

Last updated: August 24, 2020

## Keisuke Hosokawa, Ph.D.

D.O.B: 12 May, 1975

Gender: Male

Nationality: Japan

Email:

keisuke.hosokawa@uec.ac.jp

Graduate School of Communication Engineering  
and Informatics

University of Electro-Communications

Chofugaoka 1-5-1, Chofu, Tokyo, 182-8585, Japan

+81 (0)42 443 5299

## Education

1994.4 - 1998.3

Faculty of Science, Kyoto University, Japan (Bachelor of Science, Mar. 1998)

Supervisor: Professor Tohru Araki

1998.4 - 2000.3

Master's Course, Graduate School of Science, Kyoto University, Japan

Supervisor: Professor Toshihiko Iyemori

2000.3.23

M.Sci. received from Kyoto University,

Thesis "Analyses of high-latitude ionospheric plasma irregularities using Super Dual Auroral Radar Network (SuperDARN)"

2000.4 - 2003.3

Doctor's Course, Graduate School of Science, Kyoto University, Japan

Supervisor: Professor Toshihiko Iyemori

2001.1 - 2001.2

Visiting Researcher, Department of Physics and Astronomy, University of Leicester, UK

Supervisor: Professor Mark Lester

2001.9 - 2001.12

Visiting Researcher, Department of Physics and Astronomy, University of Leicester, UK

Supervisor: Professor Mark Lester

2002.4 - 2003.3

Research Fellow of the Japan Society for the Promotion of Science (JSPS Research Fellow)

2003.3.24

Ph.D. received from Kyoto University,

Ph.D. Thesis "Observational studies on the high-latitude ionospheric plasma irregularities"

## Employment History

2003.4 - 2007.3

Research Assistant, University of Electro-Communications

2007.4 - 2012.5

Assistant Professor, University of Electro-Communications

2010.3 - 2011.2

Visiting Researcher, University of Oslo (Excellent Young Researcher Overseas Visit Program)

2012.6 – 2019.3

Associate Professor, University of Electro-Communications

2019.4 – Present

Professor, University of Electro-Communications

### **Professional Societies**

American Geophysical Union – AGU (Member)

European Geosciences Union – EGU (Member)

Japan Geoscience Union – JpGU (Member)

Society of Geomagnetism and Earth, Planetary and Space Sciences – SGEPS (Member)

Asia Oceania Geoscience Society – AOGS (Member)

### **Awards and Fellowships**

Outstanding Student Paper Award (OSPA) by the Space Physics and Aeronomy section,  
2000 Fall Meeting, American Geophysical Union, 12 April, 2001

JSPS Research Fellowship for Young Scientist (DC2), 2002 - 2003

Obayashi young scientist award,

Society of Geomagnetism and Earth, Planetary and Space Sciences, 29 September, 2009

### **Professional Services**

Topical Editor (Ionosphere and Aeronomy) for Annales Geophysicae of European Geoscience Union,  
2012 – Present

Guest Editor for Special Section “Pulsating Aurora and Related Magnetospheric Phenomena”  
in Journal of Geophysical Research - Space Physics, 2015

Guest Editor for Special Issue “SuperDARN / Studies of Geospace Dynamics - Today and Future”  
in Polar Science, 2020

Session Convener on “High- and Mid-Latitude Ionosphere: New Insights from Recent Ground-based  
Observations and Satellite Collaborations”,  
Asia Oceania Geoscience Society (AOGS), Busan, Korea, 2008

Session Convener on “Dynamical Processes of the Cusp/Polar Cap Ionosphere”,  
American Geophysical Union (AGU) Fall Meeting, San Francisco, USA, 2010

Session Convener on “High-Latitude Ionosphere: New Insights from Recent Ground-based  
and Satellite Observations”, Asia Oceania Geoscience Society (AOGS), Taipei, Taiwan, 2011

Session Convener on “Dynamical Processes in the High-Latitude Ionosphere”  
European Geoscience Union (EGU) General Assembly, Vienna, Austria, 2012

Session Convener on “Magnetosphere-Ionosphere Coupling”  
Japan Geoscience Union (JpGU), Makuhari, Japan, 2013

Session Convener on “Dynamical Processes of the Cusp/Polar Cap Ionosphere”  
American Geophysical Union (AGU) Fall Meeting, San Francisco, USA, 2013

Session Convener on “Pulsating Aurora”,  
Asia Oceania Geoscience Society (AOGS), Sapporo, Japan, 2014

Session Convener on "Development of geospace research by Arase and ground-based observations",  
Society of Geomagnetism and Earth, Planetary and Space Sciences (SGEPSS),  
Kyoto, Japan, 2017

Session Convener on "Dynamics of Earth's Inner Magnetosphere and Initial Results from Arase",  
Japan Geoscience Union (JpGU), Makuhari, Japan, 2018

Session Convener on "Progress of Inner Magnetosphere Research by Coordinated Observations  
from Satellites and Ground",  
American Geophysical Union (AGU) Fall Meeting, Washington D.C., USA, 2018

Paper Review for J. of Geophys. Res., Geophys. Res. Lett., Space Weather, Radio Science,  
Annales Geophysicae, J. of Atmos. and Solar-Terrestrial Phys., Earth Planets and Space,  
Advances in Polar Upper Atmosphere Research, Polar Science, and Nature Communications

Proposal Review for JSPS, NSF (US) and NERC (UK)

## **Research Grants**

2020.12 - 2021.11

Principal Investigator "Real-time monitoring of the environment of aeronautical navigation  
system through radio remote sensing at multiple stations", Murata Foundation, ¥1,750,000

2020.7 - 2023.3

Principal Investigator "Utilization of astronauts' digital camera images from International  
Space Station for studies of aurora", JSPS Grant (Kakenhi Chosentekihouga), ¥6,370,000

2019.4 - 2021.3

Principal Investigator "Remote sensing of extreme natural phenomena using radio  
observations", Takahashi Sangyo Keizai Kenkyu Foundation, ¥4,000,000

2019.4 - 2020.3

Principal Investigator "Development of monitoring system for magnetic storms affecting  
broadcasting satellites", Hosono Bunka Foundation, ¥4,300,000

2019.4 - 2024.3

Co-Investigator "Imaging of radiation belt loss during plasmasphere extreme erosion",  
JSPS Grant (Kakenhi Kiban-B), ¥500,000

2018.10 - 2021.3

Co-Investigator "International sounding rocket experiments for pulsating aurora electrons",  
JSPS Grant (Kakenhi Kokusaikyoudoukasoku-B), ¥500,000

2018.4 - 2020.3

Principal Investigator "Construction of a network for monitoring the effect of sporadic E on the  
air-navigation system", JSPS Grant (Kakenhi Shingakujyutu Koubo), ¥3,900,000

2017.4 - 2022.3

Principal Investigator "Studies of the growth of plasma bubbles with multiple ground-based  
airglow imagers", JSPS Grant (Kakenhi Kiban-B), ¥13,390,000

2016.4 - 2019.3 (extended until 2020.3)

Co-Investigator "Extension of GPS satellite scintillation observations to the cusp and polar cap  
region", JSPS Grant (Kakenhi Kiban-B-overseas), ¥1,070,000

2015.4 - 2020.3 (extended until 2021.3)

Co-Investigator "The Quest for the Ultimate Production Mechanism of Pulsating Auroras with Extremely High Time Resolution and Coordinated Observations from Space and Ground", JSPS Grant (Kakenhi Kiban-S), ¥21,190,000

2014.4 - 2019.3 (extended until 2020.3)

Principal Investigator "Global imaging of the polar cap ionosphere using all-sky airglow imagers at 3 stations", JSPS Grant (Kakenhi Kiban-B-overseas), ¥15,990,000

2011.4 - 2015.3

Co-Investigator "Studies of Ionospheric Irregularities in the Polar Region by GPS Scintillation Observations", JSPS Grant (Kakenhi Kiban-B-overseas), ¥780,000

2011.4 - 2014.3

Principal Investigator "3D imaging of polar cap patches with radio and optical measurements", JSPS Grant (Kakenhi Wakate-B), ¥2,470,000

2010.3 - 2011.2

Principal Investigator "Global imaging of the plasma environment in the polar cap ionosphere with dual all-sky cameras", JSPS Grant (Excellent Young Researcher Overseas Visit Program), ¥5,261,730

2008.4 - 2011.3

Principal Investigator "Effect of magnetospheric and ionospheric plasma convection on the evolution of aurora substorms", JSPS Grant (Kakenhi Wakate-B), ¥2,470,000

2005.4 - 2008.3

Principal Investigator "Global map of mesospheric temperature environment derived from Super Dual Auroral Radar Network", JSPS Grant (Kakenhi Wakate-B), ¥1,600,000

2002.4 - 2003.4

Principal Investigator "Monitoring of polar cap boundary with Super Dual Auroral Radar Network", JSPS Grant (Gakushin DC2), ¥1,000,000

## Journal Publications

**Total Citations: 1579, H-index: 24, 39 first authored, 101 co-authored (as of Aug 2020)**

[https://scholar.google.co.jp/citations?hl=ja&user=EXoVgSAAAAAJ&view\\_op=list\\_works](https://scholar.google.co.jp/citations?hl=ja&user=EXoVgSAAAAAJ&view_op=list_works)

01. Kataoka, R., Y. Asaoka, S. Torii, S. Nakahira, H. Ueno, S. Miyake, Y. Miyoshi, S. Kurita, M. Shoji, Y. Kasahara, M. Ozaki, S. Matsuda, A. Matsuoka, Y. Kasaba, I. Shinohara, K. Hosokawa, H. A. Uchida, K. Murase, and Y. Tanaka, Plasma waves causing relativistic electron precipitation events at International Space Station: Lessons from conjunction observations with Arase satellite, *Journal of Geophysical Research: Space Physics*, 125, e2020JA027875, 2020
02. Sakai, J., Saito, S., Hosokawa, K., and Tomizawa, I., Anomalous propagation of radio waves from distant ILS localizers due to ionospheric sporadic-E, *Space Weather*, 18, e2020SW002517, 2020
03. Shiokawa, K., M. Nose, S. Imajo, Y. Tanaka, Y. Miyoshi, K. Hosokawa, M. Connors, M. Engebretson, Y. Kazama, S.-Y. Wang, S. W. Y. Tam, Tzu-Fang Chang, Bo-Jhou Wang, K. Asamura, S. Kasahara, S. Yokota, T. Hori, K. Keika, Y. Kasaba, M. Shoji, Y. Kasahara, A. Matsuoka and I. Shinohara, Arase observation of the source region of auroral arcs and diffuse auroras in the inner magnetosphere. *Journal of Geophysical Research: Space Physics*, 125, e2019JA027310, 2020

