

Polar/VIS Presentations

L. A. Frank *et al.*
Department of Physics and Astronomy
The University of Iowa
Iowa City, IA

1996

1. Frank, L. A., J. B. Sigwarth, J. D. Craven, C.-I. Meng, T. L. Killeen and W. E. Sharp, Global Views of Earth and its Auroras with the Visible Imaging System (VIS) on the Polar Spacecraft, 31st Scientific Assembly of COSPAR, Birmingham, United Kingdom, p. 175, 14-21 July 1996.
2. Sigwarth, J. B., L. A. Frank, J. D. Craven, C.-I. Meng, G. K. Parks, T. L. Killeen and W. E. Sharp, Images of Earth's Auroras From the Visible Imaging System (VIS) for the POLAR Spacecraft, presented at the 1st Alfvén Conference, Kiruna, Sweden, 9-13 September 1996.
3. Frank, L. A., J. B. Sigwarth, J. D. Craven, C.-I. Meng, G. K. Parks, T. L. Killeen and W. E. Sharp, Images of Earth's Auroras From the Visible Imaging System (VIS) for the POLAR Spacecraft, 1996 Huntsville Workshop on "Encounter Between Global Observations and Models in the ISTP ERA," Guntersville, Alabama, p. 15, 15-20 September 1996.
4. Frank, L. A., W. R. Paterson, J. B. Sigwarth, S. Kokubun, T. Yamamoto, R. P. Lepping and K. W. Ogilvie, Plasma Dynamics in Earth's Magnetotail, Chapman Conference on "The Earth's Magnetotail: New Perspectives," Kanazawa, Japan, p. 43, 5-9 November 1996.
5. Reeves, G. D., M. G. Henderson, M. F. Thomsen, R. D. Belian, H. J. Singer, G. K. Parks, L. A. Frank and R. P. Lin, Periodic Oscillations Seen in the Inner Plasmasheet Following a Substorm on May 10, 1996: Coordinated ISTP Observations, Chapman Conference on "The Earth's Magnetotail: New Perspectives," Kanazawa, Japan, p. 35, 5-9 November 1996.
6. Chenette, D. L., J. D. Tobin, L. A. Frank, J. B. Sigwarth, G. K. Parks and M. J. Brittner, Simultaneous Narrow-band UV, Broad-band UV, and X-ray Imaging of the Aurora, and Auroral Energetics on 27 May 1996, *EOS*, 77(46), 618, 1996.
7. Craven, J. D., T. J. Immel, L. A. Frank, J. B. Sigwarth, C.-I. Meng, G. K. Parks, T. L. Killeen, W. E. Sharp and R. P. Lepping, FUV Observations of the Active Aurora and Correlated Perturbations to Thermospheric Composition as Seen With the Visible Imaging System on the POLAR Spacecraft, *EOS*, 77(46), 620, 1996.

8. Frank, L. A., J. B. Sigwarth, W. R. Paterson, S. Kokubun, T. Yamamoto, K. W. Ogilvie and R. P. Lepping, An Initial Substorm Study: Global Auroral Images From POLAR, In-Situ Plasma Sheet Observations From GEOTAIL, and the Solar Wind Input From WIND, EOS, 77(46), 618, 1996.
9. Kauristie, K., T. I. Pulkkinen, D. N. Baker, N. Turner, L. A. Frank, J. B. Sigwarth, H. Singer, T. A. Fritz, J. B. Blake, G. D. Reeves, S. Kokubun, R. Nakamura and C. T. Russell, Multispacecraft Study of Solar Wind - Magnetosphere Coupling During an Isolated Substorm Event, EOS, 77(46), 640, 1996.
10. Pulkkinen, T. I., D. N. Baker, L. A. Frank, J. B. Sigwarth, S. G. Kanekal and T. Onsager, Particle Precipitation Boundaries and UV Oval Images Compared: Geomagnetically Quiet Times, EOS, 77(46), 623, 1996.
11. Raeder, J., J. Berchem, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto and R. P. Lepping, Global MHD Simulation of the May 19/20, 1996 Substorm Event and Comparisons with ISTP/GGS Observations, EOS, 77(46), 639, 1996.
12. Reeves, G. D., M. G. Henderson, M. F. Thomsen, R. D. Belian, H. J. Singer, G. K. Parks, L. A. Frank and R. P. Lin, Periodic Oscillations Seen in the Inner Plasmasheet Following a Substorm on May 10, 1996: Coordinated ISTP Observations, EOS, 77(46), 613, 1996.
13. Sigwarth, J. B. and L. A. Frank, Images of Earth's Auroras From the Visible Imaging System (VIS) for the POLAR Spacecraft, EOS, 77(46), 623, 1996.

1997

14. Anderson, R. R., D. A. Gurnett, J. D. Scudder, L. A. Frank, J. B. Sigwarth, H. Matsumoto, K. Hashimoto, H. Kojima, Y. Kasaba, M. L. Kaiser, G. Rostoker, J.-L. Bougeret, J. L. Steinberg, I. Nagano, H. J. Singer and T. G. Onsager, GEOTAIL, WIND, POLAR, CANOPUS, and ISTP Associated Geosynchronous Satellite Observations of Substorms Following the January 1997 CME Event, EOS, 78(17), 283, 1997.
15. Chang, S.-W., J. D. Scudder, L. A. Frank, J. B. Sigwarth, J. B. Blake, R. Friedel, E. G. Shelley, W. K. Peterson, R. A. Greenwald and R. P. Lepping, Polar Spacecraft Views of the Transpolar Arcs in Theta Auroras, EOS, 78(17), 277, 1997.
16. Craven, J. D., T. J. Immel, H. C. Stenbaek-Nielsen, T. J. Hallinan, L. A. Frank, J. B. Sigwarth, C. A. Cattell, C. W. Carlson, J. P. McFadden, R. E. Ergun and R. C. Elphic, Simultaneous Observations of the Global and Local Aurora With Spacecraft, Aircraft and From the Ground in the POLAR and FAST Missions, EOS, 78(17), 275, 1997.

