

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

## References

- [1] Aleshin, I. M., G. N. Zastenker, M. O. Riazantseva, and O. O. Trubachev (2007), Possible role of electrostatic potential in formation of sharp boundaries of small-scale and middle-scale solar wind structures, *Cosmic Res.*, *45*, 181–185, doi:10.1134/S001095250703001X.
- [2] Andréevová, K., and L. Přech (2007), Propagation of interplanetary shocks into the Earth's magnetosphere, *Adv. Space Res.*, *40*, 1871–1880, doi:10.1016/j.asr.2007.04.079.
- [3] Aschwanden, M. J. (2006), The Localization of Particle Acceleration Sites in Solar Flares and CMES, *Space Sci. Rev.*, *124*, 361–372, doi:10.1007/s11214-006-9095-9.
- [4] Asgarov, A. B., and V. N. Obridko (2007), Asymmetry in the Inward-Outward Polarity in the Interplanetary Magnetic Field, *Sun and Geosphere*, *2*, 29–32.
- [5] Bastian, T. S. (2007), Synchrotron Radiation From A Fast Halo CME, in *American Astronomical Society Meeting Abstracts #210*, *Bull. Amer. Astron. Soc.*, vol. 38, pp. 141–+.
- [6] Bastian, T. S. (2007), Synchrotron Radio Emission from a Fast Halo Coronal Mass Ejection, *Astrophys. J.*, *665*, 805–812, doi:10.1086/519246.
- [7] Bastian, T. S. (2007), Radio emission from the Sun, planets, and the interplanetary medium, *Highlights Astron.*, *14*, 362–364, doi:10.1017/S174392130701099X.
- [8] Belenkaya, E. S., I. I. Alexeev, and C. R. Clauer, Jr. (2007), Magnetic field of the transition current system: dawn-dusk asymmetry, *Ann. Geophys.*, *25*, 1899–1911, doi:10.5194/angeo-25-1899-2007.
- [9] Bochsler, P. (2007), Minor ions in the solar wind, *Astron. & Astrophys. Rev.*, *14*, 1–40, doi:10.1007/s00159-006-0002-x.
- [10] Bombardieri, D. J., K. J. Michael, M. L. Duldig, and J. E. Humble (2007), Relativistic Proton Production during the 2001 April 15 Solar Event, *Astrophys. J.*, *665*, 813–823, doi:10.1086/519514.
- [11] Bruno, R., V. Carbone, S. Chapman, B. Hnat, A. Noullez, and L. Sorriso-Valvo (2007), Intermittent character of interplanetary magnetic field fluctuations, *Phys. Plasmas*, *14*, 032,901–+, doi:10.1063/1.2711429.
- [12] Bruno, R., R. D'Amicis, B. Bavassano, V. Carbone, and L. Sorriso-Valvo (2007), Magnetically dominated structures as an important component of the solar wind turbulence, *Ann. Geophys.*, *25*, 1913–1927, doi:10.5194/angeo-25-1913-2007.
- [13] Campana, S., C. Guidorzi, G. Tagliaferri, G. Chincarini, A. Moretti, D. Rizzuto, and P. Romano (2007), Are Swift gamma-ray bursts consistent with the Ghirlanda relation?, *Astron. & Astrophys.*, *472*, 395–401, doi:10.1051/0004-6361:20066984.
- [14] Charles, C. (2007), TOPICAL REVIEW: A review of recent laboratory double layer experiments, *Plasma Sources Sci. Tech.*, *16*, 1–+, doi:10.1088/0963-0252/16/4/R01.

