzstan

Kendirbaeva J. Z.

Variations of the parameters of thunderstorm activity of tropical cyclones at the stage of maximum development in August 2016

Shabaganova S.N., Tarabukina L.D., Kozlov V.I.

Charge accumulation in thunderstorm clouds: fractal dynamic model

Kumykov T.S.

Atmospheric response to high and relativistic energy electron precipitation

Mironova I.A., Golubenko K.S.

Supersubstorms during the strong magnetic storms on 7-8 September 2017

Despirak I.V., Lubchich A.A., Kleimenova N.G., Gromova L.I., Gromov S.V., Malysheva L.M.

Variations of the level of ionizing radiation in the surface atmosphere under the influence of a snow cover

Nagorsky P.M., Pustovalov K.N., Yakovleva V.S., Smirnov S.V., Belyaeva I.V., Yakovlev G.A., Zelinsky A.S.

On the relationship of the intensity of dropping liquid drains with the evolution of the level of

β -, γ - background of ionizing radiation in the ground atmosphere

Nagorsky P.M., Yakovleva V.S., Pustovalov K.N., mirnov S.V., Yakovlev G.A. , Belyaeva I.V., Zelinsky A.S.

Cyclicity of solar activity and emergency launches of missiles through orbit space satellites

Kozlov S.I., Nagorskiy P.M.

Scenarios of development of variations of atmospheric-electric values of the ground-term atmosphere during the strong frost in Siberia

Kozlov V.I., Nagorsky P.M., Pustovalov K.N., Toropov A.A.

Comparison of internal gravity waves variations in the mesopause region derived from observations at Maimaga station with EOS MLS (AURA) temperature data

Sivtseva V.I., Ammosov P.P., Gavrilyeva G.A., Koltovskoi I.I., Ammosova A.M.

Dynamics of energetic particle at low altitudes and its influence on the ionosphere

Suvorova A.V.

Simulation of the emission spectra of the $^{14}\text{N}^{16}\text{O}$ molecule in the region 200-400 nm

Sulakshina O.N., Borkov Yu.G.

Estimation of anthropogenic impact on lightning activity over urbanized areas of Northeast Asia

Tarabukina L.D., Kozlov V.I., Innokentiev D.E.

Spectroscopic databases for modeling atmospheric radiation processes

Tashkun S.A.

Winter lightning in Kamchatka

Smirnov S.E., Mikhailov Yu.M., Mikhailova G.A.

Air temperature anomalies before strong earthquakes

Smirnov S.E., Mikhailova G.A., Mikhailov Yu.M., Kapustina O.V.

Estimation of ionosphere state in Aurora online data analysis system

Polozov Yu.A., Fetisova N.V.

Resonant propagation of laser radiation in the upper ionosphere

Shevtsov B.M., Bychkov V.V., Perezhogin A.S., Seredkin I.N.

Resonant scattering on excited ions as a possible reason for the registration of imaginary aerosol formations in the stratosphere and mesosphere

Bychkov V.V., Prezhogin A.S., Seredkin I.N.

Whistling characteristics during periods of ionospheric disturbances

Mikhailov Yu.M., Kapustina O.V., Druzhin G.I.

Laser remote gas analysis of the atmosphere by OPO lidar system

Romanovskii O.A., Romanovskii Ya.O., Sadovnikov S.A., Kharchenko O.V., Yakovlev S.V.

Radiation characteristics of cirrus clouds: The effect of the orientation of ice crystals

Samokhvalov I.V., Zuev S.V., Bryukhanova V.V., Bryukhanov I.D., Zhivotenyuk I.V., Pustovalov K.N., Ni E.V.

Mathematical modeling of the upper atmosphere processes

Medvedev V.V., Eremicheva V.E., Kolin A.D.

2 Geophysical fields and their interaction

Features of the soft gamma-rays variations in the atmosphere

Balabin Y., Mikhalko E., Mauricev E., Germanenko A., Shchur L.

The influence of different types of geomagnetic disturbances on a GIC in electric power lines

Belakhovsky V.B., Pilipenko V.A., Sakharov Ya.A., Selivanov V.N.

Search for geophysical signals by their mathematical models and templates

Mochalov V.A., Mochalova A.V.

Magnetic storm effects in the atmospheric electric field variations at the Mikhnevo Observatory

Riabova S.A.

Features of geomagnetic activity according to the Mikhnevo observatory in the twenty-fourth eleven-year cycle

Riabova S.A.

The analysis of dependence of the values of the Dst-index counted by means of two techniques from the level of solar and geomagnetic activity

Mandrikova O.V., Mochalova A.V., Mochalov V.A.

Mobile complex for registration of several components SCR

Mikhalko E.A., Balabin Yu.V., Mauricev E.A., Germanenko A.V.

Solar cosmic rays on the ground level observing

Balabin Y., Mikhalko E., Germanenko A., Mauricev E., Gvozdevsky B.

On the question of the relationship of variations of geophysical fields, lunar-solar tidal effects and seismic events

Bataleva E.A.

