

**List of Refereed Publications**  
**Wind Spacecraft: 2004**

## References

- [1] Arge, C. N., J. G. Luhmann, D. Odstrcil, C. J. Schrijver, and Y. Li (2004), Stream structure and coronal sources of the solar wind during the May 12th, 1997 CME, *J. Atmos. Solar-Terr. Phys.*, *66*, 1295–1309, doi:10.1016/j.jastp.2004.03.018.
- [2] Bamert, K., R. Kallenbach, R. F. Wimmer-Schweingruber, M. Hilchenbach, and B. Klecker (2004), Suprathermal ions of solar and interstellar origin associated with the April 9-12, 2001, CMEs, *Adv. Space Res.*, *34*, 161–165, doi:10.1016/j.asr.2003.01.036.
- [3] Bastian, T. S. (2004), Radio Emission from the Sun and Stars: New Insights into Energetic Phenomena, in *Stars as Suns : Activity, Evolution and Planets, IAU Symposium*, vol. 219, edited by A. K. Dupree & A. O. Benz, pp. 145–+.
- [4] Bastian, T. S. (2004), Low-frequency solar radiophysics with LOFAR and FASR, *Planet. Space Sci.*, *52*, 1381–1389, doi:10.1016/j.pss.2004.09.015.
- [5] Bothmer, V. (2004), The Solar and Interplanetary Causes of Space Storms in Solar Cycle 23, *IEEE Trans. Plasma Sci.*, *32*, 1411–1414, doi:10.1109/TPS.2004.830990.
- [6] Boudouridis, A., E. Zesta, L. Lyons, P. Anderson, and D. Lummerzheim (2004), Magnetospheric reconnection driven by solar wind pressure fronts, *Ann. Geophys.*, *22*, 1367–1378, doi:10.5194/angeo-22-1367-2004.
- [7] Burr, T., A. Jacobson, and A. Mielke (2004), A global radio frequency noise survey as observed by the FORTE satellite at 800 km altitude, *Radio Sci.*, *39*, RS4005, doi:10.1029/2002RS002865.
- [8] Caroubalos, C., A. Hillaris, C. Bouratzis, C. E. Alissandrakis, P. Preka-Papadema, J. Polygiannakis, P. Tsitsipis, A. Kontogeorgos, X. Moussas, J.-L. Bougeret, G. Dumas, and C. Perche (2004), Solar type II and type IV radio bursts observed during 1998-2000 with the ARTEMIS-IV radiospectrograph, *Astron. & Astrophys.*, *413*, 1125–1133, doi:10.1051/0004-6361:20031497.
- [9] Chisham, G., M. Freeman, I. Coleman, M. Pinnock, M. Hairston, M. Lester, and G. Sofko (2004), Measuring the dayside reconnection rate during an interval of due northward interplanetary magnetic field, *Ann. Geophys.*, *22*, 4243–4258, doi:10.5194/angeo-22-4243-2004.
- [10] Cid, C., M. A. Hidalgo, E. Saiz, Y. Cerrato, and J. Sequeiros (2004), Sources of intense geomagnetic storms over the rise of solar cycle 23, *Solar Phys.*, *223*, 231–243, doi:10.1007/s11207-004-1243-3.
- [11] Clack, D., J. C. Kasper, A. J. Lazarus, J. T. Steinberg, and W. M. Farrell (2004), Wind observations of extreme ion temperature anisotropies in the lunar wake, *Geophys. Res. Lett.*, *310*, L06,812, doi:10.1029/2003GL018298.

**List of Refereed Publications**  
**Wind Spacecraft: 2004**

- [12] Cline, T. L., S. D. Barthelmy, K. C. Hurley, D. Anfimov, I. Mitrofanov, S. Golenetskii, E. Mazets, G. Crew, G. Ricker, and J.-. Atteia (2004), The Interplanetary Gamma-Ray Burst Network in 2002-3, in *Astronomical Society of the Pacific Conference Series, Astronomical Society of the Pacific Conference Series*, vol. 312, edited by M. Feroci, F. Frontera, N. Masetti, & L. Piro, pp. 517–+.
- [13] Cliver, E. W., S. W. Kahler, and D. V. Reames (2004), Coronal Shocks and Solar Energetic Proton Events, *Astrophys. J.*, *605*, 902–910, doi:10.1086/382651.
- [14] Cliver, E. W., N. V. Nitta, B. J. Thompson, and J. Zhang (2004), Coronal Shocks of November 1997 Revisited: The Cme Type II Timing Problem, *Solar Phys.*, *225*, 105–139, doi:10.1007/s11207-004-3258-1.
- [15] Crooker, N. U., C.-L. Huang, S. M. Lamassa, D. E. Larson, S. W. Kahler, and H. E. Spence (2004), Heliospheric plasma sheets, *J. Geophys. Res.*, *109*, A03,107, doi: 10.1029/2003JA010170.
- [16] Crooker, N. U., S. W. Kahler, D. E. Larson, and R. P. Lin (2004), Large-scale magnetic field inversions at sector boundaries, *J. Geophys. Res.*, *109*, A03,108, doi: 10.1029/2003JA010278.
- [17] Dal Lago, A., L. E. A. Vieira, E. Echer, W. D. Gonzalez, A. L. C. de Gonzalez, F. L. Guarnieri, N. J. Schuch, and R. Schwenn (2004), Comparison Between Halo cme Expansion Speeds Observed on the Sun, the Related Shock Transit Speeds to Earth and Corresponding Ejecta Speeds at 1 au, *Solar Phys.*, *222*, 323–328, doi: 10.1023/B:SOLA.0000043566.21049.82.
- [18] Dasso, S., C. H. Mandrini, A. M. Gulisano, and P. Démoulin (2005), A Direct Method to Estimate Magnetic Helicity in Magnetic Clouds, in *Coronal and Stellar Mass Ejections, IAU Symposium*, vol. 226, edited by K. Dere, J. Wang, & Y. Yan, pp. 403–408, doi: 10.1017/S1743921305000931.
- [19] Dewhurst, J., C. Owen, A. Fazakerley, and A. Balogh (2004), Thinning and expansion of the substorm plasma sheet: Cluster PEACE timing analysis, *Ann. Geophys.*, *22*, 4165–4184, doi:10.5194/angeo-22-4165-2004.
- [20] Dmitriev, A. V., and A. V. Suvorova (2004), Geosynchronous magnetopause crossings on October 29 31, 2003, *Cosmic Res.*, *42*, 551–560, doi:10.1007/s10604-005-0002-z.
- [21] Dmitrieva, N., V. Sergeev, and M. Shukhtina (2004), Average characteristics of the midtail plasma sheet in different dynamic regimes of the magnetosphere, *Ann. Geophys.*, *22*, 2107–2113, doi:10.5194/angeo-22-2107-2004.
- [22] Ebihara, Y., M. Ejiri, H. Nilsson, I. Sandahl, M. Grande, J. Fennell, J. Roeder, D. Weimer, and T. Fritz (2004), Multiple discrete-energy ion features in the inner magnetosphere: 9 February 1998, event, *Ann. Geophys.*, *22*, 1297–1304, doi:10.5194/angeo-22-1297-2004.