04. Tretler, R., T. Tatsuno and K. Hosokawa, Loss of the Rarefaction Wave during Plasma Sheet Thinning, *Plasma and Fusion Research*, 15, 2401053, 2020
05. Uchida, H. A., R. Kataoka, A. Kadokura, K. Murase, A. S. Yukimatu, Y. Miyoshi, K. Shiokawa, Y. Ebihara, K. Hosokawa, A. Matsuoka, S. Kurita, S. Fujita and I. Shinohara, Asymmetric development of auroral surges in the Northern and Southern Hemispheres, *Geophysical Research Letters*, 47, e2020GL088750, 2020
06. Yokoyama, Y., Taguchi, S., Iyemori, T., and Hosokawa, K., The quasipersistent feature of highly structured field-aligned currents in the duskside auroral oval: Conjugate observation via Swarm satellites and a ground all-sky imager, *Journal of Geophysical Research: Space Physics*, 125, e2019JA027594, 2020
07. Kawamura, Y., K. Hosokawa, S. Nozawa, Y. Ogawa, T. Kawabata, S.-I. Oyama, Y. Miyoshi, S. Kurita and R. Fujii, Estimation of the emission altitude of pulsating aurora using the five-wavelength photometer, *Earth, Planets and Space*, 72, 2020
08. Hosokawa, K., J. Sakai, I. Tomizawa, S. Saito, T. Tsugawa, M. Nishioka and M. Ishii, A monitoring network for anomalous propagation of aeronautical VHF radio waves due to sporadic E in Japan, *Earth, Planets and Space*, 72, 2020
09. Hashimoto K. K., T. Kikuchi, I. Tomizawa, K. Hosokawa, J. Chum, D. Buresova, M. Nose and K. Koga, Penetration electric fields observed at middle and low latitudes during the 22 June 2015 geomagnetic storm, *Earth, Planets and Space*, 72, 2020
10. Hosokawa, K., K. Takami, S. Saito, Y. Ogawa, Y. Otsuka, K. Shiokawa, C.-H. Chen and C.-H. Lin, Observations of equatorial plasma bubbles using a low-cost 630.0-nm all-sky imager in Ishigaki Island, Japan, *Earth, Planets and Space*, 72, 2020
11. Nanjo, S., Y. Hozumi, K. Hosokawa, R. Kataoka, Y. Miyoshi, S. Oyama, M. Ozaki, K. Shiokawa and S. Kurita, Fine-scale visualization of aurora in a wide area using color digital camera images from the International Space Station, *Journal of Geophysical Research: Space Physics*, 125, 2020
12. Hosokawa, K., Y. Miyoshi, M. Ozaki, S.-I. Oyama, Y. Ogawa, S. Kurita, Y. Kasahara, Y. Kasaba, S. Yagitani, S. Matsuda, F. Tsuchiya, A. Kumamoto, R. Kataoka, K. Shiokawa, T. Raita, E. Turunen, T. Takashima, I. Shinohara and R. Fujii, Multiple time-scale beats in aurora: precise orchestration via magnetospheric chorus waves, *Scientific Reports*, 10, 2020
13. Billett, D. D., K. Hosokawa, A. Grocott, J. A. Wild, A. L. Aruliah, Y. Ogawa, S. Taguchi and M. Lester, Multi-Instrument Observations of Ion-Neutral Coupling in the Dayside Cusp, *Geophysical Research Letters*, 47, 2020
14. Hosokawa, K., A. Kullen, S. E. Milan, J. Reidy, Y. Zou, H. U. Frey, R. Maggiolo, and R. C. Fear, Aurora in the polar cap: a review, *Space Science Review*, 216, 15, 2020
15. Nishimura, Y., M. R. Lessard, Y. Katoh, Y. Miyoshi, E. Grono, N. Partamies, N. Sivadas, K. Hosokawa, M. Fukizawa, M. Samara, R. G. Michell, R. Kataoka, T. Sakanoi, D. K. Whiter, S.-I. Oyama, Y. Ogawa and S. Kurita, Diffuse and Pulsating Aurora, *Space Sci Rev*, 216, 4, 2020
16. Ogawa, Y., Y. Tanaka, A. Kadokura, K. Hosokawa, Y. Ebihara, T. Motoba, B. Gustavsson, U. Brändström, Y. Sato, S. Oyama, M. Ozaki, T. Raita, F. Sigernes, S. Nozawa, K. Shiokawa, M. Kosch, K. Kauristie, C. Hall, S. Suzuki, Y. Miyoshi, A. Gerrard, H. Miyaoka, R. Fujii, Development of low-cost multi-wavelength imager system for studies of aurora and airglow, *Polar Science*, Volume 23, 2020
17. Taguchi, S., Hosokawa, K., and Ogawa, Y., Plasma flow in the north-south aligned discrete aurora equatorward of the cusp, *Journal of Geophysical Research: Space Physics*, 124, 10778-10793, 2019

18. Hosokawa, K., Y. Zou, and Y. Nishimura, Airglow patches in the polar cap region: a review, *Space Sci. Rev.*, 215, 53, <https://doi.org/10.1007/s11214-019-0616-8>, 2019
19. Hosokawa, K., Y. Ogawa, and S. Taguchi, Imaging of polar cap patches with a low-cost airglow camera: Pilot observations in Svalbard, Norway, *Earth, Planets and Space*, 71, 115, 2019
20. Tanaka, Y.-M., T. Nishiyama, A. Kadokura, M. Ozaki, Y. Miyoshi, K. Shiokawa, S.-I. Oyama, R. Kataoka, M. Tsutsumi, K. Nishimura, K. Sato, Y. Kasahara, A. Kumamoto, F. Tsuchiya, M. Fukizawa, M. Hikishima, S. Matsuda, A. Matsuoka, I. Shinohara, M. Nosé, T. Nagatsuma, M. Shinohara, A. Fujimoto, M. Teramoto, R. Nomura, A. Yukimatu, K. Hosokawa, M. Shoji, R. Latteck, Direct comparison between magnetospheric plasma waves and polar mesosphere winter echoes in both hemispheres, *Journal of Geophysical Research: Space Physics*, 124, 2019
21. Kozlovsky, A., S. Shalimov, S.-I. Oyama, K. Hosokawa, M. Lester, Y. Ogawa, C. Hall, Ground echoes observed by the meteor radar and high-speed auroral observations in the substorm growth phase, *Journal of Geophysical Research: Space Physics*, 124, 2019
22. Matsui, H., C. Farrugia, J. Goldstein, R. Torbert, M. Argall, H. Vaith, C. Russell, R. Strangeway, B. Giles, C. Pollock, S. Taguchi, K. Hosokawa, Velocity Rotation Events in the Outer Magnetosphere Near the Magnetopause, *Journal of Geophysical Research (IF 3.303)*, in press
23. Hozumi, Y., A. Saito, T. Sakanoi, A. Yamazaki, K. Hosokawa, and T. Nakamura, Geographical and seasonal variability of mesospheric bores observed by IMAP/VISI, *Journal of Geophysical Research (IF 3.303)*, in press
24. Sakai, J., K. Hosokawa, I. Tomizawa, S. Saito, A statistical study of anomalous VHF propagation due to the sporadic-E layer in the air-navigation band, *Radio Science*, in press
25. Kawamura, S., K. Hosokawa, S. Kurita, S. Oyama, Y. Miyoshi, Y. Kasahara, et al., Tracking the region of high correlation between pulsating aurora and chorus: Simultaneous observations with Arase satellite and ground-based all-sky imager in Russia, *Journal of Geophysical Research: Space Physics*, 124, 2019
26. Takahashi, T., I. I. Virtanen, K. Hosokawa, Y. Ogawa, A. Aikio, H. Miyaoka, and A. Kero, Polarization electric field inside auroral patches: Simultaneous experiment of EISCAT radars and KAIRA, *Journal of Geophysical Research: Space Physics (IF 3.303)*, 124, 2019
27. Kataoka, R., T. Nishiyama, Y. Tanaka, A. Kadokura, H. A. Uchida, Y. Ebihara, M. K. Ejiri, Y. Tomikawa, M. Tsutsumi, K. Sato, Y. Miyoshi, K. Shiokawa, S. Kurita, Y. Kasahara, M. Ozaki, K. Hosokawa, S. Matsuda, I. Shinohara, T. Takashima, T. Sato, T. Mitani, T. Hori and N. Higashio, Transient ionization of the mesosphere during auroral breakup: Arase satellite and ground-based conjugate observations at Syowa Station, *Earth, Planets and Space (IF 2.773)*, 201971:9, 2019
28. Ozaki, M., Y. Miyoshi, K. Shiokawa, K. Hosokawa, S.-I. Oyama, R. Kataoka, Y. Ebihara, Y. Ogawa, Y. Kasahara, S. Yagitani, Y. Kasaba, A. Kumamoto, F. Tsuchiya, S. Matsuda, Y. Katoh, M. Hikishima, S. Kurita, Y. Otsuka, R. C Moore, Y. Tanaka, M. Nose, T. Nagatsuma, N. Nishitani, A. Kadokura, M. Connors, T. Inoue, A. Matsuoka, and I. Shinohara, Visualization of rapid electron precipitation via chorus element wave-particle interactions, *Nature Communications (IF 12.35)*, 10, 1, 257, [doi:10.1038/s41467-018-07996-z](https://doi.org/10.1038/s41467-018-07996-z), 2019
29. Hozumi, Y., A. Saito, T. Sakanoi, A. Yamazaki, and K. Hosokawa, Mesospheric bores at southern midlatitudes observed by ISS-IMAP/VISI: a first report of an undulating wave front, *Atmos. Chem. Phys.*, 18, 16399-16407, 2018
30. Nozawa, S. T. Kawabata, K. Hosokawa, Y. Ogawa, T. T. Tsuda, A. Mizuno, R. Fujii and C. Hall, A new five-wavelength photometer operated in Tromsø (69.6°N, 19.2°E), *Earth, Planets and Space (IF 2.773)*, 201870:193, 2018