17. Frank, L. A. and J. B. Sigwarth, Atmospheric Holes and Small Comets, EOS, 78(17), 279, 1997.
18. Pickett, J. S., R. R. Anderson, L. A. Frank, D. A. Gurnett, W. R. Paterson, J. D. Scudder, J. B. Sigwarth, B. T. Tsurutani, C. M. Ho, G. S. Lakhina, W. K. Peterson, E. G. Shelley, C. T. Russell, G. K. Parks, M. J. Brittnacher, H. Matsumoto, K. Hashimoto, I. Nagano, S. Kokubun and T. Yamamoto, Correlative Magnetopause Boundary Layer Observations, EOS, 78(17), 291, 1997.
19. Pulkkinen, T. I., D. N. Baker, N. Turner, L. A. Frank, J. B. Sigwarth, H. Singer, G. D. Reeves, J. B. Blake, T. Mukai, S. Kokubun and R. Nakamura, Two Substorm Intensifications Compared: Onset, Expansion and Global Consequences, EOS, 78(17), 309, 1997.
20. Sigwarth, J. B. and L. A. Frank, Imaging of the Northern Auroral Oval With the Visible Imaging System on the Polar Spacecraft, EOS, 78(17), 297, 1997.
21. Tagirov, V., V. Arinen, D. G. Sibeck, C.-I. Meng, L. A. Frank and G. Parks, Coordinated Ground and Satellite Observations of Substorm Onset, EOS, 78(17), 280, 1997.
22. Tung, Y.-K., C. W. Carlson, R. E. Ergun, J. P. McFadden, F. S. Mozer, W. K. Peterson, D. M. Klumpar, E. G. Shelley, L. Tang, E. Moebius, L. M. Kistler, C. A. Kletzing, L. A. Frank, J. B. Sigwarth, C. A. Cattell, J. R. Wygant, J. D. Craven and R. P. Lepping, Observations of the Dawn Side Polar Cap at Three Altitudes From Polar and FAST, EOS, 78(17), 280, 1997.
23. Sigwarth, J. B. and L. A. Frank, Imaging of the Northern Auroral Oval with the Visible Imaging System on the Polar Spacecraft, presented at the International Symposium on Solar-Terrestrial Coupling Processes, Paros, Greece, 23-27 June 1997.
24. Frank, L. A., On the Influx of Small Comets into Earth's Atmosphere, presented at SPIE's 1997 International Symposium on Instruments, Methods, and Missions for the Investigation of Extraterrestrial Microorganisms, San Diego, California, 27 July - 1 August 1997.
25. Frank, L. A., W. R. Paterson, J. B. Sigwarth, S. Kokubun and T. Yamamoto, Simultaneous Observations of the Auroral Oval With the Polar Spacecraft and of Plasma Sheet Dynamics With the Geotail Spacecraft, 8th Scientific Assembly of International Association of Geomagnetism and Aeronomy (IAGA), Uppsala, Sweden, p. 269, 4-15 August 1997.
26. Pickett, J. S., R. R. Anderson, L. A. Frank, D. A. Gurnett, W. R. Paterson, J. D. Scudder, B. T. Tsurutani, C. M. Ho, G. S. Lakhina, W. K. Peterson, E. G. Shelley, C. T. Russell, H. Matsumoto, K. Hashimoto, I. Nagano, S. Kokubun and T. Yamamoto, Wave-Particle Interactions in the Polar Cap and Magnetopause Boundary Layers: An ISTEP POLAR/GEOTAIL Correlative Study, 8th Scientific Assembly of International

- Association of Geomagnetism and Aeronomy (IAGA), Uppsala, Sweden, p. 247, 4-15 August 1997.
27. Pulkkinen, T. I., D. N. Baker, L. A. Frank, J. B. Sigwarth, S. G. Kanekal and T. Onsager, Effects of the Sun to the Earth's Particle Environment: Particle Precipitation Boundaries and UV Oval Images Compared, 8th Scientific Assembly of International Association of Geomagnetism and Aeronomy (IAGA), Uppsala, Sweden, p. 270, 4-15 August 1997.
 28. Sigwarth, J. B. and L. A. Frank, Imaging of the Northern Auroral Oval With the Visible Imaging System on the Polar Spacecraft, 8th Scientific Assembly of International Association of Geomagnetism and Aeronomy (IAGA), Uppsala, Sweden, p. 181, 4-15 August 1997.
 29. Syrjäsuo, M. T., T. I. Pulkkinen, K. Kauristie, A. Viljanen, R. J. Pellinen, H. E. J. Koskinen, J. D. Craven, L. A. Frank and J. B. Sigwarth, Comparison of Ground-Based and Satellite Images of Discrete Auroras, 8th Scientific Assembly of International Association of Geomagnetism and Aeronomy (IAGA), Uppsala, Sweden, p. 364, 4-15 August 1997.
 30. Frank, L. A., W. R. Paterson, J. B. Sigwarth, S. Kokubun and T. Yamamoto, Anatomy of an Isolated Substorm as Observed with the Geotail and Polar Spacecraft, presented at the Fifth Geotail Workshop/Science Working Group meeting, The Institute of Space and Astronautical Science, Kanagawa, Japan, 29-31 October 1997.
 31. Anderson, R. R., D. A. Gurnett, L. A. Frank, J. B. Sigwarth, H. Matsumoto, K. Hashimoto, H. Kojima, Y. Kasaba, M. L. Kaiser, G. Rostoker, J.-L. Bougeret, J. L. Steinberg, I. Nagano, H. J. Singer, T. G. Onsager and M. F. Thomsen, Using GEOTAIL, POLAR, WIND, CANOPUS, and ISTP Associated Geosynchronous Satellite Observations to Study the Relationship of Plasma Wave Emissions to Substorm Dynamics, *EOS*, 78(46), 587, 1997.
 32. Berchem, J., J. Raeder, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, J. B. Sigwarth, S. Kokubun, T. Yamamoto and R. P. Lepping, Large-scale Dynamics of the Magnetosphere: Comparison of Global MHD Simulation Results with Local Observations and Global Imaging, *EOS*, 78(46), 611, 1997.
 33. Chang, S.-W., J. D. Scudder, J. B. Sigwarth, L. A. Frank, N. C. Maynard, W. J. Burke, W. K. Peterson, E. G. Shelley, R. Friedel, J. B. Blake, C. T. Russell, R. A. Greenwald, R. P. Lepping, G. J. Sofko, J.-P. Villain and M. Lester, Generation of the Theta Aurora, *EOS*, 78(46), 586, 1997.
 34. Craven, J. D., T. J. Immel, H. C. Stenbaek-Nielsen, T. J. Hallinan, J. V. Olson, L. A. Frank and J. B. Sigwarth, Simultaneous Observations of the Global and Local Aurora With Spacecraft, Aircraft and From the Ground, *EOS*, 78(46), 608, 1997.

35. Frank, L. A. and J. B. Sigwarth, On the Seasonal Variations of Small Comet Impacts Into Our Upper Atmosphere, EOS, 78(46), 542, 1997.
36. Immel, T. J., J. D. Craven, L. A. Frank and J. B. Sigwarth, Variations in Earth's FUV Dayglow Within the Polar Caps, EOS, 78(46), 520, 1997.
37. Sigwarth, J. B. and L. A. Frank, Imaging of the Northern Auroral Oval During the Coronal Mass Ejection of January 6, 1997, EOS, 78(46), 536, 1997.
38. Syrjäso, M. T., T. I. Pulkkinen, J. D. Craven, T. J. Immel, K. Kauristie, U. Brändström, Å. Steen, B. Gustavsson, L. A. Frank and J. B. Sigwarth, Comparison of Ground-Based and Satellite-Based Observations of Aurora, EOS, 78(46), 623, 1997.
39. Wang, W., Q. Wu, T. L. Killeen, A. G. Burns, L. A. Frank, J. B. Sigwarth and R. Roble, Mapping of POLAR Auroral Images into the Thermosphere-Ionosphere Nested Grid (TING) Model, EOS, 78(46), 502, 1997.

