

Geotail/CPI Presentations

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1992

1. Frank, L. A., W. R. Paterson and K. L. Ackerson, Plasma Observations With the Geotail Spacecraft: Initial Results, EOS, 73(43), 1992.

1993

2. Frank, L. A., W. R. Paterson, K. L. Ackerson, S. Kokubun and D. H. Fairfield, Plasma Observations in the Distant Magnetotail With the Geotail Spacecraft, EOS, 74(16), 269, 1993.
3. Paterson, W. R., L. A. Frank and K. L. Ackerson, Plasma Moments From the Geotail Mission, EOS, 74(16), 269, 1993.
4. Coroniti, F. V., L. A. Frank, W. R. Paterson, K. L. Ackerson, M. Ashour-Abdalla, S. Kokubun and D. H. Fairfield, Plasma Distributions at the Distant Tail Lobe-Plasma Sheet Interface Measured by the GEOTAIL Comprehensive Plasma Instrumentation, EOS, 74(43), 527, 1993.
5. Ashour-Abdalla, M., L. A. Frank, W. R. Paterson, K. L. Ackerson, F. V. Coroniti, L. M. Zelenyi, S. Kokubun, D. H. Fairfield and A. J. Lazarus, On Cold Ion Beams in the Distant Tail, EOS, 74(43), 528, 1993.
6. Siscoe, G. L., L. A. Frank, K. L. Ackerson, W. R. Paterson and M. Ashour-Abdalla, Interpretation of Long-Period, Velocity Dispersive Plasma Events at 100 R_e and Beyond in Terms of Comparison With an Expansion Fan Model, EOS, 74(43), 528, 1993.
7. Matsumoto, H., H. Kojima, T. Miyatake, Y. Omura, M. Okada, L. A. Frank and W. R. Paterson, Nature of the Broadband Electrostatic Wave in the Magnetotail, EOS, 74(43), 532, 1993.
8. Kojima, H., I. Nagano, A. Fujita, H. Matsumoto, S. Kokubun, T. Yamamoto, L. A. Frank and W. R. Paterson, Plasma Wave Features of the Boundary Layers in the Magnetosphere, EOS, 74(43), 533, 1993.

9. Frank, L. A., W. R. Paterson, K. L. Ackerson, S. Kokubun, M. Ashour-Abdalla, F. V. Coroniti, G. L. Siscoe, D. H. Fairfield, R. P. Lepping and A. J. Lazarus, Recent Results From Plasma Measurements in Earth's Magnetotail and its Environs With the Geotail Spacecraft, EOS, 74(43), 533, 1993.
10. Williams, D. J., R. E. Gold, S. M. Krimigis, A. T. Y. Lui, R. W. McEntire, C.-I. Meng, E. C. Roelof, S. P. Christon, F. M. Ipavich, G. Gloeckler, T. P. Armstrong, F. Gliem, L. J. Lanzerotti, E. T. Sarris, D. H. Fairfield, S. Kokubun, T. Yamamoto and L. A. Frank, Investigation of Energetic Particle Phenomena on October 27, 1992 in the Distant Magnetotail by GEOTAIL/EPIC, EOS, 74(43), 533, 1993.
11. Shodhan, S., G. Siscoe, L. A. Frank, K. L. Ackerson, W. R. Paterson, K. Paularena, J. D. Richardson, A. J. Lazarus and R. P. Lepping, Tail Positions for Geotail Observations, EOS, 74(43), 534, 1993.
12. Kaymaz, Z., G. Siscoe, L. A. Frank, K. L. Ackerson, W. R. Paterson and R. P. Lepping, Dawn-Dusk Flows in the Magnetotail: Predictions and Geotail Observations, EOS, 74(43), 534, 1993.
13. Paterson, W. R. and L. A. Frank, Survey of Magnetotail Plasmas With the Comprehensive Plasma Instrumentation Aboard the Geotail Spacecraft, EOS, 74(43), 534, 1993.
14. Ackerson, K. L., L. A. Frank, W. R. Paterson, S. Kokubun, M. Ashour-Abdalla, F. V. Coroniti, G. L. Siscoe, A. J. Lazarus, D. H. Fairfield and R. P. Lepping, Geotail Observations of the Presence of Solar Wind Ion Velocity Distributions in the Downstream Magnetosheath, EOS, 74(43), 534, 1993.
15. Nishimura, O., H. Matsumoto, R. R. Anderson, L. A. Frank, W. R. Paterson, S. Kokubun and T. Yamamoto, Electromagnetic Electron Cyclotron Harmonic Waves Near the Magnetopause Observed by GEOTAIL, EOS, 74(43), 535, 1993.
16. Fujita, A., H. Kojima, H. Matsumoto, S. Kokubun, T. Yamamoto, L. A. Frank and W. R. Paterson, Wave Signatures During the Plasmoid Encounters Observed by GEOTAIL, EOS, 74(43), 535, 1993.

1994

17. Frank, L. A., W. R. Paterson, K. L. Ackerson, S. Kokubun, M. G. Kivelson and T. Yamamoto, Ion Velocity Distributions in the Vicinity of the Current Sheet in Earth's Distant Magnetotail, in Proceedings of the Second International Conference on Substorms, eds. J. R. Kan, J. D. Craven and S.-I. Akasofu, pp. 99-104, University of Alaska Press, Fairbanks, Alaska, 1994.
18. Shodhan, S., G. L. Siscoe, L. A. Frank, K. L. Ackerson and W. R. Paterson, A Parametric Study of the Slowmode Expansion Fan as a Model of the High-Latitude Boundary

Layer: Comparisons with Geotail Data, presented at the Chapman Conference, Physics of the Magnetopause, San Diego, California, 14-18 March 1994.

