

Personal Publications by Pasha Ponomarenko

PhD thesis

Decameter signal scattering by the natural and artificial small-scale turbulence of the ionospheric plasma / Kharkov State University, 1995, Kharkov, Ukraine. 153 pp.

Refereed Journal Articles (51)

1. **Ponomarenko, P. V.**, Bland, E. C., McWilliams, K. A., & Nishitani, N. (2022). On the noise estimation in Super Dual Auroral Radar Network data. *Radio Science*, 57, e2022RS007449. <https://doi.org/10.1029/2022RS007449>
2. Gareth Chisham, Angeline G. Burrell, Aurelie Marchaudon, Simon G. Shepherd, Evan G. Thomas, **Pasha Ponomarenko**, Comparison of interferometer calibration techniques for improved SuperDARN elevation angles, *Polar Science*, 2021, 100638, ISSN 1873-9652, <https://doi.org/10.1016/j.polar.2021.100638>
3. Berngardt, O. I., R. R. Fedorov, **P. Ponomarenko**, K. V. Grkovich, Interferometric calibration and the first elevation observations at EKB ISTP SB RAS radar at 10-12 MHz, *Polar Science*, 2020, 100628, ISSN 1873-9652, <https://doi.org/10.1016/j.polar.2020.100628> <http://www.sciencedirect.com/science/article/pii/S1873965220301523>
4. Koustov, A.V., Ullrich, S., **Ponomarenko, P.V.** *et al.* Comparison of SuperDARN peak electron density estimates based on elevation angle measurements to ionosonde and incoherent scatter radar measurements. *Earth Planets Space* **72**, 43 (2020). <https://doi.org/10.1186/s40623-020-01170-w>
5. Koustov, A.V., Ullrich, S., **Ponomarenko, P.V.** *et al.* Occurrence of F region echoes for the polar cap SuperDARN radars. *Earth Planets Space* **71**, 112 (2019). <https://doi.org/10.1186/s40623-019-1092-9> (featured)
6. Nishitani, N. J.M. Ruohoniemi, M. Lester, J.B.H. Baker, A.V. Koustov, S.G. Shepherd, G. Chisham, T. Hori, E.G. Thomas, R.A. Makarevich, A. Marchaudon, **P. Ponomarenko**, J.A. Wild, S.E. Milan, W.A. Bristow, J. Devlin, E. Miller, R.A.Greenwald, T. Ogawa, and T. Kikuchi (2019), Review of the accomplishments of Mid-latitude Super Dual Auroral Radar Network (SuperDARN) HF Radars, *Progress in Earth and Planetary Science*, 6:27, <https://doi.org/10.1186/s40645-019-0270-5>
7. **Ponomarenko, P.**, St.-Maurice, J.-P., and McWilliams, K. A. (2018). Calibrating HF radar elevation angle measurements using *E* layer backscatter echoes. *Radio Science*, 53, 1438–1449. <https://doi.org/10.1029/2018RS006638>
8. Koustov, A. V., **Ponomarenko, P. V.**, Graf, C. J., Gillies, R. G., & Themens, D. R. (2018), Optimal F region electron density for the PolarDARN radar echo detection near the Resolute Bay zenith. *Radio Science*, 53. <https://doi.org/10.1029/2018RS006566>
9. Koustov, A. V., K. N. Yakymenko, and **P. V. Ponomarenko** (2017), Seasonal effect for polar cap sunward plasma flows at strongly northward IMF Bz, *J. Geophys. Res. Space Physics*, 122, doi:10.1002/2016JA023556.

