

References

- De Franceschi G., Gulyaeva, T.L., and Perrone, L. Forecasting geomagnetic activity 3 hours in advance for ionospheric applications. *Annali di Geofisica*, 44, No.5/6, 1067-1074, 2001. DOI: 10.4401/ag-3556.
- Gulyaeva, T.L., I. Stanislawski, and M. Tomasik. Ionospheric weather: Cloning missed foF2 observations for derivation of variability index. *Annales Geophysicae*, 26, N.2, 315-321, www.ann-geophys.net/26/315/2008/, 2008.
- Гуляева Т.Л. Показатели изменчивости ионосферы во время геомагнитных бурь по наблюдениям GPS. *Солнечно-земная физика*, Вып.12, Т.2, с.231-232, 2008// Gulyaeva, T.L. Assessments of ionospheric perturbations during geomagnetic storms from GPS observations. *Solar - Terrestrial Phys.*, 2, 231-232, <http://ru.iszf.irk.ru/images/8/85/231-232.pdf>, 2008.
- Gulyaeva, T.L., I. Stanislawski, Derivation of a planetary ionospheric storm index. *Annales Geophysicae*, 26, N.9, 2645-2648, www.ann-geophys.net/26/2645/2008/, 2008.
- Gulyaeva, T.L. Proxy for the ionospheric peak plasma density reduced by the solar zenith angle. *Earth, Planets and Space*, 61(5), 629-631, <http://www.terrapub.co.jp/journals/EPS/pdf/2009/6105/61050629.pdf>, 2009.
- Гуляева Т.Л. и Гуляев Р.А. Инверсия зависимости критической частоты от зенитного угла Солнца. *Геомагнетизм и аэронавигация*, 49(5), 620–627, 2009 // Gulyaeva, T.L. and Gulyaev, R.A. Inversion of the F2 layer critical frequency with the solar zenith angle. // *Geomagnetism and Aeronomy*, Vol. 49, No. 5, pp. 591–598. doi: 10.1134/S0016793209050065, 2009.
- Gulyaeva, T.L., Arikani F., Delay S. Scale factor mitigating non-compliance of double frequency altimeter measurements of the ionospheric electron content over the oceans with GPS-TEC maps. *Earth, Planets and Space*, 61, 1103-1109, <http://www.terrapub.co.jp/journals/EPS/pdf/2009/6109/61091103.pdf>, 2009.
- Gulyaeva, T.L. and Stanislawski, I. Magnetosphere associated storms and autonomous storms in the ionosphere-plasmasphere environment. *J. Atmos. Solar-Terr. Phys.*, **72**, 90-96, doi:10.1016/j.jastp.2009.10.012, 2010.
- Gulyaeva T.L. Storm time behavior of topside scale height inferred from the ionosphere-plasmasphere model driven by the F2 layer peak and GPS-TEC observations. *Adv. Space Res.*, 47(#6), 913-920, doi:10.1016/j.asr.2010.10.025, 2011.
- Gulyaeva, T.L., Arikani, F., and Stanislawski, I. Inter-hemispheric Imaging of the Ionosphere with the upgraded IRI-Plas model during the space weather storms. *Earth, Planets and Space*, 63, No.8, 929-939, doi: 10.5047/eps.2011.04.007, <http://www.terrapub.co.jp/journals/EPS/pdf/2011/6308/63080929.pdf>, 2011.
- Gulyaeva, T.L., F. Arikani, and I. Stanislawski. Virtual ionosonde network in conjugate hemisphere, *General Assembly and Scientific Symposium, 2011 XXXth URSI*, IEEE, 1-3, doi:10.1109/URSIGASS.2011.6050966, 2011.