19. Hammond, C. M., G. K. Crawford, J. L. Phillips, A. Balogh, H. Kojima, H. Matsumoto, L. A. Frank, S. Kokubun and T. Yamamoto, Observations of the Polytropic Index Inside Coronal Mass Ejections: Ulysses and Geotail Observations, EOS, 75(16), 262, 1994.
20. Crawford, G. K., C. M. Hammond, J. T. Gosling, H. Kojima, H. Matsumoto, L. A. Frank, A. Balogh, S. Kokubun and T. Yamamoto, Multispacecraft Observations of CME's: Ulysses, Geotail, and IMP-8, EOS, 75(16), 266, 1994.
21. Kojima, H., C. M. Hammond, G. K. Crawford, J. T. Gosling, H. Matsumoto, L. A. Frank, S. Kokubun, T. Yamamoto and A. Balogh, Evolution of CIR's and the Stream Interface: GEOTAIL and ULYSSES Observations, EOS, 75(16), 277, 1994.
22. Frank, L. A., W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto, D. H. Fairfield and R. P. Lepping, Observations of Plasmas Associated With the Magnetic Signatures of Plasmoids in the Distant Magnetotail, EOS, 75(16), 308, 1994.
23. Lui, A. T. Y., D. J. Williams, R. W. McEntire, C. Jacquey, V. Angelopoulos, E. C. Roelof, S. P. Christon, L. A. Frank, W. R. Paterson, K. L. Ackerson, R. R. Anderson, S. Kokubun, T. Yamamoto, K. Tsuruda, H. Matsumoto and H. Kojima, Energetic Particle Activity Associated With Field-Aligned Current Structures Detected by Geotail, EOS, 75(16), 308, 1994.
24. Lepping, R. P., D. H. Fairfield, J. Jones, L. A. Frank, W. R. Paterson, S. Kokubun and T. Yamamoto, Are Geotail "Plasmoids" Force-Free Flux-Ropes?, EOS, 75(16), 308, 1994.
25. Paterson, W. R., L. A. Frank and S. Kokubun, Geotail Survey of Magnetotail Plasmas, EOS, 75(16), 309, 1994.
26. Ashour-Abdalla, M., L. A. Frank, W. R. Paterson, L. M. Zelenyi, J. Berchem, F. V. Coroniti, J. M. Bosqued, M. G. Kivelson, S. Kokubun and T. Yamamoto, Manifestations of Nonlinear Ion Dynamics in Distributions Observed in the Earth's Magnetotail, EOS, 75(16), 309, 1994.
27. Kaymaz, Z., G. L. Siscoe, L. A. Frank, K. L. Ackerson, J. R. Spreiter and S. S. Stahara, Geotail Magnetosheath Observations of Solar Wind Discontinuities, EOS, 75(16), 309, 1994.
28. Fairfield, D. H., L. A. Frank, K. L. Ackerson, S. Kokubun, T. Yamamoto and K. Tsuruda, Absence of a Nominal Magnetotail Under Very Northward IMF Conditions, EOS, 75(16), 310, 1994.

29. Frank, L. A., W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto, D. H. Fairfield and R. P. Lepping, Observations of Plasmas Associated With Magnetic Signatures of Plasmoids in the Distant Magnetotail With the Geotail Spacecraft, presented at the Eighth International Symposium on Solar Terrestrial Physics, Sendai, Japan, 5-10 June 1994.
30. Paterson, W. R. and L. A. Frank, Geotail Survey of Magnetotail Plasmas, presented at the Eighth International Symposium on Solar Terrestrial Physics, Sendai, Japan, 5-10 June 1994.
31. Kojima, H., A. Hamada, A. Fujita, H. Matsumoto, I. Nagano, L. A. Frank, T. Mukai, T. Yamamoto, S. Kokubun, W. R. Paterson, S. Machida and Y. Saito, Plasma Wave Features in the Geomagnetic Tail Regions: Geotail Observations, presented at the Eighth International Symposium on Solar Terrestrial Physics, Sendai, Japan, 5-10 June 1994.
32. Lui, A. T. Y., D. J. Williams, R. W. McEntire, S. P. Christon, C. Jacquey, V. Angelopoulos, D. H. Fairfield, T. Yamamoto, S. Kokubun, L. A. Frank, K. L. Ackerson and K. Tsuruda, A Filament of Energetic Particles Near the High-Latitude Dawn Magnetopause, presented at the Eighth International Symposium on Solar Terrestrial Physics, Sendai, Japan, 5-10 June 1994.
33. Matsumoto, H., H. Usui, H. Kojima, J. Koizumi, O. Nishimura, T. Yamamoto, S. Kokubun, K. Tsuruda, T. Mukai, L. A. Frank and W. R. Paterson, Electron Cyclotron Harmonic Waves Observed With Geotail, presented at the Eighth International Symposium on Solar Terrestrial Physics, Sendai, Japan, 5-10 June 1994.
34. Sugiyama, T., T. Terasawa, H. Kawano, T. Yamamoto, S. Kokubun, L. A. Frank, K. L. Ackerson and B. T. Tsurutani, Attenuation Distance of the Bow Shock Upstream Waves: Geotail and ISEE-3 Comparison, presented at the Eighth International Symposium on Solar Terrestrial Physics, Sendai, Japan, 5-10 June 1994.
35. Khurana, K. K., M. G. Kivelson and L. A. Frank, The Relationship of Magnetic Flux Ropes to Substorms, presented at the 30th COSPAR Scientific Assembly, Hamburg, Germany, 11-21 July 1994.
36. Lui, A. T. Y., D. J. Williams, R. W. McEntire, C. Jacquey, V. Angelopoulos, E. C. Roelof, S. M. Krimigis, C. -I. Meng, S. P. Christon, F. M. Ipavich, G. Gloeckler, T. P. Armstrong, L. J. Lanzerotti, E. T. Sarris, S. Kokubun, L. A. Frank, K. L. Ackerson, W. R. Paterson, T. Yamamoto, T. Mukai and K. Tsuruda, Initial Investigation of Energetic Particle Phenomena in the Distant Magnetotail From Geotail/EPIC, presented at the 30th COSPAR Scientific Assembly, Hamburg, Germany, 11-21 July 1994.
37. Frank, L. A., W. R. Paterson, M. Ashour-Abdalla, J. Berchem, J. Raeder, F. V. Coroniti, G. L. Siscoe, S. Shodhan, A. J. Lazarus, K. Paularena, K. L. Ackerson, S. Kokubun, T.