**List of Refereed Publications**  
**Wind Spacecraft: 2004**

- [23] Egedal, J., W. Fox, M. Porkolab, and A. Fasoli (2004), Experimental evidence of fast reconnection via trapped electron motion, *Phys. Plasmas*, *11*, 2844–2851, doi:10.1063/1.1687727.
- [24] Facskó, G. (2004), A Study of Solar Energetic Particle Events and Coronal Mass Ejections Using SOHO Data, *Publ. Astron. Dept. Eotvos Lorand University*, *14*, 57–64.
- [25] Farrugia, C., and D. Berdichevsky (2004), Evolutionary signatures in complex ejecta and their driven shocks, *Ann. Geophys.*, *22*, 3679–3698, doi:10.5194/angeo-22-3679-2004.
- [26] Farrugia, C. J., G. Gnavi, F. T. Gratton, H. Matsui, R. B. Torbert, R. P. Lepping, M. Oieroset, and R. P. Lin (2004), Electromagnetic ion cyclotron waves in the subsolar region under normal dynamic pressure: Wind observations and theory, *J. Geophys. Res.*, *109*, A02,202, doi:10.1029/2003JA010104.
- [27] Farrugia, C. J., P. E. Sandholt, R. B. Torbert, and N. Østgaard (2004), Temporal and spatial aspects of the cusp inferred from local and global ground- and space-based observations in a case study, *J. Geophys. Res.*, *109*, A04209, doi:10.1029/2003JA010121.
- [28] Feuerstein, W. M., D. E. Larson, J. G. Luhmann, R. P. Lin, S. W. Kahler, and N. U. Crooker (2004), Parameters of solar wind electron heat-flux pitch-angle distributions and IMF topologies, *Geophys. Res. Lett.*, *312*, L22,805, doi:10.1029/2004GL020529.
- [29] Fok, M.-C., T. E. Moore, M. R. Collier, and T. Tanaka (2004), Neutral atom imaging of solar wind interaction with the Earth and Venus, *J. Geophys. Res.*, *109*, A01,206, doi:10.1029/2003JA010094.
- [30] Francia, P., U. Villante, N. Adorante, and W. Gonzalez (2004), The storm-time ring current: a statistical analysis at two widely separated low-latitude stations, *Ann. Geophys.*, *22*, 3699–3705, doi:10.5194/angeo-22-3699-2004.
- [31] Frederiks, D. D., R. L. Aptekar, S. V. Golenetskii, V. N. Il’Inskii, E. P. Mazets, V. D. Palshin, and T. L. Cline (2004), Early Hard X-ray Afterglows of Short GRBs with Konus Experiments, in *Astronomical Society of the Pacific Conference Series, Astronomical Society of the Pacific Conference Series*, vol. 312, edited by M. Feroci, F. Frontera, N. Masetti, & L. Piro, pp. 197–+.
- [32] Freeman, M. P., and S. K. Morley (2004), A minimal substorm model that explains the observed statistical distribution of times between substorms, *Geophys. Res. Lett.*, *311*, L12,807, doi:10.1029/2004GL019989.
- [33] Ganushkina, N., T. Pulkkinen, M. Kubyshkina, H. Singer, and C. Russell (2004), Long-term evolution of magnetospheric current systems during storms, *Ann. Geophys.*, *22*, 1317–1334, doi:10.5194/angeo-22-1317-2004.
- [34] Génot, V., and S. Schwartz (2004), Spacecraft potential effects on electron moments derived from a perfect plasma detector, *Ann. Geophys.*, *22*, 2073–2080, doi:10.5194/angeo-22-2073-2004.

