

Статьи в иностранных журналах - 2015 год

1. Afanasiev A.N., Nakariakov V.M. Nonlinear slow magnetoacoustic waves in coronal plasma structures // Astron. Astrophys. - 2015. Vol.573. P. A32.
2. Afanasiev A.N., Nakariakov V.M. Cut-off period for slow magnetoacoustic waves in coronal plasma structures // Astron. Astrophys. 2015. Vol.582. P. A57.
3. Akhtemov Z.S., Andreeva O.A., Rudenko G.V., Stepanyan N.N., Fainshtein V.G. Variation over time in latitudinal distribution of the large - scale magnetic fields in the solar atmosphere at heights from the photosphere to the source surface // Adv. Space Research. 2015. Vol.55, №3. P. 968-978.
4. Alania M.V., Modzelewska R., Wawrzynczak A., Sdobnov V.E., Kravtsova M. 27-day variation of the GCR intensity based on corrected and uncorrected for geomagnetic disturbances data of neutron monitors // J. Physics: Conference Series. 2015. Vol.632 P. 012085.
5. Anfinogentov S., Nakariakov V.M., Nistico G. Decayless low - amplitude kink oscillations: a common phenomenon in the solar corona? // Astron. Astrophys. 2015. Vol.583. P. A136.
6. Antokhina O., Antokhin P.N., Kochetkova O.S., Mordvinov V.I. Summer circulation of the Northern hemisphere atmosphere in period of strong and weak East Asian monsoon // Atmos. Oceanic Opt. 2015. Vol.28, №3. P. 258-264.
7. Bergardt O.I., Kotovich G.V., Mikhailov S.Y., Podlesny A.V. Dynamics of vertical ionospheric inhomogeneities over Irkutsk during 06:00 - 06:20UT 11/03/2011 caused by Tohoku earthquake // J. Atm. Sol.-Terr. Phys. 2015. Vol.132. P. 106-115.
8. Bergardt O.I., Voronov A.L., Grkovich K. Optimal signals of Golomb ruler class for spectral measurements at EKB SuperDARN radar: Theory and experiment // Radio Science. 2015. Vol.50, №6. P. 486-500.
9. Bergardt O.I., Zolotukhina N.A., Oinats A.V. Observations of field - aligned ionospheric irregularities during quiet and disturbed conditions with EKB radar: first results // Earth Planets Space. 2015. Vol.67, №9. P. 143.
10. Bergardt O.I., Kutelev K.A., Kurkin V.I., Grkovich K., Yampolsky Y.M., Kashcheyev A., Kashcheyev S., Galushko V., Grigorieva S.A., Kusonski O.A. Bistatic sounding of high - latitude ionospheric irregularities using a decameter EKB Radar and a UTR-2 Radio Telescope: First results // Radiophysics and Quantum Electronics. 2015. Vol.58, №6. P. 390-408.
11. Bergardt O.I., Perevalova N.P., Kutelev K.A., Zherebtsov G.A., Dobrynina A.A., Shestakov N.V., Zagretdinov R.V., Bakhtiyarov V.F., Kusonski O.A. Towards the azimuthal characteristics of ionospheric and seismic effects of "Chelyabinsk" meteorite fall according to the data from coherent radar, GPS and seismic network // JGR.2015. Vol. 120 - doi:10.1002/2015JA021549
12. Chelpanov A.A., Kobanov N.I., Kolobov D.Y. Characteristics of oscillations in magnetic knots of solar faculae // Astronomy Reports. 2015. Vol.59, №10. P. 968-973.
13. Chernigovskaya M.A., Shpynev B.G., Ratovsky K.G. Meteorological effects of ionospheric disturbances from vertical radio sounding data // J. Atm. Sol.-Terr. Phys. 2015. Vol.136B. P. 235-243.
14. Chertok I. M., Abunina M.A., Abunin A.A., Belov A.V., Grechnev V.V. Relationship between the magnetic flux of solar eruptions and the Ap index of geomagnetic storms // Sol. physics. 2015. Vol.290, №2. P. 627-633.
15. Chertok I.M., Belov A.V., Grechnev V.V. A simple way to estimate the soft X-ray class of Far-Side solar flares observed with STEREO/EUVI // Sol. physics. 2015. Vol.290, №7. P.1947-1961.