- Yamamoto, R. P. Lepping and D. H. Fairfield, Plasma Observations With the Comprehensive Plasma Instrumentation (CPI) on Board the Geotail Spacecraft in the Magnetotail: Nonadiabatic Acceleration of Ions, Magnetotail Breathing, Wind Sock Effect, Currents in Magnetic Flux Ropes, Ion Beamlets, Fractal Analysis of Velocity Distributions, Comparisons With MHD Modeling, and Two-Component Ion Velocity Distributions in the Magnetosheath, presented at the Second GEOTAIL Workshop at the Institute of Space and Astronautical Science (ISAS), Kanagawa, Japan, 4-6 October 1994.
38. Kokubun, S., Y. Kamide, R. Nakamura, T. Yamamoto, K. Tsuruda, T. Mukai, A. Nishida, H. Matsumoto, L. A. Frank and W. R. Paterson, Structure of the Distant Magnetotail During the Main Phase of Magnetic Storm, EOS, 75(44), 538, 1994.
 39. Chikuba, S., H. Kojima, H. Matsumoto, Y. Omura, R. R. Anderson, L. A. Frank, W. R. Paterson, I. Nagano, T. Mukai, Y. Saito, S. Machida, M. Hirahara, T. Yamamoto and S. Kokubun, Narrowband Electrostatic Emissions Observed in the Tail Lobe Region: GEOTAIL Observation, EOS, 75(44), 539, 1994.
 40. Matsumoto, H., H. Usui, J. Koizumi, H. Kojima, L. A. Frank and W. R. Paterson, Totem Pole Emission at the Dayside Magnetopause, EOS, 75(44), 539, 1994.
 41. Nakamura, R., A. T. Y. Lui, D. J. Williams, S. Kokubun, Y. Kamide, L. A. Frank and W. R. Paterson, Plasma Sheet Encounters Associated With Substorm in the Distant Tail, EOS, 75(44), 557, 1994.
 42. Shodhan, S., G. L. Siscoe, L. A. Frank, K. L. Ackerson, W. R. Paterson, K. Paularena and A. J. Lazarus, Boundary Oscillations at Geotail: Windsock and Breathing, EOS, 75(44), 557, 1994.
 43. Kojima, H., H. Matsumoto, S. Horiyama, S. Chikuba, R. R. Anderson, Y. Omura, I. Nagano, T. Mukai, L. A. Frank, S. Machida, Y. Saito, M. Hirahara, W. R. Paterson, T. Yamamoto and S. Kokubun, Broadband/Narrowband Electrostatic Emissions Observed by GEOTAIL Spacecraft in the Geomagnetic Tail Region, EOS, 75(44), 558, 1994.
 44. Paterson, W. R., L. A. Frank, S. Kokubun, T. Yamamoto, R. P. Lepping and D. H. Fairfield, Examination of Non-Maxwellian Ion Distributions in the Geomagnetic Tail, EOS, 75(44), 559, 1994.
 45. Seon, J., L. A. Frank, W. R. Paterson, F. V. Coroniti, S. Kokubun, T. Yamamoto, R. P. Lepping and D. H. Fairfield, MHD Slow-Mode Shocks at the Lobe-Plasma Sheet Boundary: GEOTAIL, EOS, 75(44), 560, 1994.
 46. Mitchell, D. G., V. Angelopoulos, R. W. McEntire, D. J. Williams, A. T. Y. Lui, R. B. Decker, S. M. Krimigis, E. C. Roelof, S. P. Christon, S. Kokubun, T. Yamamoto, W.

R. Paterson, L. A. Frank, R. P. Lepping, G. D. Reeves and R. D. Belian, Two-Point Correlations of Energetic Particle Beams in the Magnetotail, EOS, 75(44), 575, 1994.

47. Frank, L. A., W. R. Paterson, S. Kokubun, T. Yamamoto, R. P. Lepping and D. H. Fairfield, Observations of the Plasma Velocity Distributions in the Vicinity of the Magnetotail Neutral Line With the Geotail Spacecraft, EOS, 75(44), 575, 1994.

1995

48. Frank, L. A., W. R. Paterson, K. L. Ackerson, J. Seon, S. Kokubun, T. Yamamoto, M. Ashour-Abdalla, F. V. Coroniti, M. G. Kivelson, G. L. Siscoe, S. Shodhan-Shah, R. P. Lepping and D. H. Fairfield, Observations of Plasmas in Earth's Magnetotail With the Galileo and Geotail Spacecraft, presented at the 1995 Cambridge Workshop/Symposium on the Physics of Space Plasmas, Bermuda, 20-25 February 1995.
49. Frank, L. A., W. R. Paterson, J. Seon, S. Kokubun and T. Yamamoto, Observations of the Dynamics of Thermal Electrons in Earth's Magnetotail With the Geotail Spacecraft, EOS, 76(17), 258, 1995.
50. Paterson, W. R., L. A. Frank and M. Ashour-Abdalla, The Entropy of Ions in the Geomagnetic Tail, EOS, 76(17), 258, 1995.
51. Ashour-Abdalla, M., L. M. Zelenyi, W. R. Paterson and L. A. Frank, Description of Ion Magnetotail Distribution Functions Using Fractal Analysis and Entropy Calculations, EOS, 76(17), 258, 1995.
52. Frank, L. A., W. R. Paterson, K. L. Ackerson, J. Seon, M. Ashour-Abdalla, M. G. Kivelson, S. Kokubun, T. Yamamoto and R. P. Lepping, Plasma Dynamics in Earth's Magnetotail: Observations With the Geotail and Galileo Spacecraft, Meeting Program, XXI General Assembly, International Union of Geodesy and Geophysics, Boulder, Colorado, P4, 2-14 July 1995.
53. Berchem, J., J. Raeder, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto and R. P. Lepping, Dynamics of Earth's Distant Tail: Comparison of Geotail Plasmas and Magnetic Field Observations With Global MHD Simulation Results, Meeting Program, XXI General Assembly, International Union of Geodesy and Geophysics, Boulder, Colorado, P4, 2-14 July 1995.
54. Fairfield, D. H., L. A. Frank, K. L. Ackerson, W. R. Paterson, S. Kokubun, T. Yamamoto and K. Tsuruda, Absence of a Nominal Magnetotail Under Very Northward IMF Conditions, Meeting Program, XXI General Assembly, International Union of Geodesy and Geophysics, Boulder, Colorado, P4, 2-14 July 1995.
55. Ashour-Abdalla, M., P. Convery, D. Schriver, L. Yin, L. A. Frank, W. R. Paterson, H. Matsumoto and H. Kojima, Plasma Waves and Particle Distributions in the Earth's

Magnetotail: Theory and Observations, Meeting Program, XXI General Assembly, International Union of Geodesy and Geophysics, Boulder, Colorado, P74, 2-14 July 1995.

56. Christon, S. P., G. Gloeckler, T. E. Eastman, R. W. McEntire, E. C. Roelof, A. T. Y. Lui, D. J. Williams, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, Y. Saito and T. Yamamoto, Energetic Ion Charge State and Species Composition Variation With Downtail Distances in Various Magnetotail Regions, presented at the Third Geotail Workshop, Institute of Space and Astronautical Science, Sagamihara, Kanagawa, Japan, 23-25 October 1995.
57. Eastman, T. E., S. P. Christon, L. A. Frank, S. Kokubun, H. Matsumoto, T. Mukai and D. J. Williams, Identification of Magnetospheric Regions From the Geotail Spacecraft, presented at the Third Geotail Workshop, Institute of Space and Astronautical Science, Sagamihara, Kanagawa, Japan, 23-25 October 1995.
58. Frank, L. A., W. R. Paterson, K. L. Ackerson, M. Ashour-Abdalla, F. V. Coroniti, G. L. Siscoe, S. Kokubun and T. Yamamoto, Plasma Velocity Distributions in the Near-Earth Plasma Sheet: A First Look With the Geotail Spacecraft, presented at the Third Geotail Workshop, Institute of Space and Astronautical Science, Sagamihara, Kanagawa, Japan, 23-25 October 1995.
59. McEntire, R. W., D. J. Williams, A. T. Y. Lui, S. P. Christon, T. E. Eastman, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, T. Yamamoto and Y. Saito, Observations of Energetic Ion Fluxes in the Earth's Magnetotail With the Geotail/EPIC Instrument, presented at the Third Geotail Workshop, Institute of Space and Astronautical Science, Sagamihara, Kanagawa, Japan, 23-25 October 1995.
60. Yagitani, S., I. Nagano, W. R. Paterson, H. Matsumoto, L. A. Frank, R. R. Anderson, Y. Omura, S. Kokubun and T. Yamamoto, Generation and Propagation of Dayside Chorus Emissions, presented at the Third Geotail Workshop, Institute of Space and Astronautical Science, Sagamihara, Kanagawa, Japan, 23-25 October 1995.
61. Yagitani, S., I. Nagano, X. Wu, S. Takase, H. Matsumoto, W. R. Paterson, L. A. Frank and R. R. Anderson, Generation and Propagation of Chorus Emissions Observed by GEOTAIL Inside the Dayside Magnetopause, presented at the Japanese SGEPPSS, (Society of Geomagnetism and Earth, Planetary and Space Sciences)_meeting, Kyoto, Japan, October 1995.
62. Ashour-Abdalla, M., J. Berchem, F. V. Coroniti, M. El-Alaoui, J. Raeder, R. Richard, D. Schriver, R. J. Walker, L. A. Frank, W. R. Paterson, K. L. Ackerson, D. J. Williams, A. T. Y. Lui, S. Kokubun, T. Yamamoto, R. P. Lepping and K. Ogilvie, Theoretical Technology for the ISTP Mission: Examples of Theory-Data Closure, *EOS*, 76(46), 461, 1995.