**List of Refereed Publications**  
**Wind Spacecraft: 2004**

- [35] Gnavi, G., C. J. Farrugia, and F. T. Gratton (2004), New Theoretical and Observational Results on Transverse Magnetic Fluctuations near the Magnetopause, *Brazilian J. Phys.*, *34*, 1797–1803.
- [36] Gopalswamy, N. (2004), Interplanetary Radio Bursts, in *Astrophysics and Space Science Library, Astrophysics and Space Science Library*, vol. 314, edited by D. E. Gary & C. U. Keller, pp. 305–+, doi:10.1007/1-4020-2814-8\_15.
- [37] Gopalswamy, N. (2004), Recent advances in the long-wavelength radio physics of the Sun, *Planet. Space Sci.*, *52*, 1399–1413, doi:10.1016/j.pss.2004.09.016.
- [38] Gopalswamy, N., S. Yashiro, A. Vourlidas, A. Lara, G. Stenborg, M. L. Kaiser, and R. A. Howard (2004), Coronal Mass Ejections When the Sun Went Wild, in *American Astronomical Society Meeting Abstracts #204*, *Bull. Amer. Astron. Soc.*, vol. 36, pp. 738–+.
- [39] Gopalswamy, N., S. Yashiro, S. Krucker, G. Stenborg, and R. A. Howard (2004), Intensity variation of large solar energetic particle events associated with coronal mass ejections, *J. Geophys. Res.*, *109*, A12,105, doi:10.1029/2004JA010602.
- [40] Gopalswamy, N., S. Nunes, S. Yashiro, and R. A. Howard (2004), Variability of solar eruptions during cycle 23, *Adv. Space Res.*, *34*, 391–396, doi:10.1016/j.asr.2003.10.054.
- [41] Guild, T., H. Spence, L. Kepko, M. Wiltberger, C. Goodrich, J. Lyon, and W. Jeffrey Hughes (2004), Plasma sheet climatology: Geotail observations and LFM model comparisons, *J. Atmos. Solar-Terr. Phys.*, *66*, 1351–1360, doi:10.1016/j.jastp.2004.03.021.
- [42] Gunell, H., M. Holmström, E. Kallio, P. Janhunen, and K. Dennerl (2004), X rays from solar wind charge exchange at Mars: A comparison of simulations and observations, *Geophys. Res. Lett.*, *312*, L22,801, doi:10.1029/2004GL020953.
- [43] Gurnett, D. A., W. S. Kurth, D. L. Kirchner, G. B. Hospodarsky, T. F. Averkamp, P. Zarka, A. Lecacheux, R. Manning, A. Roux, P. Canu, N. Cornilleau-Wehrin, P. Galopeau, A. Meyer, R. Boström, G. Gustafsson, J.-E. Wahlund, L. Åhlen, H. O. Rucker, H. P. Ladreiter, W. Macher, L. J. C. Woolliscroft, H. Alleyne, M. L. Kaiser, M. D. De-sch, W. M. Farrell, C. C. Harvey, P. Louarn, P. J. Kellogg, K. Goetz, and A. Pedersen (2004), The Cassini Radio and Plasma Wave Investigation, *Space Sci. Rev.*, *114*, 395–463, doi:10.1007/s11214-004-1434-0.
- [44] Hanlon, P. G., M. K. Dougherty, R. J. Forsyth, M. J. Owens, K. C. Hansen, G. Tóth, F. J. Crary, and D. T. Young (2004), On the evolution of the solar wind between 1 and 5 AU at the time of the Cassini Jupiter flyby: Multispacecraft observations of interplanetary coronal mass ejections including the formation of a merged interaction region, *J. Geophys. Res.*, *109*, A09S03, doi:10.1029/2003JA010112.
- [45] Hnat, B., S. C. Chapman, and G. Rowlands (2004), Scaling, asymmetry and a Fokker-Planck model of the fast and slow solar wind as seen by WIND, *Phys. Plasmas*, *11*, 1326–1332, doi:10.1063/1.1667500.

**List of Refereed Publications**  
**Wind Spacecraft: 2004**

- [46] Hospodarsky, G. B., W. S. Kurth, B. Cecconi, D. A. Gurnett, M. L. Kaiser, M. D. Desch, and P. Zarka (2004), Simultaneous observations of Jovian quasi-periodic radio emissions by the Galileo and Cassini spacecraft, *J. Geophys. Res.*, *109*, A09S07, doi:10.1029/2003JA010263.
- [47] Hubert, B., J. C. Gérard, S. A. Fuselier, S. B. Mende, and J. L. Burch (2004), Proton precipitation during transpolar auroral events: Observations with the IMAGE-FUV imagers, *J. Geophys. Res.*, *109*, A06,204, doi:10.1029/2003JA010136.
- [48] Hudson, M. K., B. T. Kress, J. E. Mazur, K. L. Perry, and P. L. Slocum (2004), 3D modeling of shock-induced trapping of solar energetic particles in the Earth's magnetosphere, *J. Atmos. Solar-Terr. Phys.*, *66*, 1389–1397, doi:10.1016/j.jastp.2004.03.024.
- [49] Kahler, S. W., N. U. Crooker, and D. E. Larson (2003), Parameterizing the Wind 3DP Heat Flux Electron Data, in *Solar Wind Ten, American Institute of Physics Conference Series*, vol. 679, edited by M. Velli, R. Bruno, F. Malara, & B. Bucci, pp. 172–175, doi:10.1063/1.1618569.
- [50] Kahler, S. W., H. Aurass, G. Mann, and A. Klassen (2005), The Production of Near-Relativistic Electrons by CME-Driven Shocks, in *Coronal and Stellar Mass Ejections, IAU Symposium*, vol. 226, edited by K. Dere, J. Wang, & Y. Yan, pp. 338–345, doi:10.1017/S1743921305000839.
- [51] Kartavykh, Y. Y., V. M. Ostryakov, E. Möbius, and M. A. Popecki (2004), The Influence of Nonthermal Particles and Radiation on the Charge State of Heavy Ions in Solar Cosmic Rays, *Astron. Rep.*, *48*, 759–768, doi:10.1134/1.1800176.
- [52] Kavanagh, A., M. Kosch, F. Honary, A. Senior, S. Marple, E. Woodfield, and I. McCrea (2004), The statistical dependence of auroral absorption on geomagnetic and solar wind parameters, *Ann. Geophys.*, *22*, 877–887, doi:10.5194/angeo-22-877-2004.
- [53] Kellogg, P. J., and S. D. Bale (2004), Nearly monochromatic waves in the distant tail of the Earth, *J. Geophys. Res.*, *109*, A04,223, doi:10.1029/2003JA010131.
- [54] Kessel, R., I. Mann, S. Fung, D. Milling, and N. O'Connell (2004), Correlation of Pc5 wave power inside and outside the magnetosphere during high speed streams, *Ann. Geophys.*, *22*, 629–641, doi:10.5194/angeo-22-629-2004.
- [55] Korotova, G., D. Sibeck, H. Singer, T. Rosenberg, and M. Engebretson (2004), Interplanetary magnetic field control of dayside transient event occurrence and motion in the ionosphere and magnetosphere, *Ann. Geophys.*, *22*, 4197–4202, doi:10.5194/angeo-22-4197-2004.
- [56] Krasnopolsky, V. A., J. B. Greenwood, and P. C. Stancil (2004), X-Ray and extreme ultraviolet emissions from comets, *Space Sci. Rev.*, *113*, 271–374, doi:10.1023/B:SPAC.0000046754.75560.80.

