

## Geotail/CPI Publications

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### 1994

1. Frank, L. A., K. L. Ackerson, W. R. Paterson, J. A. Lee, M. R. English and G. L. Pickett, The Comprehensive Plasma Instrumentation (CPI) for the Geotail Spacecraft, J. Geomag. and Geoelectr., 46, 23-37, 1994.
2. Kokubun, S., H. Kawano, M. Nakamura, T. Yamamoto, K. Tsuruda, H. Hayakawa, A. Matsuoka and L. A. Frank, Quasi-periodic Oscillations of the Magnetopause During Northward Sheath Magnetic Field, Geophys. Res. Lett., 21, 2883-2886, 1994.
3. Kojima, H., H. Matsumoto, T. Miyatake, I. Nagano, A. Fujita, L. A. Frank, T. Mukai, W. R. Paterson, Y. Saito, S. Machida and R. R. Anderson, Relation Between Electrostatic Solitary Waves and Hot Plasma Flow in the Plasma Sheet Boundary Layer: GEOTAIL Observations, Geophys. Res. Lett., 21, 2919-2922, 1994.
4. Frank, L. A. and W. R. Paterson, Survey of Electron and Ion Bulk Flows in the Distant Magnetotail With the Geotail Spacecraft, Geophys. Res. Lett., 21, 2963-2966, 1994.
5. 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 Signature of a Plasmoid in the Distant Magnetotail, Geophys. Res. Lett., 21, 2967-2970, 1994.
6. Paterson, W. R. and L. A. Frank, Survey of Plasma Parameters in Earth's Distant Magnetotail With the Geotail Spacecraft, Geophys. Res. Lett., 21, 2971-2974, 1994.
7. Siscoe, G. L., L. A. Frank, K. L. Ackerson and W. R. Paterson, Properties of the Mantle-Like Magnetotail Boundary Layer: GEOTAIL Data Compared With a Mantle Model, Geophys. Res. Lett., 21, 2975-2978, 1994.
8. Siscoe, G. L., L. A. Frank, K. L. Ackerson and W. R. Paterson, Irregular, Long-Period Boundary Oscillations Beyond  $\sim 100 R_e$ : GEOTAIL Plasma Observations, Geophys. Res. Lett., 21, 2979-2982, 1994.
9. Williams, D. J., A. T. Y. Lui, R. W. McEntire, V. Angelopoulos, C. Jacquey, S. P. Christon, L. A. Frank, K. L. Ackerson, W. R. Paterson, S. Kokubun, T. Yamamoto and

D. H. Fairfield, Magnetopause Encounters in the Magnetotail at Distances of  $\sim 80 R_e$ , Geophys. Res. Lett., 21, 3007-3010, 1994.

10. Lui, A. T. Y., D. J. Williams, R. W. McEntire, S. P. Christon, C. Jacquey, V. Angelopoulos, T. Yamamoto, S. Kokubun, L. A. Frank, K. L. Ackerson and K. Tsuruda, A Filament of Energetic Particles Near the High-Latitude Dawn Magnetopause, Geophys. Res. Lett., 21, 3011-3014, 1994.
11. 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.