31. Fukizawa, M., T. Sakanoi, Y. Miyoshi, K. Hosokawa, K. Shiokawa, Y. Katoh, Y. Kazama, A. Kumamoto, F. Tsuchiya, Y. Miyashita, Y. -M. Tanaka, Y. Kasahara, M. Ozaki, A. Matsuoka, S. Matsuda, M. Hikishima, S. Oyama, Y. Ogawa, S. Kurita, R. Fujii, Electrostatic Electron Cyclotron Harmonic Waves as a Candidate to Cause Pulsating Auroras, *Geophysical Research Letters* (IF 4.339), 45, 8 pages, doi:10.1029/2018GL080145, 2018
32. Ozaki, M., K. Shiokawa, Y. Miyoshi, K. Hosokawa, S. Oyama, S. Yagitani, Y. Kasahara, Y. Kasaba, S. Matsuda, R. Kataoka, Y. Ebihara, Y. Ogawa, Y. Otsuka, S. Kurita, R. C. Moore, Y.-M. Tanaka, M. Nosé, T. Nagatsuma, M. Connors, N. Nishitani, Y. Katoh, M. Hikishima, A. Kumamoto, F. Tsuchiya, A. Kadokura, T. Nishiyama, T. Inoue, K. Imamura, A. Matsuoka, I. Shinohara, Microscopic observations of pulsating aurora associated with chorus element structures: Coordinated Arase satellite-PWING observations, *Geophysical Research Letters* (IF 4.339), 45, 10 pages, doi:10.1029/2018GL079812, 2018
33. Tsuda, T. T., Y. Hozumi, K. Kawaura, K. Hosokawa, H. Suzuki, and T. Nakamura, Initial report on polar mesospheric cloud observations by Himawari-8, *Atmos. Meas. Tech.*, 11, 6163-6168, doi:10.5194/amt-11-6163-2018, 2018
34. Oyama, S., T. T. Tsuda, K. Hosokawa, Y. Ogawa, Y. Miyoshi, S. Kurita, A. E. Kero, R. Fujii, Y. Tanaka, A. Mizuno, T. Kawabata, B. Gustavsson, and T. Leyser, Auroral molecular-emission effects on the atomic oxygen line at 777.4 nm, *Earth, Planets and Space* (IF 2.773), 70, 7 pages, doi:10.1186/s40623-018-0936-z, 2018
35. Tsuda, T. T., M. T. Rietveld, M. J. Kosch, S. Oyama, Y. Ogawa, K. Hosokawa, S. Nozawa, T. Kawabata and, A. Mizuno, Survey of conditions for artificial aurora experiments by the second electron gyro-harmonic at EISCAT Tromsø using dynasonde data, *Earth, Planets and Space* (IF 2.773), 70, 10 pages, doi:10.1186/s40623-018-0864-y, 2018
36. Tsuda, T. T., M. T. Rietveld, M. J. Kosch, S. Oyama, K. Hosokawa, S. Nozawa, T. Kawabata, A. Mizuno and Y. Ogawa, Survey of conditions for artificial aurora experiments at EISCAT Tromsø using dynasonde data, *Earth, Planets and Space* (IF 2.773), 70:40, 11 pages, doi:10.1186/s40623-018-0805-9, 2018
37. Tsuda, T. T., T. Nakamura, M. K. Ejiri, T. Nishiyama, K. Hosokawa, T. Takahashi, J. Gumbel, and J. Hedin, Statistical investigation of Na layer response to geomagnetic activity using resonance scattering measurements by Odin/OSIRIS, *Geophysical Research Letters* (IF 4.339), 44, 5943-5950, doi:10.1002/2017GL072801, 2017
38. Shiokawa, K., Y. Kato, Y. Hamaguchi, Y. Yamamoto, T. Adachi, M. Ozaki, S.-I. Oyama, M. Nosé, T. Nagatsuma, Y. Tanaka, Y. Otsuka, Y. Miyoshi, R. Kataoka, Y. Takagi, Y. Takeshita, A. Shinbori, S. Kurita, T. Hori, N. Nishitani, I. Shinohara, F. Tsuchiya, Y. Obana, S. Suzuki, N. Takahashi, K. Seki, A. Kadokura, K. Hosokawa, Y. Ogawa, M. Connors, J. M. Ruohoniemi, M. Engebretson, E. Turunen, T. Ulich, J. Manninen, T. Raita, A. Kero, A. Oksanen, M. Back, K. Kauristie, J. Mattanen, D. Baishev, V. Kurkin, A. Oinats, A. Pashinin, R. Vasilyev, R. Rakhmatulin, W. Bristow, and M. Karjala, Ground-based instruments of the PWING project to investigate dynamics of the inner magnetosphere at subauroral latitudes as a part of the ERG-ground coordinated observation network, *Earth, Planets and Space* (IF 2.773), 69:160, 21 pages, doi:10.1186/s40623-017-0745-9, 2017
39. Taguchi, S., Y. Chiba, K. Hosokawa, and Y. Ogawa, Horizontal profile of a moving red line cusp aurora, *Journal of Geophysical Research* (IF 3.303), 122, 3509-3525, doi:10.1002/2016JA023115, 2017
40. Takahashi, T., K. Hosokawa, S. Nozawa, T. T. Tsuda, Y. Ogawa, M. Tsutsumi, Y. Hiraki, H. Fujiwara, T. D. Kawahara, N. Saito, S. Wada, T. Kawabata, C. Hall, Depletion of mesospheric sodium during extended period of pulsating aurora, *Journal of Geophysical Research* (IF 3.303), 122, 1212-1220, doi:10.1002/2016JA023472, 2017

41. Hosokawa, K., S. Taguchi, and Y. Ogawa, Periodic creation of polar cap patches from auroral transients in the cusp, *Journal of Geophysical Research* (IF 3.303), 121, 14 pages, doi:10.1002/2015JA022221, 2016
42. Oyama, S., K. Shiokawa, Y. Miyoshi, K. Hosokawa, B. Watkins, J. Kurihara, T. T. Tsuda, C. Fallen, Lower-thermospheric wind variations in auroral patches during the substorm recovery phase, *Journal of Geophysical Research* (IF 3.303), 121, 3564-3577, doi:10.1002/2015JA022129, 2016
43. Hosokawa, K., S. Taguchi, and Y. Ogawa, Edge of polar cap patches, *Journal of Geophysical Research* (IF 3.303), 121, 3410-3420, doi:10.1002/2015JA021960, 2016
44. Clausen, L. B. N., J. I. Moen, K. Hosokawa, J. Holmes, GPS scintillations in the high latitudes during periods of dayside and nightside reconnection, *Journal of Geophysical Research* (IF 3.303), 121, 3293-3309, doi:10.1002/2015JA022199, 2016
45. Perry, G., H. Dahlgren, M. Nicolls, M. Zettergren, J-P St-Maurice, J. Semeter, T. Sundberg, K. Hosokawa, K. Shiokawa, S. Chen, Spatiotemporally resolved electrodynamic properties of a sun-aligned arc over Resolute Bay, *Journal of Geophysical Research* (IF 3.303), 120, 9977-9987, doi:10.1002/2015JA021790, 2015
46. Sato, N., A. Kadokura, T. Motoba, K. Hosokawa, G. Bjornsson, Th. Saemundsson, Interhemispheric auroral symmetry and asymmetry from ground-based conjugate observations, *Auroral Dynamics and Space Weather*, Geophysical Monograph 215, Edited by Yongliang Zhang and Larry J. Paxton, American Geophysical Union, 145-161, 2015
47. Thomas E., K. Hosokawa, J. Sakai, J. H. Baker, J. M. Ruohoniemi, S. Taguchi, K. Shiokawa, Y. Otsuka, A. Coster, J.-P. St.-Maurice, and K. McWilliams, Multi-instrument, high-resolution imaging of polar cap patch transportation, *Radio Science* (IF 1.418), 50, 904-915, doi:10.1002/2015RS005672, 2015
48. Taguchi, S., K. Hosokawa, Y. Ogawa, Three-dimensional imaging of the plasma parameters of a moving cusp aurora, *Journal of Atmospheric and Solar-Terrestrial Physics* (IF 1.751), 133, 98-110, 2015
49. Moen, J. I., K. Hosokawa, N. Gulbrandsen, L. B. N. Clausen, On the symmetry of ionospheric polar cap patch exits around magnetic midnight, *Journal of Geophysical Research* (IF 3.303), 120, 7785-7797, doi:10.1002/2014JA020914, 2015
50. Hosokawa K., Y. Miyoshi, and W. Li, Introduction to Special Section on Pulsating Aurora and Related Magnetospheric Phenomena, *Journal of Geophysical Research* (IF 3.303), 120, 5341-5343, doi:10.1002/2015JA021453, 2015
51. Hosokawa K., and Y. Ogawa, Ionospheric variation during pulsating aurora, *Journal of Geophysical Research* (IF 3.303), 120, 5943-5957, doi:10.1002/2015JA021401, 2015
52. Taguchi, S., K. Hosokawa, and Y. Ogawa, Investigating the particle precipitation of a moving cusp aurora using simultaneous observations from the ground and space, *Progress in Earth and Planetary Science* (IF 2.418), 2:11, 11 pages, doi:10.1186/s40645-015-0044-7, 2015
53. Tsuda T. T., X. Chu, T. Nakamura, M. K. Ejiri, T. D. Kawahara, A. S. Yukimatu, and K. Hosokawa, A thermospheric Na layer observed up to 140 km over Syowa Station (69.0S, 39.6E) in Antarctica, *Geophysical Research Letters* (IF 4.339), 42, 3647-3653. doi: 10.1002/2015GL064101, 2015
54. Hori, T., Y. Miyashita, Y. Miyoshi, K. Seki, T. Segawa, Y.-M. Tanaka, K. Keika, M. Shoji, I. Shinohara, K. Shiokawa, Y. Otsuka, S. Abe, A. Yoshikawa, K. Yumoto, Y. Obana, N. Nishitani, A. S. Yukimatu, T. Nagatsuma, M. Kunitake, K. Hosokawa, Y. Ogawa, K. T. Murata, M. Nose, H. Kawano, and T. Sakanoi, CDF data archive and integrated data analysis platform for ERG-related ground data developed by ERG Science Center (ERG-SC), *Journal of Space Science Informatics Japan*, vol. 4, JAXA-RR-14-009 (ISSN 1349-1113), 75-89, 2015