**List of Refereed Publications**  
**Wind Spacecraft: 2004**

- [57] Kress, B. T., M. K. Hudson, K. L. Perry, and P. L. Slocum (2004), Dynamic modeling of geomagnetic cutoff for the 23-24 November 2001 solar energetic particle event, *Geophys. Res. Lett.*, *310*, L04,808, doi:10.1029/2003GL018599.
- [58] Krimigis, S. M., D. G. Mitchell, D. C. Hamilton, S. Livi, J. Dandouras, S. Jaskulek, T. P. Armstrong, J. D. Boldt, A. F. Cheng, G. Gloeckler, J. R. Hayes, K. C. Hsieh, W.-H. Ip, E. P. Keath, E. Kirsch, N. Krupp, L. J. Lanzerotti, R. Lundgren, B. H. Mauk, R. W. McEntire, E. C. Roelof, C. E. Schlemm, B. E. Tossman, B. Wilken, and D. J. Williams (2004), Magnetosphere Imaging Instrument (MIMI) on the Cassini Mission to Saturn/Titan, *Space Sci. Rev.*, *114*, 233–329, doi:10.1007/s11214-004-1410-8.
- [59] Leamon, R. J., R. C. Canfield, S. L. Jones, K. Lambkin, B. J. Lundberg, and A. A. Pevtsov (2004), Helicity of magnetic clouds and their associated active regions, *J. Geophys. Res.*, *109*, A05,106, doi:10.1029/2003JA010324.
- [60] Lee, D.-Y., and L. R. Lyons (2004), Geosynchronous magnetic field response to solar wind dynamic pressure pulse, *J. Geophys. Res.*, *109*, A04,201, doi:10.1029/2003JA010076.
- [61] Lee, D.-Y., L. R. Lyons, and K. Yumoto (2004), Sawtooth oscillations directly driven by solar wind dynamic pressure enhancements, *J. Geophys. Res.*, *109*, A04,202, doi:10.1029/2003JA010246.
- [62] Leitner, M. (2004), The sheath of interplanetary magnetic clouds modelled as cylindrical force-free magnetic flux ropes: Helios and Wind observations, diploma Thesis Advisors: H.K. Biernat and C.J. Farrugia.
- [63] Lennartsson, O. W., H. L. Collin, and W. K. Peterson (2004), Solar wind control of Earth's H<sup>+</sup> and O<sup>+</sup> outflow rates in the 15-eV to 33-keV energy range, *J. Geophys. Res.*, *109*, A12,212, doi:10.1029/2004JA010690.
- [64] Lepreti, F., H. Isliker, K. Petraki, and L. Vlahos (2005), Quiet time particle acceleration in interplanetary space, *Astron. & Astrophys.*, *432*, 1049–1056, doi:10.1051/0004-6361:20041675.
- [65] Leubner, M. P. (2004), Fundamental issues on kappa-distributions in space plasmas and interplanetary proton distributions, *Phys. Plasmas*, *11*, 1308–1316, doi:10.1063/1.1667501.
- [66] Li, Y., and J. Luhmann (2004), Solar cycle control of the magnetic cloud polarity and the geoeffectiveness, *J. Atmos. Solar-Terr. Phys.*, *66*, 323–331, doi:10.1016/j.jastp.2003.12.001.
- [67] Liou, K., P. T. Newell, C.-I. Meng, C.-C. Wu, and R. P. Lepping (2004), On the relationship between shock-induced polar magnetic bays and solar wind parameters, *J. Geophys. Res.*, *109*, A06,306, doi:10.1029/2004JA010400.
- [68] Lointier, G., K.-L. Klein, and S. Hoang (2004), Sun-Earth Magnetic connection probed with radio bursts and magnetic field extrapolation, in *SF2A-2004: Semaine de*

**List of Refereed Publications**  
**Wind Spacecraft: 2004**

- l'Astrophysique Francaise*, edited by F. Combes, D. Barret, T. Contini, F. Meynadier, & L. Pagani, pp. 117–+.
- [69] Luhmann, J. G., S. C. Solomon, J. A. Linker, J. G. Lyon, Z. Mikic, D. Odstrcil, W. Wang, and M. Wiltberger (2004), Coupled model simulation of a Sun-to-Earth space weather event, *J. Atmos. Solar-Terr. Phys.*, *66*, 1243–1256, doi:10.1016/j.jastp.2004.04.005.
- [70] Maia, D. J. F., and M. Pick (2004), Revisiting the Origin of Impulsive Electron Events: Coronal Magnetic Restructuring, *Astrophys. J.*, *609*, 1082–1097, doi:10.1086/386319.
- [71] Malandraki, O. E., D. Lario, T. E. Sarris, N. Tsaggas, and E. T. Sarris (2005), Energetic Particle Tracing of Interplanetary CMEs: ULYSSES/HI-SCALE and ACE/EPAM Results, in *Coronal and Stellar Mass Ejections, IAU Symposium*, vol. 226, edited by K. Dere, J. Wang, & Y. Yan, pp. 361–366, doi:10.1017/S1743921305000864.
- [72] Mathews, J. T., I. R. Mann, I. J. Rae, and J. Moen (2004), Multi-instrument observations of ULF wave-driven discrete auroral arcs propagating sunward and equatorward from the poleward boundary of the duskside auroral oval, *Phys. Plasmas*, *11*, 1250–1259, doi:10.1063/1.1647137.
- [73] Mazets, E. P., R. L. Aptekar, D. D. Frederiks, S. V. Golenetskii, V. N. Il'Inskii, V. D. Palshin, T. L. Cline, and P. S. Butterworth (2004), Konus catalog of short GRBs, in *Astronomical Society of the Pacific Conference Series, Astronomical Society of the Pacific Conference Series*, vol. 312, edited by M. Feroci, F. Frontera, N. Masetti, & L. Piro, pp. 102–+.
- [74] McPherron, R. L., G. Siscoe, and N. Arge (2004), Probabilistic Forecasting of the 3-h ap Index, *IEEE Trans. Plasma Sci.*, *32*, 1425–1438, doi:10.1109/TPS.2004.833387.
- [75] Menk, F. W., I. R. Mann, A. J. Smith, C. L. Waters, M. A. Clilverd, and D. K. Milling (2004), Monitoring the plasmopause using geomagnetic field line resonances, *J. Geophys. Res.*, *109*, A04,216, doi:10.1029/2003JA010097.
- [76] Michalek, G., N. Gopalswamy, A. Lara, and P. K. Manoharan (2004), Arrival time of halo coronal mass ejections in the vicinity of the Earth, *Astron. & Astrophys.*, *423*, 729–736, doi:10.1051/0004-6361:20047184.
- [77] Milan, S. (2004), Dayside and nightside contributions to the cross polar cap potential: placing an upper limit on a viscous-like interaction, *Ann. Geophys.*, *22*, 3771–3777, doi:10.5194/angeo-22-3771-2004.
- [78] Nemecek, Z., J. Šimunek, J. Šafránková, and L. Prech (2004), Spatial and temporal variations of the high-altitude cusp precipitation, *Ann. Geophys.*, *22*, 2441–2450, doi:10.5194/angeo-22-2441-2004.
- [79] Nicastro, L., J. J. M. in't Zand, L. Amati, S. Golenetskii, A. Castro-Tirado, J. Gorosabel, D. Lazzati, E. Costa, M. De Pasquale, M. Feroci, J. Heise, E. Pian, L. Piro, C. Sánchez-Fernández, and P. Tristram (2004), Multiwavelength study of the very long GRB 020410, *Astron. & Astrophys.*, *427*, 445–452, doi:10.1051/0004-6361:20040516.

