



[\[2010 \]](#) [\[2011 \]](#) [\[2012 \]](#) [\[2013 \]](#) [\[2014 \]](#) [\[2015 \]](#) [\[2016 \]](#) [\[2017 \]](#)

2017

[\[top \]](#) [\[2016 \]](#) [\[End \]](#)

1. Akbari, H., Bhatt, A., La Hoz, C. and Semeter, J., Incoherent Scatter Plasma Lines: Observations and Applications, Space Sci. Rev., [doi:10.1007/s11214-017-0355-7](https://doi.org/10.1007/s11214-017-0355-7), 2017.
2. Blagoveshchenskaya, N. F., T.D. Borisova, A.S. Kalishin, T.K. Yeoman, I. Häggström, First observations of electron gyro-harmonic effects under X-mode HF pumping the high latitude ionospheric F-region, Journal of Atmospheric and Solar-Terrestrial Physics, 155, [36-49](#), 2017.
3. Mahmoudian, A., A. R. Mohebalhojeh, M. M. Farahani, W. A. Scales, and M. Kosch, Remote sensing of mesospheric dust layers using active modulation of PMWE by high-power radiowaves, J. Geophys. Res. Space Physics, 121, [doi:10.1002/2016JA023388](https://doi.org/10.1002/2016JA023388), 2017.
4. Wu J, J. Wu, H. Zhao and Z. Xu, Analysis of incoherent scatter during ionospheric heating near the fifth electron gyrofrequency, Plasma Sci. Technol., 19(4), [doi:10.1088/2058-6272/aa58db](https://doi.org/10.1088/2058-6272/aa58db), 2017.
5. Wu, J., J. Wu, M. T. Rietveld, I. Haggstrom, H. Zhao, and Z. Xu, The behavior of electron density and temperature during ionospheric heating near the fifth electron gyrofrequency, J. Geophys. Res. Space Physics, 122, [doi:10.1002/2016JA023121](https://doi.org/10.1002/2016JA023121), 2017.

2016

[\[Top \]](#) [\[2017 \]](#) [\[2015 \]](#) [\[End \]](#)

1. Borisova, T. D., N. F. Blagoveshchenskaya, A.S.Kalishin, M.T.Rietveld, T.K.Yeoman, and I.Haggstrom, Modification of the High-Latitude Ionospheric F Region By High-Power HF Radio Waves at Frequencies Near the fifth and Sixth Electron Gyroharmonics, Radiophysics and Quantum Electronics, Vol.58, No.8, (Russian Original Vol. 58, No. 8, August, 2015), [DOI 10.1007/s11141-016-9629-2](https://doi.org/10.1007/s11141-016-9629-2), 2016.
2. Burrell, A. G., T. K. Yeoman, S. E. Milan, and M. Lester, Phase calibration of