## 1995

12. Frank, L. A., M. Ashour-Abdalla, J. Berchem, J. Raeder, W. R. Paterson, S. Kokubun, T. Yamamoto, R. P. Lepping, F. V. Coroniti, D. H. Fairfield and K. L. Ackerson, Observations of Plasmas and Magnetic Fields in Earth's Distant Magnetotail: Comparison with a Global MHD Model, J. Geophys. Res., 100, 19,177-19,190, 1995.
13. Sugiyama, T., T. Terasawa, H. Kawano, T. Yamamoto, S. Kokubun, L. A. Frank, K. L. Ackerson and B. T. Tsurutani, Attenuation Distance of Low Frequency Waves Upstream of the Pre-Dawn Bow Shock: GEOTAIL and ISEE 3 Comparison, Geophys. Res. Lett., 22, 81-84, 1995.
14. Lepping, R. P., D. H. Fairfield, J. Jones, L. A. Frank, W. R. Paterson, S. Kokubun and T. Yamamoto, Cross-Tail Magnetic Flux Ropes as Observed by the GEOTAIL Spacecraft, Geophys. Res. Lett., 22, 1193-1196, 1995.
15. Hammond, C. M., G. K. Crawford, J. T. Gosling, H. Kojima, J. L. Phillips, H. Matsumoto, A. Balogh, L. A. Frank, S. Kokubun and T. Yamamoto, Latitudinal Structure of a Coronal Mass Ejection Inferred from Ulysses and Geotail Observations, Geophys. Res. Lett., 22, 1169-1172, 1995.
16. Frank, L. A., W. R. Paterson, S. Kokubun, T. Yamamoto and R. P. Lepping, Direct Detection of the Current in a Magnetotail Flux Rope, Geophys. Res. Lett., 22, 2697-2700, 1995.
17. Seon, J., L. A. Frank, W. R. Paterson, J. D. Scudder, F. V. Coroniti, S. Kokubun and T. Yamamoto, Observations of a Slow-Mode Shock at the Lobe-Plasma Sheet Boundary in Earth's Distant Magnetotail, Geophys. Res. Lett., 22, 2981-2984, 1995.

18. Kaymaz, Z., H. E. Petschek, G. L. Siscoe, L. A. Frank, K. L. Ackerson and W. R. Paterson, Disturbance Propagation Times to the Far Tail, Geophys. Res. Lett., 100, 23,743-23,748, 1995.

## 1996

19. Shodhan, S., G. L. Siscoe, L. A. Frank, K. L. Ackerson, W. R. Paterson, D. Fairfield, S. Kokubun and T. Yamamoto, Mantle Crossings at Geotail: Comparison with MHD Model, J. Geophys. Res., 101, 153-159, 1996.
20. Ashour-Abdalla, M., L. A. Frank, W. R. Paterson, V. Perroomian and L. M. Zelenyi, Proton Velocity Distributions in the Magnetotail: Theory and Observations, J. Geophys. Res., 101, 2587-2598, 1996.
21. Ashour-Abdalla, M., L. M. Zelenyi, V. Perroomian, L. A. Frank and W. R. Paterson, Coarse-Grained Texture of Ion Distributions in the Magnetotail: A Fractal-Like Approach, J. Geophys. Res., 101, 15,287-15,296, 1996.
22. 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, J. Geophys. Res., 101, 10,627-10,637, 1996.
23. Fairfield, D. H., R. P. Lepping, L. A. Frank, K. L. Ackerson, W. R. Paterson, S. Kokubun, T. Yamamoto, K. Tsuruda and M. Nakamura, Geotail Observations of an Unusual Magnetotail Under Very Northward IMF Conditions, J. Geomag. Geoelectr., 48, 473-487, 1996.
24. Kokubun, S., L. A. Frank, K. Hayashi, Y. Kamide, R. P. Lepping, T. Mukai, R. Nakamura, W. R. Paterson, T. Yamamoto and K. Yumoto, Large Field Events in the Distant Magnetotail During Magnetic Storms, J. Geomag. Geoelectr., 48, 561-575, 1996.
25. Nakamura, R., S. Kokubun, Y. Kamide, T. Yamamoto, L. A. Frank, W. R. Paterson, E. Friis-Christensen, K. Hayashi, T. Iyemori, K. Yumoto, H. Lühr and O. A. Troshichev, Observations of the Magnetosheath Near the Nominal Tail Axis During the Geomagnetic Storm of January 25, 1993, J. Geomag. Geoelectr., 48, 577-588, 1996.
26. Greenwald, R. A., J. M. Ruohoniemi, W. A. Bristow, G. J. Sofko, J.-P. Villain, A. Huuskonen, S. Kokubun and L. A. Frank, Mesoscale Dayside Convection Vortices and Their Relation to Substorm Phase, J. Geophys. Res., 101, 21,697-21,713, 1996.
27. Seon, J., L. A. Frank, W. R. Paterson, J. D. Scudder, F. V. Coroniti, S. Kokubun and T. Yamamoto, Observations of Slow-Mode Shocks in Earth's Distant Magnetotail With the Geotail Spacecraft, J. Geophys. Res., 101, 27,383-27,398, 1996.