**List of Refereed Publications**  
**Wind Spacecraft: 2004**

- [80] Nowada, M., T. Sakurai, and T. Mukai (2004), GEOTAIL observation of tilted X-line formation during flux transfer events (FTEs) in the dayside magnetospheric boundary layers, *Ann. Geophys.*, *22*, 2907–2916, doi:10.5194/angeo-22-2907-2004.
- [81] Ohmi, T., M. Kojima, M. Tokumaru, K. Fujiki, and K. Hakamada (2004), Origin of the slow solar wind, *Adv. Space Res.*, *33*, 689–695, doi:10.1016/S0273-1177(03)00238-2.
- [82] Ohtani, S., G. Ueno, R. Yamaguchi, H. Singer, F. Creutzberg, K. Yumoto, K. Kitamura, and T. Mukai (2004), Tail dynamics during the growth phase of the 24 November 1996, substorm event: Near-Earth reconnection confined in the plasma sheet, *J. Geophys. Res.*, *109*, A05,211, doi:10.1029/2003JA010299.
- [83] Ohtani, S.-i., and J. Raeder (2004), Tail current surge: New insights from a global MHD simulation and comparison with satellite observations, *J. Geophys. Res.*, *109*, A01,207, doi:10.1029/2002JA009750.
- [84] Øieroset, M., D. L. Mitchell, T. D. Phan, R. P. Lin, D. H. Crider, and M. H. Acuña (2004), The Magnetic Field Pile-up and Density Depletion in the Martian Magnetosheath: A Comparison with the Plasma Depletion Layer Upstream of the Earth’s Magnetopause, *Space Sci. Rev.*, *111*, 185–202, doi:10.1023/B:SPAC.0000032715.69695.9c.
- [85] Øieroset, M., T. D. Phan, M. Fujimoto, and R. P. Lin (2004), Distant magnetotail reconnection and the coupling to the near-Earth plasma sheet: Wind and Geotail case study, *Geophys. Res. Lett.*, *311*, L18,805, doi:10.1029/2004GL020321.
- [86] Oksavik, K., F. Søråas, J. Moen, R. Pfaff, J. Davies, and M. Lester (2004), Simultaneous optical, CUTLASS HF radar, and FAST spacecraft observations: signatures of boundary layer processes in the cusp, *Ann. Geophys.*, *22*, 511–525, doi:10.5194/angeo-22-511-2004.
- [87] Olive, J.-F., K. Hurley, T. Sakamoto, J.-L. Atteia, G. Crew, G. Ricker, G. Pizzichini, C. Barraud, and N. Kawai (2004), Time-resolved X-Ray Spectral Modeling of an Intermediate Burst from SGR 1900+14 Observed by HETE-2 FREGATE and WXM, *Astrophys. J.*, *616*, 1148–1158, doi:10.1086/424957.
- [88] Onsager, T. G., A. A. Chan, Y. Fei, S. R. Elkington, J. C. Green, and H. J. Singer (2004), The radial gradient of relativistic electrons at geosynchronous orbit, *J. Geophys. Res.*, *109*, A05,221, doi:10.1029/2003JA010368.
- [89] Østgaard, N., S. B. Mende, H. U. Frey, T. J. Immel, L. A. Frank, J. B. Sigwarth, and T. J. Stubbs (2004), Interplanetary magnetic field control of the location of substorm onset and auroral features in the conjugate hemispheres, *J. Geophys. Res.*, *109*, A07,204, doi:10.1029/2003JA010370.
- [90] Ostryakov, V. M., M. F. Stovskyuk, and V. P. Shevel’Ko (2004), Acceleration of Multiply Charged Ions of the Anomalous Cosmic-Ray Component at the Heliosphere Boundary, *Astron. Rep.*, *48*, 342–351, doi:10.1134/1.1704680.