- interferometer arrays at high-frequency radars, *Radio Sci.*, 51, [doi:10.1002/2016RS006089](https://doi.org/10.1002/2016RS006089), 2016.
3. *Cannon, P. D., F. Honary, and N. Borisov, Two-dimensional numerical simulation of O-mode to Z-mode conversion in the ionosphere, *J. Geophys. Res. Space Physics*, 121, [doi:10.1002/2015JA022105](https://doi.org/10.1002/2015JA022105), 2016.*
 4. Havnes, O., and T. W. Hartquist, Nanodust shedding and its potential influence on dust-related phenomena in the mesosphere, *J. Geophys. Res. Atmos.*, 121, 12,363–12,376, [doi:10.1002/2016JD025037](https://doi.org/10.1002/2016JD025037), 2016.
 5. Mishin, E., B. Watkins, N. Lehtinen, B. Eliasson, T. Pedersen, and S. Grach, Artificial ionospheric layers driven by high-frequency radiowaves: An assessment, *J. Geophys. Res. Space Physics*, 121, [doi:10.1002/2015JA021823](https://doi.org/10.1002/2015JA021823), 2016.
 6. Rietveld, M. T., A. Senior, J. Markkanen, and A. Westman, New capabilities of the upgraded EISCAT high-power HF facility, *Radio Sci.*, 51, [doi:10.1002/2016RS006093](https://doi.org/10.1002/2016RS006093), 2016.
 7. Sarno-Smith, L. K., M. Kosch, T. Yeoman, M. Rietveld, A. Nel, and M. Liemohn, Ionospheric Electron Number Densities from CUTLASS dual-frequency Velocity Measurements using artificial backscatter over EISCAT, *J. Geophys. Res. Space Physics*, 121, [doi:10.1002/2016JA022788](https://doi.org/10.1002/2016JA022788), 2016.
 8. Wang, X., P. Cannon, C. Zhou, F. Honary, B. Ni, and Z. Zhao, A Theoretical Investigation on the Parametric Instability Excited by X-mode Polarized Electromagnetic Wave at Tromsø, *J. Geophys. Res. Space Physics*, 121, [doi:10.1002/2016JA022411](https://doi.org/10.1002/2016JA022411), 2016.
 9. Wang, X., C. Zhou, M. Liu, F. Honary, B. Ni, and Z. Zhao, Parametric instability induced by X-mode wave heating at EISCAT, *J. Geophys. Res. Space Physics*, 121, [doi:10.1002/2016JA023070](https://doi.org/10.1002/2016JA023070), 2016.
 10. Wu J, J. Wu, and Z. Xu, Results of ionospheric heating experiments involving an enhancement in electron density in the high latitude ionosphere, *Plasma Sci. Technol.*, 18(5), 890, 2016.

2015

[\[Top \]](#) [\[2014 \]](#) [\[2016 \]](#) [\[End \]](#)

1. Blagoveshchenskaya, N. F., T. D. Borisova, T. K. Yeoman, I. Häggström, A. S. Kalishin,



- Modification of the high latitude ionosphere F region by X-mode powerful HF radiowaves: Experimental results from multi-instrument diagnostics, *J. Atmos. Sol.-Terr. Phys.*, 135, 50-63, [doi:10.1016/j.jastp.2015.10.009](https://doi.org/10.1016/j.jastp.2015.10.009), 2015.
2. Fu, H., W. A. Scales, P. A. Bernhardt, S. J. Briczinski, M. J. Kosch, A. Senior, M. T. Rietveld, T. K. Yeoman, and J. M. Ruohoniemi, Stimulated Brillouin Scattering During Electron Gyro-Harmonic Heating at EISCAT, *Annales Geophysicae*, 33, 983-990, [DOI: 10.5194/angeo-33-983-2015](https://doi.org/10.5194/angeo-33-983-2015), 2015.
 3. Havnes, O., H. Pinedo, C. La Hoz, A. Senior, T. Hartquist, M. T. Rietveld, M. J. Kosch, A comparison of Overshoot modelling with observations of Polar Mesospheric Summer Echoes at radar frequencies 56 and 224 MHz, *Ann. Geophys.*, [doi:10.5194/angeo-33-737-2015](https://doi.org/10.5194/angeo-33-737-2015), 2015.
 4. Havnes, Ove; Pinedo Nava, Henry; La Hoz, Cesar; Senior, Andrew; Hartquist, Tom; Rietveld, Michael T; Kosch, M.J.. Electron Heating Effects on Polar Mesospheric Clouds – A Comparison Between Observations and Modelling. Proceedings of the Cluster and Double Star Symposium – 5th Anniversary of Cluster in Space 2015. ISSN 1609-042X.s 71 – 77., 2015.