On the possibility of disturbance for dynamic balance of Earth by technogenic factor

Vilayev A., Stikharny A.

Accounting for the real shape of the proton spectrum when calculating the transport of solar cosmic rays through the Earth's atmosphere

Germanenko A.

Indications of anomalous changes in the geomagnetic field in the Siberian and Far-East regions

Dmitriev A.V.

Observation of global atmosphere and lithosphere disturbances by means of spatially distributed strainmeters, gravimeters and tiltmeters

Dubrov M.N., Volkov V.A.

Automatic cleaning of geomagnetic variations from technogenic disturbances for calculation of ULF-index

Kudin D.V., Dobrovolsky M.N.

Mukasheva Spatial-temporal changes of geomagnetic declination D for geomagnetic observatories AAA and NVS for 1963-2018

Malimbaev A.M., Sokolova O.I., Kim A.S., Mukasheva S.N.

Numerical methods in the study of the angular and energy characteristics of secondary cosmic rays in the Earth's atmosphere

Mikhalko E.A., Mauricev E.A.

Cosmic rays as an indicator of the geoeffectiveness of magnetic clouds

Petukhova A.S., Petukhov I.S., Petukhov S.I.

Experience of using the component Overhauser magnetometer POS-3 at points of the century course of the Earth's magnetic field

Cherepanova E.A.

About a possible change in the dynamics of volumetric activity of radon in connection with the largest earthquakes (for example, monitoring station var Gorno-Altaiisk)

Shitov A.V.

Algorithms of ionospheric parameters detection in ionograms

Mochalov V.A., Mochalova A.V.

Analysis of forced oscillations of nonlinear fractional oscillators

Parovik R.I.

Analysis of cosmic ray dynamics and ionospheric parameters during increased solar activity and magnetic storms

Mandrikova O.V., Polozov Yu.A., Mandrikova B.S.

Magnetic field of the Hot Earth. Reversals, magnetic anomalies and mechanism of the magnetic poles drift

Kuznetsov V.V.

Slow variations of the Earth's magnetic field: technical, methodological and organizational

features of measurements

Khomutov S.Y.

Method of extraction of geoacoustic emission pulses

Gapeev M.I., Senkevich Y.I.

Manifestation features of electric and acoustic responses of near-surface sedimentary rocks on seismic waves from earthquakes

Muratov P.V., Rulenko O.P., Marapulets Yu.V.

Estimation of long-range correlation scales by seismoacoustic emission signals of near-surface sedimentary rocks in Kamchatka

Sychev V.N., Mishchenko M.A., Imashev S.A., Cheshev M.E.

Principles of Creating a Local Network of Observations of Lightning Discharges on Active Volcanoes of the Kamchatka Peninsula

Druzhin G. I., Malkin E. I., Firstov P. P., Cherneva N. V., Uvarov V. N., Sannikov D. V., Stasiy I. E

Modes of magnetic field generation in a $\alpha\Omega$ -dynamo with a power type of α -generator
Godomskaya A.N., Sheremetyeva O.V.

Results of atmospheric-lithospheric observations of acoustic radiation in Kamchatka
Larionov I.A., Marapulets Yu.V., Mishchenko M.A.

Power regularities in the foreshock sequences of the statistically related events
Sheremetyeva O.V.

The chaotic regimes in a two-modes model of the $\alpha\omega$ -dynamo with hereditary quenching of the α -effect
Vodinchar G.M., Kazakov E.A.

The use of computer algebra systems for the automated construction of shell models of MHD turbulence
Vodinchar G.M., Feshchenko L.K.

Stochastic model of 6-jet kinematic dynamo
Vodinchar G.M., Feshchenko L.K.

Difference scheme for fractional generalization of the Kelvin-Voigt model
Vodinchar G.M., Perezhogin A.S.

Impedance spectroscopy in geophysical studies
Uvarov V.N.

Seasonal dependence of semidiurnal equatorial magnetic variation during quiet and disturbed periods
Fujimoto A., Yoshikawa A., Uozumi T., Abe S.

Development of MAGDAS project: Search for global electromagnetic coupling from polar to equatorial ionosphere
Yoshikawa A.

Schumann resonance and its benefits for the human well-being
Nazarov I.

Analysis of the dynamics of geomagnetic disturbances during periods of increased solar activity and magnetic storms (according to the network of ground stations INTERMAGNET)
Mandrikova O.V., Rodomanskay A.I., Zaitsev A.N.

The amplitude of the daily changes in the speed of the magnetic poles on quiet days
Semakov N.N., Kovalev A.A., Pavlov A.F., Fedotova O.I.

Artificial field - aligned ionospheric irregularities and the efficiency of radio engineering systems
Sivokon V.P.

Diagnostics of geomagnetically induced high-voltage power lines
Sivokon V.P., Cherneva N.V., Malkin E.I.