55. Ishida T., Y. Ogawa, A. Kadokura, K. Hosokawa, and Y. Otsuka, Direct observations of blob deformation during a substorm, *Annales Geophysicae* (IF 1.731), 33, 525-530, doi:10.5194/angeo-33-525-2015, 2015
56. Hosokawa, K., The Earth's Ionosphere, *Journal of Plasma Fusion Research*, Vol.90, No.12, 764-768, 2014 (in Japanese)
57. Dahlgren, H., G. Perry, J.-P. St-Maurice, T. Sundberg, K. Hosokawa, J. L. Semeter, M. J. Nicolls, K. Shiokawa, 3D imaging reveals electrodynamic of polar cap aurora, *News and Reviews in Astronomy and Geophysics*, 55, 26-28, doi: 10.1093/astrogeo/atu215, 2014
58. Hosokawa, K., Y. Otsuka, Y. Ogawa, and T. Tsugawa, Observations of GPS scintillation during an isolated auroral substorm, *Progress in Earth and Planetary Science* (IF 2.418), 1:16, 9 pages, 2014
59. Sakai, J., K. Hosokawa, S. Taguchi, and Y. Ogawa, Storm-time enhancements of 630.0-nm airglow associated with polar cap patches, *Journal of Geophysical Research* (IF 3.303), 119, 2214-2228, doi:10.1002/2013JA019197, 2014
60. Hosokawa, K., Y. Takeda, A. Kadokura, A. S. Yukimatu, and N. Sato, Simultaneous NLC and PMSE Observations at Syowa, Antarctica, *Antarctic Record*, 57, 317-328, 2014
61. Hosokawa, K., S. Taguchi, K. Shiokawa, Y. Ogawa, and M. Nicolls, Global imaging of polar cap patches with dual airglow imagers, *Geophysical Research Letters* (IF 4.339), 41, 6 pages, doi:10.1002/2013GL058748, 2014
62. Ogawa, Y., M. Sawatsubashi, S. C. Buchert, K. Hosokawa, S. Taguchi, S. Nozawa, S. Oyama, T. T. Tsuda, and R. Fujii, Relationship between auroral substorm and ion upflow in the nightside polar ionosphere, *Journal of Geophysical Research* (IF 3.303), 118, 7426-7437, doi:10.1002/2013JA018965, 2013
63. Perry, G., J.-P. St-Maurice, and K. Hosokawa, The interconnection between cross-polar cap convection and the luminosity of polar cap patches, *Journal of Geophysical Research* (IF 3.303), 118, 7306-7315, doi:10.1002/2013JA019196, 2013
64. Demissie, T. D., K. Hosokawa, N. H. Kleinknecht, P. J. Espy, R. E. Hibbins, Planetary wave oscillations observed in ozone and PMSE data from Antarctica, *Journal of Atmospheric and Solar-Terrestrial Physics* (IF 1.751), 105-106, 207-213, 2013
65. Hosokawa, K., S. Taguchi, Y. Ogawa, and J. Sakai, Two-dimensional direct imaging of structuring of polar cap patches, *Journal of Geophysical Research* (IF 3.303), 118, 8 pages, doi:10.1002/jgra.50577, 2013
66. Sato, N. A. Kadokura, T. Motoba, K. Hosokawa, G. Bjornsson and Th. Saemundsson, Ground-Based Aurora Conjugacy and Dynamic Tracing of Geomagnetic Conjugate Points, in *Auroral Phenomenology and Magnetospheric Processes: Earth and Other Planets* (eds A. Keiling, E. Donovan, F. Bagenal and T. Karlsson), American Geophysical Union, Washington, D. C., 10 pages, doi:10.1029/2011GM001154, 2013
67. Hosokawa, K., S. E. Milan, M. Lester, A. Kadokura, N. Sato, and G. Bjornsson, Large flow shears around auroral beads at substorm onset, *Geophysical Research Letters* (IF 4.339), 40, 5 pages, doi:10.1002/grl.50958, 2013
68. Liu, E. X., H. Q. Hu, K. Hosokawa, R. Y. Liu, Z. S. Wu, Z. Y. Xing, First observations of Polar Mesosphere Summer Echoes by SuperDARN Zhongshan radar, *Journal of Atmospheric and Solar-Terrestrial Physics* (IF 1.751), 104, 39-44, 2013
69. Grocott, A., K. Hosokawa, T. Ishida, M. Lester, S.E. Milan, M.P. Freeman, N. Sato and A.S. Yukimatu, Characteristics of medium-scale travelling ionospheric disturbances observed near the Antarctic Peninsula by HF radar, *Journal of Geophysical Research* (IF 3.303), 118, 5831-5841, doi:10.1002/jgra.50515, 2013

70. Sakai, J., S. Taguchi, K. Hosokawa, and Y. Ogawa, Steep plasma depletion in dayside polar cap during a CME-driven magnetic storm, *Journal of Geophysical Research* (IF 3.303), 118, 462-471, doi:10.1029/2012JA018138, 2013
71. Hori T, N. Nishitani, Y. Miyoshi, Y. Miyashita, K. Seki, T. Segawa, K. Hosokawa, A. S. Yukimatu, Y. Tanaka, N. Sato, M. Kunitake, and T. Nagatsuma, An integrated analysis platform merging SuperDARN data within the THEMIS tool developed by ERG-Science Center (ERG-SC), *Advances in Polar. Science*, 24, 69-77, doi:10.3724/SP.J.1085.2013.000692013, 2013
72. Ogawa, Y., A. Kadokura, T. Motoba, Y. Tanaka, and K. Hosokawa, Processing and visualization of large amounts of auroral data obtained with All-sky/Narrow field-of-view parallel imagers in Tromso and Longyearbyen, *Journal of Space Science Informatics Japan*, vol. 2, 51-61, 2013
73. Hosokawa, K., S. Taguchi, and Y. Ogawa, Periodicities of polar cap patches, *Journal of Geophysical Research* (IF 3.303), 118, 447-453, doi:10.1029/2012JA018165, 2013
74. Taguchi, S., K. Hosokawa, Y. Ogawa, T. Aoki, and M. Taguchi, Double bursts inside a poleward-moving auroral form in the cusp, *Journal of Geophysical Research* (IF 3.303), 117, 6 pages, doi:10.1029/2012JA018150, 2012
75. Dahlgren, H., G. Perry, J. Semeter, J.-P. St.-Maurice, K. Hosokawa, M. Nicolls, M. Greffen, K. Shiokawa, C. Heinselman, Space-time variability of polar cap patches: direct evidence for internal plasma structuring, *Journal of Geophysical Research* (IF 3.303), 117, 15 pages, doi:10.1029/2012JA017961, 2012
76. Motoba, T., K. Hosokawa, Y. Ogawa, N. Sato, A. Kadokura, S. E. Milan, M. Lester, Simultaneous ground-satellite observations of meso-scale auroral arc undulations, *Journal of Geophysical Research* (IF 3.303), 17 pages, doi:10.1029/2011JA017291, 2012
77. Jayachandran, P. T., K. Hosokawa, K. Shiokawa, Y. Otsuka, C. J. Watson, S. C. Mushini, J. W. MacDougall, P. Prikryl, R. Chadwick, and T. D. Kelly, GPS Total Electron Content variations associated with poleward moving Sun aligned arcs, *Journal of Geophysical Research* (IF 3.303), 117, 13 pages, doi:10.1029/2011JA017423, 2012
78. Motoba, T., K. Hosokawa, A. Kadokura, and N. Sato, Magnetic conjugacy of northern and southern auroral beads, *Geophysical Research Letters* (IF 4.339), 39, 5 pages, doi:10.1029/2012GL051599, 2012
79. Dahlgren, H., J. L. Semeter, K. Hosokawa, M. J. Nicolls, T. W. Butler, M. G. Johnsen, K. Shiokawa, and C. Heinselman, Direct three-dimensional imaging of polar ionospheric structures with the Resolute Bay Incoherent Scatter Radar, *Geophysical Research Letters* (IF 4.339), 39, 6 pages, doi:10.1029/2012GL050895, 2012
80. Koustov, A. V., K. Hosokawa, N. Nishitani, K. Shiokawa, and H. Liu, Signatures of moving polar cap arcs in the F-region PolarDARN echoes, *Annales Geophysicae* (IF 1.731), 30, 441-455, 2012
81. Hosokawa, K., J. I. Moen, K. Shiokawa, and Y. Otsuka, Decay of polar cap patch, *Journal of Geophysical Research* (IF 3.303), 116, 11 pages, doi:10.1029/2010JA016297, 2011
82. Nishitani, N., T. Ogawa, Y. Otsuka, K. Hosokawa, and T. Hori, Propagation of large amplitude ionospheric disturbances with velocity dispersion observed by the SuperDARN Hokkaido radar after the 2011 off the Pacific coast of Tohoku Earthquake, *Earth, Planets and Space* (IF 2.773), 63, 891-896, 2011
83. Motoba, T., K. Hosokawa, Y. Ogawa, N. Sato, A. Kadokura, S. Buchert, H. Rème, In-situ evidence for IMF-induced tail twisting associated with relative displacement of conjugate auroras, *Journal of Geophysical Research* (IF 3.303), 116, 7 pages, doi:10.1029/2010JA016206, 2011
84. Wild, J. A., E. E. Woodfield, E. Donovan, R. Fear, A. Grocott, M. Lester, A. Fazakerley, E. Lucek, A. Kadokura, K. Hosokawa, C. Carlson, J. McFadden, K.-H. Glassmeier, V. Angelopoulos, G.