16. Chowdhury P., Srivastava A., Dwivedi B.N., Sych R.A., Moon Y.S. Study of multi - periodic coronal pulsations during an X-class solar flare // Adv. Space Research. 2015. Vol.56, №12. P. 2769-2778.
17. Churilov S.M. Instability Development in Shear Flow with an Inflection-Free Velocity Profile and Thin Pycnocline // Discontinuity, Nonlinearity, and Complexity. 2015. Vol. 4. № 3. P. 333-351.
18. Demidov M.L., Veretsky R.M., Kiselev A.V. On the peculiarities of manifestation of kG magnetic elements in observation of the Sun with low spatial resolution // Proceedings of the Intern. Astron. Union. 2015. Vol.305. P. 86-91.
19. Deres A., Anfinogentov S. Measurements of the formation heights of UV and EUV emission above sunspot umbrae from observations of three - minute oscillations // Astronomy Reports. 2015. Vol.59, №10. P. 959-967.
20. Eselevich V.G., Eselevich M.V. Differences in the development of the initial phase of the formation of two types of coronal mass ejections // Cosmic Research. 2015. Vol.55, №1. P. 21-30.
21. Eselevich V.G., Eselevich M.V., Sadykov V., Zimovets I.V. Evidence of a blast shock wave formation in a "CME- streamer" interactions // Adv. Space Research. 2015. Vol.56, №12. P. 2793-2803.

22. Fainshtein V.G., Egorov Ya.I. Initiation of CMEs associated with filament eruption, and the nature of CME related shocks // *Adv. Space Research*. 2015. Vol.54, №3. P. 798-807.
23. Fainshtein V.G., Zaginova Yu. On the occurrence and the motion of fast impulsive coronal mass ejections associated with powerful flares and unassociated with eruptive filaments // *Cosmic Research*. 2015. Vol.55, №1. P. 31-46.
24. Fainshtein V.G., Egorov Ya.I. Characteristics of the motion of coronal mass ejections and related shocks depending on the heliocentric distance // *Geomagnetism and Aeronomy*. 2015. Vol.55, №8. P. 1165-1170.
25. Firstova N.M. Connection between the appearance of gamma - ray sources and H alpha line impact linear polarization in the July 23, 2002 flare // *Astronomy Letters*. 2015. Vol.41, №10. P. 593-600.
26. Golovko A.A., Salakhutdinova I.I. Evolution of solar active regions: detecting the emergence of new magnetic field through multifractal segmentation // *Astronomy Reports*. 2015. Vol.59, №8. P. 776-790.
27. Grechnev V.V., Uralov A.M., Kuzmenko I.V., Kochanov A.A., Chertok I.M., Kalashnikov S.S. Responsibility of a filament eruption for the initiation of a flare, CME, and blast wave, and its possible transformation into a bow shock // *Sol. physics*. 2015. Vol.290, №1. P. 129-158.
28. Grechnev V.V., Kiselev V., Meshalkina N.S., Chertok I.M. Relations between microwave bursts and near - Earth high - energy proton enhancements and their origin // *Sol. physics*. 2015. Vol.290, №10. P. 2827-2855.
29. Guglielmi A., Potapov A.S., Dovbnya B.V. Fine- minute solar oscillations and ion - cyclotron waves in the solar wind // *Sol. physics*. 2015. Vol.290, №10. P. 3023-3032.
30. Hallinan G., Littlefair S.P., Cotter G., Bourke S., Harding L.K., Pineda J.S., Butler R.P., Golden A., Basri G., Doyle J.G., Kao M.M., Berdyugina S.V., Kuznetsov A.A., Rupen M.P., Antonova A. Magnetospherically driven optical and radio aurorae at the end of the stellar main sequence // *Nature*. 2015. Vol.523, №7562. P. 568-571.
31. Kaltman T.L., Kochanov A.A., Myshyakov I.I., Maksimov V.P., Prosovetsky D.V., Tokhchukova S.K. Observations and modeling of the spatial distribution and microwave radiation spectrum of the active region NOAA 11 734 // *Geomagnetism and Aeronomy*. 2015. Vol.55, №8. P. 1124-1130.
32. Karak B.B., Kitchatinov L.L., Brandenburg A. Hysteresis between distinct modes of turbulent dynamos // *Astrophys. J.* 2015. Vol.803, №2. Art.id.95.