2014

[\[Top \]](#) [\[2013 \]](#) [\[2015 \]](#) [\[End \]](#)

1. Blagoveshchenskaya, N. F., T. D. Borisova, M. Kosch, T. Sergienko, U. Brändström, T. K. Yeoman, I. Häggström, Optical and Ionospheric Phenomena at EISCAT under Continuous X-mode HF Pumping, *J. Geophys. Res.*, 119, [DOI: 10.1002/2014JA020658](https://doi.org/10.1002/2014JA020658), 2014.
2. Borisova, T. D., N. F. Blagoveshchenskaya, A. S. Kalishin, M. Kosch, A. Senior, M. T. Rietveld, T. K. Yeoman, and I. Hagstrom, Phenomena in the High Latitude F-Region of the Ionosphere Induced by a HF Heater Wave at Frequencies near the Fourth Electron Gyroharmonic, *Radiophysics and Quantum Electronics*, 62, 1, [1-22](#), 2014.
3. Bryers, Carl, Quantitative modelling of ionospheric modification experiments at EISCAT, Ph.D thesis, University of Lancaster, UK, 2014.
4. Cheng, M.-S., B. Xu, Z.-S. Wu, H.-Y. Li, Z-W. Xu, J. Wu, J. Wu, A large increase in electron density in ionospheric heating experiment, *Chinese J. Geophys. (in Chinese)*, 57, 11, 3633-3641, [doi:10.6038/cjg201411117](https://doi.org/10.6038/cjg201411117), 2014.



5. Fedorenko, Yu., E. Tereshchenko, S. Pilgaev, V. Grigoryev, N. Blagoveshchenskaya, Polarization of ELF waves generated during "beat-wave" heating experiment near cut-off frequency of the Earth-ionosphere waveguide, *Rad. Sci.*, 49, DOI: [10.1002/2013RS005336](https://doi.org/10.1002/2013RS005336), 2014.
6. Kosch, M. J., H. Vickers, Y. Ogawa, A. Senior, N. Blagoveshchenskaya, First observation of the anomalous electric field in the topside ionosphere by ionospheric modification over EISCAT, *Geophys. Res. Lett.*, 41, 21, 7427-7435, DOI: [10.1002/2014GL061679](https://doi.org/10.1002/2014GL061679), 2014.
7. Kosch, M. J., C. Bryers, M. T. Rietveld, T. K. Yeoman and Y. Ogawa, Aspect angle sensitivity of pump-induced optical emissions at EISCAT, *Earth, Planets and Space*, 66:159, DOI: [10.1186/s40623-014-0159-x](https://doi.org/10.1186/s40623-014-0159-x), 2014.
8. Mogilevsky, M. M., D. V. Chugunin, I. L. Moiseenko, and T. V. Romantsova, Suppression of Auroral Kilometric Radiation by an HF Heating Facility, *Cosmic Research*, 52, 1, 68-71, 2014.
9. Panasenko, S. V., M. T. Rietveld, C. La Hoz, I. F. Domnin, Travelling Ionospheric Disturbances over Kharkiv, Ukraine, Accompanying the Operation of the EISCAT Heater Facility, *Bulletin of the National Technical University "Kharkiv Polytechnic Institute". Series: Radiophysics and Ionosphere*, Kharkiv, 47, 92-98, 2014.
10. Pinedo, H., C. La Hoz, O. Havnes, M. Rietveld, Electron-ion temperature ratio estimations in the summer polar mesosphere when subject to HF radio wave heating, *Journal of Atmospheric and Solar-Terrestrial Physics*, 118, A, 106-112, <http://dx.doi.org/10.1016/j.jastp.2013.12.016>, 2014.
11. Senior, A., A. Mahmoudian, H. Pinedo, C. La Hoz, M. T. Rietveld, W. A. Scales, and M. J. Kosch, First modulation of high-frequency polar mesospheric summer echoes by radio heating of the ionosphere, *Geophys. Res. Lett.*, 41, 15, 5347-5353, DOI: [10.1002/2014GL060703](https://doi.org/10.1002/2014GL060703), 2014.
12. Tereshchenko, E. D., O. I. Shumilov, E. A. Kasatkina and A. D. Gomonov, Features of amplitude and Doppler frequency variation of ELF/VLF waves generated by "beat-wave" HF heating at high latitudes, *Geophys. Res. Lett.*, 41, doi:[10.1002/2014GL060376](https://doi.org/10.1002/2014GL060376), 2014.
13. Zabotin, N. A., V. U. Zavorotny, M. T. Rietveld, Physical mechanisms associated with long range propagation of the signals from ionospheric heating experiments, *Radio Sci.*, 49, 10, 987-995, DOI: [10.1002/2014RS005573](https://doi.org/10.1002/2014RS005573), 2014.