10. **Ponomarenko, P. V.**, B. Iserhienrhen, and J.-P. St.-Maurice (2016), Morphology and possible origins of near-range oblique HF backscatter at high and midlatitudes, *Radio Sci.*, 51, 718–730, doi:10.1002/2016RS006088.
11. Oinats, A.V., Nishitani, N., **Ponomarenko, P.**, Berngardt, O.I., Ratovsky, K.G., Statistical characteristics of medium-scale traveling ionospheric disturbances revealed from the Hokkaido East and Ekaterinburg HF radar data, *Earth, Planets and Space*, 2016, 68:8, DOI: 10.1186/s40623-016-0390-8.
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14. A. V. Koustov, **P. V. Ponomarenko**, M. Ghezelbash, D. R. Themens, and P. T. Jayachandran (2014), Electron density and electric field over Resolute Bay and F region ionospheric echo detection with the Rankin Inlet and Inuvik SuperDARN radars, *Radio Sci.*, 49, doi:[10.1002/2014RS005579](https://doi.org/10.1002/2014RS005579).
15. A.V. Koustov, K. N. Yakymenko, N. Nishitani, and **P. V. Ponomarenko**, Hokkaido HF radar signatures of periodically reoccurring nighttime MSTIDs detected at short ranges (2014), *J. Geophys. Res. Space Physics*, 119, doi: 10.1002/2013JA019422.
16. Scoular, G., **P. V. Ponomarenko**, and J.P. St.-Maurice (2013), A new type of Doppler velocity fluctuations in HF ground scatter from the polar cap, *Geophys. Res. Lett.*, 40, doi:[10.1002/grl.50960](https://doi.org/10.1002/grl.50960).
17. S. de Larquier, **P. Ponomarenko**, A. J. Ribeiro, J. M. Ruohoniemi, J. B. H. Baker, K. T. Sterne, and M. Lester (2013), On the spatial distribution of decameter-scale subauroral ionospheric irregularities observed by SuperDARN radars, *J. Geophys. Res. Space Physics*, 118, doi:[10.1002/jgra.50475](https://doi.org/10.1002/jgra.50475).
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19. A. J. Ribeiro, **P. V. Ponomarenko**, J. M. Ruohoniemi, J. B. H. Baker, L. B. N. Clausen, R. A. Greenwald, and S. de Larquier (2013), A realistic radar data simulator for the Super Dual Auroral Radar Network, *Radio Sci.*, 48, 283-288, doi:[10.1002/rds.20032](https://doi.org/10.1002/rds.20032).
20. **P. V. Ponomarenko** and C. L. Waters (2013), Transition of Pi2 ULF wave polarization structure from the ionosphere to the ground, *Geophys. Res. Lett.*, 40, 1474–1478, doi:[10.1002/grl.50271](https://doi.org/10.1002/grl.50271).
21. **P. V. Ponomarenko**, A. V. Koustov, J.-P. St. Maurice, and J. Wiid, Monitoring the F-region peak electron density using HF backscatter interferometry, *Geophys. Res. Lett.*, 38, L21102, doi:10.1029/2011GL049675.
22. R. G. Gillies, G. C. Hussey , G. J. Sofko , **P. V. Ponomarenko**, and K. A. McWilliams, Improvement of HF coherent radar line-of-sight velocities by estimating the refractive index in the scattering volume using radar frequency shifting, *J. Geophys. Res.*, 116, A01302, doi:10.1029/2010JA016043, 2011.
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Conference Papers (4)

1. V.G.Bezrodny, **P.V.Ponomarenko**, and Y.M.Yampolski, Polarimetric radar sounding of the ionosphere based on the Brewster effect.- Third International workshop on radar polarimetry, Nantes, France, 21-23 March, 1995, Proc., vol. 2, p.p.571-577.

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4. A.V. Oinats, N. Nishitani, **P. Ponomarenko**, O. I. Bemgardt, K. G. Ratovsky', M. V. Tolstikov, Statistical Study of Medium-Scale Traveling Ionospheric Disturbances using Hokkaido East and Ekaterinburg HF Radar Data, Proceedings of 5th International conference “Atmosphere, Ionosphere, Safety”, 2016, Kaliningrad, Russia, p.191-197.

Conference Presentations (153)