33. Karavaev Yu.S. Observations of the potentially hazardous asteroid 275677 and the modeling of its shape // *Solar System Research*. 2015. Vol.49, №4. P. 271-274.
34. Kitchatinov L.L., Nepomnyashchikh A.A. Parametric modulation of dynamo waves // *Astronomy Letters*. 2015. Vol.41, №7. P. 374-381.
35. Kitchatinov L.L., Olemskoy S.V. Dynamo saturation in rapidly rotating solar - type stars // *Research in Astronomy and Astrophysics*. 2015. Vol.15, №11. Art. id. 1801.
36. Kichigin G.N. Focusing properties of the Parker magnetic field // *Bull. Russian Academy of Sciences: Physics*. 2015. Vol.79, №5. P. 616-617.
37. Kichigin G.N., Miroshnichenko L.I., Sidorov V.I., Yazev S.A. Diamagnetic reduction in the magnetic field above a sunspot in the gamma - ray burst on July 14, 2000 // *Plasma Physics Reports*. 2015. Vol.41, №8. P. 651-655.
38. Klimenko M., Klimenko V., Karpachev A.T., Ratovsky K.G., Stepanov A.E. Spatial features of Weddell Sea and Yakutsk anomalies in f0F2 diurnal variations during high solar activity periods: Interkosmos-19 satellite and ground - based ionosonde observations, IRI reproduction and GSM TIP model simulation // *Adv. Space Research*. 2015. Vol.55, №8. P. 2020-2032.
39. Klimenko M., Klimenko V., Ratovsky K.G., Zakharenkova I.E., Yasyukevich Yu.V., Korenkova N.A., Chernyak Yu., Mylnikova A.A. Mid-latitude Summer Evening Anomaly (MSEA) in F2 layer electron density and Total Electron Content at solar minimum // *Adv. Space Research*. 2015. Vol.56, №9. P. 1951-1960.
40. Klimenko M., Klimenko V., Bessarab F.S., Ratovsky K.G., Zakharenkova I.E., Nosikov I.A., Stepanov A.V., Kotova D., Vorobjev V.G., Yagodkina D.I. Influence of geomagnetic storms of September 26-30,2011 on the ionospheric and HF radiowave propagation. 1. Ionospheric effects // *Geomagnetism and Aeronomy*. 2015. Vol.55, №6. P. 744-762.
41. Klimenko M., Klimenko V., Bessarab F.S., Korenkov Y.N., Liu H., Goncharenko L.P., Tolstikov M.V. Study of the thermospheric and ionospheric response to the 2009 sudden stratospheric warming using TIME - GCM and GCM TIP models: First results // *J. Geophys. Res.* 2015. Vol. 120, № 9. P. 7873-7888.
42. Klimushkin D., Mager P. The Alfvén mode gyrokinetic equation in finite - pressure magnetospheric plasma // *J. Geophys. Res.* 2015. Vol. 120, № 6. P. 4465-4474.
43. Kobanov N.I., Kolobov D.Y., Chelpanov A.A. Oscillations above sunspots and faculae: height stratification and relation to coronal fan structure // *Sol. physics*. 2015. Vol.290, №2. P. 363-380.

44. Kolobov D.Y., Kobanov N.I., Chelpanov A.A., Kochanov A.A., Anfinogentov S., Chupin S.A., Myshyakov I.I., Tomin V.E. Behaviour of oscillations in loop structures above active regions // *Adv. Space Research.* 2015. Vol.56, №12. P. 2760-2768.
45. Kotova D., Klimenko M., Klimenko V., Zakharov V.E., Ratovsky K.G., Nosikov I.A., Zhao, B. Using IRI and GSM TIP model results as environment for HF radio wave propagation model during the geomagnetic storm occurred on September 26-29, 2011 // *Adv. Space Research.* 2015. Vol.56, №9. P. 2012-2029.
46. Kravtsova M., Sdobnov V.E. Features of cosmic ray modulation in October and November 2003 // *Bull. Russian Academy of Sciences: Physics.* 2015. Vol.79, №5. P. 627-630.
47. Kravtsova M., Sdobnov V.E. Investigation of the cosmic - ray energy spectrum and anisotropy during the solar proton events of June 11 and 15, 1991 // *Astronomy Letters.* 2015. Vol.41, №9. P. 529-536.