63. Berchem, J., J. Raeder, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto and R. P. Lepping, The Distant Tail at 200 R_E: Comparison Between Geotail Observations and the Results of a Global MHD Simulation, EOS, 76(46), 468, 1995.
64. Christon, S. P., G. Gloeckler, T. E. Eastman, R. W. McEntire, E. C. Roelof, A. T. Y. Lui, D. J. Williams, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, Y. Saito and T. Yamamoto, Energetic Ion Charge State and Species Composition Variation With Downtail Distance in Various Magnetotail Regions, EOS, 76(46), 468, 1995.
65. Eastman, T. E., S. P. Christon, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, T. Yamamoto, Y. Saito and D. J. Williams, Identification of Magnetospheric Regions From the Geotail Spacecraft, EOS, 76(46), 468, 1995.
66. Frank, L. A., K. L. Ackerson, W. R. Paterson, A. J. Lazarus, K. I. Paularena, S. Kokubun, T. Yamamoto and R. P. Lepping, Detection of Solar Wind Ion Velocity Distributions in the Downstream Magnetosheath Plasmas With the Geotail Spacecraft, EOS, 76(46), 461, 1995.
67. McEntire, R. W., D. J. Williams, A. T. Y. Lui, S. P. Christon, T. E. Eastman, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, T. Yamamoto and Y. Saito, Observations of Energetic Ion Fluxes in the Earth's Magnetotail With the Geotail/EPIC Instrument, EOS, 76(46), 475, 1995.
68. Nylund, S. R., E. C. Roelof, D. J. Williams, S. P. Christon, T. E. Eastman, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, T. Yamamoto and Y. Saito, Energetic Proton and Electron Anisotropies in Different Regions of the Magnetotail Measured by GEOTAIL/EPIC as a Function of Geomagnetic Activity, EOS, 76(46), 474, 1995.
69. Paterson, W. R., L. A. Frank, S. Kokubun, T. Yamamoto and R. P. Lepping, Geotail Observations of Magnetospheric Currents, EOS, 76(46), 485, 1995.
70. Raeder, J., J. Berchem, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto and R. P. Lepping, The Structure of the Distant Tail During Strong Northward IMF: A Comparison Between Geotail Observations and the Results of a Global MHD Simulation, EOS, 76(46), 475, 1995.
71. Seon, J., L. A. Frank, W. R. Paterson, J. D. Scudder, F. V. Coroniti, S. Kokubun and T. Yamamoto, Observations of Velocity Distribution Functions for Slow-Mode Shocks in Earth's Distant Magnetotail, EOS, 76(46), 492, 1995.
72. Yagitani, S., I. Nagano, X. Y. Wu, H. Matsumoto, Y. Omura, W. R. Paterson, L. A. Frank and R. R. Anderson, Generation and Propagation of Chorus Emissions Observed by GEOTAIL in the Dayside Outer Magnetosphere, EOS, 76(46), 494, 1995.

73. Yin, L., M. Ashour-Abdalla, D. Schriver, L. A. Frank, W. R. Paterson, H. Matsumoto and H. Kojima, Generation of Narrow-Band Electrostatic Waves (NEN) by Double-Humped Electron Distributions in the Magnetotail, EOS, 76(46), 520, 1995.

1996

74. Frank, L. A., W. R. Paterson, K. L. Ackerson, S. Kokubun and T. Yamamoto, Plasma Velocity Distributions in the Near-Earth Plasma Sheet: A First Look With the Geotail Spacecraft, presented at the Chapman Conference on Magnetic Storms, Pasadena, California, 12-16 February 1996.
75. Yagitani, S., I. Nagano, H. Matsumoto, Y. Omura, W. R. Paterson, L. A. Frank and R. R. Anderson, Wave and Particle Observations by GEOTAIL for Chorus Emissions in the Dayside Outer Magnetosphere, presented at the Japanese SGEPPSS, (Society of Geomagnetism and Earth, Planetary and Space Sciences)_meeting, Japan, March 1996.
76. Christon, S. P., G. Gloeckler, T. E. Eastman, R. W. McEntire, E. C. Roelof, A. T. Y. Lui, D. J. Williams, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, Y. Saito and T. Yamamoto, Average Energetic Ion Composition Variations Associated with Substorm Activity, Meeting Programme, Third International Conference on Substorms, Versailles, France, p. 181, 12-17 May 1996.
77. Frank, L. A., W. R. Paterson, S. Kokubun and T. Yamamoto, Search for Evidences of Thin Current Sheets in the Near-Earth Plasma Sheet With the Geotail Spacecraft, Meeting Programme, Third International Conference on Substorms, Versailles, France, p. 104, 12-17 May 1996.
78. Paterson, W. R., L. A. Frank, S. Kokubun and T. Yamamoto, Observations of Current Systems in the Plasma Sheet With the Geotail Spacecraft, Meeting Programme, Third International Conference on Substorms, Versailles, France, p. 200, 12-17 May 1996.
79. Ashour-Abdalla, M., V. Perroomian, J. Berchem, M. El-Alaoui, J. Raeder, R. J. Walker, W. R. Paterson, L. A. Frank, S. Kokubun, T. Yamamoto, R. P. Lepping and K. Ogilvie, The Origin of Nonisotropic Protons in the Near-Earth Magnetotail, EOS, 77(17), 231, 1996.
80. Berchem, J., J. Raeder, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto, R. P. Lepping and K. Ogilvie, WIND/GEOTAIL Comparative Studies of the Dayside Magnetospheric Boundary: Initial Results From Global MHD Modeling, EOS, 77(17), 241, 1996.
81. Christon, S. P., G. Gloeckler, T. E. Eastman, R. W. McEntire, E. C. Roelof, A. T. Y. Lui, D. J. Williams, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, Y. Saito and T. Yamamoto, Average Energetic Ion Composition Variations