2013

[\[Top \]](#) [\[2012 \]](#) [\[2014 \]](#) [\[End \]](#)

1. Borisova, T. D., N. F. Blagoveshchenskaya, I. M. Ivanova, and M. T. Rietveld, Dependence of the Pc4 Magnetic Pulsation Parameters on the Radiated Power of the EISCAT HF Heating Facility, *Geomagnetism and Aeronomy*, 53, 1, [32-42](#), 2013.
2. Blagoveshchenskaya, N. F., T.D. Borisova, T. K. Yeoman, M. T. Rietveld, I. Häggström, I. M. Ivanova, Plasma modifications induced by an X-mode HF heater wave in the high latitude F region of the ionosphere, *Journal of Atmospheric and Solar-Terrestrial Physics*, 105-106, [231-244](#), 2013.
3. Bryers, C., M. Kosch, A. Senior, T. Yeoman and M. Rietveld, DIY Northern Lights, *Astronomy and Geophysics*, 54, 6, [43-44](#), 2013.
4. Bryers, C. J., M. J. Kosch, A. Senior, M. T. Rietveld and W. Singer, A comparison between resonant and non-resonant heating at EISCAT, *J. Geophys. Res.*, 118, 6766-6776, [doi:10.1002/jgra.50605](https://doi.org/10.1002/jgra.50605), 2013.
5. Bryers, C. J., M. J. Kosch, A. Senior, M. T. Rietveld and T. K. Yeoman, The threshold of plasma instabilities pumped by high frequency radio waves at EISCAT, *J. Geophys. Res.*, 118, 7472-7481, [doi:10.1002/2013JA019429](https://doi.org/10.1002/2013JA019429), 2013.
6. Cheng, M., B. Xu, Z. Wu, H. Li, Z. Wang, Z. Wu, J. Wu, J. Wu, Observation of VHF incoherent scatter spectra disturbed by HF heating, *Journal of Atmospheric and Solar-Terrestrial Physics*, 105-106, [245-252](#), 2013.
7. Galushko, V. G., V. G. Bezrodny, A. V. Koloskov, V. V. Paznukhov, B. W. Reinisch, HF wave scattering by field-aligned plasma irregularities considering refraction in the ionosphere, *Radio Sci.*, 48, 2, [180-189](#), DOI: 10.1029/2012RS005072, 2013.
8. Schlatter, N. M., N. Ivchenko, B. Gustavsson, T. Leyser, and M. Rietveld, Observations of HF induced instability in the auroral E region, *Ann. Geophys.*, 31, [1103-1108](#), [doi:10.5194/angeo-31-1103-2013](https://doi.org/10.5194/angeo-31-1103-2013), 2013.
9. Senior, A., M. T. Rietveld, I. Haggstrom, and M. J. Kosch, Radio-Induced Incoherent Scatter Ion Line Enhancements with Wide Altitude Extents in the High-Latitude Ionosphere, *Geophys. Res. Lett.*, 40, 9, 1669-1674, DOI: [10.1002/grl.50272](https://doi.org/10.1002/grl.50272), 2013.
10. J. Vierinen, A. Kero, M. T. Rietveld, High latitude artificial periodic irregularity observations with the upgraded EISCAT heating facility, *Journal of Atmospheric and*



Solar-Terrestrial Physics, 105-106, [253-261](#), 2013.