28. Seon, J., L. A. Frank, W. R. Paterson, J. D. Scudder, F. V. Coroniti, S. Kokubun and T. Yamamoto, Observations of Ion and Electron Velocity Distributions Associated With Slow-Mode Shocks in Earth's Distant Magnetotail, *J. Geophys. Res.*, **101**, 27,399-27,411, 1996.
29. 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, *Adv. Space Res.*, **18**, (8)17-(8)26, 1996.
30. Shodhan, S., G. L. Siscoe, L. A. Frank, K. L. Ackerson and W. R. Paterson, Boundary Oscillations at Geotail: Windsock, Breathing and Wrenching, *J. Geophys. Res.*, **101**, 2577-2586, 1996.

## 1997

31. Raeder, J., J. Berchem, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto and J. A. Slavin, Boundary Layer Formation in the Magnetotail: Geotail Observations and Comparisons With a Global MHD Simulation, *Geophys. Res. Lett.*, **24**, 951-954, 1997.
32. Frank, L. A., W. R. Paterson, S. Kokubun, T. Yamamoto, R. P. Lepping and K. W. Ogilvie, Observations of a Current Pulse in the Near-Earth Plasma Sheet During a Substorm Onset, *Geophys. Res. Lett.*, **24**, 967-970, 1997.
33. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, J. Raeder, R. J. Walker, R. L. Richard, L. M. Zelenyi, L. A. Frank, W. R. Paterson, J. M. Bosqued, R. P. Lepping and K. Ogilvie, Ion Sources and Acceleration Mechanisms Inferred From Local Distribution Functions, *Geophys. Res. Lett.*, **24**, 955-958, 1997.
34. 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, *Proc. of ISAP '96*, pp. 717-720, Chiba, Japan.
35. 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 Flux Variations Associated with Geomagnetic Activity From EPIC/STICS on Geotail, Third International Conference on Substorms (ICS-3), Versailles, France, 12-17 May 1996 (ESA SP-389, October 1996, pp. 527-532).

36. Seon, J., L. A. Frank, W. R. Paterson, J. D. Scudder, F. V. Coroniti, S. Kokubun and T. Yamamoto, Correction to Observations of Ion and Electron Velocity Distributions Associated With Slow-Mode Shocks in Earth's Distant Magnetotail, *J. Geophys. Res.*, 102, 2435, 1997 (correction due to publisher's error).

## 1998

37. Berchem, J., J. Raeder, M. Ashour-Abdalla, L. A. Frank, W. R. Paterson, K. L. Ackerson, S. Kokubun, T. Yamamoto and R. P. Lepping, Large-Scale Dynamics of the Magnetospheric Boundary: Comparisons Between Global MHD Simulation Results and ISTP Observations, in Geospace Mass and Energy Flow: Results From the International Solar-Terrestrial Physics Program, *Geophys. Monogr. Ser.*, vol. 104, pp. 247-260, AGU, Washington, D.C., 1998.
38. 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 from a Global Magnetohydrodynamic Simulation, *J. Geophys. Res.*, 103, 9121-9141, 1998.
39. Frank, L. A., W. R. Paterson, S. Kokubun and T. Yamamoto, Advances in the Physics of Earth's Magnetotail, in New Perspectives on the Earth's Magnetotail, *Geophys. Monogr. Ser.*, vol. 105, pp. 167-180, AGU, Washington, D.C., 1998.
40. Paterson, W. R., L. A. Frank, S. Kokubun and T. Yamamoto, Geotail Survey of Ion Flow in the Plasma Sheet: Observations Between 10 and 50  $R_E$ , *J. Geophys. Res.*, 103, 11,811-11,825, 1998.
41. El-Alaoui, M., M. Ashour-Abdalla, J. Raeder, V. Perroomian, L. A. Frank, W. R. Paterson and J. M. Bosqued, Modeling Magnetotail Ion Distributions with Global Magnetohydrodynamic and Ion Trajectory Calculations, in Geospace Mass and Energy Flow: Results From the International Solar-Terrestrial Physics Program, *Geophys. Monogr. Ser.*, vol. 104, pp. 291-296, AGU, Washington, D.C., 1998.
42. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, J. Raeder, R. L. Richard, R. J. Walker, L. M. Zelenyi, L. A. Frank, W. R. Paterson, J. M. Bosqued, R. P. Lepping, K. Ogilvie, S. Kokubun and T. Yamamoto, Determination of Particle Sources for a Geotail Distribution Function Observed on May 23, 1995, in Geospace Mass and Energy Flow: Results From the International Solar-Terrestrial Physics Program, *Geophys. Monogr. Ser.*, vol. 104, pp. 297-312, AGU, Washington, D.C., 1998.
43. Paterson, W. R., L. A. Frank, S. Kokubun and T. Yamamoto, Geotail Observations of Current Systems in the Plasma Sheet, in Geospace Mass and Energy Flow: Results