1998

40. Frank, L. A., J. B. Sigwarth, W. R. Paterson, S. Kokubun, T. Yamamoto, R. P. Lepping and K. W. Ogilvie, The Earth's Auroras as Viewed With the High-Resolution Cameras on the Polar Spacecraft, presented at the conference Toward Solar Max 2001: The Present Achievements and Future Opportunities of ISTP and GEM, Yosemite, California, 10-13 February 1998.
41. Anderson, R. R., D. A. Gurnett, L. A. Frank, J. B. Sigwarth, H. Matsumoto, K. Hashimoto, H. Kojima, Y. Kasaba, M. L. Kaiser, G. Rostoker, J.-L. Bougeret, J. L. Steinberg, I. Nagano, T. Murata, H. J. Singer, T. G. Onsager and M. F. Thomsen, GEOTAIL, POLAR, WIND, CANOPUS, and ISTP Associated Geosynchronous Satellite Observations of Plasma Wave Emissions and Related Magnetospheric Phenomena During Substorms, presented at the International Conference on Substorms, ICS-4, Lake Hamana, Japan, p. 209, 9-13 March 1998.
42. Arinin, V. A., D. G. Sibeck, C.-I. Meng, A. T. Y. Lui, K. Liou, L. A. Frank and G. Parks, Comparison of Two Substorm Onsets on the Basis of Coordinated Ground-Satellite Observations, presented at the International Conference on Substorms, ICS-4, Lake Hamana, Japan, p. 161, 9-13 March 1998.
43. Fox, N. J., D. Vassiliadis, R. A. Hoffman, J. Sigwarth and A. Szabo, Parametric Analysis of Substorm Triggering, presented at the International Conference on Substorms, ICS-4, Lake Hamana, Japan, p. 34, 9-13 March 1998.
44. Frank, L. A., Auroral Substorms, Recent Observations and Unanswered Questions, presented at the International Conference on Substorms, ICS-4, Lake Hamana, Japan, p. 1, 9-13 March 1998.

45. Sigwarth, J. B., L. A. Frank and W. R. Paterson, Simultaneous Observations of the Global Auroral Oval and the Magnetotail Plasma at Substorm Onset, presented at the International Conference on Substorms, ICS-4, Lake Hamana, Japan, p. 6, 9-13 March 1998.
46. Berchem, J., J. Raeder, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, J. B. Sigwarth, S. Kokubun, T. Yamamoto and R. P. Lepping, Global Dynamics of a Magnetospheric Substorm: Comparison of Results From a Global MHD Simulation With Local Observations and Global Imaging, EOS, 79(17), 321, 1998.
47. Chenette, D. L., S. M. Petrinec, J. Mobilia, P. C. Anderson, D. L. McKenzie, T. J. Rosenberg, A. T. Weatherwax, J. M. Quinn, G. K. Parks, L. A. Frank and C. T. Russell, Aurora Australis and the Polar Perigee Pass of 27 May 1996, EOS, 79(17), 300, 1998.
48. Conde, M., J. D. Craven, T. J. Immel, R. W. Smith, H. C. Stenbaek-Nielsen, T. J. Hallinan, J. V. Olson, B. J. Watkins, L. A. Frank and J. B. Sigwarth, Simultaneous Observations of Local Thermospheric Winds and the Global and Local Aurora, EOS, 79(17), 244, 1998.
49. Cummer, S. A., R. R. Vondrak, R. F. Pfaff, N. Ostgaard, J. Bjordal, J. Stadnes, D. L. Chenette, G. K. Parks, M. J. Brittnacher, L. A. Frank, J. B. Sigwarth and C. W. Carlson, Multispectral Auroral Imaging on November 23, 1997, EOS, 79(17), 305, 1998.
50. Fox, N. J., M. Brittnacher, L. A. Frank, K. Liou, A. T. Lui, H. J. Opgenoorth, J. M. Ruohoniemi, E. Sanchez, J. B. Sigwarth and J. A. Slavin, Coordinated ISTP and GEM Substorm Campaign, January 1 and 2, 1997, EOS, 79(17), 301, 1998.
51. Frank, L. A. and J. B. Sigwarth, Seasonal Variations of Small Comet Impacts Into Earth's Atmosphere, EOS, 79(17), 235, 1998.
52. Frank, L. A., J. B. Sigwarth and D. D. Morgan, The Search for Coastline Effects on the Auroras, EOS, 79(17), 249, 1998.
53. Li, F., T. L. Killeen, A. G. Burns, W. Wang, Q. Wu, R. Roble, L. A. Frank and J. B. Sigwarth, Modeling of High-Latitude Thermosphere Joule Heating at High Spatial/Temporal Resolution, EOS, 79(17), 32, 1998.
54. Pickett, J. S., D. A. Gurnett, J. D. Menietti, L. A. Frank, J. D. Scudder, J. B. Sigwarth, K. L. Ackerson, B. T. Tsurutani, C. M. Ho, J. Chen, T. A. Fritz, C. T. Russell, Y. Kasahara, S. Watanabe, H. Fukunishi, W. K. Peterson, R. F. Pfaff, Jr., S. Kokubun, I. Kimura, T. Mukai and M. O. Chandler, Multi-Spacecraft Observations in the Polar Cusp, EOS, 79(17), 307, 1998.