48. Krissinel B.B. Modeling of the structure of quiescent areas of the solar atmosphere emitting at 1 - 100 cm // *Astronomy Reports.* 2015. Vol.59, №1. P. 58-71.
49. Kunitsyn V., Kurbatov G., Yasyukevich Yu.V., Padokhin A. Investigation of SBAS L1/L5 Signals and their Application to the Ionospheric TEC Studies // *IEEE Geoscience and Remote Sensing Letters.* 2015. Vol.12, №3. P. 547-551.
50. Kurt V.G., Yushkov B., Kudela K., Galkin I.A., Kashapova L.K. CORONAS-F observation of HXR and gamma - ray emission from the solar flare X10 on 29 October 2003 as a probe of accelerated proton spectrum // *Contribution of the Astronomical Observatory of Skalnate Pleso .* 2015. Vol.45, №1. P. 42-59.
51. Kuznetsov A.A., Kontar E.P. Spatially resolved energetic electron properties for the 21 May 2004 flare from radio observations and 3D simulations // *Sol. physics.* 2015. Vol.290, №1. P. 79-93.
52. Kuznetsov A.A., Van Doorsselaere T., Reznikova V.E. Simulations of gyrosynchrotron microwave emission from an oscillating 3D magnetic loop // *Sol. physics.* 2015. Vol.290, №4. P. 1173-1194.
53. Leonovich L.A., Tashchilin A.V., Leonovich V.A. Response of 557.7 and 630 - nm atomic oxygen emission to sharp variations in solar wind parameters // *Atmos. Oceanic Opt.* 2015. Vol.28, №4. P. 376-380.
54. Leonovich A.S., Klimushkin D., Mager P. Experimental evidence for the existence of monochromatic transverse small - scale standing Alfvén waves with spatially dependent polarization // *J. Geophys. Res.* 2015. Vol. 120, № 7. P. 5443-5454.
55. Livshits M.A., Rudenko G.V., Katsova M.M., Myshyakov I.I. The magnetic virial theorem and the nature of flares on the Sun and other G stars // *Adv. Space Research.* 2015. Vol.54, №3. P. 920-926.
56. Lukovnikova A.A. Present state of cosmic ray stations of the Institute of solar - terrestrial physics of Siberian Branch of the Russian Academy of sciences (ISTP SB RAS) // *J. Physics: Conference Series.* 2015. Vol.632. P. 012067.
57. Mager P., Berngardt O.I., Klimushkin D., Zolotukhina N.A., Mager O.V. First results of the high - resolution multibeam ULF wave experiment at the Ekaterinburg SuperDARN radar: Ionospheric signatures of coupled poloidal Alfvén and drift - compressional modes // *J. Atm. Sol.-Terr. Phys.* 2015. Vol.130/131. P. 112-126.
58. Mazur V.A., Chuiko D.A. Azimuthal inhomogeneity in the MHD waveguide in the outer magnetosphere // *J. Geophys. Res.* 2015. Vol.120, № 6. P. 4641-4655.
59. Medvedev A.V., Ratovsky K.G., Tolstikov M.V., Alsatkin S.S., Shcherbakov A.A. A statistical study of internal gravity wave characteristics using the combined Irkutsk incoherent scatter radar and digisonde data // *J. Atm. Sol.-Terr. Phys.* 2015. Vol.132. P. 13-21.
60. Medvedeva I.V., Ratovsky K.G. Studying atmospheric and ionospheric variabilities from long - term spectrometric and radio sounding measurements // *J. Geophys. Res.* 2015. Vol. 120, № 6. P. 5151-5159.
61. Medvedeva I.V., Medvedev A.V., Ratovsky K.G., Shcherbakov A.A., Tolstikov M.V. Comprehensive study of disturbances of the neutral atmosphere and ionosphere parameters over Eastern Siberia during the 2013 January major sudden stratospheric warming // *Adv. Space Research.* 2015. Vol.56, №9. P. 1877-1885.
62. Mikhalev A.V., Podlesny S., Kostyleva N.V., Komarova E. Optical parameters of night sky over Eastern Siberia after the Chelyabinsk meteor event. 2. Airglow // *Atmos. Oceanic Opt.* 2015. Vol.28, №6. P. 555-560.
63. Mishin V.V., Mishin V.M., Lunyshkin S.B., Pu Z., Wang C. Strong induction effects during the substorms on 27 August 2001 // *Earth Planets Space.* 2015. Vol.67. Art. # 162.