2012

[\[Top \]](#) [\[2011 \]](#) [\[2013 \]](#) [\[End \]](#)

1. * Biebricher, A., O. Havnes, Non-equilibrium modeling of the PMSE Overshoot Effect revisited: A comprehensive study, *J. Plasma Physics*, 78, 03, [doi:10.1017/S0022377812000141](#), 303-319, 2012.*
2. * Biebricher, A., O. Havnes, R. Bast, On the necessary complexity of modeling of the Polar Mesosphere Summer Echo Overshoot Effect, *J. Plasma Physics*, 78, 03, [doi:10.1017/S0022377811000596](#) , 225-239, 2012.*
3. Bryers, C. J., M. J. Kosch, A. Senior, M. T. Rietveld, and T. K. Yeoman, EISCAT observations of pump-enhanced plasma temperature and optical emission excitation rate as a function of power flux, *J. Geophys. Res.*, 117, A09301, [doi:10.1029/2012JA017897](#), 2012.
4. Galushko, V. G., V. G. Bezrodny, A. V. Koloskov, A. V. Zalizovskiy, A Possible Mechanism of the "Self-Scattering Effect" of Powerful HF Signals in the Ionosphere, *Radio Physics and Radio Astronomy*, 3, 291-302, [DOI: 10.1615/RadioPhysicsRadioAstronomy.v3.i4.30](#), 2012.
5. Senior, A., M. T. Rietveld, T. K. Yeoman, and M. J. Kosch, The Dependence of F-region Electron Heating on HF Radio Pump Power: measurements at EISCAT Tromso, *J. Geophys. Res.*, 117, A04309, [doi:10.1029/2011JA017267](#), 2012.
6. Sergienko, T., B. Gustavsson, U. Brändström, and K. Axelsson, Modelling of optical emissions enhanced by the HF pumping of the ionospheric F-region, *Ann. Geophys.*, 30, [885-895](#), 2012.
7. Tereshchenko, E. D., R. Yu. Yurik, M. T. Rietveld, B. Isham, V. Belyey, The spatial features of the up- and downshifted maxima in stimulated electromagnetic emissions, *Adv. Space Res.*, 50, 5, [619-622](#), 2012.



2011

[\[Top \]](#) [\[2010 \]](#) [\[2012 \]](#) [\[End \]](#)

1. Blagoveshchenskaya, N.F., T.D. Borisova, T.K. Yeoman, M.T. Rietveld, I.M. Ivanova, and L.J. Baddeley, Artificial small-scale field-aligned irregularities in the high latitude F region of the ionosphere induced by an X-mode HF heater wave, *Geophys. Res. Lett.*, 38, L08802, [doi:10.1029/2011GL046724](https://doi.org/10.1029/2011GL046724), 2011.
2. Blagoveshchenskaya, N. F., T. D. Borisova, M. T. Rietveld, T. K. Yeoman, D. M. Wright, M. Rother, H. Lühr, E. V. Mishin, and C. Roth, Results of Russian Experiments Dealing with the Impact of Powerful HF Radiowaves on the High-Latitude Ionosphere Using the EISCAT Facilities, *Geomagnetism and Aeronomy*, ISSN 0016-7932, 51, 8, [1109-1120](#), 2011.
3. Blagoveshchenskaya, N. F., T. D. Borisova, V. A. Kornienko, M. T. Rietveld, T. K. Yeoman, D. M. Wright, M. Rother, H. Lühr, E. V. Mishin and C. Roth, V.L. Frolov, M. Parot, J.L. Rauch, Modification of the high-latitude ionosphere by high-power hf radio waves. 2. Results of coordinated satellite and ground-based observations, *Radiophys. & Quant. Electr.*, 54, 2, 89-101, [DOI: 10.1007/s11141-011-9273-9](https://doi.org/10.1007/s11141-011-9273-9) 2011. (Translated from *Izvestiya Vysshikh Uchebnykh Zavedenii, Radiofizika*, 54, 2, pp. 97-112, February 2011).
4. Borisova, T. D., N. F. Blagoveshchenskaya, V. A. Kornienko, and M. T. Rietveld, Characteristics of Pc4-5 Pulsations Obtained Using the Method of Bistatic Backscatter of HF Radio Waves, the EISCAT HF Heating Facility, and Ground-Based Magnetometers, *Geomagnetism and Aeronomy*, ISSN 0016-7932, 51, 5, [620-632](#), 2011.
5. Havnes, O., C. La Hoz, M. T. Rietveld, M. B. Kassa, G. Baroni, and A. Biebricher, Dust charging and density conditions deduced from observations of PMWE modulated by artificial electron heating, *J. Geophys. Res.*, 116, D24203, [doi:10.1029/2011JD016411](https://doi.org/10.1029/2011JD016411), 2011.
6. Honary, F., N. Borisov, M. Beharrell, and A. Senior, Temporal development of the magnetic zenith effect, *J. Geophys. Res.*, 116, A06309, [doi:10.1029/2010JA016029](https://doi.org/10.1029/2010JA016029), 2011.
7. Kosch, M.J., E. Mjølhus, M. Ashrafi, M.T. Rietveld, T. Yeoman and S. Nozawa, Angular dependence of pump-induced bottom- and top-side ionospheric plasma turbulence at EISCAT, *J. Geophys. Res.*, 116, A03322, 9 PP., [doi:10.1029/2010JA016014](https://doi.org/10.1029/2010JA016014), 2011.