- Associated With Substorm Activity From EPIC/STICS on Geotail, EOS, 77(17), 246, 1996.
82. Convery, P. D., D. Schriver, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, S. Kokubun and T. Yamamoto, Simulations of Nongyrotropic Electrostatic Ion Cyclotron Waves: Perpendicular Propagation, EOS, 77(17), 248, 1996.
 83. Eastman, T. E., S. P. Christon, G. Gloeckler, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, Y. Saito, T. Yamamoto, D. J. Williams, A. T. Y. Lui, R. W. McEntire and E. C. Roelof, EPIC/Geotail Ion Composition for Differing States of Energetic Proton Anisotropy in the Earth's Magnetotail, EOS, 77(17), 245, 1996.
 84. Frank, L. A., W. R. Paterson, S. Kokubun, T. Yamamoto, R. P. Lepping, K. W. Ogilvie and A. J. Lazarus, Plasma Dynamics in the Near-Earth Plasma Sheet in Response to Fluctuations in the Interplanetary Medium, EOS, 77(17), 254, 1996.
 85. McEntire, R. W., D. J. Williams, A. T. Y. Lui, S. P. Christon, T. E. Eastman, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, T. Yamamoto and Y. Saito, Observations of Energetic Ion Flux Regimes in the Earth's Magnetotail With the Geotail/EPIC Instrument, EOS, 77(17), 245, 1996.
 86. Paterson, W. R., L. A. Frank, S. Kokubun and T. Yamamoto, Observations of Current Systems in the Plasma Sheet With the Geotail Spacecraft, EOS, 77(17), 233, 1996.
 87. Raeder, J., Berchem, J., M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto, R. P. Lepping and K. Ogilvie, The Distant Tail During Strong Northward IMF: Comparisons Between Geotail Observations and the Results of Global MHD Simulations, EOS, 77(17), 243, 1996.
 88. Raeder, J., Berchem, J., M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto, R. P. Lepping and K. Ogilvie, A Global MHD Simulation Study of the February 8/9, 1995 Substorm, EOS, 77(17), 239, 1996.
 89. Ashour-Abdalla, M., L. M. Zelenyi, J. Berchem, M. El Alaoui, V. Perroomian, J. Raeder, R. L. Richard, D. Schriver, R. J. Walker, L. A. Frank, W. R. Paterson, K. Ackerson, S. Kokubun, T. Yamamoto, R. P. Lepping and K. Ogilvie, Modeling Complex Ion Distributions in the Near-Earth Plasma Sheet, 31st Scientific Assembly of COSPAR, Birmingham, United Kingdom, p. 183, 14-21 July 1996.
 90. Ashour-Abdalla, M., L. M. Zelenyi, V. Perroomian, L. A. Frank and W. R. Paterson, Quantifying the Intrinsic Complexity of Plasma Sheet Distribution Functions, 31st Scientific Assembly of COSPAR, Birmingham, United Kingdom, p. 183, 14-21 July 1996.

91. Paterson, W. R., L. A. Frank, S. Kokubun and T. Yamamoto, Observations of Current Systems in the Plasma Sheet With the Geotail Spacecraft, 31st Scientific Assembly of COSPAR, Birmingham, United Kingdom, p. 175, 14-21 July 1996.
92. Yagitani, S., I. Nagano, H. Matsumoto, Y. Omura, W. R. Paterson, L. A. Frank and R. R. Anderson, Simultaneous Observation of Waves and Particles by GEOTAIL for Chorus Emissions in the Dayside Outer Magnetosphere, presented at the XXV General Assembly of URSI, Lille, France, 28 August-5 September 1996.
93. Ashour-Abdalla, M., L. M. Zelenyi, J. Berchem, M. El-Alaoui, V. Perroomian, J. Raeder, R. L. Richard, D. Schriver, R. J. Walker, L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto, R. P. Lepping and K. Ogilvie, Determination of Particle Sources for Observed Distribution Functions, 1996 Huntsville Workshop on "Encounter Between Global Observations and Models in the ISTP ERA," Guntersville, Alabama, p. 18, 15-20 September 1996.
94. Berchem, J., J. Raeder, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, K. Ackerson, S. Kokubun, T. Yamamoto, R. P. Lepping and K. Ogilvie, Large-Scale Dynamics of the Magnetospheric Boundary: Comparisons Between Global MHD Simulation Results and ISTP Observations, 1996 Huntsville Workshop on "Encounter Between Global Observations and Models in the ISTP ERA," Guntersville, Alabama, p. 116, 15-20 September 1996.
95. Paterson, W. R., L. A. Frank, S. Kokubun and T. Yamamoto, Magnetotail Current Systems: Geotail Plasma Observations, 1996 Huntsville Workshop on "Encounter Between Global Observations and Models in the ISTP ERA," Guntersville, Alabama, p. 95, 15-20 September 1996.
96. Yagitani, S., I. Nagano, H. Matsumoto, Y. Omura, W. R. Paterson, L. A. Frank and R. R. Anderson, Generation and Propagation of Chorus Emissions Observed by GEOTAIL in the Dayside Outer Magnetosphere, presented at the 1996 International Symposium on Antennas and Propagation (ISAP '96), Chiba, Japan, 24-27 September 1996.
97. Ashour-Abdalla, M., J. Raeder, J. Berchem, R. J. Walker, M. El-Alaoui, L. A. Frank, W. R. Paterson, S. Kokubun, T. Yamamoto, R. Lepping and K. Ogilvie, The Structure of the Magnetotail: Simulations and GEOTAIL Observations, Chapman Conference on "The Earth's Magnetotail: New Perspectives," Kanazawa, Japan, p. 19, 5-9 November 1996.
98. Ashour-Abdalla, M., L. M. Zelenyi, M. El-Alaoui, V. Perroomian, J. M. Bosqued, J. Raeder, L. A. Frank, W. R. Paterson, S. Kokubun, T. Yamamoto, R. Lepping and K. Ogilvie, Identifying the Source of the Observed Particle Distribution on Geotail, Chapman Conference on "The Earth's Magnetotail: New Perspectives," Kanazawa, Japan, 5-9 November 1996.