64. Mordvinov A.V., Grigoryev V.M., Erofeev D. Evolution of sunspot activity and inversion of the Sun's polar magnetic field in the current cycle // *Adv. Space Research.* 2015. Vol.55, №11. P. 2739-2743.

65. Mylnikova A.A., Yasyukevich Yu.V., Kunitsyn V., Padokhin A. Variability of GPS/GLONASS differential code biases // *Results in Physics*. 2015. Vol.5. P. 9-10.
66. Oinats A.V., Kurkin V.I., Nishitani N. Statistical study of medium - scale traveling ionospheric disturbances using SuperDARN Hokkaido ground backscatter data for 2011 // *Earth Planets Space*. 2015. Vol.67, №2. Art. # 22.
67. Nita G.M., Fleishman G.D., Kuznetsov A.A., Kontar E.P., Gary D. Three - dimensional radio and X-ray modeling and data analysis software: revealing flare complexity // *Astrophys. J.* 2015. Vol. 799, № 2. Art. id. 236.
68. Parkhomov V.A., Dmitriev A., Tsegmed B. On the origin of burst Pc1 pulsations produced in interaction with an oblique interplanetary shock // *Planet. Space Sci.* 2015. Vol.109. P. 21-31.
69. Parkhomov V.A., Borodkova N.L., Eselevich V.G., Eselevich M.V. Abrupt changes of density in sporadic solar wind and their effect on Earth magnetosphere // *Cosmic Research*. 2015. Vol.53, №6. P. 411-422.
70. Perevalova N.P., Shestakov N.V., Voeykov S.V., Takanashi N., Guojie M. Ionospheric disturbances in the vicinity of the Chelyabinsk meteoroid explosive disruption as inferred from dense GPS observations // *Geophys. Res. Lett.* 2015. Vol.42, №16. P. 6535-6543.
71. Pipin V.V. Dependence of magnetic cycle parameters on period of rotation in non - linear solar - type dynamos // *Monthly Notices Roy. Astron. Soc.* 2015. Vol. 451, № 2. P. 1528-1539.
72. Pipin V.V., Kosovichev A.G. Effects of large - scale non - axisymmetric perturbations in the mean - field solar dynamo // *Astrophys. J.* 2015. Vol. 813, № 2. Art. # 134.
73. Podgorny A.I., Podgorny I.M., Meshalkina N.S. Dynamics of magnetic fields of active regions in pre - flare states and during solar flares // *Astronomy Reports*. 2015. Vol.59, №8. P. 795-805.
74. Polekh N.M., Romanova E.B., Ratovsky K.G., Shi J.K., Wang X., Wang G. Studying the G condition occurrence in different latitudes under solar minimum: Observation and modeling // *J. Atm. Sol.-Terr. Phys.* 2015. Vol.130/131. P. 132-141.
75. Polyachenko V.L., Polyachenko E.V., Shukhman I.G. Two scenarios of the radial orbit instability in spherically symmetric collisionless stellar systems // *Astronomy Letters*. 2015. Vol.41, №1/2. P. 1-13.
76. Polyachenko E.V., Shukhman I.G. On the nature of the radial orbit instability in spherically symmetric collisionless stellar systems // *Monthly Notices Roy. Astron. Soc.* 2015. Vol.451, №1. P. 601-610.
77. Ponomarenko P., Nishitani N., Oinats A.V., Tsuya T., St.-Maurice J.P. Application of ground scatter returns for calibration of HF interferometry data // *Earth Planets Space*. 2015. Vol.67. P. 138.
78. Potapov A.S., Polyushkina T., Dovbnya B.V. Use of International Reference Ionosphere 2012 model to calculate emission frequency scale of the ionospheric Alfvén resonator // *J. Space Weather Space Climate*. 2015. Vol.5. P. A14.
79. Ratovsky K.G., Medvedev A.V., Tolstikov M.V. Diurnal, seasonal and solar activity pattern of ionospheric variability from Irkutsk digisonde data // *Adv. Space Research*. 2015. Vol.55, №8. P. 2041-2047.
80. Reznikova V.E., Doorselaere T. van, Kuznetsov A.A. Perturbations of gyrosynchrotron emission polarization from solar flares by sausage modes: forward modeling // *Astron. Astrophys.* 2015. Vol. 575. Art. id. A47.