8. Mahmoudian, A. W. A. Scales, M. J. Kosch, A. Senior, and M. Rietveld, Dusty space plasma diagnosis using temporal behavior of polar mesospheric summer echoes during active modification, *Ann. Geophys.*, 29, [2169-2179](#), 2011.
9. Routledge, Graham , Polar mesospheric summer echoes – studied by active radio wave experiments, PhD thesis, University of Lancaster, UK, 16 March 2011.
10. Routledge, G., M.J. Kosch, A. Senior, A.J. Kavanagh, I.W. McCrea and M.T. Rietveld, A statistical survey of electron temperature enhancements in heater modulated polar mesospheric summer echoes at EISCAT, *J. Atmos. Solar-Terr. Phys.*, 73, 4, 472-482, [doi:10.1016/j.jastp.2010.11.004](#), 2011.
11. Senior, A., M.T. Rietveld, F. Honary, W. Singer, and M. J. Kosch, Measurements and Modelling of Cosmic Noise Absorption Changes due to Radio Heating of the D-Region Ionosphere, *J. Geophys. Res.*, 116, A04310, [doi:10.1029/2010JA016189](#), 2011.
12. Vickers, Hannah, Radar Observations of Artificial Ionospheric Modification Effects, [PhD thesis](#), University of Leicester, 2011.
13. Vickers, H., and T. Robinson, Observations of unusually broadened HF radar spectra from heater-induced artificial plasma irregularities, *J. Geophys. Res.*, 116, A05301, [doi:10.1029/2010JA015516](#), 2011.

2010

[\[Top \]](#) [\[2009 \]](#) [\[2011 \]](#)

1. BIN, Xu, Zhange WANG, Kun XUE, Jian WU, Zhensen WU, Jun WU, Yubo YAN, The inversion of incoherent scatter spectra with a non-Maxwellian electron distribution, *Journal of Atmospheric and Solar-Terrestrial Physics*, 72, 5-6, 492-497, [doi:10.1016/j.jastp.2010.01.006](#), 2010.
2. Blagoveshchenskaya N.F., Phenomena initiated by powerful HF radio waves the high latitude ionosphere: Results and future plans. *Problems of Arctica and Antarctica*, V.84. N1, pp. 81-99., (in Russian), 2010.
3. Blagoveshchenskaya, N.F., T.D. Borisova, M.T. Rietveld, T.K. Yeoman, D.M. Wright, M. Rother, H. Lühr, E.V. Mishin, C. Roth, Results from Russian experiments on the impact of powerful HF radio waves in the high latitude ionosphere by using EISCAT facilities, *Solar-Terrestr. Physics*, (in Russian), (in press) 2010.