55. Sigwarth, J. B., L. A. Frank and W. R. Paterson, Simultaneous Observations of the Global Auroral Oval and the Magnetotail Plasma at Substorm Onset, *EOS*, 79(17), 320, 1998.
56. Sigwarth, J. B., L. A. Frank, C. W. Carlson and D. Lummerzheim, Determination of Ionospheric Conductivities From the Auroral Observations Acquired With the Visible Imaging System, *EOS*, 79(17), 309, 1998.
57. Frank, L. A., W. R. Paterson, J. B. Sigwarth, S. Kokubun and T. Yamamoto, Global Images of Earth's Auroras and Their Relationship to Plasma Dynamics in the Equatorial Magnetosphere, presented at the 1998 Cambridge Symposium/Workshop, Lisbon, Portugal, p. 16, 22 June - 3 July 1998.
58. Craven, J. D., M. Conde, T. J. Immel, R. W. Smith, H. C. Stenbaek-Nielsen, T. J. Hallinan, J. V. Olson, B. J. Watkins, L. A. Frank and J. B. Sigwarth, Simultaneous Observations of Local Thermospheric Winds and the Global and Local Aurora, presented at the 32nd COSPAR Scientific Assembly, Nagoya, Japan, p. 106, 12-19 July 1998.
59. Frank, L. A., J. B. Sigwarth, W. R. Paterson, S. Kokubun, T. Yamamoto, R. P. Lepping and K. W. Ogilvie, Dynamics of Earth's Auroras, presented at the 32nd COSPAR Scientific Assembly, Nagoya, Japan, p. 190, 12-19 July 1998.
60. Koskinen, H. E. J., A. M. Mälkki, T. I. Pulkkinen, I. Sandahl, E. Y. Budnik, A. O. Fedorov, R. A. Greenwald, K. B. Baker, L. A. Frank, J. B. Sigwarth and W. K. Peterson, Observations of Plasma Entry Into the Magnetosphere at Late Magnetic Local Times, presented at the 32nd COSPAR Scientific Assembly, Nagoya, Japan, p. 192, 12-19 July 1998.
61. Pickett, J. S., D. A. Gurnett, M. J. LeDocq, J. D. Menietti, J. D. Scudder, J. B. Sigwarth, J. R. Franz, P. M. Kintner, B. T. Tsurutani, Y. Kasahara, I. Kimura, J. Chen, T. A. Fritz, J. B. Blake, W. K. Peterson, S. Watanabe, H. Fukunishi, T. Mukai, C. T. Russell and R. Pfaff, Plasma Waves Observed in Connection With Cusp Energetic Particle Events and Their Correlation with Polar and Akebono Satellite Data, presented at the 32nd COSPAR Scientific Assembly, Nagoya, Japan, p. 203, 12-19 July 1998.
62. Sigwarth, J. B., L. A. Frank, C. W. Carlson and D. Lummerzheim, Determination of Ionospheric Conductivities From the Auroral Observations Acquired With the Visible Imaging System, presented at the 32nd COSPAR Scientific Assembly, Nagoya, Japan, p. 216, 12-19 July 1998.
63. Frank, L. A., J. B. Sigwarth, W. R. Paterson, S. Kokubun, R. P. Lepping and K. W. Ogilvie, The Earth's Auroras as Viewed With the High-Resolution Cameras on the Polar Spacecraft, presented at the 1998 Huntsville Workshop on "The New Millennium Magnetosphere: Integrating Imaging, Discrete Observations, and Global Simulations," Guntersville, Alabama, p. 32, 26-30 October 1998.

64. Frank, L. A., W. R. Paterson, J. B. Sigwarth and S. Kokubun, Global Images of Earth's Auroras and Their Relationship to Plasma Dynamics in the Equatorial Magnetosphere, presented at the Mini-Conference on Space Physics at the APS Division of Plasma Physics Annual Meeting, New Orleans, Louisiana, Bulletin of the American Physical Society, 43(8), 1816, 16-20 November 1998.
65. Berchem, J., M. El-Alaoui, M. Ashour-Abdalla, J. Raeder, L. A. Frank, W. R. Paterson, J. B. Sigwarth, S. Kokubun, R. P. Lepping, K. O. Ogilvie, H. J. Singer and S. Romanov, Global MHD Simulation of the January 12, 1997, Magnetospheric Substorm, EOS, 79(45), 784, 1998.
66. Cummer, S. A., R. R. Vondrak, R. F. Pfaff, C. W. Carlson, R. E. Ergun, R. C. Elphic, R. J. Strangeway, J. B. Sigwarth and L. A. Frank, Auroral Substorm Electrodynamics With FAST and VIS, EOS, 79(45), 780, 1998.
67. Fox, N. J., M. Ruohoniemi, M. J. Brittnacher, L. A. Frank, C. T. Russell, J. D. Scudder and J. B. Sigwarth, Coordinated Polar and SuperDARN Study of the Earth's Magnetic Cusp Currents, EOS, 79(45), 778, 1998.
68. Frank, L. A., W. R. Paterson, J. B. Sigwarth and S. Kokubun, Observed Relationship of an Auroral Substorm Onset With the Dynamical Behavior of the Near-Earth Equatorial Plasma Sheet, EOS, 79(45), 743, 1998.
69. Sigwarth, J. B. and L. A. Frank, Optical Determination of the Polar Cap Area and Open Magnetic Flux With the Visible Imaging System, EOS, 79(45), 760, 1998.
70. Sojka, J. J., M. D. Bowline, R. W. Schunk, J. B. Sigwarth, L. A. Frank, R. A. Greenwald and J. M. Ruohoniemi, Simulations of Ionospheric Dynamics for 13 November 1996. I. Driven by Observations of the Magnetospheric Convection and Auroral Precipitation, EOS, 79(45), 742, 1998.
71. Wang, Y., J. Raeder, M. J. Brittnacher, L. A. Frank, D. Lummerzheim, G. K. Parks and J. B. Sigwarth, Auroral Luminosity From Global MHD Simulations, EOS, 79(45), 677, 1998.

1999

72. Cummer, S. A., R. R. Vondrak, R. F. Pfaff, C. W. Carlson, R. E. Ergun, R. C. Elphic, R. J. Strangeway, J. B. Sigwarth and L. A. Frank, Mesoscale Auroral Currents and Electrodynamics with FAST and VIS, presented at the Chapman Conference on Magnetospheric Current Systems, Kona, Hawaii, 11-15 January 1999.
73. Frank, L. A., W. R. Paterson, J. B. Sigwarth and S. Kokubun, Investigations of the Location of Substorm Onsets in the Near-Earth Plasma Sheet, presented at the Sixth Geotail Workshop, Uji, Kyoto, Japan, 15-18 March 1999.