99. Christon, S. P., G. Gloeckler, T. E. Eastman, R. W. McEntire, E. C. Roelof, A. T. Y. Lui, D. J. Williams, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, Y. Saito and T. Yamamoto, Energetic Ion Flux Variations Correlated with Geomagnetic Activity in the Downtail Magnetosphere from EPIC/STICS on GEOTAIL, Chapman Conference on "The Earth's Magnetotail: New Perspectives," Kanazawa, Japan, p. 22, 5-9 November 1996.
100. Eastman, T. E., E. C. Roelof, S. P. Christon, G. Gloeckler, D. J. Williams, A. T. Y. Lui, R. W. McEntire, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, Y. Saito and T. Yamamoto, Energetic Proton Anisotropy in the Earth's Magnetotail as Surveyed by Geotail/EPIC, Chapman Conference on "The Earth's Magnetotail: New Perspectives," Kanazawa, Japan, p. 20, 5-9 November 1996.
101. 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.
102. McEntire, R. W., D. J. Williams, A. T. Y. Lui, E. C. Roelof, S. P. Christon, T. E. Eastman, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, T. Yamamoto and Y. Saito, A Statistical Study of Energetic Ion Flux Regimes in the Magnetotail with the Geotail/EPIC/ICS Instrument, Chapman Conference on "The Earth's Magnetotail: New Perspectives," Kanazawa, Japan, p. 21, 5-9 November 1996.
103. Paterson, W. R., L. A. Frank, S. Kokubun and T. Yamamoto, Magnetotail Current Systems: Geotail Plasma Observations, Chapman Conference on "The Earth's Magnetotail: New Perspectives," Kanazawa, Japan, p. 2, 5-9 November 1996.
104. Shodhan, S., G. L. Siscoe, L. A. Frank, K. L. Ackerson and W. R. Paterson, Properties of the Flow through the Mantle, Chapman Conference on "The Earth's Magnetotail: New Perspectives," Kanazawa, Japan, p. 108, 5-9 November 1996.
105. Ashour-Abdalla, M., L. M. Zelenyi, M. El-Alaoui, V. Perroomian, J. M. Bosqued, J. Raeder, L. A. Frank, W. R. Paterson, S. Kokubun, T. Yamamoto, K. W. Ogilvie and R. P. Lepping, Magnetotail Particle Dynamics Inferred From a GEOTAIL Particle Distribution, *EOS*, 77(46), 616, 1996.
106. Berchem, J., J. Raeder, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto, R. P. Lepping and K. Ogilvie, ISTP/GGS Correlative Studies of the Dayside Magnetospheric Boundary: Results From Global MHD Modeling, *EOS*, 77(46), 640, 1996.
107. Chen, S.-H., J. L. Green, L. A. Frank, S. Kokubun, R. P. Lepping, H. Matsumoto, T. Mukai, K. W. Ogilvie, K. Tsuruda and D. J. Williams, Low-latitude Boundary Layer

- on the Flanks of the Magnetopause: GEOTAIL and WIND Observations, EOS, 77(46), 603, 1996.
108. El-Alaoui, M., M. Ashour-Abdalla, V. Perroomian, J. M. Bosqued, J. Raeder, L. A. Frank, W. R. Paterson, S. Kokubun, T. Yamamoto, K. W. Ogilvie and R. P. Lepping, Understanding the Structure in Magnetotail Ion Distribution Functions by Using Global MHD Simulation and Ion Trajectory Calculations, EOS, 77(46), 625, 1996.
 109. 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.
 110. Holland, D. L., W. R. Paterson and L. A. Frank, Observational Signatures of Global Magnetospheric Structures in GEOTAIL Satellite Data, EOS, 77(46), 625, 1996.
 111. Jacquy, C., S. Rouquette, D. J. Williams, R. L. McEntire, A. T. Y. Lui, S. P. Christon, W. R. Paterson, L. A. Frank, S. Kokubun, T. Yamamoto, G. D. Reeves and W. J. Hughes, Energetic Ion Streams in the Deep Tail Associated With Substorms: GEOTAIL Observations at Geocentric Distances Ranging From $\sim 100 R_e$ to $\sim 200 R_e$, EOS, 77(46), 616, 1996.
 112. Lu, G., R. P. Lepping, L. A. Frank, W. R. Paterson, V. Angelopoulos, T. Yamamoto and S. Kokubun, Ionospheric Electrodynamics and Global Energy Deposition During the October 18-19, 1995 Space Weather Event, EOS, 77(46), 527, 1996.
 113. Nylund, S. R., R. W. McEntire, D. J. Williams, A. T. Y. Lui, E. C. Roelof, S. P. Christon, T. E. Eastman, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai and T. Yamamoto, A Statistical Study of Energetic Ion Flux Regimes in the Magnetotail With the Geotail/EPIC/ICS Instrument, EOS, 77(46), 615, 1996.
 114. Paterson, W. R., L. A. Frank, M. Ashour-Abdalla, M. El-Alaoui, V. Perroomian, J. Raeder, S. Kokubun, T. Yamamoto, K. W. Ogilvie and R. P. Lepping, Geotail Observations Near the Current Sheet in Comparison with LSK Simulations, EOS, 77(46), 616, 1996.
 115. 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.

1997

116. Yagitani, S., I. Nagano, H. Takano, H. Matsumoto, Y. Omura, W. R. Paterson, L. A. Frank and R. R. Anderson, Generation and Propagation of Chorus Emissions in the

Magnetosphere, presented at the Fifth International School/Symposium for Space Simulations, Kyoto University, Kyoto, Japan, 13-19 March 1997.

117. Christon, S. P., T. E. Eastman, D. J. Williams, R. W. McEntire, E. C. Roelof, A. T. Y. Lui, T. Sotirelis, S. R. Nylund, G. Gloeckler, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, Y. Saito and T. Yamamoto, Statistics of the Spatial Distribution and Geomagnetic Activity Dependence of Magnetospheric Plasma Regimes: Geotail Spacecraft Observations, EOS, 78(17), 269, 1997.
118. Hull, A. J., J. D. Scudder, L. A. Frank, W. R. Paterson, R. J. Fitzenreiter, C. T. Russell, S. Kokubun and T. Yamamoto, Coherent Electron Heating and Phase Space Signatures at Strong Shocks, EOS, 78(17), 281, 1997.
119. Paterson, W. R., L. A. Frank, S. Kokubun, T. Yamamoto, Survey of Ion Velocities in the Plasma Sheet Between 10 and 50 R_E With the Geotail Spacecraft, EOS, 78(17), 310, 1997.
120. 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.
121. Seon, J., L. A. Frank, W. R. Paterson, K. W. Min, S. Kokubun and T. Yamamoto, Structure of the Day-Side Magnetosheath as Observed With the Geotail Spacecraft, EOS, 78(17), 293, 1997.
122. Christon, S. P., T. E. Eastman, D. J. Williams, R. W. McEntire, E. C. Roelof, A. T. Y. Lui, T. Sotirelis, S. R. Nylund, G. Gloeckler, L. A. Frank, W. R. Paterson, S. Kokubun, H. Matsumoto, H. Kojima, T. Mukai, Y. Saito and T. Yamamoto, Geotail Spacecraft Observations of Magnetospheric Plasma Regimes: Statistics of Spatial Distribution and Geomagnetic Activity Dependence, 8th Scientific Assembly of International Association of Geomagnetism and Aeronomy (IAGA), Uppsala, Sweden, p. 271, 4-15 August 1997.
123. 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.
124. 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 ISTP POLAR/GEOTAIL Correlative Study, 8th Scientific Assembly of International

Association of Geomagnetism and Aeronomy (IAGA), Uppsala, Sweden, p. 247, 4-15 August 1997.