4. Blagoveshchenskaya N.F., T.D. Borisova, T.K. Yeoman, M.T. Rietveld, Modification of the high latitude ionosphere by powerful HF radio waves. 1. Results from multi-instrument ground-based observations, *Radiophys. & Quant. Electr.*, **53**, 9-10, 2010.
5. Kosch, M.J., Y. Ogawa, M.T. Rietveld, S. Nozawa and R. Fujii, An analysis of pump-induced artificial ionospheric ion upwelling at EISCAT, *J. Geophys.*, **115**, A12317, [doi:10.1029/2010JA015854](https://doi.org/10.1029/2010JA015854), 2010.
6. Gustavsson, B., M. T. Rietveld, N. V. Ivchenko, and M. J. Kosch, The Rise and Fall of Electron Temperatures I: Ohmic Heating of Ionospheric Electrons from Under-Dense HF-radio Wave Pumping, *J. Geophys. Res.*, **115**, A12332, [doi:10.1029/2010JA015873](https://doi.org/10.1029/2010JA015873), 2010.
7. Milikh, G. M., A. G. Demekhov, K. Papadopoulos, A. Vartanyan, J. D. Huba, and G. Joyce, Model for artificial ionospheric duct formation due to HF heating, *Geophys. Res. Lett.*, **37**, L07803, [doi:10.1029/2010GL0426](https://doi.org/10.1029/2010GL0426), 2010.
8. Senior, A., M.T. Rietveld, M.J. Kosch and W. Singer, Diagnosing Radio Plasma Heating in the Polar Summer Mesosphere using Cross-Modulation: Theory and Observations, *J. Geophys. Res.*, **115**, A09318, [doi:10.1029/2010JA015379](https://doi.org/10.1029/2010JA015379), 2010.
9. Shergill, H., T.R. Robinson, R.S. Dhillon, M. Lester, S.E. Milan, and T.K. Yeoman, A statistical study of the spatial distribution of Cooperative UK Twin Located Auroral Sounding System (CUTLASS) backscatter power during EISCAT heater beamsweeping experiments, *J. Geophys. Res.*, **115**, A05307, [doi:10.1029/2009JA014659](https://doi.org/10.1029/2009JA014659), 2010.
10. Vickers, H., T. Robinson, and I. W. McCrea, A method for improving plasma temperature estimates from incoherent scatter analysis during artificial ionospheric modification experiments, *J. Geophys. Res.*, **115**, A11316, [doi:10.1029/2010JA015606](https://doi.org/10.1029/2010JA015606), 2010.
11. Xu Bin, Wang Zhange, Xu Zhengwen, Wu Zhensen, Wu Jian, Wu Jun, Xue Kun, Che Haiqing, Yan Yubo, Observations of the heating experiments in the polar winter ionosphere - Analysis in low region. *Chinese Journal Geophysics*, **53**(6), 1263-1268 (in Chinese), 2010.
12. Xu Bin, Wu Zhensen, Wu Jian, Che Haiqing, Wu Jun, Xue Kun, 2D numerical simulation of the artificial ionospheric modification in polar region, *Chinese Journal of Radio Science*, **25**(1), 14-19, (in Chinese), 2010.
13. Xu Bin, Wang Zhange, Wu Jun, Xu Zhengwen, Xue Kun, Wu Jian, Observation of The Heating Experiments in the Polar Ionosphere in August, 2009, *Chinese Journal of Polar Research*, **22**, 4, 334-347, [DOI: 10.3724/SP.J.1084.2010.00334](https://doi.org/10.3724/SP.J.1084.2010.00334), (in Chinese), 2010.