- Gulyaeva, T.L., Poustovalova, L.V. The instantaneous ionosphere peak height shift versus relative changes of the critical frequency. *General Assembly and Scientific Symposium, 2011 XXXth, URSI, IEEE*, 1-3, doi: 10.1109/URSIGASS.2011.6050979, 2011.
- Gulyaeva, T. Empirical model of ionospheric storm effects on the F2 layer peak height associated with changes of peak electron density, *J. Geophys. Res.*, 117, A02302, doi:10.1029/2011JA017158, 2012.
- Gulyaeva, T.L., and Bilitza, D. Towards ISO Standard Earth Ionosphere and Plasmasphere Model. In: *"New Developments in the Standard Model"*, edited by R.J. Larsen, pp. 1-39, NOVA, Hauppauge, New York, 2012 [Available at https://www.novapublishers.com/catalog/product_info.php?products_id=35812]
- Gulyaeva, T. and I. S. Veselovsky. Two-phase storm profile of global electron content in the ionosphere and plasmasphere of the earth, *J. Geophys. Res.*, v.117, No.A9, A09325, doi:10.1029/2012JA018017, 2012.
- Sapaz, M.S., Arikan, F., Gulyaeva, T. Investigation of ionospheric pierce points for TNPNG-active network. *Signal Processing and Communication Application Conference (SIU)*, IEEE, 1-4, doi:10.1109/SIU.2012.6204766, 2012.
- Sapaz, M.S., Arikan, F., Gulyaeva, T., Koroglu, O. Analysis of probability density functions of Total Electron Content for magnetic conjugate locations. *Recent Advances in Space Technologies (RAST)*, IEEE, 769-772, doi: 10.1109/RAST.2013.6581314, 2013.
- Cilibas, O., Sezen, U., Arikan, F., Gulyaeva, T. Global Mapping of Hourly TEC and Ionospheric Critical Parameters by Using IRI-Plas Optimization. *Recent Advances in Space Technologies (RAST)*, IEEE, 735-738, doi: 10.1109/RAST.2013.6581307, 2013.
- Gulyaeva, T.L. and Stanislawski, I. Deformation of the ionosphere structure during the space weather events on October-November 2003. *Adv. Space Res.*, 51(4), 683-690, doi:10.1016/j.asr.2011.09.022 , 2013.
- Gulyaeva, T.L., Arikan, F., Stanislawski, I., Poustovalova, L.V. Symmetry and asymmetry of ionospheric weather at magnetic conjugate points for two midlatitude observatories, *Adv. Space Res.*, 52(10), 1837-1844, doi:10.1016/j.asr.2012.09.038, 2013.
- Gulyaeva, T.L., F. Arikan, M. Hernandez-Pajares, I. Stanislawski. GIM-TEC adaptive ionospheric weather assessment and forecast system. *J. Atmosph. Solar-Terr. Phys.*, 102, 329-340, doi:10.1016/j.jastp.2013.06.011, 2013.
- Gulyaeva, T.L., and I.S. Veselovsky. Imaging Global Electron Content backwards in time more than 160 years ago. *Adv. Space Res.*, 53(3), 403-411, doi:10.1016/j.asr.2013.11.036, 2014.
- Tuna H., O. Arikan, F. Arikan, T.L. Gulyaeva, and U. Sezen. Online User-Friendly Slant Total Electron Content Computation from IRI-Plas: IRI-Plas-STEAC. *Space Weather*, 12(1), 64-75, doi:10.1002/2013SW000998, 2014.
- Gulyaeva, T.L., F. Arikan, I. Stanislawski. Probability of occurrence of planetary ionosphere storms associated with the magnetosphere disturbance storm time events. *Advances in Radio Sci.*, 12, 261-266, doi:10.5194/ars-12-261-2014, <http://www.adv-radio-sci.net/12/261/2014/ars-12-261-2014.pdf>, 2014.