81. Romanov D.V., Romanov K.V., Romanov V.A., Kucherov N.V., Eselevich V.G., Eselevich M.V. On the possible reason for the formation of impulsive coronal mass ejections // *Adv. Space Research*. 2015. Vol.54, №3. P. 949-957.
82. Saka O., Hayashi K., Leonovich A.S. Explanation of Pi2 pulsations in auroral zone: Azimuthal propagation of ionospheric loop currents // *J. Geophys. Res.* 2015. Vol. 120, № 6. P. 4841-4848.
83. Saka O., Hayashi K., Leonovich A.S. Ionospheric loop currents and associated ULF oscillations at geosynchronous altitudes during preonset intervals of substorm aurora J. *Geophys. Res.* 2015. Vol.120, №4. P. 2460-2468.
84. Semenov A.I., Shefov N.N., Medvedeva I.V. Empirical model of variations in the upper atmosphere continuum emission. 3. Emitting - layer altitude // *Geomagnetism and Aeronomy*. 2015. Vol.55, №4. P. 539-546.
85. Semenov A.I., Shefov N.N., Medvedeva I.V., Sukhodoev V.A. Variations in activity of the Sun and stars of the late spectral types on different timescales // *Geomagnetism and Aeronomy*. 2015. Vol.55, №6. P. 699-708.
86. Shcherbakov A.A., Medvedev A.V., Kutelev K.A., Kushnarev D.S., Tolstikov M.V., Alsatkin S.S. Calculation od meridional neutral winds in the middle latitudes from the Irkutsk incoherent scatter radar // *J. Geophys. Res.* 2015. Vol.120, №12. - P. DOI:10.1002/2015JA021678.
87. Shindin A., Grach S., Klimenko V.V., Nasirov I., Sergeev E., Beletsky A.B., Tashchilin M.A., Gumerov R.I. The 630 nm and 557.7 nm airglow during HF ionosphere pumping by the SURA

- facility radiation for pump frequencies near the Forth electron gyroharmonic // Radiophysics and Quantum Electronics. 2015. Vol.57, №11. P. 759-772.
88. Shpynev B.G., Kurkin V.I., Ratovsky K.G., Chernigovskaya M. A., Belinskaya A.Yu., Grigorieva S.A., Stepanov A.V., Bychkov V.V., Pancheva D., Mukhtarov P. High - midlatitude ionosphere response to major stratospheric warming // Earth Planets Space. 2015. Vol.67, №2. P. Art. # 18.
 89. Shpynev B.G., Churilov S.M., Chernigovskaya M.A. Generation of waves by jet - stream instabilities in winter polar stratosphere/mesosphere // J. Atm. Sol.-Terr. Phys. 2015. Vol.136B. P. 201-215.
 90. Shukhman I.G., Tewner S., Cohen J. Vertical disturbances in a linearly stratified linear shear flow. 1. Linear theory // Phys. Fluids. 2015. Vol.27, №2. Art. # 024103.
 91. Shukhman I.G., Tewner S., Cohen J. Vertical disturbances in a linearly stratified linear shear flow. 2. Nonlinear evolution // Phys. Fluids. 2015. Vol.27, №2. Art. # 024104.
 92. Shulyak D., Sokoloff D.D., Kitchatinov L.L., Moss D. Towards understanding dynamo action in M dwarfs // Monthly Notices Roy. Astron. Soc. 2015. Vol. 449, №4. P. 3471-3478.
 93. Sokoloff D.D., Khlystova A.I., Abramenco V. Solar small - scale dynamo and polarity of sunspot groups // Monthly Notices Roy. Astron. Soc. 2015. Vol. 451, № 2. P. 1522-1527.
 94. Sych R.A., Karlicky M., Altyntsev A.T., Dudik J., Kashapova L.K. Sunspot waves and flare energy release // Astron. Astrophys. 2015. Vol.577. Art. id. A43.
 95. Suvorova A., Huang C.-M., Tsai L.-C., Dmitriev A.V., Ratovsky K.G. Long - duration positive ionospheric storm during the December 2006 geomagnetic storm: Ionizing effect of forbidden electrons // Adv. Space Research. 2015. Vol.56, №9. P. 2001-2011.
 96. Teplitskaya R.B., Ozhogina O.A., Pipin V.V. Lithium 671- nm line at the polar and equatorial solar limbs // Astronomy Letters. 2015. Vol.41. № 12. P. 848.