125. Raeder, J., J. Berchem, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto and R. P. Lepping and K. W. Ogilvie, Global MHD Simulations as a Tool for Correlative Studies, 8th Scientific Assembly of International Association of Geomagnetism and Aeronomy (IAGA), Uppsala, Sweden, p. 303, 4-15 August 1997.
126. 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.
127. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, J. Raeder, L. A. Frank and W. R. Paterson, Determining the Sources and the Transport Mechanisms of Ions in the Magnetotail by Using Correlative Observations and Numerical Simulation, EOS, 78(46), 611, 1997.
128. 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.
129. Jacquey, C., S. Rouquette, P. Louarn, V. Angelopoulos, F. S. Mozer, S. Kokubun, K. Tsuruda, T. Yamamoto, T. Mukai, D. G. Williams, R. W. McEntire, S. P. Christon, W. R. Paterson, L. A. Frank, G. D. Reeves and T. J. Hughes, Tailward Energetic Ion Streams in the Deep Tail Associated with Substorms: Electromagnetic Signatures, EOS, 78(46), 616, 1997.
130. Yagitani, S., I. Nagano, H. Matsumoto, Y. Omura, W. R. Paterson, L. A. Frank and R. R. Anderson, Wave and Particle Measurements for Chorus Emissions Observed by GEOTAIL in the Dayside Outer Magnetosphere, EOS, 78(46), 578, 1997.

1998

131. 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.
132. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, J. Raeder, R. Walker, L. A. Frank and W. R. Paterson, Sources and Transport of Plasma Sheet Ions During Magnetospheric Substorms, presented at the International Conference on Substorms, ICS-4, Lake Hamana, Japan, p. 57, 9-13 March 1998.

133. El-Alaoui, M., M. Ashour-Abdalla, J. Raeder, L. A. Frank and W. R. Paterson, Modeling the Plasma Populations of the Near-Earth Plasma Sheet During Substorms Using Time Dependent LSK, presented at the International Conference on Substorms, ICS-4, Lake Hamana, Japan, p. 270, 9-13 March 1998.
134. 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.
135. Paterson, W. R., L. A. Frank, S. Kokubun, T. Yamamoto, R. P. Lepping and K. W. Ogilvie, Observations of Currents Associated With Magnetospheric Substorms, presented at the International Conference on Substorms, ICS-4, Lake Hamana, Japan, p. 10, 9-13 March 1998.
136. 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.
137. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, J. Raeder, R. J. Walker, L. A. Frank and W. R. Paterson, The Origins of Ions Populating the Plasma Sheet Ions During Magnetospheric Substorms, EOS, 79(17), 321, 1998.
138. 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.
139. El-Alaoui, M., M. Ashour-Abdalla, V. Perroomian, R. L. Richard, J. Raeder, L. A. Frank and W. R. Paterson, Transport of Ions in the Near Earth Plasma Sheet During the Growth Phase of a Substorm, EOS, 79(17), 308, 1998.
140. Paterson, W. R., L. A. Frank, S. Kokubun and T. Yamamoto, Convection as Seen by the Geotail Spacecraft, EOS, 79(17), 302, 1998.
141. Raeder, J., L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto, R. P. Lepping, K. Baker, M. Pinnock and A. D. M. Walker, How Quiet Can the Magnetosphere Be?, EOS, 79(17), 304, 1998.
142. Shodhan, S., G. L. Siscoe, L. A. Frank, K. L. Ackerson, W. R. Paterson and S. Kokubun, Properties of the Mantle in the Earth's Magnetotail, EOS, 79(17), 330, 1998.
143. 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.

144. El Alaoui, M., M. Ashour-Abdalla, V. Perroomian, R. L. Richard, J. Raeder, L. A. Frank and W. R. Paterson, Modeling the Transport of H⁺ Ions in the Near-Earth Plasma Sheet During a Substorm, presented at the 1998 Cambridge Symposium/Workshop, Lisbon, Portugal, p. 30, 22 June - 3 July 1998.
145. 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.
146. Paterson, W. R., L. A. Frank, S. Kokubun and T. Yamamoto, Convection as Seen by the Geotail Spacecraft, presented at the 1998 Cambridge Symposium/Workshop, Lisbon, Portugal, p. 12, 22 June - 3 July 1998.
147. 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.
148. Paterson, W. R., L. A. Frank, S. Kokubun, T. Yamamoto, R. P. Lepping and K. W. Ogilvie, Observations of Substorm Currents, presented at the 32nd COSPAR Scientific Assembly, Nagoya, Japan, p. 225, 12-19 July 1998.
149. Yagitani, S., I. Nagano, H. Matsumoto, Y. Omura, W. R. Paterson, L. A. Frank and R. R. Anderson, Wave and Particle Measurements For Chorus Emissions by Geotail in the Magnetosphere, presented at the 32nd COSPAR Scientific Assembly, Nagoya, Japan, p. 208, 12-19 July 1998.
150. 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.
151. 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.
152. Ball, B. M., R. L. Kaufmann, W. R. Paterson, L. A. Frank and S. Kokubun, Cross Tail Current Studies and Fast Flow Events, EOS, 79(45), 737, 1998.
153. 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.

154. 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.
155. 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, G. K. Parks, T. Moretto, N. C. Maynard and K. Yumoto, Conjunction of Tail Satellites for Substorm Study: ISTP Event of January 2, 1997, EOS, 79(45), 779, 1998.
156. Seon, J., S. M. Park, K. W. Min, L. A. Frank, W. R. Paterson, S. Kokubun, R. P. Lepping and K. W. Ogilvie, Density Fluctuations of Earth's Magnetosheath in Response to Abrupt Increase of Solar Wind Density, EOS, 79(45), 790, 1998.
157. Stenuit, H., J.-A. Sauvaud, R. Kovrazhkin, L. A. Frank and W. R. Paterson, Impulsive Ion Injections at the Polar Edge of the Auroral Oval From the Magnetospheric Flanks: Interball-2 Observations, EOS, 79(45), 764, 1998.

1999

158. Kaufmann, R. L., B. M. Ball, W. R. Paterson, L. A. Frank and S. Kokubun, Tail Current Systems, presented at the Chapman Conference on Magnetospheric Current Systems, Kona, Hawaii, 11-15 January 1999.
159. 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.
160. 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.
161. Usui, H., W. R. Paterson, H. Matsumoto, L. A. Frank, M. Nakamura, H. Matsui, T. Yamamoto, O. Nishimura and J. Koizumi, Geotail Electron Observations in Association with Intense Bursts of Electron Cyclotron Harmonic Waves in the Dayside Magnetosphere, presented at the Sixth Geotail Workshop, Uji, Kyoto, Japan, 15-18 March 1999.
162. 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.