- Gulyaeva, T. L., F. Arikan, M. Hernandez-Pajares, and I. S. Veselovsky. North-south components of the annual asymmetry in the ionosphere, *Radio Sci.*, 49(7), 485-496, doi:10.1002/2014RS005401, 2014.
- Gulyaeva, T.L., Radicella, S.M., Nava, B., Orue, E.M. Merging Ne-Quick ionosphere model with plasmasphere formulation of IRI-Plas model. *General Assembly and Scientific Symposium, (URSI GASS), 2014 XXXIth URSI*, IEEE, 1-3, doi: 10.1109/URSIGASS.2014.6929784, 2014.
- Gulyaeva, T.L. Association of seismic activity with solar cycle and geomagnetic activity, *Development in Earth Science*, 2, 14-19, <http://www.seipub.org/des/>, 2014.
- Arikan, Feza, Umut Sezen, Onur Cilibas, Tamara L. Gulyaeva, Online, Automatic, Ionospheric Maps: IRI-PLAS-MAP. *Adv. Space Res.*, 55, No.8, 2106-2113, doi:10.1016/j.asr.2014.10.016, 2015.
- Yenen, S.D., Gulyaeva, T.L., Arikan, F., Arikan, O. Association of ionospheric storms and substorms of Global Electron Content with proxy AE index. *Adv. Space Res.*, 56(7), 1343-1353, doi:/10.1016/j.asr.2015.06.025, 2015.
- Гуляева Т.Л. Анализ геомагнитно-ионосферных бурь, инициированных возмущениями ММП и параметров солнечного ветра. Солнечная и солнечно-земная физика – 2015. Труды ГАО РАН, 103-106, http://www.gao.spb.ru/russian/publ-s/conf_2015/conf_2015.pdf, 2015.
- Gulyaeva T.L., Arikan F., Stanislawski I., Poustovalova L.V. Global distribution of zones of enhanced risk for the ionospheric weather. *J. Geography, Earth, Environ. Int.*, 4(1), 1-13, DOI:10.9734/JGEEI/2016/20488, <http://sciencedomain.org/issue/1438>, 2016.
- Stanislawski I., Gulyaeva T. L. Ionospheric W index based on GNSS TEC in the operational use for navigation systems//Satellite Positioning methods, models and applications. 131-148, ISBN 978-953-51-1738-4, 2016.
- Arikan, F., Shukurov, S., Tuna, H., Arikan, O., Gulyaeva T.L. Performance of GPS slant total electron content and IRI-Plas-STECH for days with ionospheric disturbance. *Geodesy and Geodynamics*, 7, 1-10, DOI:10.1016/j.geog.2015.12.009, 2016.
- Гуляева Т.Л. Модификация индексов солнечной активности в международной справочной модели ионосферы IRI и IRI-Plas в связи с пересмотром ряда чисел солнечных пятен, Солнечно-земная физика, 2, № 3, 59-68, DOI:10.12737/20872, 2016, http://ru.iszf.irk.ru/images/9/9c/ЖСЗФ_2_3_2016_59-68.pdf// Gulyaeva T.L. Modification of the solar activity indices in the International Reference Ionosphere IRI and IRI-Plas models due to recent revision of sunspot number time series. *Solar-Terrestrial Physics (Solnechno-Zemnaya Fizika)*, v. 2, no. 3, p. 87–98, 2016, DOI: 10.12737/20872, http://ru.iszf.irk.ru/images/0/0a/JSTP_2_3_2016_87-98.pdf
- Гуляева Т.Л. Прогноз глобального электронного содержания в ионосфере в процессе развития геомагнитной бури. Солнечная и солнечно-земная физика – 2016. Труды ГАО РАН, 85-88, http://www.gao.spb.ru/russian/publ-s/conf_2016/conf_2016.pdf, 2016.
- Gulyaeva, T., and Arikan, F. Statistical discrimination of global post-seismic ionosphere effects under geomagnetic quiet and storm conditions, *Geomatics, Natural Hazards and Risk*, 8(2), 240-255, DOI:10.1080/19475705.2016.1246483, <http://dx.doi.org/10.1080/19475705.2016.1246483>, 2017. (49 free eprints remaining at <http://www.tandfonline.com/eprint/aD4z7Rfzx6vduixEpFe/full>)