**List of Refereed Publications**  
**Wind Spacecraft: 2004**

- [91] Owens, M., and P. Cargill (2004), Predictions of the arrival time of Coronal Mass Ejections at 1AU: an analysis of the causes of errors, *Ann. Geophys.*, *22*, 661–671, doi:10.5194/angeo-22-661-2004.
- [92] Posner, A., N. A. Schwadron, D. J. McComas, E. C. Roelof, and A. B. Galvin (2004), Suprathermal ions ahead of interplanetary shocks: New observations and critical instrumentation required for future space weather monitoring, *Space Weather*, *2*, S10,004, doi:10.1029/2004SW000079.
- [93] Pryse, S., R. Sims, J. Moen, L. Kersley, D. Lorentzen, and W. Denig (2004), Evidence for solar-production as a source of polar-cap plasma, *Ann. Geophys.*, *22*, 1093–1102, doi:10.5194/angeo-22-1093-2004.
- [94] Rae, I. J., K. Kabin, R. Rankin, F. R. Fenrich, W. Liu, J. A. Wanliss, A. J. Ridley, T. I. Gombosi, and D. L. De Zeeuw (2004), Comparison of photometer and global MHD determination of the open-closed field line boundary, *J. Geophys. Res.*, *109*, A01,204, doi:10.1029/2003JA009968.
- [95] Rae, I. J., F. R. Fenrich, M. Lester, K. A. McWilliams, and J. D. Scudder (2004), Solar wind modulation of cusp particle signatures and their associated ionospheric flows, *J. Geophys. Res.*, *109*, A03,223, doi:10.1029/2003JA010188.
- [96] Reames, D. V., and C. K. Ng (2004), Heavy-Element Abundances in Solar Energetic Particle Events, *Astrophys. J.*, *610*, 510–522, doi:10.1086/421518.
- [97] Richardson, I. G. (2004), Energetic Particles and Corotating Interaction Regions in the Solar Wind, *Space Sci. Rev.*, *111*, 267–376, doi:10.1023/B:SPAC.0000032689.52830.3e.
- [98] Richardson, I. G., and H. V. Cane (2004), Identification of interplanetary coronal mass ejections at 1 AU using multiple solar wind plasma composition anomalies, *J. Geophys. Res.*, *109*, A09,104, doi:10.1029/2004JA010598.
- [99] Richardson, I. G., and H. V. Cane (2004), The fraction of interplanetary coronal mass ejections that are magnetic clouds: Evidence for a solar cycle variation, *Geophys. Res. Lett.*, *311*, L18,804, doi:10.1029/2004GL020958.
- [100] Rodriguez, P. (2004), Solar radar astronomy with the low-frequency array, *Planet. Space Sci.*, *52*, 1391–1398, doi:10.1016/j.pss.2004.09.008.
- [101] Safargaleev, V., A. Serebryanskaya, A. Koustov, M. Lester, E. Pchelkina, and A. Vasilyev (2004), A possible origin of dayside Pc1 magnetic pulsations observed at high latitudes, *Ann. Geophys.*, *22*, 2997–3008, doi:10.5194/angeo-22-2997-2004.
- [102] Sandholt, P., C. Farrugia, and W. Denig (2004), Dayside aurora and the role of IMF: detailed morphology and response to magnetopause reconnection, *Ann. Geophys.*, *22*, 613–628, doi:10.5194/angeo-22-613-2004.

**List of Refereed Publications**  
**Wind Spacecraft: 2004**

- [103] Sandholt, P., C. Farrugia, and W. Denig (2004), Detailed dayside auroral morphology as a function of local time for southeast IMF orientation: implications for solar wind-magnetosphere coupling, *Ann. Geophys.*, *22*, 3537–3560, doi:10.5194/angeo-22-3537-2004.
- [104] Sarafopoulos, D. (2004), Distinct solar wind pressure pulses producing convection twin-vortex systems in the ionosphere, *Ann. Geophys.*, *22*, 2201–2211, doi:10.5194/angeo-22-2201-2004.
- [105] Sarafopoulos, D. (2004), Repetitive X-line Hall current structures over the dawnside ionosphere induced by successive exo-magnetosphere pressure pulses, *Ann. Geophys.*, *22*, 4153–4163, doi:10.5194/angeo-22-4153-2004.
- [106] Saul, L., E. Möbius, C. W. Smith, P. Bochsler, H. Grünwaldt, B. Klecker, and F. Ipavich (2004), Observational evidence of pitch angle isotropization by IMF waves, *Geophys. Res. Lett.*, *310*, L05,811, doi:10.1029/2003GL019014.
- [107] Saul, L., E. Möbius, and C. W. Smith (2004), Variations of Pickup Ion Distributions and Their Relation to Interplanetary Conditions and Waves, in *Physics of the Outer Heliosphere, American Institute of Physics Conference Series*, vol. 719, edited by V. Florinski, N. V. Pogorelov, & G. P. Zank, pp. 207–212, doi:10.1063/1.1809519.
- [108] Sergeev, V., K. Liou, P. Newell, S. Ohtani, M. Hairston, and F. Rich (2004), Auroral streamers: characteristics of associated precipitation, convection and field-aligned currents, *Ann. Geophys.*, *22*, 537–548, doi:10.5194/angeo-22-537-2004.
- [109] Shukhtina, M., N. Dmitrieva, and V. Sergeev (2004), Quantitative magnetotail characteristics for different magnetospheric states, *Ann. Geophys.*, *22*, 1019–1032, doi:10.5194/angeo-22-1019-2004.
- [110] Sibeck, D., K. Kudela, T. Mukai, Z. Nemecek, and J. Safrankova (2004), Radial dependence of foreshock cavities: a case study, *Ann. Geophys.*, *22*, 4143–4151, doi:10.5194/angeo-22-4143-2004.
- [111] Sigsbee, K., C. Kletzing, D. Gurnett, J. Pickett, A. Balogh, and E. Lucek (2004), Statistical behavior of foreshock Langmuir waves observed by the Cluster wideband data plasma wave receiver, *Ann. Geophys.*, *22*, 2337–2344, doi:10.5194/angeo-22-2337-2004.
- [112] Simnett, G. M. (2004), Evidence for magnetic reconnection in the high corona, *Astron. & Astrophys.*, *416*, 759–764, doi:10.1051/0004-6361:20034341.
- [113] Skoug, R. M., J. T. Gosling, J. T. Steinberg, D. J. McComas, C. W. Smith, N. F. Ness, Q. Hu, and L. F. Burlaga (2004), Extremely high speed solar wind: 29-30 October 2003, *J. Geophys. Res.*, *109*, A09,102, doi:10.1029/2004JA010494.
- [114] Smith, Z., W. Murtagh, and C. Smithro (2004), Relationship between solar wind low-energy energetic ion enhancements and large geomagnetic storms, *J. Geophys. Res.*, *109*, A01,110, doi:10.1029/2003JA010044.