Amplitude and phase variations of the LF radio signals of NRK transmitter received in Yakutsk and Tixie Bay during the solar eclipse on August 11, 2018
Korsakov A.A., Kozlov V.I., Karimov R.R.

Seasonal variations of natural electric potentials over thawed patch in central Yakutia
Kozlov V.I., Baishev D.G.

The study of changes in the geodynamic, heliogeophysical and climatic characteristics of the Crimea using the measuring instruments of the "Simeiz-Katsiveli" geodynamic test area
Volvach A.E., Kurbasova G.S., Kanonidi K.Kh., Boborikina O.V.

Can solar flare trigger earthquake? Analysis of field observations, theoretical model and laboratory experiments
Novikov V.A., Klyuchkin V.N., Ruzhin Yu.Ya., Sorokin V.M., Yaschenko A.K.

Detection and structural analysis of noise in the magnetic data
Papsheva S.Y., Mandrikova O.V., Khomutov S.Y.

Dynamo effects in gravity
Shevtsov B.M.

Structural features of complex hydrochemical systems
Shevtsova O.V.

Complex for experimental investigations of elastic waves interactions with ice layer
Chen W., Chernenko V.A., Petrosiants V.V., Rybchenko A.A.

Interaction of elastic waves with ice layer in shelf zone
Yin J., Korochentsev V.I., Viland A.V., Shabanov G.A., Korchaka A.V., Soshina N.S.

Interaction of electromagnetic waves in ice layer
Xue W., Korochentsev V.I., Em A.A., Shpak Iu.V.

Nonlinear acoustic methods in the investigations of elastic wave interactions in ocean
Chen W., Korochentsev V.I., Tarasov S.P., Pivnev P.P., Durov D.S.

The influence of different types of geomagnetic disturbances on a GIC in electric power lines
Belakhovsky V.B., Pilipenko V.A., Sakharov Ya.A., Selivanov V.N.

Transient electromagnetic radiation of the lithosphere in a seismically active region. Comparative analysis of ground measurement results
Nguyen Xuan Anh, Lutsenko V., Yi-yang Luo, Uvarov V.N.

3 Physics of earthquake precursors

The seismic regime "drumbeats" on andesite-dacite volcanoes of the world
Shakirova A.A., Firstov P.P.

The influence of seismic activity on the development of the formation of heterogeneities in the sporadic layer Es

Alimov Obid A., Kalashnikova T.M.

Quasi-periodic variations of amplitude of lightning discharges electromagnetic signals during the period of strong seismic activity

Argunov V.V., Gotovcev M.R.

Variations of seismic activity caused by the Chandler Wobble

Blagoveshchenskaya E.E., Lyskova E.L., Sannikov K.Yu.

Research of local seismicity in the zone of the Central Sakhalin fault

Boginskaya N.V., Zakupin A.S.

Investigation of Earth's crust tension degree of Almaty active region by registering cosmic rays muons of high energy

Iskakov B.A., Vildanova L.I., Salikhov N.M., Piscal V.V., Sadykov T.Kh., Shepetov A.L., Zhukov V.V., Tautayev Y.M., Argynova K., Mamina S.P., Ryabov V.A., Beisenova A.D., Argynova V.A.

Hydrogeodynamic effects of the preparation and occurrence of strong earthquakes

Kopylova G.N.

New station of complex geophysical and seismological observations on Sakhalin

Kostylev D.V.

Method of step-by-step adaptation of the width of measurement interval to the signal parameters

Terekhov L.S., Lavrukhin A.A.

Study of Lithosphere-Atmosphere-Ionosphere coupling on the example of the 30 December 2017 earthquake M4.2

Salikhov N.M., Pak G.D.

Caused by earthquakes effects in electromagnetic activity which were observed in reelec experiment on-board vernov satellite

Panasyuk M.I., Svertilov S.I., Klimov S.I., Ruzhin Yu.Ya.

Complex analysis of pre-seismic geoacoustic and electromagnetic emission signals

Lukovenkova O.O., Solodchuk A.A., Marapulets Yu.V., Tristanov A.B., Malkin E.I.

Application of daily monitoring of the ionosphere state and complex borehole measurements to study the seismic hazard of the Kamchatka region

Boganov V.V., Gavrilov V.A., Buss Yu.Yu., Morozova Yu.V., Pavlov A.V., Gasheva O.V.

Spatial analysis of geoacoustic emission signals in shallow lake Mikizha, Kamchatka region

Shcherbina A.O., Solodchuk A.A.

Development of a methodology to estimate a region and waiting period for strong Kamchatka earthquakes based on seismic and ionospheric predictive signs

Bogdanov V.V., Pavlov A.V.

Auto Clustering Of The Variety Of Pulse Signals Based On Their Symbolic Description
Senkevich Yu.I.

Search for Earthquake Precursors in regions of intraplate seismicity
Kusumita Arora, Jayashree Bulusu, Prasanna Simha

Space and ground-based electromagnetic data - a possible source of information on earthquakes: the state of the art and future directions
Isac A., Manda M.