74. Lui, A. T. Y., D. J. Williams, R. W. McEntire, K. Liou, P. T. Newell, C.-I. Meng, S. Ohtani, N. J. Fox, R. P. Lepping, W. R. Paterson, J. B. Sigwarth, L. A. Frank, S. Kokubun, M. Brittnacher and G. K. Parks, Conjunction of Tail Satellites for Substorm Study: ISTP Event of January 2, 1997, presented at the Sixth Geotail Workshop, Uji, Kyoto, Japan, 15-18 March 1999.
75. Ashour-Abdalla, M., M. El-Alaoui, J. Berchem, R. J. Walker, L. A. Frank, J. B. Sigwarth and W. R. Paterson, Using Global Modeling to Address Space-time Ambiguities in Multi-Point Measurements, presented at the 2nd EGS Alfvén Conference - Auroral Particle Acceleration, Stockholm, Sweden, 3-7 May 1999.
76. Anderson, R. R., D. A. Gurnett, L. A. Frank, J. B. Sigwarth, H. Matsumoto, K. Hashimoto, H. Kojima, T. Murata, G. D. Reeves, M. F. Thomsen, G. K. Parks, M. J. Brittnacher, J. F. Spann, W. L. Imhof, D. L. Chenette, J. Møbiilia, M. Walt and G. Rostoker, GEOTAIL and POLAR Observations of Auroral Kilometric Radiation and Terrestrial Low Frequency Bursts and Their Relationship to Energetic Particles, Auroras, and Other Substorm Phenomena, EOS, 80(17), 291, 1999.
77. Ashour-Abdalla, M., M. El-Alaoui, J. Berchem, R. J. Walker, L. A. Frank, J. B. Sigwarth and W. R. Paterson, Localized Reconnection in the Near-Earth Plasma Sheet During an Interval of Prolonged Southward IMF, EOS, 80(17), 303, 1999.
78. Cummer, S. A., R. R. Vondrak, R. F. Pfaff, N. Ostgaard, J. Bjordal, J. Stadsnes, D. L. Chenette, M. J. Brittnacher, G. K. Parks, J. B. Sigwarth, L. A. Frank and C. W. Carlson, Global Multispectral Imaging of an Isolated Substorm, EOS, 80(17), 282, 1999.
79. Frank, L. A., J. B. Sigwarth, W. R. Paterson and S. Kokubun, Determination of the Locations of Substorm Onsets With Global Auroral Imaging and In-Situ Spacecraft Observations, EOS, 80(17), 281, 1999.
80. Li, F., T. L. Killeen, A. G. Burns, W. Wang, Q. Wu, L. Frank, J. B. Sigwarth and R. G. Roble, Model Grid Scale Effects on Calculated Joule Heating and Field-Aligned Currents in the High-Latitude Thermosphere-Ionosphere, EOS, 80(17), 248, 1999.
81. Pulkkinen, T. I., D. N. Baker, N. E. Turner, K. Kauristie, M. T. Syrjasuo, L. A. Frank, J. B. Sigwarth, T. Mukai, S. Kokubun and L. Zelenyi, Auroral Forms as Observed With POLAR/VIS Medium-Resolution Camera and Finnish All-Sky Cameras: Comparison With Magnetotail Observations, EOS, 80(17), 290, 1999.
82. Sigwarth, J. B. and L. A. Frank, Magnetotail Energy Storage, Auroral Energy Dissipation, and Resulting Ionospheric Conductivities From VIS Auroral Images During the CME on February 18, 1999, EOS, 80(17), 247, 1999.
83. Cummer, S. A., R. R. Vondrak, R. F. Pfaff, N. Ostgaard, J. Bjordal, J. Stadsnes, D. L. Chenette, M. J. Brittnacher, G. K. Parks, J. B. Sigwarth, L. A. Frank and C. W.

- Carlson, Global Multispectral Imaging of an Isolated Substorm, XXII IUGG/IAGA General Assembly, Birmingham, United Kingdom, p. B.341, 18-30 July 1999.
84. Frank, L. A., J. B. Sigwarth, W. R. Paterson and S. Kokubun, Observations Pertaining to the Location of the Substorm Onset Instability, XXII IUGG/IAGA General Assembly, Birmingham, United Kingdom, p. B.365, 18-30 July 1999.
 85. Pulkkinen, T. J., D. N. Baker, N. E. Turner, K. Kauristie, M. T. Syrjasuo, L. A. Frank, J. B. Sigwarth, T. Mukai, S. Kokubun and L. Zelenyi, Comparison of Auroral Arcs Observed with POLAR/VIS Medium-Resolution Camera and Finnish All-Sky Cameras and Their Mapping to the Magnetotail, XXII IUGG/IAGA General Assembly, Birmingham, United Kingdom, p. B.365, 18-30 July 1999.
 86. Raeder, J., L. A. Frank, J. B. Sigwarth, S. Kokubun, R. P. Lepping, K. W. Ogilvie and H. Singer, A Global Simulation Study of the November 24, 1996, GEM Substorm Challenge Event, XXII IUGG/IAGA General Assembly, Birmingham, United Kingdom, p. B.342, 18-30 July 1999.
 87. Sigwarth, J. B. and L. A. Frank, Optical Determination of the Polar Cap Area and Open Magnetic Flux With the Visible Imaging System, XXII IUGG/IAGA General Assembly, Birmingham, United Kingdom, p. B.346, 18-30 July 1999.
 88. Tagirov, V., V. Arinin, C.-I. Meng, K. Liou, D. Sibeck, A. T. Y. Lui, L. A. Frank, D. Morgan and G. Parks, Ground and Spacecraft Optical Observations of Substorms, XXII IUGG/IAGA General Assembly, Birmingham, United Kingdom, p. B.345, 18-30 July 1999.
 89. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, R. J. Walker, L. A. Frank, J. B. Sigwarth and W. R. Paterson, Magnetospheric Dynamics in Response to a Slowly Varying Interplanetary Magnetic Field: November 26, 1997, EOS, 80(46), 842, 1999.
 90. Frank, L. A., J. B. Sigwarth, W. R. Paterson and S. Kokubun, Simultaneous Observations of Plasma Sheet Dynamics With the Geotail Spacecraft and of an Auroral Substorm Onset With the Polar Spacecraft, EOS, 80(46), 894, 1999.
 91. Paterson, W. R., L. A. Frank, J. B. Sigwarth and S. Kokubun, Geotail Observations of the Plasma Sheet During Substorm Onsets Identified by the Polar Spacecraft, EOS, 80(46), 879, 1999.
 92. Raeder, J., Y. Wang, M. J. Brittnacher, L. A. Frank, D. Lummerzheim, G. K. Parks and J. B. Sigwarth, Global Modeling and Auroral Imaging, EOS, 80(46), 894, 1999.
 93. Sigwarth, J. B., L. A. Frank and N. J. Fox, The Effect of Dynamic Pressure Pulses in the Solar Wind on the Auroral Oval, Total Open Magnetic Flux of the Polar Cap and the Auroral Ionosphere, EOS, 80(46), 894, 1999.

2000

94. Pulkkinen, T. I., K. Kauristie, D. N. Baker, L. A. Frank, J. B. Sigwarth and T. Mukai, Stability of the Magnetotail During Strong Solar Wind Driving, presented at the workshop "From Solar Corona Through Interplanetary Space, Into Earth's Magnetosphere and Ionosphere: Interball, ISTP Satellites, and Ground-based Observations," Kiev, Ukraine, 1-4 February 2000.
95. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, R. J. Walker, L. A. Frank, J. B. Sigwarth and W. R. Paterson, Global Magneto-hydrodynamic Simulation of Auroral Dynamics During a Substorm, EOS, 81(19), 379, 2000.
96. Burke, W. J., N. C. Maynard, D. M. Ober, G. R. Wilson, D. R. Weimer, J. Moen, P. E. Sandholt, A. Egeland, J. Sigwarth, L. A. Frank and J. D. Scudder, The Response of Ionospheric Convection to Changes in the IMF: 2. A Case Study of the Response of the Evening Open-Closed Boundary, EOS, 81(19), 405, 2000.
97. Frank, L. A., W. R. Paterson, J. B. Sigwarth and S. Kokubun, Search for the Substorm Onset Instability With Global Auroral Images and With Measurements of Plasma and Magnetic Fields Near the Equator, EOS, 81(19), 374, 2000.
98. Sigwarth, J. B. and L. A. Frank, Auroral Activity During the Initial and Main Phases of a Geomagnetic Storm, EOS, 81(19), 400, 2000.
99. Paterson, W. R., L. A. Frank, J. B. Sigwarth and S. Kokubun, Geotail Observations of the Plasma Sheet During Substorm Onsets Identified by the Polar Spacecraft, presented at the 33rd COSPAR Scientific Assembly, Warsaw, Poland, 16-23 July 2000.
100. Sigwarth, J. B., L. A. Frank and N. J. Fox, The Effect of a Dynamic Pressure Pulse in the Solar Wind on the Auroral Oval, Total Open Magnetic Flux of the Polar Cap and the Auroral Ionosphere, presented at the 33rd COSPAR Scientific Assembly, Warsaw, Poland, 16-23 July 2000.
101. Frank, L. A., J. B. Sigwarth, W. R. Paterson and S. Kokubun, The Region in the Plasma Sheet Associated With the Onset of Classical Auroral Substorms, presented at the Huntsville 2000 Workshop, Pine Mountain, Georgia, 30 October - 3 November 2000.
102. Ashour-Abdalla, M., M. El-Alaoui, R. J. Walker, J. Berchem, F. V. Coroniti, L. A. Frank, J. B. Sigwarth and W. R. Paterson, Simulating Auroral Activity During a Magnetic Storm, EOS, 81(48), 1050, 2000.
103. Fox, N. J., J. B. Sigwarth, R. A. Greenwald, R. J. Barnes and M. Lester, Integration of SuperDARN Convection Maps with POLAR/VIS Measurements to Determine Ionospheric Energetics During Substorms, EOS, 81(48), 1053, 2000.