1. **Pasha Ponomarenko** and Kathryn McWilliams, Identification of HF propagation modes at very high latitudes using SuperDARN interferometry, 2022 Division of Atmospheric and Space Physics (DASP) Workshop (virtual), February 21-25, 2022
2. Emma Bland, **Pasha Ponomarenko**, Kathryn McWilliams, and Nozomu Nishitani, Hardware and operational factors affecting the data pre-selection in FITACF, SuperDARN Workshop 2021, South Africa (virtual, Hosted by the South African National Space Agency), 24 – 28 May 2021.
3. **Pasha Ponomarenko**, Emma Bland, and Kathryn McWilliams, On atmospheric noise estimate by SuperDARN software, SuperDARN Workshop 2021, South Africa (virtual, Hosted by the South African National Space Agency), 24 – 28 May 2021.
4. **Pasha Ponomarenko**, Kathryn McWilliams, Jean-Pierre St.-Maurice, Advantages and limitations of IQ-based SuperDARN interferometry, SuperDARN Workshop 2019 Fuji, Japan 2-7 June, 2019, Book of Abstracts, p.19.
5. Angeline G. Burrell, Aurélie Marchaudon, Gareth Chisham, **Pasha Ponomarenko**, Simon Shepherd, Comparison of different interferometer calibration methods, SuperDARN Workshop 2019 Fuji, Japan 2-7 June, 2019, Book of Abstracts, p.30.
6. N. Nishitani, J.M. Ruohoniemi, M. Lester, J.B.H. Baker, A.V. Koustov, S.G. Shepherd, G. Chisham, T. Hori, E.G. Thomas, R.A. Makarevich, A. Marchaudon, **P. Ponomarenko**, J.A. Wild, S.E. Milan, W.A. Bristow, J. Devlin, E. Miller, R.A. Greenwald, T. Ogawa, T. Kikuchi, Mid-latitude SuperDARN Review Paper, SuperDARN Workshop 2019 Fuji, Japan 2-7 June, 2019, Book of Abstracts, p.59.
7. **Pasha Ponomarenko**, Kathryn McWilliams, Jean-Pierre St.-Maurice, Validation of the SuperDARN range-finding algorithms in the polar cap, SuperDARN Workshop 2019 Fuji, Japan 2-7 June, 2019, Book of Abstracts, p.114.

8. A.V. Koustov, S. Ullirich, **P. V. Ponomarenko**, N.Nishitani, M. F. Marcucci, W. A. Bristow, Variations in occurrence of polar cap SuperDARN echoes and their causes, SuperDARN Workshop 2019 Fuji, Japan 2-7 June, 2019, Book of Abstracts, p.116.
9. Emma Bland, **Pasha Ponomarenko**, Colin Waters, An Evaluation of FITACF3 - Part 1: Backscatter Occurrence in Range-Time Space, Book of Abstracts, Workshop SuperDARN 2018, p. 25.
10. **Pasha Ponomarenko**, Colin Waters, Emma Bland, An Evaluation of FITACF3 - Part 2: Fitted Parameters, Errors, and Background Noise Determination, Book of Abstracts, Workshop SuperDARN 2018, p. 26.
11. **Pasha Ponomarenko**, SuperDARN interferometry calibration using low-elevation echoes, Book of Abstracts, Workshop SuperDARN 2018, p. 54.
12. Aurelie Marchaudon, Angeline Burrell, Gareth Chisham, **Pasha Ponomarenko**, Simon Shepherd, Final report of the Tdiff Task Force, Book of Abstracts, Workshop SuperDARN 2018, p. 55.
13. Alexandre Koustov, **Pavlo Ponomarenko**, Clayton Graf, Robert Gillies, Nathaniel Haven, David Themens, Assessment of optimal F region electron density for the PolarDARN radar echo detection near the Resolute Bay zenith, Book of Abstracts, Workshop SuperDARN 2018, p. 72.
14. Maxym Kravchuk, **Pasha Ponomarenko**, Kathryn McWilliams, SuperDARN spectral width: known and unknown, Book of Abstracts, Workshop SuperDARN 2018, p. 99.
15. William Merrett, **Pasha Ponomarenko**, Jean-Pierre St.-Maurice, A closer look at near-range echoes, Book of Abstracts, Workshop SuperDARN 2018, p. 104.
16. **P. Ponomarenko** and N. Nishitani, New insight into Tohoku earthquake signatures observed by the Hokkaido East SuperDARN radar, SuperDARN Workshop 2017, San Quirico D'Orcia, Italy, 4-9 June 2017.
17. **P. Ponomarenko** and J.-P. St.-Maurice, On the presence of Type 1 echoes in SuperDARN data, SuperDARN Workshop 2017, San Quirico D'Orcia, Italy, 4-9 June 2017.
18. **P. Ponomarenko** and J.-P. St.-Maurice, Expanding Capabilities of Super Dual Auroral Radar Network in Monitoring Space Weather at High Latitudes (G38-4), 32nd URSI GASS, Montreal, 19-26 August 2017.
19. **P. Ponomarenko**, **G. Scoular**, and **J.-P. St-Maurice**, ULF waves and other sources of Doppler shift variations in HF echoes from high latitudes, Magnetosphere-Ionosphere Symposium, Nishijin Plaza, Kyushu University, Fukuoka, Japan, 15 March 2017.
20. **P. Ponomarenko** and N. Nishitani, Re-analysis of Tohoku earthquake signatures in Hokkaido East SuperDARN radar data, Magnetosphere-Ionosphere Symposium, Nishijin Plaza, Kyushu University, Fukuoka, Japan, 14 March 2017.
21. **P. Ponomarenko**, Combined radar-ground observations of ULF wave activity near the plasmopause, Research meeting "Observation and Modeling of Plasmasphere", Osaka Electro Communication University, 6-7 March 2017.
22. **P. Ponomarenko**, Effects of ionospheric refractive index on SuperDARN data, Symposium of Space Science and Radio Engineering, 14-15 Feb 2017, Univ. of Electro-Communications, Tokyo, Japan.
23. **P. Ponomarenko** and K. Kotyk, FITACF3.0, SuperDARN Workshop, 29/05-04/06 2016, Fairbanks, Alaska, US.
24. **P. Ponomarenko** and J.-P. St.-Maurice, On monitoring HF propagation conditions at high latitudes, SuperDARN Workshop 2015, 31 May – 5 June 2015, Leicester, UK, Book of Abstracts, p. 56.