- Gulyaeva, T., Arian, F., Stanislawski, I. Persistent long-term (1944-2015) ionosphere-magnetosphere associations at the area of intense seismic activity and beyond. *Adv. Space. Res.*, 59, N.4, 1033-1040, DOI:10.1016/j.asr.2016.11.022, 2017.
- Gulyaeva, T., Arian, F., Stanislawski, I. Earthquake aftereffects in the Equatorial Ionization Anomaly region under geomagnetic quiet and storm conditions. *Adv. Space Res.*, 60, 406-418, DOI: 10.1016/j.asr.2017.03.039, 2017.
- Gulyaeva, T., Arian, F., Poustovalova, L., Sezen, U. TEC Proxy Index of Solar Activity for the International Reference Ionosphere IRI and its Extension to Plasmasphere IRI-Plas Model. *Int. J. Sci. Eng. Applied Sci.*, 3, 5, 144-150, <http://ijseas.com/index.php/issue-archive-2/volume3/issue-5/>, 2017.
- Gulyaeva T.L. Ranking ICME's efficiency for geomagnetic and ionospheric storms and risk of false alarms. *J. Atmos. Solar-Terr. Phys.*, 164, 39-47, <https://doi.org/10.1016/j.jastp.2017.07.021>, 2017.
- Sezen, U., T.L. Gulyaeva, and F. Arian. Online International Reference Ionosphere Extended to Plasmasphere (IRI-Plas) Model. Proc. URSI GASS-2017, IEEE, 1-4, <https://doi.org/10.23919/ursigass.2017.8105426>, 2017.
- Hadas, T., A. Krypiak-Gregorczyk, M. Hernández-Pajares, J. Kaplon, J. Paziewski, P. Wielgosz, A. Garcia-Rigo, K. Kazmierski, K. Sosnica, D. Kwasniak, J. Sierny, J. Bosy, M. Pucilowski, R. Szyszko, K. Portasiak, G. Olivares-Pulido, T. Gulyaeva, R. Orus-Perez. Impact and implementation of higher-order ionospheric effects on precise GNSS applications. *J. Geophys. Res., Solid Earth*, 122, No.1, 9420-9436, <https://doi.org/10.1002/2017JB014750>, 2017.
- Гуляева Т.Л. Модернизация солнечных управляющих параметров в Международной модели ионосферы и плазмосферы после ревизии ряда чисел солнечных пятен. Солнечная и солнечно-земная физика – 2017. Труды ГАО РАН, 127-130, http://www.gaoran.ru/russian/pubs/conf_2017/conf_2017.pdf, 2017.
- Sezen, U., Gulyaeva, T., Arian, F. Performance of solar proxy options of IRI-Plas model for equinox seasons. *J. Geophys. Res., Space Phys.*, 123(2), 1441-1456, <https://doi.org/10.1002/2017JA024994>, 2018.
- Gulyaeva, T.L., Arian, F., Sezen, U., Poustovalova, L.V. Eight proxy indices of solar activity for the International Reference Ionosphere and Plasmasphere model. *J. Atmos. Solar-Terr. Phys.*, 172, 122-128, <https://doi.org/10.1016/j.jastp.2018.03.025>, 2018.
- Sezen, U., Gulyaeva, T., Arian, F. Online Computation of International Reference Ionosphere Extended to Plasmasphere (IRI-Plas) Model for Space Weather. *Geodesy and Geodynamics*, <https://doi.org/10.1016/j.geog.2018.06.004>, 2018.

Gulyaeva, T.L., Gulyaev, R.A. Coherent changes of solar and ionospheric activity during long-lived coronal mega-hole from Carrington rotation CR2165 to CR2188. *J. Atmos. Solar-Terr. Phys.*, 179, 165-173, <https://doi.org/10.1016/j.jastp.2018.07.007>, 2018.

Gulyaeva, T.L. Predicting indices of the ionosphere response to solar activity for the ascending phase of the 25th solar cycle. *Adv. Space Res.*, <https://doi.org/10.1016/j.asr.2018.11.002>, 2018.

Stanislawska, I., Gulyaeva, T.L., Grynshyna-Poliuga, O., Pustovalova, L.V. Ionospheric weather during five extreme geomagnetic superstorms since IGY deduced with the instantaneous global maps GIM-foF2. *Space Weather*, <https://doi.org/10.1029/2018SW001945>, 2018.