- Bjornsson, Midnight sector observations of auroral omega bands, *Journal of Geophysical Research* (IF 3.303), 116, 20 pages, doi:10.1029/2010JA015874, 2011
85. Miyashita, Y., I. Shinohara, M. Fujimoto, H. Hasegawa, K. Hosokawa, T. Takada and T. Hori, A powerful tool for browsing quick-look data in solar-terrestrial physics: "Conjunction Event Finder", *Earth, Planets and Space* (IF 2.773), 63, e1-e4, 2011
86. Hosokawa, K., J. I. Moen, K. Shiokawa, and Y. Otsuka, Motion of polar cap arcs, *Journal of Geophysical Research* (IF 3.303), 116, 13 pages, doi:10.1029/2010JA015906, 2011
87. Nishimura, Y., L. Lyons, S. Zou, X. Xing, V. Angelopoulos, S. Mende, J. Bonnell, D. Larson, U. Auster, T. Hori, N. Nishitani, K. Hosokawa, G. Sofko, M. Nicolls, and C. Heinselman, Pre-onset time sequence of auroral substorms: Coordinated observations by ASIs, satellites and radars, *Journal of Geophysical Research* (IF 3.303), 115, 12 pages, doi:10.1029/2010JA015832, 2010
88. Taguchi, S., K. Hosokawa, S. Suzuki, A. Tawara, H. U. Frey, J. Mazka, A. S. Yukimatu, and N. Sato, Distorted flow during moving mesoscale plasma precipitation in the cusp, *Journal of Geophysical Research* (IF 3.303), 115, 12 pages, doi:10.1029/2010JA015535, 2010
89. Hosokawa, K., T. Tsugawa, K. Shiokawa, Y. Otsuka, N. Nishitani, T. Ogawa and M. Hairston, Dynamic temporal evolution of polar cap tongue of ionization, *Journal of Geophysical Research* (IF 3.303), 115, 33 pages, doi:10.1029/2010JA015848, 2010
90. Hosokawa, K. and Y. Ogawa, Pedersen current carried by electrons in auroral D-region, *Geophysical Research Letters* (IF 4.339), 37, 5 pages, doi:10.1029/2010GL044746, 2010
91. Motoba, T., K. Hosokawa, A. Kadokura, N. Sato, and G. Bjornsson, Varying IMF By effects on interhemispheric conjugate auroral features during weak substorm, *Journal of Geophysical Research* (IF 3.303), 115, 10 pages, doi:10.1029/2010JA015369, 2010
92. Hosokawa, K., T. Motoba, A. S. Yukimatu, S. E. Milan, M. Lester, A. Kadokura, N. Sato, and G. Bjornsson, Plasma irregularities adjacent to auroral patches in the post-midnight sector, *Journal of Geophysical Research* (IF 3.303), 115, 10 pages, doi:10.1029/2010JA015319, 2010
93. Hosokawa, K. and N. Nishitani, Plasma irregularities in the duskside subauroral F region ionosphere as observed with mid-latitude SuperDARN radar in Hokkaido, Japan, *Radio Science* (IF 1.418), 45, 11 pages, doi:10.1029/2009RS004244, 2010
94. Hayashi, H., N. Nishitani, T. Ogawa, Y. Otsuka, T. Tsugawa, K. Hosokawa and A. Saito, Large scale traveling ionospheric disturbance observed by SuperDARN Hokkaido HF radar and GPS network on 15 December 2006, *Journal of Geophysical Research* (IF 3.303), 115, 11 pages, doi:10.1029/2009JA014297, 2010
95. Taguchi S., K. Hosokawa, S. Suzuki, A. S. Yukimatu, and N. Sato, Initial development of the HF radar polar patch driven by the azimuthal flow burst in the cusp, *Journal of Geophysical Research* (IF 3.303), 115, 9 pages, doi:10.1029/2009JA014631, 2010
96. Hosokawa, K., Y. Ogawa, A. Kadokura, H. Miyaoka, and N. Sato, Modulation of ionospheric conductance and electric field associated with pulsating aurora, *Journal of Geophysical Research* (IF 3.303), 115, 11 pages, doi:10.1029/2009JA014683, 2010
97. Hosokawa, K., J.-P. St.-Maurice, G. J. Sofko, K. Shiokawa, Y. Otsuka, and T. Ogawa, Reorganization of polar cap patches through shears in the background plasma convection, *Journal of Geophysical Research* (IF 3.303), 115, 10 pages, doi:10.1029/2009JA014599, 2010
98. Jayachandran P. T., K. Hosokawa, J. W. MacDougall, S. Mushini, R. B. Langley, and K. Shiokawa, GPS Total Electron Content variations associated with a polar cap arc, *Journal of Geophysical Research* (IF 3.303), 114, 6 pages, doi:10.1029/2009JA014916, 2009

99. Maeda, S., Y. Ogawa, K. Hosokawa, S. Nozawa, S. Oyama, T. Tsuda and A. Brekke, Ion heating in high-speed flow channel within the duskside cell of the polar-cap ion convection under large IMF-By condition, *Journal of Geophysical Research* (IF 3.303), 114, 17 pages, doi:10.1029/2009JA014300, 2009
100. Suzuki, S., K. Hosokawa, T. F. Shibata, K. Shiokawa, Y. Otsuka, N. Nishitani, T. Ogawa, A. V. Koustov, and B. M. Shevtsov, Coordinated observations of nighttime medium-scale traveling ionospheric disturbances in 630-nm airglow and HF radar echoes at midlatitudes, *Journal of Geophysical Research* (IF 3.303), 114, 6 pages, doi:10.1029/2008JA013963, 2009
101. Taguchi, S., S. Suzuki, K. Hosokawa, Y. Ogawa, A. S. Yukimatu, N. Sato, M. R. Collier, T. E. Moore, Moving meso-scale plasma precipitation in the cusp, *Journal of Geophysical Research* (IF 3.303), 114, 12 pages, doi:10.1029/2009JA014128, 2009
102. Tsuda, T., S. Nozawa, S. Oyama, T. Motoba, Y. Ogawa, H. Shinagawa, N. Nishitani, K. Hosokawa, N. Sato, M. Lester and R. Fujii, Acceleration mechanism of high-speed neutral wind observed in the polar lower thermosphere, *Journal of Geophysical Research* (IF 3.303), 114, 10 pages, doi:10.1029/2008JA013867, 2009
103. Hosokawa, K., T. Kashimoto, S. Suzuki, K. Shiokawa, Y. Otsuka and T. Ogawa, Motion of polar cap patches: A statistical study with all-sky airglow imager at Resolute Bay, Canada, *Journal of Geophysical Research* (IF 3.303), 114, 8 pages, doi:10.1029/2008JA014020, 2009
104. Kataoka, R., K. Hosokawa, N. Nishitani and Y. Miyoshi, SuperDARN Hokkaido radar observation of westward flow enhancement in subauroral latitudes, *Annales Geophysicae* (IF 1.731), 27, 1695-1699, 2009
105. Hosokawa, K., T. Tsugawa, K. Shiokawa, Y. Otsuka, T. Ogawa and M. Hairston, Unusually elongated, bright airglow plume in the polar cap F region: is it tongue of ionization?, *Geophysical Research Letters* (IF 4.339), 36, 5 pages, doi:10.1029/2009GL037512, 2009
106. Ogawa, T., N. Nishitani, Y. Otsuka, K. Shiokawa, T. Tsugawa and K. Hosokawa, Medium-scale traveling ionospheric disturbances observed with the SuperDARN Hokkaido radar, all-sky imager and GPS network, and their relation to concurrent sporadic-E layer irregularities, *Journal of Geophysical Research* (IF 3.303), 114, 15 pages, doi:10.1029/2008JA013893, 2009
107. Hosokawa, K., K. Shiokawa, Y. Otsuka, T. Ogawa, J.-P. St-Maurice, G. J. Sofko, D. A. Andre, Relationship between polar cap patches and field-aligned irregularities as observed with an all-sky airglow imager at Resolute Bay and the PolarDARN radar at Rankin Inlet, *Journal of Geophysical Research* (IF 3.303), 114, 11 pages, doi:10.1029/2008JA013707, 2009
108. Taguchi, S., K. Hosokawa, A. Nakao, M. R. Collier, T. E. Moore, N. Sato, and A. S. Yukimatu, HF radar polar patch and its relation with the cusp during By-dominated IMF: Simultaneous observations at two altitudes, *Journal of Geophysical Research* (IF 3.303), 114, 13 pages, doi:10.1029/2008JA013624, 2009
109. Suzuki, S., K. Shiokawa, K. Hosokawa, K. Nakamura, and W. K. Hocking, Statistical characteristics of polar cap mesospheric gravity waves observed by an all-sky airglow imager at Resolute Bay, Canada, *Journal of Geophysical Research* (IF 3.303), 114, 8 pages, doi:10.1029/2008JA013652, 2009
110. Ebihara, Y., N. Nishitani, T. Kikuchi, T. Ogawa, K. Hosokawa, M.-C. Fok, M. F. Thomsen, Dynamical property of SAPS as a manifestation of fine structures of the ring current during the magnetic storm of 15 December 2006, *Journal of Geophysical Research* (IF 3.303), 114, 13 pages, doi:10.1029/2008JA013614, 2009
111. Miyashita, Y., K. Hosokawa, T. Hori, Y. Kamide, S. Machida, N. Sato, A. S. Yukimatu, M. Fujimoto, I. Shinohara, T. Mukai, Y. Saito, and J. B. Sigwarth, Response of large-scale ionospheric

- convection to substorm expansion onsets: A case study, *Journal of Geophysical Research* (IF 3.303), 113, 13 pages, doi:10.1029/2008JA013586, 2008
112. Hosokawa, K., A. Kadokura, N. Sato, S. E. Milan, M. Lester, G. Bjornsson, and Th. Saemundsson, Electric field modulation behind pulsating aurora, *Journal of Geophysical Research* (IF 3.303), 113, 10 pages, doi:10.1029/2008JA013601, 2008
113. Hosokawa, K., S. Taguchi, S. Suzuki, M. R. Collier, T. E. Moore, and M. F. Thomsen, Estimation of magnetopause motion from low-energy neutral atom emission, *Journal of Geophysical Research* (IF 3.303), 113, 11 pages, doi:10.1029/2008JA013124, 2008
114. Koustov, A., K. Hosokawa, N. Nishitani, T. Ogawa, and K. Shiokawa, Rankin Inlet PolarDARN radar observations of duskward moving Sun-aligned optical forms, *Annales Geophysicae* (IF 1.731), 26, 2711-2723, 2008
115. Milan, S. E., K. Hosokawa, M. Lester, N. Sato, H. Yamagishi, and F. Honary D region HF radar echoes associated with energetic particle precipitation and pulsating aurora, *Annales Geophysicae* (IF 1.731), 26, 1897-1904, 2008
116. Suzuki, S., S. Taguchi, K. Hosokawa, M. R. Collier, T. E. Moore, H. U. Frey, and S. B. Mende, Conjugate observations of ENA signals in the high-altitude cusp and proton auroral spot in the low-altitude cusp with IMAGE spacecraft, *Geophysical Research Letters* (IF 4.339), 35, 6 pages, doi:10.1029/2008GL034543, 2008
117. Ishida, T., K. Hosokawa, T. Shibata, S. Suzuki, N. Nishitani, and T. Ogawa, SuperDARN observations of daytime MSTIDs in the auroral and mid-latitudes: Possibility of long-distance propagation, *Geophysical Research Letters* (IF 4.339), 35, 6 pages, doi:10.1029/2008GL034623, 2008
118. Ebihara Y, N. Nishitani, T. Kikuchi, T. Ogawa, K. Hosokawa, and M.-C. Fok, Two-dimensional observations of overshielding during a magnetic storm by the SuperDARN Hokkaido radar, *Journal of Geophysical Research* (IF 3.303), 113, 8 pages, doi:10.1029/2007JA012641, 2007
119. Fujiwara, H., R. Kataoka, M. Suzuki, S. Maeda, S. Nozawa, K. Hosokawa, H. Fukunishi, N. Sato, and M. Lester, Electromagnetic energy deposition rate in the polar upper thermosphere derived from the EISCAT Svalbard radar and CUTLASS Finland radar observations, *Annales Geophysicae* (IF 1.731), 25, 2393-2403, 2007
120. Kataoka, R., N. Nishitani, Y. Ebihara, K. Hosokawa, T. Ogawa, T. Kikuchi, and Y. Miyoshi, Dynamic variations of a convection flow reversal in the subauroral postmidnight sector as seen by the SuperDARN Hokkaido HF radar, *Geophysical Research Letters* (IF 4.339), 34, 5 pages, doi:10.1029/2007GL031552, 2007
121. Murata, Y., S. Taguchi, K. Hosokawa, A. Nakao, M. R. Collier, T. E. Moore, N. Sato, H. Yamagishi, A. S. Yukimatu, Correlative variations of the neutral atom emission in the high-altitude cusp and the fast anti-sunward convection in the low-altitude cusp, *Journal of Geophysical Research* (IF 3.303), 112, 10 pages, doi:10.1029/2007JA012404, 2007
122. Kunori, T., M. Nose, S. Taguchi, K. Hosokawa, M. R. Collier, and T. E. Moore, Storm phase dependence of ion outflow: Statistical signatures obtained by IMAGE/LENA, *Geophysical Research Letters* (IF 4.339), 34, 5 pages, doi:10.1029/2007GL029877, 2007
123. Hosokawa, K., K. Shiokawa, Y. Otsuka, A. Nakajima, T. Ogawa, and J. D. Kelly, Estimating drift velocity of polar cap patches with all-sky airglow imager at RResolve Bay, Canada, *Geophysical Research Letters* (IF 4.339), 33, 5 pages, doi:10.1029/2006GL026916, 2006
124. Taguchi, S., K. Hosokawa, Y. Murata, A. Nakao, M. R. Collier, T. E. Moore, A. Yamazaki, N. Sato, and A. S. Yukimatu, Neutral atom emission coming from the direction of the high-latitude