104. Frank, L. A., On the Elusive Location and Mechanism for Substorm Onset, EOS, 81(48), 1050, 2000.
105. Gjerloev, J. W., R. A. Hoffman, L. A. Frank and J. B. Sigwarth, Causes of the Crescent Aurora, EOS, 81(48), 1043, 2000.
106. Sigwarth, J. B., L. A. Frank, S. B. Mende, H. U. Frey and N. J. Fox, Overview of Auroral Activity During the Bastille Day Event 14-16 July 2000, EOS, 81(48), 970, 2000.

2001

107. Frank, L. A. and W. R. Paterson and T. Mukai, Dynamics of the Ring Current During Substorm Onset as Observed With the Geotail and Polar Spacecraft, presented at the Eighth Geotail Workshop/Science Working Group meeting, The Institute of Space and Astronautical Science, Kanagawa, Japan, 28 February - 2 March 2001.
108. Frank, L. A., Dynamics of the Ring Current During Substorm Onset as Observed With the Geotail and Polar Spacecraft, presented at the Danish Space Research Institute, Copenhagen, Denmark, 13 March 2001.
109. Anderson, P. C., D. L. McKenzie, N. Ostgaard, S. A. Cummer, M. J. Brittnacher, G. A. Germany, J. B. Sigwarth and L. A. Frank, Multispectral Imaging Results from the Polar Spacecraft, EOS, 82(20), 288, 2001.
110. El-Alaoui, M., M. Ashour-Abdalla, J. Berchem, R. L. Richard, R. J. Walker, L. A. Frank, W. R. Paterson and J. B. Sigwarth, Response of the Near Earth Plasma Sheet to an Impulsive Variation of the IMF, EOS, 82(20), 380, 2001.
111. Fox, N. J., G. D. Reeves, R. Friedel, D. N. Baker, S. Kanekal and J. B. Sigwarth, Energetic Electron Environment During CME-Driven Geomagnetic Storms, EOS, 82(20), 363, 2001.
112. Paterson, W. R., L. A. Frank and J. B. Sigwarth, Substorm Injections, Dipolarizations, and Auroral Expansions, EOS, 82(20), 378, 2001.
113. Sigwarth, J. B. and L. A. Frank, Determination of Precipitating Energy and Energy Flux From Space-based Auroral Observations, EOS, 82(20), 288, 2001.
114. El-Alaoui, M., M. Ashour-Abdalla, R. L. Richard, L. A. Frank, W. R. Paterson and J. B. Sigwarth, Dynamics of the Near Earth Plasma Sheet During two Substorms, EOS, 82(47), 1050, 2001.
115. Fox, N. J., J. B. Sigwarth, E. Sanchez, M. Lester and R. J. Barnes, Determination of Joule Heating in the Auroral Ionosphere, EOS, 82(47), 1030, 2001.

116. Gjerloev, J. W., R. A. Hoffman, N. Ostgaard, L. A. Frank and J. B. Sigwarth, The Non-Expansive Auroral Disturbance Events: A Fundamental Class, EOS, 82(47), 1083, 2001.
117. Henderson, M. J., L. Kepko, H. E. Spence, M. Connors, J. B. Sigwarth, L. A. Frank and H. J. Singer, The Evolution of North-South Aligned Auroral Forms Into Auroral Torch Structures: The Generation of Omega Bands and Ps6 Pulsations Via Flow Bursts, EOS, 82(47), 1082, 2001.
118. Paterson, W. R., L. A. Frank and J. B. Sigwarth, Plasma Sheet Dynamics and Auroral Activations, EOS, 82(47), 1082, 2001.
119. Reiff, P. H., J. Goldstein, S. B. Mende, H. U. Frey, J. B. Sigwarth, L. A. Frank, T. G. Onsager, B. R. Sandel, B. W. Reinisch, J. L. Green and D. Gallagher, Conjugate Auroral Substorm Dynamics, EOS, 82(47), 1077, 2001.
120. Sigwarth, J. B., L. A. Frank and N. J. Fox, Efficiency of Energy Transfer From the Solar Wind to the Magnetosphere, EOS, 82(47), 1088, 2001.

2002

121. El-Alaoui, M., M. Ashour-Abdalla, R. L. Richard, L. A. Frank, W. R. Paterson and J. B. Sigwarth, Distinct Magnetospheric Responses to Southward IMF in Two Substorms, presented at the International Conference on Substorms, ICS-6, Seattle, Washington, 25-29 March 2002.
122. Frank, L. A., J. B. Sigwarth and W. R. Paterson, Insights Into the Dynamics of Substorms With Simultaneous Auroral Images and In-situ Plasma and Magnetic Field Observations, presented at the International Conference on Substorms, ICS-6, Seattle, Washington, 25-29 March 2002.
123. Lu, G., E. Donovan, T. Nagai, J. Sigwarth and L. Frank, Substorm Development as Seen Through Coordinated Multi-instrument Observations, presented at the International Conference on Substorms, ICS-6, Seattle, Washington, 25-29 March 2002.
124. Ashour-Abdalla, M., M. El-Alaoui, F. V. Coroniti, R. J. Walker, V. Perroomian, L. A. Frank and J. B. Sigwarth, Magnetospheric Dynamics and the Onset of Auroral Substorms, EOS, 83(19), 296, 2002.
125. Frank, L. A. and J. B. Sigwarth, Simultaneous Images of the Northern and Southern Auroras With the Earth Camera on the Polar Spacecraft, EOS, 83(19), 304, 2002.
126. Sigwarth, J. B., N. J. Fox and L. A. Frank, Efficiency of Dayside Magnetic Merging of the Solar Wind and the Magnetosphere, EOS, 83(19), 301, 2002.