**List of Refereed Publications**  
**Wind Spacecraft: 2004**

- [115] Snow, M., J. C. Brandt, Y. Yi, C. C. Petersen, and H. Mikuz (2004), Comet Hyakutake (C/1996 B2): Spectacular disconnection event and the latitudinal structure of the solar wind, *Planet. Space Sci.*, *52*, 313–323, doi:10.1016/j.pss.2003.10.001.
- [116] Solovyev, S. I., A. V. Moiseyev, V. A. Mullayarov, A. Du, M. Engebretson, and L. Newitt (2004), Global geomagnetic response to a sharp compression of the magnetosphere and IMF variations on October 29, 2003, *Cosmic Res.*, *42*, 597–606, doi:10.1007/s10604-005-0007-7.
- [117] Søråas, F., K. Aarsnes, K. Oksavik, M. I. Sandanger, D. S. Evans, and M. S. Greer (2004), Evidence for particle injection as the cause of  $D_{st}$  reduction during HILDCAA events, *J. Atmos. Solar-Terr. Phys.*, *66*, 177–186, doi:10.1016/j.jastp.2003.05.001.
- [118] Spangler, S. R., and L. G. Spitler (2004), An empirical investigation of compressibility in magnetohydrodynamic turbulence, *Phys. Plasmas*, *11*, 1969–1977, doi:10.1063/1.1687688.
- [119] Spasojević, M., H. U. Frey, M. F. Thomsen, S. A. Fuselier, S. P. Gary, B. R. Sandel, and U. S. Inan (2004), The link between a detached subauroral proton arc and a plasmaspheric plume, *Geophys. Res. Lett.*, *310*, L04,803, doi:10.1029/2003GL018389.
- [120] Steinberg, J.-L., C. Lacombe, P. Zarka, S. Hoang, and C. Perche (2004), Terrestrial low-frequency bursts: Escape paths of radio waves through the bow shock, *Planet. Space Sci.*, *52*, 643–660, doi:10.1016/j.pss.2003.12.005.
- [121] Stenuit, H., and J. Sauvaud (2004), Evidence for storm-time ionospheric ion precipitation in the cusp with magnetosheath energy, *Ann. Geophys.*, *22*, 1765–1771, doi:10.5194/angeo-22-1765-2004.
- [122] Stubbs, T., M. Lockwood, P. Cargill, M. Grande, B. Kellett, and C. Perry (2004), A comparison between ion characteristics observed by the POLAR and DMSP spacecraft in the high-latitude magnetosphere, *Ann. Geophys.*, *22*, 1033–1046, doi:10.5194/angeo-22-1033-2004.
- [123] Stubbs, T. J., P. J. Cargill, M. Lockwood, M. Grande, B. J. Kellett, and C. H. Perry (2004), Extended cusp-like regions and their dependence on the Polar orbit, seasonal variations, and interplanetary conditions, *J. Geophys. Res.*, *109*, A09,210, doi:10.1029/2003JA010163.
- [124] Torsti, J., E. Riihonen, and L. Kocharov (2004), The 1998 May 2-3 Magnetic Cloud: An Interplanetary “Highway” for Solar Energetic Particles Observed with SOHO/ERNE, *Astrophys. J.*, *600*, L83–L86, doi:10.1086/381575.
- [125] Tsurutani, B. T., W. D. Gonzalez, X.-Y. Zhou, R. P. Lepping, and V. Bothmer (2004), Properties of slow magnetic clouds, *J. Atmos. Solar-Terr. Phys.*, *66*, 147–151, doi:10.1016/j.jastp.2003.09.007.
- [126] Tu, J.-N., J. L. Horwitz, P. A. Nsumei, P. Song, X.-Q. Huang, and B. W. Reinisch (2004), Simulation of polar cap field-aligned electron density profiles measured with the IMAGE radio plasma imager, *J. Geophys. Res.*, *109*, A07,206, doi:10.1029/2003JA010310.