From the International Solar-Terrestrial Physics Program, Geophys. Monogr. Ser., vol. 104, pp. 201-211, AGU, Washington, D.C., 1998.

44. Whipple, E. C., J. S. Halekas, J. D. Scudder, W. R. Paterson, L. A. Frank, R. B. Sheldon, N. C. Maynard, D. R. Weimer, C. T. Russell, K. Tsuruda, H. Hayakawa and T. Yamamoto, Identification of Magnetospheric Particles that Travel Between Spacecraft and Their Use to Help Obtain Magnetospheric Potential Distributions, J. Geophys. Res., 103, 93-102, 1998.
45. Eastman, T. E., S. P. Christon, T. Doke, L. A. Frank, G. Gloeckler, H. Kojima, S. Kokubun, A. T. Y. Lui, H. Matsumoto, R. W. McEntire, T. Mukai, W. R. Paterson, E. C. Roelof, Y. Saito, K. Tsuruda, D. J. Williams and T. Yamamoto, Magnetospheric Plasma Regimes Identified Using Geotail Measurements, 1. Regime Identification and Distant Tail Variability, J. Geophys. Res., 103, 23,503-23,520, 1998.
46. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, J. Raeder, R. J. Walker, L. A. Frank and W. R. Paterson, Sources and Transport of Plasma Sheet Ions During Magnetospheric Substorms, in Substorms-4, International Conference on Substorms-4, Lake Hamana, Japan, March 9-13, 1998, eds. S. Kokubun and Y. Kamide, pp. 479-484, Terra Scientific Publishing Company, Tokyo, Japan, 1998.
47. El-Alaoui, M., M. Ashour-Abdalla, J. Raeder, L. A. Frank and W. R. Paterson, A Study of Transport in the Near-Earth Plasma Sheet During a Substorm Using Time-Dependent Large Scale Kinetics, in Substorms-4, International Conference on Substorms-4, Lake Hamana, Japan, March 9-13, 1998, eds. S. Kokubun and Y. Kamide, pp. 567-572, Terra Scientific Publishing Company, Tokyo, Japan, 1998.
48. Christon, S. P., T. E. Eastman, T. Doke, L. A. Frank, G. Gloeckler, H. Kojima, S. Kokubun, A. T. Y. Lui, H. Matsumoto, R. W. McEntire, T. Mukai, S. R. Nylund, W. R. Paterson, E. C. Roelof, Y. Saito, T. Sotirelis, K. Tsuruda, D. J. Williams and T. Yamamoto, Magnetospheric Plasma Regimes Identified Using Geotail Measurements, 2. Statistics, Spatial Distribution, and Geomagnetic Dependence, J. Geophys. Res., 103, 23,521-23,542, 1998.

## 1999

49. Seon, J., S. M. Park, K. W. Min, L. A. Frank, W. R. Paterson and K. W. Ogilvie, Observations of Density Fluctuations in Earth's Magnetosheath with Geotail and Wind Spacecraft, Geophys. Res. Lett., 26, 959-962, 1999.
50. 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, *J. Geophys. Res.*, **104**, 4477-4484, 1999.