127. Fox, N. J., J. B. Sigwarth, M. Lester, J. Davies, E. Sanchez and R. J. Barnes, Determination of Joule Heating in the Auroral Ionosphere, presented at the 34th COSPAR Scientific Assembly/World Space Congress 2002, Houston, Texas, 10-19 October 2002.
128. Frank, L. A., W. R. Paterson and J. B. Sigwarth, Observational Evidence for the Extraterrestrial Ring Current as the Position for Substorm Onset, presented at the 34th COSPAR Scientific Assembly/World Space Congress 2002, Houston, Texas, 10-19 October 2002.
129. Sigwarth, J. B., N. J. Fox and L. A. Frank, Efficiency of Dayside Magnetic Merging of the Solar Wind and the Magnetosphere, presented at the 34th COSPAR Scientific Assembly/World Space Congress 2002, Houston, Texas, 10-19 October 2002.
130. Ashour-Abdalla, M., M. El-Alaoui, F. V. Coroniti, R. J. Walker, V. Perroomian, L. A. Frank, J. B. Sigwarth and W. R. Paterson, Tail Vortex Flows During Substorms, EOS, 83(47), 1195, 2002.
131. Fox, N. J., J. B. Sigwarth, R. A. Greenwald, L. A. Frank, M. Pinnock and R. J. Barnes, Hemispheric Asymmetries in the Location and Intensity of the Auroral Ovals and Their Association With Ionospheric Convection and IMF, EOS, 83(47), 1219, 2002.
132. Gjerloev, J. W., R. A. Hoffman, M. Friel, L. A. Frank and J. B. Sigwarth, Electrodynamics During Substorm Growth Phase, EOS, 83(47), 1197, 2002.
133. Hoffman, R. A., J. W. Gjerloev, M. Friel, L. A. Frank and J. B. Sigwarth, On the Three Auroral Electrojet System During Substorms, EOS, 83(47), 1179, 2002.
134. Sigwarth, J. B. and L. A. Frank, Global Observations of O/N₂ in Earth's Thermosphere During the April 2002 Sun-Earth Storms, EOS, 83(47), 1122, 2002.
135. Wygant, J. R., C. A. Cattell, A. Keiling, R. Lysak, J. Dombeck, F. S. Mozer, G. Parks, S. Mende, C. Carlson, J. McFadden, A. Balogh, E. A. Lucek, M. Andre, J. B. Sigwarth, L. A. Frank and R. C. Elphic, Observations From the Polar and Cluster Spacecraft of the Structure and Dynamics of Strong Poynting Flux in the Plasma Sheet During Periods of Strong Magnetic Activity, EOS, 83(47), 1207, 2002.

2003

136. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, R. Walker, F. Coroniti, L. Zelenyi, L. Frank, J. Sigwarth and W. Paterson, Implications of Multipoint Solar Wind Observations for MHD Predictions of Magnetospheric Dynamics, EOS, 84(46), 1267, 2003.

137. Fox, N. J., J. B. Sigwarth, R. J. Barnes, M. Pinnock, G. Chisham and S. W. H. Cowley, Hemispheric Asymmetries in the Location and Intensity of the Auroral Ovals and Their Association With Ionospheric Convection and IMF, EOS, 84(46), 1163, 2003.
138. Garcia, K. S., P. H. Reiff, S. Naehr, H. Frey, J. Sigwarth, N. Ostgaard, S. Mende, L. Frank, T. Hill and F. Toffoletto, Comparison of Rice Field Model to Simultaneous Conjugate Auroral Images, EOS, 84(46), 1298, 2003.
139. Gjerloev, J. W., R. A. Hoffman, M. Friel, L. A. Frank, J. B. Sigwarth and R. A. Greenwald, Electrodynamics of Storm Time Auroral Disturbances, EOS, 84(46), 1324, 2003.
140. Hoffman, R. A., J. W. Gjerloev, M. Friel, M. Sugiura, T. Kamei, L. A. Frank and J. B. Sigwarth, Refining and Understanding the Auroral Electrojet Index AL, EOS, 84(46), 1243, 2003.
141. Ostgaard, N., S. B. Mende, H. U. Frey, T. J. Immel, L. A. Frank and J. B. Sigwarth, IMF Control of the Theta Aurora and Substorm Onset Location in the Conjugate Hemispheres, EOS, 84(46), 1297, 2003.
142. Sigwarth, J. B., G. Crowley and L. A. Frank, Global Observations of O/N₂ in Earth's Thermosphere During the April 2002 Sun-Earth Storms, EOS, 84(46), 1303, 2003.
143. Vondrak, R. R., T. J. Stubbs, N. Ostgaard, J. B. Sigwarth and L. A. Frank, Conjugate Auroral Observations Under Various Interplanetary Conditions, EOS, 84(46), 1298, 2003.
144. Zesta, E., L. Lyons, E. Donovan, J. B. Sigwarth, H. U. Frey and T. Nagai, Association of North-South Poleward Boundary Intensifications (PBI) Orientation with Plasma Sheet Flow Direction and the IMF, EOS, 84(46), 1299, 2003.
145. Ostgaard, N., S. B. Mende, H. U. Frey, L. A. Frank and J. B. Sigwarth, Global Conjugate Imaging of a Substorm by Polar and IMAGE, EGS - AGU - EUG Joint Assembly, Abstracts from the meeting held in Nice, France, 6 - 11 April 2003, abstract #2406.

2004

146. Henderson, M. G., L. Kepko, H. E. Spence, J. B. Sigwarth and L. A. Frank, Quasi-Periodic Energetic Particle Injections on the Duskside during a Steady Magnetospheric Convection Event: A New Type of Onset, Eos Trans. AGU, 85(17), Jt. Assem. Suppl., Abstract SM51D-03, 2004.
147. Ostgaard, N., S. B. Mende, H. U. Frey, T. J. Immel, L. A. Frank, J. B. Sigwarth and M. Fillingim, IMF Control of Auroral Phenomena in the Conjugate Hemispheres, Eos Trans. AGU, 85(17), Jt. Assem. Suppl., Abstract SM23A-03, 2004.