25. **P. Ponomarenko**, N. Nishitani, A. Oinats, T. Tsuya, and J.-P. St.-Maurice, Calibration of historic interferometry data, SuperDARN Workshop 2015, 31 May – 5 June 2015, Leicester, UK, Book of Abstracts, p. 57.
26. **P. V. Ponomarenko** and C. L. Waters, Ionosphere-ground transition of Pi2 polarisation near the plasmapause, The 12th International Conference on Substorms (ICS-12), 10-14 November 2014, Ise-Shima Royal Hotel, Japan.
27. **P. V. Ponomarenko**, Towards an empirical model of HF propagation at high latitudes, The 5th Symposium on Polar Science, National Institute of Polar Research, Tokyo, 2-5 December 2014.
28. **P. V. Ponomarenko**, B. Iserhienrhien, J.-P. St.-Maurice, and N. Nishitani, Morphology and possible origins of close-range echoes, The 136th SGEPS fall meeting, 31 October-3 November 2014, Matsumoto, Japan.
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30. **P. V. Ponomarenko**, SuperDARN as a monitor of HF propagation conditions at high latitudes, Space Weather Workshop, 03 October 2014, National Institute of Information and Communications Technology, Tokyo, Japan.
31. **P. V. Ponomarenko**, K. Krieger and J.-P. St.-Maurice, Characteristics and possible sources of the background noise in SuperDARN measurements, 2014 SuperDARN Workshop, May 25th – May 30th 2014, University Centre in Svalbard, Norway, Workshop Abstracts, p. 14.
32. **P. V. Ponomarenko**, A. V. Koustov, D. R. Themens, and J.-P. St.-Maurice, Verification of F-region critical frequencies estimated from SuperDARN interferometry, 2014 SuperDARN Workshop, May 25th – May 30th 2014, University Centre in Svalbard, Norway, Workshop Abstracts, p. 15.
33. **P. V. Ponomarenko**, B. Iserhienrhien, and J.-P. St.-Maurice, Seasonal-diurnal variability of near-range echoes, 2014 SuperDARN Workshop, May 25th – May 30th 2014, University Centre in Svalbard, Norway, Workshop Abstracts, p. 21.
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35. E. G. Thomas, K. T. Sterne, **P. V. Ponomarenko**, J. B. H. Baker, and J. M. Ruohoniemi, Remote sensing of sea ice cover using SuperDARN HF radars, SuperDARN 2013 Workshop, 26-31 May 2013, Moose Jaw, Canada, Program and abstracts, p.16.
36. **P. Ponomarenko**, SuperDARN velocity errors (**invited** tutorial), SuperDARN 2013 Workshop, 26-31 May 2013, Moose Jaw, Canada, Program and abstracts, p.43.
37. A. Koustov, N. Nishitani, **P. Ponomarenko**, and K. Yakymenko, Periodically-occurring MSTIDs seen through E-region Hokkaido echoes on 17 August 2010, SuperDARN 2013 Workshop, 26-31 May 2013, Moose Jaw, Canada, Program and abstracts, p.51.
38. G. Scoular, **P. Ponomarenko**, and J.-P. St.-Maurice, Polar Cap Ionospheric Oscillations in the ULF Frequency Range Observed with SuperDARN, , SuperDARN 2013 Workshop, 26-31 May 2013, Moose Jaw, Canada, Program and abstracts, p.54.
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