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [15] Chernov, G. P., M. L. Kaiser, J.-L. Bougeret, V. V. Fomichev, and R. V. Gorgutsa (2007), Fine Structure of Solar Radio Bursts Observed at Decametric and Hectometric Waves, *Solar Phys.*, *241*, 145–169, doi:10.1007/s11207-007-0258-y.
- [16] Chernov, G. P., A. A. Stanislavsky, A. A. Konovalenko, E. P. Abranin, V. V. Dorovsky, and G. O. Rucker (2007), Fine structure of decametric type II radio bursts, *Astron. Lett.*, *33*, 192–202, doi:10.1134/S1063773707030061.
- [17] Chollet, E. E., J. Giacalone, J. E. Mazur, and M. Al Dayeh (2007), A New Phenomenon in Impulsive-Flare-Associated Energetic Particles, *Astrophys. J.*, *669*, 615–620, doi:10.1086/521670.
- [18] Cliver, E. W., and A. G. Ling (2007), Electrons and Protons in Solar Energetic Particle Events, *Astrophys. J.*, *658*, 1349–1356, doi:10.1086/511737.
- [19] Collado Vega, Y. M. (2007), MHD flow visualization of magnetopause boundary region vortices observed during high speed streams, Master’s thesis, University of Puerto Rico, Mayaguez (Puerto Rico).
- [20] Collado-Vega, Y. M., R. L. Kessel, X. Shao, and R. A. Boller (2007), MHD flow visualization of magnetopause boundary region vortices observed during high-speed streams, *J. Geophys. Res.*, *112*, A06,213, doi:10.1029/2006JA012104.
- [21] Collier, M. R., R. P. Lepping, and D. B. Berdichevsky (2007), A statistical study of interplanetary shocks and pressure pulses internal to magnetic clouds, *J. Geophys. Res.*, *112*, A06,102, doi:10.1029/2006JA011714.
- [22] Cremades, H., O. C. St. Cyr, and M. L. Kaiser (2007), A tool to improve space weather forecasts: Kilometric radio emissions from Wind/WAVES, *Space Weather*, *50*, S08,001, doi:10.1029/2007SW000314.
- [23] Culhane, J. L., and G. L. Siscoe (2007), The Sun - Earth Workshop: A Summary of the Outcome, *Solar Phys.*, *244*, 3–12, doi:10.1007/s11207-007-9037-z.
- [24] Culhane, J. L., S. Pohjolainen, L. van Driel-Gesztelyi, P. K. Manoharan, and H. A. Elliott (2007), Study of CME transit speeds for the event of 07-NOV-2004, *Adv. Space Res.*, *40*, 1807–1814, doi:10.1016/j.asr.2007.01.005.
- [25] Daglis, I. A., B. T. Tsurutani, W. D. Gonzalez, J. U. Kozyra, S. Orsini, J. Cladis, Y. Kamide, M. G. Henderson, and D. Vassiliadis (2007), Key features of intense geospace storms—A comparative study of a solar maximum and a solar minimum storm, *Planet. Space Sci.*, *55*, 32–52, doi:10.1016/j.pss.2006.04.007.
- [26] D’Amicis, R., R. Bruno, and B. Bavassano (2007), Is geomagnetic activity driven by solar wind turbulence?, *Geophys. Res. Lett.*, *340*, L05,108, doi:10.1029/2006GL028896.
- [27] Dasso, S., M. S. Nakwacki, P. Démoulin, and C. H. Mandrini (2007), Progressive Transformation of a Flux Rope to an ICME. Comparative Analysis Using the Direct and Fitted Expansion Methods, *Solar Phys.*, *244*, 115–137, doi:10.1007/s11207-007-9034-2.