51. 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, Microscopic Processes in Space Plasmas and Their Role in Macroscale Phenomena, *Adv. Space Res.*, **24**(1), 91-94, 1999.
52. Matsumoto, H., L. A. Frank, Y. Omura, H. Kojima, W. R. Paterson, M. Tsutsui, R. R. Anderson, S. Horiyama, S. Kokubun and T. Yamamoto, Generation Mechanism of ESW Based on GEOTAIL Plasma Wave Observation, Plasma Observation and Particle Simulation, *Geophys. Res. Lett.*, **26**, 421-424, 1999.
53. Holland, D. L., W. R. Paterson, L. A. Frank, S. Kokubun and T. Yamamoto, Signatures of Nonlinear Charged Particle Dynamics in Geotail Comprehensive Plasma Instrument Observations, *J. Geophys. Res.*, **104**, 2479-2485, 1999.
54. Yin, L., M. Ashour-Abdalla, R. L. Richard, L. A. Frank and W. R. Paterson, Generation of Electrostatic Waves by Discontinuous Electron Distributions, *J. Geophys. Res.*, **104**, 12,415-12,429, 1999.
55. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, R. J. Walker, J. Raeder, L. A. Frank and W. R. Paterson, Source Distributions of Substorm Ions Observed in the Near-Earth Magnetotail, *Geophys. Res. Lett.*, **26**, 955-958, 1999.
56. Paterson, W. R. and L. A. Frank, Reply to "Comment on 'Geotail Survey of Ion Flow in the Plasma Sheet: Observations Between 10 and 50 R<sub>E</sub>,' by W. R. Paterson and L. A. Frank" by V. Angelopoulos, *J. Geophys. Res.*, **104**, 17,527-17,529, 1999.
57. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, J. Raeder, R. J. Walker, L. A. Frank and W. R. Paterson, Origins and Transport of Ions During Magnetospheric Substorms, in *Sun-Earth Plasma Connections*, *Geophys. Monogr. Ser.*, vol. 109, pp. 183-193, AGU, Washington, D.C., 1999.
58. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, R. J. Walker, L. M. Zelenyi, L. A. Frank and W. R. Paterson, Localized Reconnection and Substorm Onset on Dec. 22, 1996, *Geophys. Res. Lett.*, **26**, 3545-3548, 1999.

## 2000

59. Frank, L. A., W. R. Paterson, J. B. Sigwarth and S. Kokubun, Observations of Magnetic Field Dipolarization During Auroral Substorm Onset, *J. Geophys. Res.*, **105**, 15,897-15,912, 2000.

60. Ashour-Abdalla, M., M. El-Alaoui, V. Perroomian, R. J. Walker, J. Raeder, L. A. Frank and W. R. Paterson, The Origin of the Near-Earth Plasma Population During a Substorm on November 24, 1996, *J. Geophys. Res.*, 105, 2589-2605, 2000.
61. Phan, T. D., L. M. Kistler, B. Klecker, G. Haerendel, G. Paschmann, B. U. Ö. Sonnerup, W. Baumjohann, M. B. Bavassano-Cattaneo, C. W. Carlson, A. M. DiLellis, K.-H. Fornacon, L. A. Frank, M. Fujimoto, E. Georgescu, S. Kokubun, E. Moebius, T. Mukai, M. Øieroset, W. R. Paterson and H. Reme, Extended Magnetic Reconnection at the Earth's Magnetopause From Detection of Bi-directional Jets, *Nature*, 404, 848-850, 2000.
62. Lui, A. T. Y., K. Liou, P. T. Newell, C. I. Meng, S. Ohtani, R. W. McEntire, N. J. Fox, R. P. Lepping, W. R. Paterson, J. B. Sigwarth, L. A. Frank, S. Kokubun, G. K. Parks, T. Moretto, and K. Yumoto, Conjunction of Tail Satellites for Substorm Study: ISTP Event of 1997 January 2, *Geophys. Res. Lett.*, 27, 1831-1834, 2000.
63. Terasawa, T., Y. Kasaba, K. Tsubouchi, T. Mukai, Y. Saito, L. A. Frank, W. R. Paterson, K. Ackerson, H. Matsumoto, H. Kojima, H. Matsui, D. Larson, R. Lin, T. Phan, J. Steinberg, D. McComas, R. Skoug, M. Fujimoto, M. Hoshino and A. Nishida, GEOTAIL Observations of Anomalously Low Density Plasma in the Magnetosheath, *Geophys. Res. Lett.*, 27, 3781-3784, 2000.