148. Sigwarth, J. B., N. J. Fox and L. A. Frank, Simultaneous Observations of Conjugate Northern and Southern Auroras From a Single Camera, Eos Trans. AGU, 85(17), Jt. Assem. Suppl., Abstract SM23A-04, 2004.
149. Stubbs, T. J., R. R. Vondrak, N. Ostgaard, J. B. Sigwarth and L. A. Frank, Simultaneous Observations of the Auroral Oval in Both Hemispheres Under Various Conditions, Eos Trans. AGU, 85(17), Jt. Assem. Suppl., Abstract SM53B-02, 2004.
150. Fox, N. J., J. B. Sigwarth, M. Pinnock, G. Chisholm and R. J. Barnes, Hemispheric Asymmetries in the Location and Intensity of the Auroral Ovals and their Association with Ionospheric Convection and IMF, AGU Spring Meeting 2004, abstract #SM24A-02
151. Gjerloev, J. W., R. Barnes, R. A. Hoffman, J. B. Sigwarth, L. A. Frank, M. Rouhoniemi and R. Greenwald, M-I Coupling During Auroral Substorm: Utilizing SuperDARN Data to Gain Understanding, to be presented at the SuperDARN Workshop 2004, Saskatoon, Saskatchewan, Canada, 24-28 May 2004.
152. Hoffman, R. A., J. W. Gjerloev, M. Friel, J. B. Sigwarth and L. A. Frank, Two Component M-I Coupling during Auroral Substorms, Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract SM51A-0335, 2004.
153. Ostgaard, N., S. B. Mende, H. U. Frey, T. J. Immel, J. B. Sigwarth and L. A. Frank, The Cusp Aurora in the Conjugate Hemispheres of the Earth, Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract SM51B-0365, 2004.
154. Sigwarth, J. B., J. C. Foster and L. A. Frank, The Relationship of Thermospheric Composition Changes and Ionospheric Total Electron Content During Geomagnetic Storms, Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract SA21B-0356, 2004.
155. Zanetti, L. J., B. Anderson, N. J. Fox, H. Korth, J. B. Sigwarth, S. Ohtani and R. J. Barnes, Investigation of Field-Aligned Current Variations during the Intense Geomagnetic Storms of October-November 2003, AGU Spring Meeting 2004, abstract #SH53A-09.

2005

156. Sigwarth, J. B., Global Auroral Imaging: Dynamic Pressure Induced Auroral Brightenings and Conjugate Auroral Observations, Center for Space Physics Seminar, Boston University, Boston, MA, 3 February 2005.
157. Østgaard, N., S. B. Mende, H. U. Frey and J. B. Sigwarth, Auroral Signatures of Lobe Reconnection Observed Simultaneously in the Conjugate Hemispheres, presented at the European Geosciences Union General Assembly 2005, Geophysical Research Abstracts, Vol. 7, 06283, 2005

158. Paterson, W. R., K. L. Ackerson, L. A. Frank and J. Raeder, Multipoint Substorm Studies with the Present Fleet of Spacecraft, Eos Trans. AGU, 86(18), Jt. Assem. Suppl., Abstract SM51B-03, 2005.
159. Sigwarth, J. B., and J. C. Foster, Large Decreases in Ionospheric Total Electron Content as a Result of Thermospheric Composition Changes During Geomagnetic Storms, Eos Trans. AGU, 86(18), Jt. Assem. Suppl., Abstract SA14A-04, 2005.
160. Sigwarth, J. B., and J. C. Foster, The Dynamics of Thermospheric Composition and Ionospheric Total Electron Content During Geomagnetic Storms, Eos Trans. AGU, 86(52), Fall Meet. Suppl., Abstract SA21A-0273, 2005.

2006

161. Østgaard, N., S. B. Mende, H. U. Frey, and J. B. Sigwarth, Auroral Conjugacy Studies, presented at the 2006 Yosemite Workshop, Yosemite, California, 7-10 February 2006.
162. Sigwarth, J. B., Global observations of the response of the daytime thermosphere and ionosphere to geomagnetic storms, LSSP, NASA/GSFC, March 10, 2006
163. Østgaard, N., S. B. Mende, H. U. Frey, J. B. Sigwarth, and A. Aasnes, Substorm Onset Asymmetries Derived from Conjugate Auroral Imaging, presented at the European Geosciences Union General Assembly 2006, Geophysical Research Abstracts, Vol. 8, 01472, 2006.
164. Sigwarth, J. B., L. J. Paxton, and Y. Zhang, Observations of Three Dimensional Neutral Composition Changes in the Thermosphere During Geomagnetic Storms, Eos Trans. AGU, 87(36), Jt. Assem. Suppl., Abstract SA23A-06, 2006.
165. Hoffman, R. A., J. Gjerloev, J. Sigwarth, and L. Frank, Characterizing the Classical Auroral Substorm: Statistical Analysis of the UV Emission Patterns Eos Trans. AGU, 87(36), Jt. Assem. Suppl., Abstract SM44B-02, 2006.
166. Gjerloev, J., R. A. Hoffman, J. Sigwarth, and L. Frank, Characterizing the Classical Auroral Substorm: Statistical Analysis of the UV Emission Patterns, Eos Trans. AGU, 87(36), Jt. Assem. Suppl., Abstract SM44B-01, 2006.
167. Østgaard, N., S. B. Mende, H. U. Frey, J. B. Sigwarth, A. Aasnes, and J. Weygand, Hemispherical Asymmetries Derived from Conjugate Auroral Imaging, presented at Western Pacific Geophysics Meeting, Beijing, China, 24-27 July 2006.
168. Østgaard, N., S. B. Mende, H. U. Frey, J. B. Sigwarth, and A. Aasnes, Conjugate Imaging of Substorms, presented at the Eighth International Conference on Substorms, Banff Centre, Banff, Canada, 2006.

169. Østgaard, N., S. B. Mende, H. U. Frey, J. B. Sigwarth, and A. Aasnes, Auroral Conjugacy Studies, presented at SCAR XXIX, Hobart, Tasmania, Australia, 17-19 July 2006.
170. Garcia, L. N., S. A. Boardsen, G. Le, Y. Wang, J. B. Sigwarth, J. A. Slavin and R. J. Strangeway, A Comparison of ST5 Derived Field Aligned Currents with Auroral Images by the Polar Spacecraft and a Comparison of Magnetic Conjunctions of the ST5 Spacecraft with Other Spacecraft, AGU Fall Meeting 2006, abstract #SM11A-0300

2008

171. Bekerat, H. and J. B. Sigwarth, Electron Precipitation Parameters and Ionospheric Conductances Inferred from Auroral Images Acquired by the Visible Imaging System (VIS) on the Polar Spacecraft, AGU Fall Meeting 2008, abstract #SA33A-1632.

2009

172. Wygant, J. R., S. A. Thaller, C. A. Cattell, L. Dai, R. L. Lysak, Y. Song, F. Mozer, G. K. Parks, M. O. Fillingim, J. D. Scudder, C. T. Russell, J. B. Sigwarth, A. Hamre and G. A. Germany, Polar Spacecraft Evidence at 2 Re Geocentric Distance for Alfvénic Poynting Flux as an Energy Source for the Quasi-static Parallel Electric Field Acceleration of Auroral Electrons and Up-flowing Ion Beams in the Auroral Acceleration Region, AGU Fall Meeting 2009, abstract #SM41B-1724.
173. Ostgaard, N., B. K. Humberset, K. Laundal, H. U. Frey, J. B. Sigwarth, A. Asnes and J. M. Weygand, Substorm Auroral Asymmetries in the Conjugate Hemispheres during Onset and Expansion Phase, AGU Fall Meeting 2009, abstract #SM24A-08.