- magnetopause under northward IMF, *Advances in Polar Upper Atmospheric Research*, 20, 17-26, 2006
125. Taguchi, S., K. Hosokawa, A. Nakao, M. R. Collier, T. E. Moore, A. Yamazaki, N. Sato, and A. S. Yukimatu, Neutral atom emission in the direction of the high-latitude magnetopause for northward IMF: Simultaneous observations from IMAGE spacecraft and SuperDARN radar, *Geophysical Research Letters* (IF 4.339), 33, 4 pages, doi:10.1029/2005GL025020, 2006
  126. Hosokawa, K., T. Ogawa, N. F. Arnold, M. Lester, N. Sato, and A. S. Yukimatu, Extraction of polar mesosphere summer echoes from SuperDARN data, *Geophysical Research Letters* (IF 4.339), 32, 5 pages, doi:10.1029/2005GL022788, 2005
  127. Nose, M., S. Taguchi, K. Hosokawa, S. P. Christon, R. W. McEntire, T. E. Moore, and M. R. Collier, Overwhelming O<sup>+</sup> contribution to the plasma sheet energy density during the October 2003 superstorm: Geotail/EPIC and IMAGE/LENA observations, *Journal of Geophysical Research* (IF 3.303), 110, 8 pages, doi:10.1029/2004JA010930, 2005
  128. Taguchi, S., S.-H. Chen, M. R. Collier, T. E. Moore, M.-C. Fok, K. Hosokawa, and A. Nakao, Monitoring the high-altitude cusp with the Low Energy Neutral Atom Imager: Simultaneous observations from IMAGE and Polar, *Journal of Geophysical Research* (IF 3.303), 110, 9 pages, doi:10.1029/2005JA011075, 2005
  129. Taguchi, S., K. Hosokawa, M. R. Collier, M.-C. Fok, A. S. Yukimatu, N. Sato, and R. A. Greenwald, Simultaneous observations of the cusp with IMAGE Low Energy Neutral Atoms Imager and SuperDARN radar, *Advances in Polar Upper Atmospheric Research*, 18, 53-64, 2004
  130. Hosokawa, K., T. Ogawa, N. Sato, A. S. Yukimatu, T. Iyemori, Statistics of Antarctic Mesospheric Echoes Observed with the SuperDARN Syowa Radar, *Geophysical Research Letters* (IF 4.339), 31, 5 pages, doi:10.1029/2003GL018776, 2004
  131. Hosokawa, K., S. Yamasita, P. Stauning, N. Sato, A. S. Yukimatu and T. Iyemori, Origin of the SuperDARN broad Doppler spectra: simultaneous observation with Oersted satellite magnetometer, *Annales Geophysicae* (IF 1.731), 22, 159-168, 2004
  132. Fujita, S., T. Tanaka, T. Kikuchi, K. Fujimoto, K. Hosokawa, M. Itonaga, A numerical simulation of the geomagnetic sudden commencement: 1. Generation of the field-aligned current associated with the preliminary impulse, *Journal of Geophysical Research* (IF 3.303), 108, 14 pages, doi:10.1029/2002JA009407, 2003
  133. Ogawa, T., K. Hosokawa, N. Nishitani, N. Sato, H. Yamagishi, and A. S. Yukimatu, Characteristics of polar mesosphere summer echoes observed with the Syowa Station HF radars, *Advances in Polar Upper Atmosphere*, 17, 13-29, 2003
  134. Kataoka, R., H. Fukunishi, K. Hosokawa, H. Fujiwara, A. S. Yukimatu, N. Sato and Y.-K. Tung, Transient production of F-region irregularities associated with TCV passage, *Annales Geophysicae* (IF 1.731), 21, 1531-1541, 2003
  135. Hosokawa, K., E. E. Woodfield, M. Lester, S. E. Milan, N. Sato, A. S. Yukimatu, and T. Iyemori, Interhemispheric comparison of spectral width boundary as observed by the SuperDARN radars, *Annales Geophysicae* (IF 1.731), 21, 1553-1565, 2003
  136. Hosokawa, K., M. Sugino, M. Lester, N. Sato, A. S. Yukimatu, and T. Iyemori, Simultaneous measurement of duskside subauroral irregularities from the CUTLASS Finland radar and EISCAT UHF system, *Journal of Geophysical Research* (IF 3.303), 107, 14 pages, doi:10.1029/2002JA009494, 2002
  137. Hosokawa, K., E. E. Woodfield, M. Lester, S. E. Milan, N. Sato, A. S. Yukimatu, and T. Iyemori, Statistical characteristics of Doppler spectral width as observed by the conjugate SuperDARN radars, *Annales Geophysicae* (IF 1.731), 20, 1213-1223, 2002

138. Woodfield, E. E., K. Hosokawa, S. E. Milan, N. Sato, and M. Lester, An inter-hemispheric, statistical study of nightside spectral width distribution from coherent HF scatter radars, *Annales Geophysicae* (IF 1.731), 20, 1921-1934, 2002
139. Hosokawa, K., T. Iyemori, A. S. Yukimatu, and N. Sato, Source of field-aligned irregularities in the subauroral F region as observed by SuperDARN radars, *Journal of Geophysical Research* (IF 3.303), 106, 24,713-24,731, 2001
140. Hosokawa, K., T. Iyemori, A. S. Yukimatu, and N. Sato, Characteristics of solar flare effect in the high-latitude ionosphere as observed by the SuperDARN radars, *Advances in Polar Upper Atmosphere Research* 14, 66-75, 2000

### **Conference Proceedings (first authored papers only)**

01. Hosokawa, K., S. Taguchi and Y. Ogawa, Creation of polar cap patches, SA22A-01 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., Dec 2014, 2014 (invited)
02. Hosokawa, K., J. I. Moen, K. Shiokawa, and Y. Otsuka, Decay of polar cap patches, SM11A-1684 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec, 2010
03. Hosokawa, K., T. Tsugawa, K. Shiokawa, N. Nishitani, Y. Otsuka, T. Ogawa, and M. Hairston, Multi-instrumental comprehensive study of polar cap tongue of ionization during magnetic storm on December 15, 2006, *EOS Trans. AGU* 90(52), Fall Meet. Suppl., SM32A-04, 2009
04. Hosokawa, K., T. Tsugawa, K. Shiokawa, N. Nishitani, Y. Otsuka and T. Ogawa, Optical observation of polar cap tongue of ionization, *EOS Trans. AGU* 89(53), Fall Meet. Suppl., SA33A-1626, 2008
05. Hosokawa, K., S. Taguchi, S. Suzuki, R. Nishizawa, M. R. Collier, T. E. Moore, and M. F. Thomsen, Motion of the Earth's magnetopause: Estimation from low-energy neutral atom emissions, *EOS Trans. AGU* 88(52), Fall Meet. Suppl., SH13B-06, 2007
06. Hosokawa, K., T. Ogawa, A. S. Yukimatu, and N. Sato, Statistical properties of Polar Mesosphere Summer Echoes as detected with the Super Dual Auroral Radar Network, *EOS Trans. AGU* 87(52), Fall Meet. Suppl., SA33A-0265, 2006
07. Shiokawa, K., K. Hosokawa, K. Sakaguchi, A. Ieda, Y. Otsuka, T. Ogawa and M. Connors, The Optical Mesosphere Thermosphere Imagers (OMTIs) for network measurements of aurora and airglow, *Proceedings of the Future Perspectives of Space Plasma and Particle Instrumentation and International Collaborations*, November 1-3, 2006, Rikkyo Univ, 2007
08. Hosokawa K., T. Ogawa, A. S. Yukimatu, and N. Sato, Extraction of PMSE from SuperDARN data, *EOS Trans. AGU* 86(52), Fall Meet. Suppl., SA13A-0235, 2005

### **Presentations at international conference (first authored papers only)**

01. Hosokawa, K., Y. Miyoshi, M. Ozaki, S.-I. Oyama, Y. Ogawa, S. Kurita, Y. Kasahara, Y. Kasaba, S. Yagitani, S. Matsuda, F. Tsuchiya, A. Kumamoto, R. Kataoka, K. Shiokawa, H. Miyaoka, Y. Tanaka, S. Nozawa, M. Teramoto, T. Takashima, I. Shinohara, and R. Fujii, Short review for recent studies of pulsating aurora in Japan during Arase era, *JpGU-AGU Joint Meeting 2020*, Online, July 2020
02. Hosokawa, K., K. Shiokawa, Y. Otsuka and S. Taguchi, What controls the luminosity of polar cap airglow patches? : implication from airglow measurement in Eureka, Canada, *American Geophysical Union Fall Meeting*, San Francisco, USA, Dec 13, 2019
03. Hosokawa, K., J. Sakai, I. Tomizawa, S. Saito, T. Tsugawa and M. Ishii, Anomalous propagation of VHF NAV signals by the sporadic E layer, *EIWAC 2019*, Tokyo, Oct 31, 2019