163. Ball, B. M., R. L. Kaufmann, W. R. Paterson and L. A. Frank, Asymmetric Distribution Functions, EOS, 80(17), 299, 1999.
164. 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.
165. Kaufmann, R. L., B. M. Ball, W. R. Paterson and L. A. Frank, Long-Term Averaged Magnetotail Configuration, EOS, 80(17), 299, 1999.
166. 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.
167. Frank, L. A., J. B. Sigwarth, W. R. Paterson and S. Kokubun, Observations Pertaining to the Location of the Substorm Onset Instability, presented at the XXII IUGG/IAGA General Assembly, Birmingham, United Kingdom, 18-30 July 1999.
168. Ashour-Abdalla, M., M. El-Alaoui, V. Peromian, 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.
169. Ball, B. M., R. L. Kaufmann, W. R. Paterson and L. A. Frank, Thin Current Sheets in the Earth's Magnetotail: Results of a Survey, EOS, 80(46), 911, 1999.
170. 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.
171. Kaufmann, R. L., B. M. Ball, W. R. Paterson and L. A. Frank, The Use of Pressure Balance in Magnetotail Modeling, EOS, 80(46), 849, 1999.
172. 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.
173. Weimer, D. R., N. C. Maynard, W. J. Burke, C. J. Farrugia, L. A. Frank, M. R. Collier, D. J. McComas and C. W. Smith, Concurrent Measurements of the Interplanetary Magnetic Field From Four Spacecraft: An Investigation of Spatial Scales, Orientations, and Impact Timing, EOS, 80(46), 905, 1999.

2000

174. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, R. J. Walker, L. A. Frank, J. B. Sigwarth and W. R. Paterson, Global Magnetohydrodynamic Simulation of Auroral Dynamics During a Substorm, EOS, 81(19), 379, 2000.
175. 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.
176. Dubinin, E., P. Song, L. Frank, S. Kokubun, T. Mukai, R. Lepping and K. Ogilvie, Density Enhancements in Front of the Dayside Magnetopause: Case and Statistical Study, presented at the 33rd COSPAR Scientific Assembly, Warsaw, Poland, 16-23 July 2000.
177. 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.
178. 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.
179. 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.
180. Ball, B. M., R. L. Kaufmann, W. R. Paterson and L. A. Frank, Orbit Tracing in a Strong Confined Electric Field, EOS, 81(48), 1059, 2000.
181. El-Alaoui, M., M. Ashour-Abdalla, J. Berchem, R. Richard, L. A. Frank, W. R. Paterson and J. B. Sigwarth, Global Magnetohydrodynamic Simulation of the Magnetospheric Substorm on September 4, 1996, EOS, 81(48), 1055, 2000.
182. Kaufmann, R. L., B. M. Ball, W. R. Paterson and L. A. Frank, Plasma Parameters Near the Magnetotail Neutral Sheet, EOS, 81(48), 1059, 2000.

2001

183. 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.
184. 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.

185. Ashour-Abdalla, M., M. El-Alaoui, J. Berchem, R. J. Walker, L. A. Frank, W. R. Paterson and H. J. Singer, Magnetotail Dynamics During the October 22, 1999 Magnetic Storm, presented at the EGS XXVI General Assembly, Nice, France, 26-30 March 2001.
186. Heikkila, W. J., W. R. Paterson, L. A. Frank and Y. Omura, Plasma Behavior at the Dayside Magnetopause: Access to Closed Field Lines, and Sporadic Emission of 1-10 keV Electrons, presented at the Low-Latitude Boundary Layer Chapman Conference, New Orleans, Louisiana, 16-20 April 2001.
187. Ball, B. M., R. L. Kaufmann, W. R. Paterson and L. A. Frank, Distribution Functions in Fast Flows: Data and Orbit Tracing Comparisons, EOS, 82(20), 381, 2001.
188. 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 to the Near Earth Plasma Sheet to an Impulsive Variation of the IMF, EOS, 82(20), 380, 2001.
189. Kaufmann, R. L., B. M. Ball, W. R. Paterson and L. A. Frank, Data Based 3-D Plasma Sheet Models, EOS, 82(20), 381, 2001.
190. Paterson, W. R., L. A. Frank and J. B. Sigwarth, Substorm Injections, Dipolarizations, and Auroral Expansions, EOS, 82(20), 378, 2001.
191. 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.
192. Kaufmann, R. L., W. R. Paterson and L. A. Frank, Parallel Current in the Plasma Sheet, EOS, 82(47), 1024, 2001.
193. Paterson, W. R., L. A. Frank and J. B. Sigwarth, Plasma Sheet Dynamics and Auroral Activations, EOS, 82(47), 1082, 2001.
194. Ashour-Abdalla, M., M. El-Alaoui, F. V. Coroniti, R. J. Walker, V. Perroomian, L. A. Frank, J. B. Sigwarth and W. R. Paterson, Trail Vortex Flows During Substorms, EOS, 83(47), 1195, 2002.
195. Kaufmann, R. L., W. R. Paterson and L. A. Frank, Magnetic Moments and Temperatures in the Plasma Sheet, EOS, 83(47), 1203, 2002.

2003

196. 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.

197. Kaufmann, R. L., W. R. Paterson and L. A. Frank, Relationships Between the Flux Tube Volume, Content, Plasma Pressure, and Density in the Plasma Sheet, EOS, 84(46), 1263, 2003.

2004

198. Slinker, S. P., J. A. Fedder, D. G. Sibeck, J. G. Lyon, L. A. Frank and T. Mukai, Global MHD Simulation of Observed Magnetopause Waves, presented at the 2004 National Radio Science Meeting (URSI), Boulder, Colorado, 4-8 January 2004.
199. Kaufmann, R. L., W. R. Paterson and L. A. Frank, Correlations of Plasma and Field Parameters Within the Magnetotail, Eos Trans. AGU, 85(47), Fall Meet. Suppl., Abstract SM13C-01, 2004.

2005

200. 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.

2006

201. Paterson, W. R., and K. L. Ackerson, Multi-Spacecraft Observations of Small Substorms Eos Trans. AGU, 87 (36), Jt. Assem. Suppl., Abstract SM41C-01, 2006.
202. Kaufmann, R. L., and W. R. Paterson, Heat Fluxes in the Plasma Sheet, Eos Trans. AGU, 87 (52), Fall Meet Suppl., Abstract SM33B-0357, 2006.

2008

203. Kaufman, R. L., and W. R. Paterson, The Boltzmann H function and Entropy in the Plasma Sheet, Eos Trans. AGU, 89 (53), Fall Meet Suppl., Abstract SM24A-024, 2008.

2010

204. Kaufman, R. L., and W. R. Paterson, Entropy Gradients in the Plasma Sheet, Eos Trans. AGU, 90 (52), Fall Meet Suppl., Abstract SM43A-1739, 2010.