 97. Tinin M.V. Eliminating diffraction effects during multi - frequency correction in global navigation satellite systems // Journal of Geodesy. 2015. Vol.89, №5. P. 491-503.
 98. Tinin M.V. Influence of ionospheric irregularities on GNSS remote sensing // Advances in Meteorology. 2015. Vol.2015. Art. # 532015.
 99. Tlatov A.G., Dormodontov D.V., Kirpichev R.V., Pashchenko M.P., Shramko A.D., Peshcherov V.S., Grigoryev V.M., Demidov M.L., Svidskii P.M. Study of some characteristics of large - scale solar magnetic fields during the global field polarity reversal according to observations at the Telescope - Magnetograph Kislovodsk Observatory // Geomagnetism and Aeronomy. 2015. Vol.55, №7. P. 969-975.
 100. Tomozov V.M., Strokin N.A. A comparative analysis of the efficiency of acceleration of proton and electrons in the laboratory and in solar plasma // Geomagnetism and Aeronomy. 2015. Vol.55, №2. P. 152-157.
 101. Vargin P., Medvedeva I.V. Temperature and dynamical regimes of the Northern hemisphere extratropical atmosphere during sudden stratospheric warming in winter 2012-2013 // Izv., Atmospheric and Oceanic Physics. 2015. Vol.51, №1. P. 12-28.
 102. Vybornov V., Grigorieva I.Yu., Livshits M.A., Ivanov E.F. Evidence of hard X-rays at weak nonstationary processes in active regions // Geomagnetism and Aeronomy. 2015. Vol.55, №8. P. 1112-1117.
 103. Yasyukevich Yu.V., Zakharov V.I., Kunitsyn V., Voeykov S.V. The response of the ionosphere to the Earthquake in Japan on March 11, 2011 as estimated by different GPS - based methods // Geomagnetism and Aeronomy. 2015. Vol.55, №1. P. 108.
 104. Yasyukevich Yu.V., Mylnikova A.A., Polyakova A.S. Estimating the total electron content absolute value from the GPS/GLONASS data // Results in Physics. 2015. Vol.5. P. 32-33.
 105. Yasyukevich Yu.V., Mylnikova A.A., Kunitsyn V., Padokhin A. Influence of GPS/GLONASS differential code biases on the determination accuracy of the absolute Total Electron Content in the ionosphere // Geomagnetism and Aeronomy. 2015. Vol.55, №6. P. 763-769.
 106. Yazev S.A. Activity complexes on the Sun in solar cycle 24 // Astronomy Reports. 2015. Vol.59, №3. P. 228-237.
 107. Zaginova Yu., Fainshtein V.G. How do fast impulse CMEs related to powerful flares but unrelated to eruptive filaments appear and move? // Adv. Space Research. 2015. Vol.54, №3. P. 822-834.
 108. Zaginova Yu., Fainshtein V.G., Obridko V.N. Comparison of the properties of leading and trailing sunspots // Geomagnetism and Aeronomy. 2015. Vol.55, №1. P. 13.
 109. Zaginova Yu., Fainshtein V.G., Rudenko G.V., Obridko V.N. A comparative analysis of the properties of the magnetic fields in leading and trailing sunspots // Astronomy Reports. 2015. Vol.59, №2. P.156-164.

110. Zakharov V.I., Khamidullin A.F. Estimation of the parameters of wave disturbances in the ionosphere by the joint use of GPS - interferometry and vertical sounding data // Moscow University Physics Bulletin. 2015. Vol.70, №1. P. 68-74.
111. Zhdanov D.A., Zandanov V.G. Observations of microwave fine structures by the Badary broadband microwave spectropolarimeter and the Siberian Solar Radio Telescope // Sol. physics. 2015. Vol.290, №1. P. 287-294.
112. Zolotukhina N.A., Polekh N.M., Kurkin V.I., Romanova E.B. Ionospheric effects of solar flares and their associated particle ejections in March 2012 // Adv. Space Research. 2015. Vol.55, №12. P. 2851-2862.
113. Минасянц Г.С., Минасянц Т.М., Томозов В.М. Спектры энергий и свойства солнечных энергичных частиц // Изв. Национальной Академии Наук Республики Казахстан. 2015. №5. Вып. 303. С. 60-64.