04. Hosokawa, K., History and current status of ionospheric radio observations by UEC, URSI-Japan Radio Science Meeting, The University of Electro-Communications, Sep 5, 2019
05. Hosokawa, K., H. Nakata, K. K. Hashimoto, I. Tomizawa, J. Sakai, T. Kikuchi, and K. Nozaki, A network of HF Doppler sounding systems in Japan: possible collaboration with SuperDARN, SuperDARN Workshop, Fuji, Jun 6, 2019
06. Hosokawa, K., M. Nagata, K. Shiokawa, Y. Otsuka, IMF By dependence of polar cap patch occurrence: statistics using airglow data from Eureka, Canada in comparison with SuperDARN convection patterns, SuperDARN Workshop, Fuji, Jun 6, 2019
07. Hosokawa, K., N. Kusuyama, Y. Hozumi, K. Takami, S. Saito, Y. Ogawa, M. Ishii, Y. Otsuka, and T. Tsugawa, Observations of ionospheric and mesospheric wave structures by a low-cost airglow imaging system, JpGU Meeting, Makuhari, May 29, 2019
08. Hosokawa, K., Y. Miyoshi, S.-I. Oyama, Y. Ogawa, S. Kurita, Y. Kasahara, M. Ozaki, Y. Kasaba, S. Yagitani, S. Matsuda, F. Tsuchiya, A. Kumamoto, I. Shinohara, and R. Fujii, Over-darkening pulsating aurora: simultaneous observations with Arase and an all-sky camera in Scandinavia, JpGU Meeting, Makuhari, May 28, 2019
09. Hosokawa, K., H. Nakata, K. K. Hashimoto, I. Tomizawa, J. Sakai, T. Kikuchi, and K. Nozaki, A network of HF Doppler sounding systems in Japan, JpGU Meeting, Makuhari, May 28, 2019 Hosokawa, K., Y. Miyoshi, M. Ozaki, S. Oyama, Y. Ogawa, S. Kurita, Y. Kasahara, Y. Kasaba, S. Yagitani, S. Matsuda, F. Tsuchiya, A. Kumamoto, R. Kataoka, K. Shiokawa, E. Turunen, T. Raita, T. Takashima, I. Shinohara and R. Fujii, Origin of hierarchical temporal variation in pulsating aurora, American Geophysical Union Fall Meeting, Washington D.C., USA, December, 2018
10. Hosokawa, K., Simultaneous satellite and ground observations of pulsating aurora, 50th Anniversary International Symposium of Center for Space Science and Radio Engineering, Tokyo, June, 2018
11. Hosokawa, K., Y. Miyoshi, M. Ozaki, S. Oyama, Y. Ogawa, S. Kurita, Y. Kasahara, Y. Kasaba, S. Yagitani, S. Matsuda, F. Tsuchiya, A. Kumamoto, R. Kataoka, K. Shiokawa, H. Miyaoka, Y. Tanaka, S. Nozawa, M. Teramoto, T. Takashima, I. Shinohara, and R. Fujii, High-time resolution optical observations of pulsating aurora in coordination with ARASE satellite, Asia-Oceania Geoscience Society Annual General Meeting, Honolulu, USA, June, 2018
12. Hosokawa, K., K. Takami, S. Saito, Y. Ogawa, Y. Otsuka, and K. Shiokawa, Simultaneous observations of plasma bubbles by a low-cost airglow imager and GNSS receivers in Ishigaki, Japan, Asia-Oceania Geoscience Society Annual General Meeting, Honolulu, USA, June, 2018
13. Hosokawa, K., Y. Miyoshi, M. Ozaki, S. Oyama, Y. Ogawa, S. Kurita, Y. Kasahara, Y. Kasaba, S. Yagitani, S. Matsuda, F. Tsuchiya, A. Kumamoto, R. Kataoka, K. Shiokawa, H. Miyaoka, Y. Tanaka, S. Nozawa, M. Teramoto, T. Takashima, I. Shinohara, and R. Fujii, Comparison of pulsating aurora with and without internal modulation: simultaneous observations with ARASE, Japan Geoscience Union, Makuhari, Japan, May 2018
14. Hosokawa K. and Y. Ogawa, Quasi-periodic variation in electron density, conductance and electric field during pulsating aurora, 18th EISCAT Workshop, Tokyo, Japan, May 2017
15. Hosokawa K., S. Oyama, Y. Ogawa, Y. Miyoshi, S. Kurita, H. Miyaoka, Y. Tanaka, S. Nozawa, K. Shiokawa, T. Sakanoi and R. Fujii, Coordinated observations of pulsating aurora with multi-point high-speed optical measurements, EISCAT and ARASE/ERG satellite, 18th EISCAT Workshop, Tokyo, Japan, May 2017
16. Hosokawa K. and Y. Ogawa, Quasi-periodic variation in electron density, conductance and electric field during pulsating aurora, Japan Geoscience Union, Makuhari, Japan, May, 2017

17. Hosokawa, K., Poleward moving cusp aurora as a source of polar cap patches, Birkeland 150 year Anniversary Symposium "The Heritage of Kristian Birkeland and beyond", Tokyo, Japan, April 2017
18. Hosokawa, K., K. Takami, S. Saito, and Y. Ogawa, Simultaneous observations of plasma bubbles by a low-cost airglow imager and GNSS receivers in Ishigaki, Japan, 2nd GEOlab-RISH Joint workshop on GNSS and SAR Technologies for Atmospheric Sensing, Kyoto, Japan, March 2017
19. Hosokawa, K., S. Taguchi, K. Shiokawa, Y. Ogawa and Y. Otsuka, Responses of polar cap ionosphere to successive CMEs in December 2014: 5 days continuous monitoring with two all-sky imagers, Asia-Oceania Geoscience Society Annual General Meeting, Singapore, Japan, August 2015
20. Hosokawa, K., J. I. Moen, J.-P. St-Maurice, K. Shiokawa, and Y. Otsuka, Stagnation of a polar cap patch and decay of the accompanying plasma irregularities, SuperDARN Workshop and Annual Meeting, Leicester, UK, May 2015
21. Hosokawa, K., Plasma structuring in the polar cap ionosphere, Grand Challenge Brain Storming Session, in theory, numerical, experimental, technology and instrumentation, for advancing coordinated ground and sounding rocket missions, Sagamihara, Japan, January 2015
22. Hosokawa, K., S. Taguchi and Y. Ogawa, Creation of polar cap patches, American Geophysical Union Fall Meeting, Sanfrancisco, USA, December 2014 (invited)
23. Hosokawa, K., R. Maggiolo, Y. Zhang, R. Fear, D. Fontaine, J. Cumnock, A. Kullen, S. E. Milan, A. Kozlovsky, M. Echim and K. Shiokawa, Ground and satellite observations of multiple auroral arcs in the duskside polar cap region, American Geophysical Union Fall Meeting, Sanfrancisco, USA, December 2014
24. Hosokawa, K. and Y. Ogawa, Ionospheric density changes during periods of pulsating aurora, Asia-Oceania Geoscience Society Annual General Meeting, Sapporo, Japan, August 2014
25. Hosokawa, K., S. Taguchi, K. Shiokawa, Y. Otsuka and Y. Ogawa, Global imaging of polar cap patches, Asia-Oceania Geoscience Society Annual General Meeting, Sapporo, Japan, August 2014
26. Hosokawa, K., R. Maggiolo, Y. Zhang, R. Fear, D. Fontaine, J. Cumnock, A. Kullen, S. E. Milan, A. Kozlovsky, M. Echim and K. Shiokawa, Multi-instrument observations of multiple auroral arcs in the duskside polar cap region, European Geoscience Union General Assembly, Vienna, Austria, May 2014
27. Hosokawa, K., Motion of small-scale arcs and background convection, International Space Science Institute (ISSI) Team Meeting, Bern, Switzerland, October 2013
28. Hosokawa, K., Motoba, T., A. Kadokura, and N. Sato, Ground-based Interhemispheric Observation of Auroral Beads, Asia-Oceania Geoscience Society 10th Annual General Meeting, Brisbane, Japan, June 2013 (invited)
29. Hosokawa, K., S. Taguchi and Y. Ogawa, Plasma Structuring in the Polar Cap Ionosphere Asia-Oceania Geoscience Society 10th Annual General Meeting, Brisbane, Japan, June 2013 (invited)
30. Hosokawa, K., Tracking the motion of polar ionospheric disturbances from all-sky airglow imager, The 1st ANGWIN Meeting, Tokyo, Japan, March 2013
31. Hosokawa, K., Ground-based observations of polar cap aurorae, International Space Science Institute (ISSI) Team Meeting, Bern, Switzerland, February 2013
32. Hosokawa, K., T. Motoba, A. Kadokura, and N. Sato, Magnetic conjugacy of northern and southern auroral beads, American Geophysical Union Fall Meeting, Sanfrancisco, USA, December 2012