## 2001

64. Raeder, J., R. L. McPherron, L. A. Frank, S. Kokubun, G. Lu, T. Mukai, W. R. Paterson, J. B. Sigwarth, H. Singer, and J. A. Slavin, Global Simulation of the Geospace Environment Modeling Substorm Challenge Event, *J. Geophys. Res.*, 106, 381-395, 2001.
65. Frank, L. A., J. B. Sigwarth, W. R. Paterson and S. Kokubun, Two Encounters of the Substorm Onset Region With the Geotail Spacecraft, *J. Geophys. Res.*, 106, 5811-5831, 2001.
66. Kaufmann, R. L., B. M. Ball, W. R. Paterson and L. A. Frank, Plasma Sheet Thickness and Electric Currents, *J. Geophys. Res.*, 106, 6179-6193, 2001.
67. Kojima, H., M. Ashour-Abdalla, W. R. Paterson, H. Matsumoto, L. A. Frank, R. R. Anderson, R. L. Richard, S. Kokubun and T. Yamamoto, Generation of the Narrowband Electrostatic Noise in the Geomagnetic Tail: Geotail Observations, *J. Geophys. Res.*, 106, 8483-8488, 2001.
68. Frank, L. A., W. R. Paterson, J. B. Sigwarth and T. Mukai, Observations of Plasma Sheet Dynamics Earthward of the Onset Region With the Geotail Spacecraft, *J. Geophys. Res.*, 106, 18,823-18,841, 2001.



69. Lepping, R. P., D. B. Berdichevsky, L. F. Burlaga, A. J. Lazarus, J. Kasper, M. D. Desch, C.-C. Wu, D. V. Reames, H. J. Singer, C. W. Smith and K. L. Ackerson, The Bastille Day Magnetic Clouds and Upstream Shocks: Near-Earth Interplanetary Observations, Solar Phys., 204, 287-305, 2001.
70. Phan, T. D., M. P. Freeman, L. M. Kistler, B. Klecker, G. Haerendel, G. Paschmann, B. U. Ö. Sonnerup, W. Baumjohann, M. B. Bavassano-Cattaneo, C. W. Carlson, A. M. DiLellis, K.-H. Fornacon, L. A. Frank, M. Fujimoto, E. Georgescu, S. Kokubun, E. Moebius, T. Mukai, W. R. Paterson and H. Reme, Evidence for an Extended Reconnection Line at the Dayside Magnetopause, Earth Planets and Space, 53 (6), 619-625, 2001.
71. Lepping, R. P., D. B. Berdichevsky, L. F. Burlaga, A. J. Lazarus, J. Kasper, M. D. Desch, C.-C. Wu, D. V. Reames, H. J. Singer, C. W. Smith and K. L. Ackerson, The Bastille Day Magnetic Clouds and Upstream Shocks: Near-Earth Interplanetary Observations, Sol. Phys., 204, 287-305, 2001.