**List of Refereed Publications**  
**Wind Spacecraft: 2004**

- [127] Ukhorskiy, A. Y., M. I. Sitnov, A. S. Sharma, B. J. Anderson, S. Ohtani, and A. T. Y. Lui (2004), Data-derived forecasting model for relativistic electron intensity at geosynchronous orbit, *Geophys. Res. Lett.*, *310*, L09,806, doi:10.1029/2004GL019616.
- [128] Vaisberg, O., L. Avannov, T. Moore, and V. Smirnov (2004), Ion velocity distributions within the LLBL and their possible implication to multiple reconnections, *Ann. Geophys.*, *22*, 213–236, doi:10.5194/angeo-22-213-2004.
- [129] Vieira, L. E. A., W. D. Gonzalez, E. Echer, and B. T. Tsurutani (2004), Storm-intensity criteria for several classes of the driving interplanetary structures, *Solar Phys.*, *223*, 245–258, doi:10.1007/s11207-004-1163-2.
- [130] Vršnak, B., J. Magdalenić, and P. Zlobec (2004), Band-splitting of coronal and interplanetary type II bursts. III. Physical conditions in the upper corona and interplanetary space, *Astron. & Astrophys.*, *413*, 753–763, doi:10.1051/0004-6361:20034060.
- [131] Wang, S. J., Y. Yan, Q. Fu, Y. Liu, and Z. Chen (2005), Multi-Wavelength Radio Features Associated with Large CMEs on Oct. 26–28, 2003, in *Coronal and Stellar Mass Ejections, IAU Symposium*, vol. 226, edited by K. Dere, J. Wang, & Y. Yan, pp. 139–140, doi:10.1017/S1743921305000384.
- [132] Wang, X., P. Wurz, P. Bochsler, F. Ipavich, J. Paquette, and R. F. Wimmer-Schweingruber (2005), Effect of Coronal Mass Ejection Interactions on the SOHO/CELIAS/MTOF Measurements, in *Coronal and Stellar Mass Ejections, IAU Symposium*, vol. 226, edited by K. Dere, J. Wang, & Y. Yan, pp. 409–413, doi:10.1017/S1743921305000943.
- [133] Wang, Y., C. Shen, S. Wang, and P. Ye (2004), Deflection of coronal mass ejection in the interplanetary medium, *Solar Phys.*, *222*, 329–343, doi:10.1023/B:SOLA.0000043576.21942.aa.
- [134] Watanabe, T., Y. Namiki, H. Adachi, K. Marubashi, and S. Watari (2004), Interplanetary Flux Ropes and Their Coronal Counterparts, in *The Solar-B Mission and the Forefront of Solar Physics, Astronomical Society of the Pacific Conference Series*, vol. 325, edited by T. Sakurai & T. Sekii, pp. 433–+.
- [135] Webb, D., and J. Allen (2004), Spacecraft and Ground Anomalies Related to the October–November 2003 Solar Activity, *Space Weather*, *2*, S03,008, doi:10.1029/2004SW000075.
- [136] Weidenspointner, G., M. J. Harris, C. Ferguson, S. Sturmer, and B. J. Teegarden (2004), MGGPOD: a Monte Carlo suite for modelling instrumental backgrounds in  $\gamma$ -ray astronomy and its application to Wind/TGRS and INTEGRAL/SPI, *New Astron. Rev.*, *48*, 227–230, doi:10.1016/j.newar.2003.11.031.
- [137] Weidenspointner, G., M. Harris, C. Ferguson, S. Sturmer, B. Teegarden, and C. Wunderer (2004), MGGPOD: A Monte Carlo Suite for Gamma-Ray Astronomy, in *5th INTEGRAL Workshop on the INTEGRAL Universe, ESA Special Publication*, vol. 552, edited by V. Schoenfelder, G. Lichti, & C. Winkler, pp. 905–+.

**List of Refereed Publications**  
**Wind Spacecraft: 2004**

- [138] Whang, Y. C. (2004), Theory and observation of double discontinuities, *Nonlin. Proc. Geophys.*, *11*, 259–266.
- [139] Wiens, R. C., P. Bochsler, D. S. Burnett, and R. F. Wimmer-Schweingruber (2004), Solar and solar wind isotopic compositions, *Earth Planet. Sci. Lett.*, *226*, 549–565, doi:10.1016/j.epsl.2004.07.011.
- [140] Woods, P. M., V. M. Kaspi, C. Thompson, F. P. Gavriil, H. L. Marshall, D. Chakrabarty, K. Flanagan, J. Heyl, and L. Hernquist (2004), Changes in the X-Ray Emission from the Magnetar Candidate 1E 2259+586 during Its 2002 Outburst, *Astrophys. J.*, *605*, 378–399, doi:10.1086/382233.
- [141] Wu, C.-C., K. Liou, R. P. Lepping, and C.-I. Meng (2004), Identification of substorms within storms, *J. Atmos. Solar-Terr. Phys.*, *66*, 125–132, doi:10.1016/j.jastp.2003.09.012.
- [142] Wu, C. S., M. J. Reiner, P. H. Yoon, H. N. Zheng, and S. Wang (2004), On Low-Frequency Type III Solar Radio Bursts Observed in Interplanetary Space, *Astrophys. J.*, *605*, 503–510, doi:10.1086/382144.
- [143] Xiao, C. J., Z. Y. Pu, H. F. Chen, L. Xie, Q. G. Zong, T. A. Fritz, and P. W. Daly (2005), Energetic Electrons in Magnetosphere during Gradual Solar Energetic Particle Event Observations by Cluster, in *Coronal and Stellar Mass Ejections, IAU Symposium*, vol. 226, edited by K. Dere, J. Wang, & Y. Yan, pp. 473–474, doi:10.1017/S1743921305001080.
- [144] Xie, H., L. Ofman, and G. Lawrence (2004), Cone model for halo CMEs: Application to space weather forecasting, *J. Geophys. Res.*, *109*, A03,109, doi:10.1029/2003JA010226.
- [145] Yashiro, S., N. Gopalswamy, E. W. Cliver, D. V. Reames, M. L. Kaiser, and R. A. Howard (2004), Association of Coronal Mass Ejections and Type II Radio Bursts with Impulsive Solar Energetic Particle Events, in *The Solar-B Mission and the Forefront of Solar Physics, Astronomical Society of the Pacific Conference Series*, vol. 325, edited by T. Sakurai & T. Sekii, pp. 401–+.
- [146] Zarka, P., B. Cecconi, and W. S. Kurth (2004), Jupiter’s low-frequency radio spectrum from Cassini/Radio and Plasma Wave Science (RPWS) absolute flux density measurements, *J. Geophys. Res.*, *109*, A09S15, doi:10.1029/2003JA010260.
- [147] Zesta, E., and D. G. Sibeck (2004), A detailed description of the solar wind triggers of two dayside transients: Events of 25 July 1997, *J. Geophys. Res.*, *109*, A01201, doi:10.1029/2003JA009864.
- [148] Zhou, X.-Y., and B. T. Tsurutani (2004), Dawn and dusk auroras caused by gradual, intense solar wind ram pressure events, *J. Atmos. Solar-Terr. Phys.*, *66*, 153–160, doi:10.1016/j.jastp.2003.09.008.
- [149] Zong, Q.-G., T. A. Fritz, H. Zhang, A. Korth, P. W. Daly, M. W. Dunlop, K.-H. Glassmeier, H. Reme, and A. Balogh (2004), Triple cusps observed by Cluster-Temporal or spatial effect?, *Geophys. Res. Lett.*, *310*, L09,810, doi:10.1029/2003GL019128.