33. Hosokawa, K., J. I. Moen, P. T. Jayachandran, K. Shiokawa and Y. Otsuka, An unusual strolling motion of polar cap patches: an implication of the influence of tail reconnection on the nightside polar cap convection, European Geoscience Union General Assembly, Vienna, Austria, April 2012
34. Hosokawa, K., Observational studies of plasma structures in Earth's ionosphere, International WorkShop on Computational Science and Numerical Analysis (IWCSNA), Tokyo, Japan, March 2012
35. Hosokawa, K., J. I. Moen, K. Shiokawa, and Y. Otsuka, Decay of polar cap patch, American Geophysical Union Fall Meeting, Sanfrancisco, USA, December 2010
36. Hosokawa, K., T. Tsugawa, K. Shiokawa, N. Nishitani, Y. Otsuka, T. Ogawa, and M. Hairston, Multi-instrumental comprehensive study of polar cap tongue of ionization during magnetic storm on December 15, 2006, 38th COSPAR Scientific Assembly, Bremen, Germany, July 2010
37. Hosokawa, K., Y. Ogawa, A. Kadokura, S. E. Milan, M. Lester, and N. Sato, Modulation of Ionosphere Associated with Pulsating Aurora - Observations in Iceland and Norway -, IPY Oslo Science Conference 2010, Oslo, Norway, June 2010
38. Hosokawa, K., Y. Ogawa, A. Kadokura, H. Miyaoka, and N. Sato, Modulation of ionospheric conductance and electric field associated with pulsating aurora, European Geoscience Union General Assembly, Vienna, Austria, May 2010
39. Hosokawa, K., T. Tsugawa, K. Shiokawa, N. Nishitani, Y. Otsuka, T. Ogawa, and M. Hairston, Multi-instrumental comprehensive study of polar cap tongue of ionization during magnetic storm on December 15, 2006, American Geophysical Union Fall Meeting, Sanfrancisco, USA, December 2009
40. Hosokawa, K., Modification of ionospheric current system during an intense pulsating aurora, 1st Workshop on Norway-Japan Arctic Space Research with Sounding Rockets, The Royal Norwegian Embassy Tokyo, Tokyo, Japan, October 2009 (invited)
41. Hosokawa, K., T. Tsugawa, K. Shiokawa, N. Nishitani, Y. Otsuka, T. Ogawa, Polar cap tongue of ionization during magnetic storm on December 14-15, 2006, SuperDARN Workshop and Annual Meeting, Corsica, France, May 2009
42. Hosokawa, K., R. Sugita, A. Kadokura, A. S. Yukimatu, N. Sato, S. E. Milan, M. Lester, G. Bjornsson, T. Saemundsson, Small-scale converging electric field structure in the vicinity of breakup auroral arcs, SuperDARN Workshop and Annual Meeting 2009, Corsica, France, May 2009
43. Hosokawa, K., Patches and TOI from 4 years observations at Resolute Bay, Cusp and Polar Cap Ionosphere Present Knowledge and Future Planning, Oslo, Norway, April 2009 (invited)
44. Hosokawa, K., T. Tsugawa, K. Shiokawa, N. Nishitani, Y. Otsuka and T. Ogawa, Optical observation of polar cap tongue of ionization, American Geophysical Union Fall Meeting, Sanfrancisco, USA, December 2008
45. Hosokawa, K., PMSE observed with SuperDARN, Japan-China Scientific Cooperation Program sponsored by JSPS and NSFC Joint Seminar "Study on polar ionosphere-magnetosphere coupling", Tokyo, Japan, Aug 2008
46. Hosokawa, K., K. Shiokawa, Y. Otsuka, and T. Ogawa, Motion of large-scale structures in the polar cap ionosphere, Asia-Oceania Geoscience Society 5th Annual General Meeting, Busan, Korea, June 2008 (invited)
47. Hosokawa, K., K. Shiokawa, Y. Otsuka, and T. Ogawa, Spatial relationship of polar cap patches and field-aligned irregularities observed with an all-sky airglow imager at Resolute Bay and

- SuperDARN radars, Asia-Oceania Geoscience Society 5th Annual General Meeting, Busan, Korea, June 2008
48. Hosokawa, K., A. Kadokura, N. Sato, S. E. Milan, M. Lester, G. Bjornsson, T. Saemundsson, Electric field oscillation behind pulsating aurora, SuperDARN Workshop and Annual Meeting 2008, Newcastle, Australia, June 2008
  49. Hosokawa, K., S. Taguchi, S. Suzuki, R. Nishizawa, M. R. Collier, T. E. Moore, and M. F. Thomsen, Motion of the Earth's Magnetopause: Estimation from low-energy neutral atom emissions, American Geophysical Union Fall Meeting, Sanfrancisco, USA, Dec 2007
  50. Hosokawa, K., N. Nishitani, T. Ogawa, T. Tsugawa, R. Kataoka, and A. Saito, Initial Backscatter Occurrence Statistics from SuperDARN Hokkaido Radar, SuperDARN Workshop and Annual Meeting 2007, Abashiri, Japan, June 2007
  51. Hosokawa, K., K. Shiokawa, Y. Otsuka, T. Ogawa, J.-P. St-Maurice, G. Sofko, and D. Andre, Spatial relationship of polar cap patches and field-aligned irregularities observed with an all-sky imager at RSB and PD Rankin Inlet, SuperDARN Workshop and Annual Meeting 2007, Abashiri, Japan, June 2007
  52. Hosokawa, K., T. Ogawa, N. F. Arnold, M. Lester, N. Sato, and A. S. Yukimatu, An interhemispheric comparison of Polar Mesosphere Summer Echoes (PMSE) as detected with conjugate SuperDARN radars, Greenland IPY 2007 Space Science Symposium (GSSS-2007), Kangerlussuaq, Greenland, May 2007 (invited)
  53. Hosokawa, K., K. Shiokawa, Y. Otsuka, and T. Ogawa, Optical observations of polar cap patches, Greenland IPY 2007 Space Science Symposium (GSSS-2007), Kangerlussuaq, Greenland, May 2007
  54. Hosokawa, K., T. Ogawa, A. S. Yukimatu, and N. Sato, Statistical properties of Polar Mesosphere Summer Echoes as detected with the Super Dual Auroral Radar Network, American Geophysical Union Fall Meeting, Sanfrancisco, USA, Dec 2006
  55. Hosokawa, K., K. Shiokawa, Y. Otsuka, T. Ogawa, A. S. Yukimatu, and N. Sato, Spatial relationship of polar cap patches and field-aligned irregularities observed with an all-sky airglow imager and the SuperDARN radar, SuperDARN Workshop and Annual Meeting 2006, Verginia, USA, May 2006
  56. Hosokawa, K., T. Yamano, N. Sato, S. Shimizu, Y. Murata, S. E. Milan, M. Lester, G. Bjornsson, and T. Saemundsson, Simultaneous measurement of auroral fine-scale structures with ground based all-sky TV camera and SuperDARN over Iceland, SuperDARN Workshop and Annual Meeting 2006, Verginia, USA, May 2006
  57. Hosokawa K., T. Ogawa, A. S. Yukimatu, and N. Sato, Extraction of PMSE from SuperDARN data, American Geophysical Union Fall Meeting, Sanfrancisco, USA, December 2005
  58. Hosokawa K., T. Ogawa, A. S. Yukimatu, and N. Sato, Extraction of PMSE from SuperDARN data, SuperDARN 2005 Workshop and Annual Meeting, Lake District, UK, May 2005
  59. Hosokawa K., K. Shiokawa, Y. Otsuka, A. Nakajima, T. Ogawa, J. D. Kelly, M. Lester, A. S. Yukimatu, and N. Sato, Simultaneous observation of polar cap patches with ground-based all-sky imager and SuperDARN, SuperDARN 2005 Workshop and Annual Meeting, Lake District, UK, May 2005
  60. Hosokawa K., S. Taguchi, S. Yamasita, A. S. Yukimatu, N. Sato and T. Iyemori, On the relationship between spectral characteristics of high-latitude plasma irregularities and small-scale electromagnetic field fluctuations, SuperDARN 2004 Workshop and Annual Meeting, Saskatoon, Canada, May 2004

61. Hosokawa K., T. Ogawa, N. Arnold, M. Lester, A. S. Yukimatu, and N. Sato, Statistical analysis of backscatters from first range gates with SENSU Syowa East and CUTLASS Iceland East, SuperDARN 2004 Workshop and Annual Meeting, Saskatoon, Canada, May 2004
62. Hosokawa K., S. Taguchi, A. Yamazaki, A. Nakao, M. R. Collier, T. E. Moore, M. Lester, A. S. Yukimatu, and N. Sato, Poleward-moving patch of neutral atoms as observed with IMAGE LENA imager, SuperDARN 2004 Workshop and Annual Meeting, Saskatoon, Canada, May 2004
63. Hosokawa K., T. Ogawa, N. Arnold, M. Lester, A. S. Yukimatu, and N. Sato, Statistics of Antarctic Mesospheric Echoes observed with the SuperDARN Radar in Antarctica, XXVIII SCAR Open Science Conference, Bremen, Germany, July 2004
64. Hosokawa K., T. Ogawa, N. Arnold, M. Lester, A. S. Yukimatu, and N. Sato, Statistical properties of Polar Mesosphere Summer Echoes as detected with Super Dual Auroral Radar Network, 2nd International Conference in Polar Research of China, Beijing, China, October 2004
65. Hosokawa K., E. E. Woodfield, M. Lester, S. E. Milan, N. Sato, A. S. Yukimatu, and T. Iyemori, Interhemispheric comparison of spectral width boundary as identified by the SuperDARN radars, SuperDARN 2002 Workshop and Annual Meeting, Alaska, USA, May 2002
66. Hosokawa K., E. E. Woodfield, M. Lester, S. E. Milan, N. Sato, A. S. Yukimatu, and T. Iyemori, Interhemispheric comparison of spectral width boundary as identified by the SuperDARN radars, 2002 Western Pacific Geophysics Meeting, Oakland, New Zealand, July 2002
67. Hosokawa K., E. E. Woodfield, M. Lester, S. E. Milan, N. Sato, A. S. Yukimatu, and T. Iyemori, Interhemispheric comparison of spectral width boundary as identified by the SuperDARN radars, XXVII Scientific Committee on Antarctic Research Meeting, Shanghai, China, July 2002
68. Hosokawa K., E. E. Woodfield, M. Lester, S. E. Milan, N. Sato, A. S. Yukimatu, and T. Iyemori, Characteristics of the spectral width boundary around dayside ionosphere as observed by CUTLASS and SENSU, SuperDARN 2001 Workshop and Annual Meeting, Venice, Italy, May 2001
69. Hosokawa K., M. Sugino, A. S. Yukimatsu, N. Sato, and T. Iyemori, Simultaneous observation of the subauroral plasma irregularities by EISCAT and SuperDARN, 10th International EISCAT Workshop, Tokyo, Japan, July 2001
70. Hosokawa K., A. S. Yukimatsu, T. Iyemori, N. Sato, and M. Sugino, Source of plasma irregularities in the subauroral F region as observed by the SuperDARN radars, 2001 Asia-Pacific Radio Science Conference (AP-RASC), Tokyo, Japan, August 2001
71. Hosokawa K., E. E. Woodfield, M. Lester, S. E. Milan, N. Sato, A. S. Yukimatu, and T. Iyemori, Interhemispheric comparison of spectral width boundary as observed by the conjugate SuperDARN radars, Magnetosphere Ionosphere Solar Terrestrial (MIST) Meeting, London, UK, November 2001
72. Hosokawa, K., A. S. Yukimatu, T. Iyemori, and N. Sato, Spatial distribution of irregularity occurrence rate in the subauroral F region as observed by the SuperDARN radars, SuperDARN 2000 Workshop and Annual Meeting, Beachworth, Australia, May 2000
73. Hosokawa, K., A. S. Yukimatu, T. Iyemori, and N. Sato, Spatial distribution of irregularity occurrence rate in the subauroral F region as observed by the SuperDARN radars, First S-Ramp Conference, Sapporo, Japan, October 2000
74. Hosokawa, K., T. Iyemori, A. S. Yukimatu, N. Sato, and M. Sugino, Active source of the plasma irregularities in the subauroral F region as observed by the SuperDARN radars, American Geophysical Union Fall Meeting, Sanfrancisco, USA, December 2000 – outstanding student paper award