## 2002

72. Huang, C.-Song, J. C. Foster, P. Song, G. J. Sofko, L. A. Frank and W. R. Paterson, Geotail Observations of Magnetospheric Midtail During an Extended Period of Strongly Northward Interplanetary Magnetic Field, Geophys. Res. Lett., 29(4), DOI 10.1029/2001GL014170, 2002.
73. Kaufmann, R. L., C. Lu, W. R. Paterson and L. A. Frank, Three-Dimensional Analyses of Electric Currents and Pressure Anisotropies in the Plasma Sheet, J. Geophys. Res., 107(A7), 1103, DOI 10.1029/2001JA000288, 2002.
74. Ohtani, S., R. Yamaguchi, H. Kawano, F. Creutzberg, H. Singer, J. B. Sigwarth and L. A. Frank, Does the Fast Plasma Sheet Flow Trigger a Substorm?: A Study of the August 14, 1996, Event, Geophys. Res. Lett., 29(15), 1721, DOI 10.1029/2001GL013785, 2002.
75. Frank, L. A., W. R. Paterson and J. B. Sigwarth, Observations of Plasma Injection Into the Ring Current During Substorm Expansive Phase, J. Geophys. Res., 107(A11), 1343, DOI 10.1029/2001JA000169, 2002.
76. Lu, G., E. F. Donovan, T. Nagai, T. Mukai, D. Lummerzheim, G. K. Parks, L. A. Frank, H. J. Singer, M. B. Moldwin, J. L. Posch, M. J. Engebretson and J. Watermann, Substorm Development as Seen Through Coordinated Multi-Instrument Observations, in Sixth International Conference on Substorms, University of Washington, Seattle, March 25-29, 2002, ed. R. M. Winglee, pp. 63-70, University of Washington press, 2002.

## 2003

77. Kaufmann, R. L., W. R. Paterson and L. A. Frank, Birkeland Currents in the Plasma Sheet, *J. Geophys. Res.*, **108**(A7), 1299, DOI 10.1029/2002JA009665, 2003.
78. Slinker, S. P., J. A. Fedder, D. G. Sibeck, J. G. Lyon, L. A. Frank and T. Mukai, Simulation of Magnetopause Oscillations Observed January 9, 1996, *Geophys. Res. Lett.*, **30**(11), 1569, DOI 10.1029/2003GL017063, 2003.

## 2004

79. Kaufmann, R. L., W. R. Paterson and L. A. Frank, Magnetization of the Plasma Sheet, *J. Geophys. Res.*, **109**, A09212, DOI 10.1029/2003JA010148, 2004.
80. Kaufmann, R. L., W. R. Paterson and L. A. Frank, Pressure, Volume, Density Relationships in the Plasma Sheet, *J. Geophys. Res.*, **109**, A08204, DOI 10.1029/2003JA010317, 2004.

## 2005

81. Ball, B. M., R. L. Kaufmann, W. R. Paterson and L. A. Frank, Nonadiabatic Orbit Features in Ion Distribution Functions of Fast Flow Magnetotail Configurations, *J. Geophys. Res.*, **110**, A04208, DOI 10.1029/2004JA010676, 2005.
82. Dmitriev, A., J. K. Chao, A. Suvorova, K. L. Ackerson, K. Ishisaka, Y. Kasaba, H. Kojima and H. Matsumoto, Indirect Estimation of the Solar Wind Conditions in 29-31 October 2003, accepted for publication, *J. Geophys. Res.*, 2005.

## 2006

83. Kaufmann, R. L., and W. R. Paterson, Magnetic flux and particle transport in the plasma sheet, *J. Geophys. Res.*, **111**, A10214, doi:10.1029/2006JA011734, 2006.
84. Holland, D. L., B. H. Richards, I. H. M. Ronquist, J. A. Ansher, W. R. Paterson, and L. A. Frank, Determination of the Quiet Time Current Sheet Thickness Using Geotail CPI Data and Nonlinear Dynamics Modeling, *J. Geophys. Res.*, **111**, A06207, doi:10.1029/2005JA011354, 2006.
85. Phan, T. D., H. Hasegawa, M. Fujimoto, M. Oieroset, T. Mukai, R. P. Lin, and W. R. Paterson, Simultaneous Geotail and Wind Observations of Reconnection at the Subsolar and Tail Flank Magnetopause, *Geophys. Res. Lett.*, **33**, L09104, doi:10.1029/2006GL025756, 2006.

## 2008

86. Kaufmann, R. L., and W. R. Paterson (2008), Ion Heat Flux and Energy Transport near the Magnetotail Neutral Sheet, *J. Geophys. Res.*, **113**, A05207, doi:10.1029/2007JA012929.

87. Holland, D. L., C. J. Bush, and W. R. Paterson (2008), Effects of Magnetospheric Activity on the Current Sheet Energy Resonance Ion Distribution Function Signature, *J. Geophys. Res.*, 113, A09222, doi:10.1029/2008JA013357.