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [28] Démoulin, P., K.-L. Klein, C. P. Goff, L. van Driel-Gesztelyi, J. L. Culhane, C. H. Mandrini, S. A. Matthews, and L. K. Harra (2007), Decametric N Burst: A Consequence of the Interaction of Two Coronal Mass Ejections, *Solar Phys.*, *240*, 301–313, doi:10.1007/s11207-006-0259-2.
- [29] Dennis, B. R., H. S. Hudson, and S. Krucker (2007), Review of Selected RHESSI Solar Results, in *Lecture Notes in Physics, Berlin Springer Verlag, Lecture Notes in Physics, Berlin Springer Verlag*, vol. 725, edited by K.-L. Klein & A. L. MacKinnon, pp. 33–+.
- [30] Desai, M. I., G. M. Mason, J. E. Mazur, and J. R. Dwyer (2006), The Seed Population for Energetic Particles Accelerated by CME-Driven Shocks, *Space Sci. Rev.*, *124*, 261–275, doi:10.1007/s11214-006-9109-7.
- [31] Efimov, A. I., L. N. Samoznaev, V. K. Rudash, I. V. Chasheĭ, M. K. Bird, and D. Plettemeier (2007), Observation of a coronal mass ejection in January 1997 using radio sounding of the near-solar plasma with the GALILEO spacecraft, *Astron. Rep.*, *51*, 687–694, doi: 10.1134/S1063772907080069.
- [32] Efimov, A. I., L. N. Samoznaev, V. K. Rudash, I. V. Chashei, M. K. Bird, and D. Plettemeier (2007), Radio-sounding observations of a coronal mass ejection during the Galileo solar conjunction in January 1997, *Astron. & Astrophys. Trans.*, *26*, 455–465, doi: 10.1080/10556790701595210.
- [33] Elliott, H. A., J.-M. Jahn, C. J. Pollock, T. E. Moore, and J. L. Horwitz (2007), O transport across the polar cap, *J. Atmos. Solar-Terr. Phys.*, *69*, 1541–1555, doi: 10.1016/j.jastp.2007.06.003.
- [34] Eselevich, M., V. Eselevich, and K. Fujiki (2007), Streamer Belt and Chains as the Main Sources of Quasi-Stationary Slow Solar Wind, *Solar Phys.*, *240*, 135–151, doi: 10.1007/s11207-006-0197-z.
- [35] Fairfield, D. H., M. M. Kuznetsova, T. Mukai, T. Nagai, T. I. Gombosi, and A. J. Ridley (2007), Waves on the dusk flank boundary layer during very northward interplanetary magnetic field conditions: Observations and simulation, *J. Geophys. Res.*, *112*, A08,206, doi:10.1029/2006JA012052.
- [36] Farrugia, C. J., A. Grocott, P. E. Sandholt, S. W. H. Cowley, Y. Miyoshi, F. J. Rich, V. K. Jordanova, R. B. Torbert, and A. Sharma (2007), The magnetosphere under weak solar wind forcing, *Ann. Geophys.*, *25*, 191–205, doi:10.5194/angeo-25-191-2007.
- [37] Feng, H. Q., D. J. Wu, and J. K. Chao (2007), Size and energy distributions of interplanetary magnetic flux ropes, *J. Geophys. Res.*, *112*, A02,102, doi:10.1029/2006JA011962.
- [38] Feng, H. Q., C. C. Lin, J. K. Chao, D. J. Wu, L. H. Lyu, and L.-C. Lee (2007), From Rankine-Hugoniot relation fitting procedure: Tangential discontinuity or intermediate/slow shock?, *J. Geophys. Res.*, *112*, A10,104, doi:10.1029/2007JA012311.

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [39] Foullon, C., C. J. Owen, S. Dasso, L. M. Green, I. Dandouras, H. A. Elliott, A. N. Fazakerley, Y. V. Bogdanova, and N. U. Crooker (2007), Multi-Spacecraft Study of the 21 January 2005 ICME. Evidence of Current Sheet Substructure Near the Periphery of a Strongly Expanding, Fast Magnetic Cloud, *Solar Phys.*, *244*, 139–165, doi:10.1007/s11207-007-0355-y.
- [40] Frederiks, D. D., S. V. Golenetskii, V. D. Palshin, R. L. Aptekar, V. N. Ilyinskii, F. P. Oleinik, E. P. Mazets, and T. L. Cline (2007), Giant flare in SGR 1806-20 and its Compton reflection from the Moon, *Astron. Lett.*, *33*, 1–18, doi:10.1134/S106377370701001X.
- [41] Fujiwara, H., R. Kataoka, M. Suzuki, S. Maeda, S. Nozawa, K. Hosokawa, H. Fukunishi, N. Sato, and M. Lester (2007), Electromagnetic energy deposition rate in the polar upper thermosphere derived from the EISCAT Svalbard radar and CUTLASS Finland radar observations, *Ann. Geophys.*, *25*, 2393–2403, doi:10.5194/angeo-25-2393-2007.
- [42] Glassmeier, K.-H., I. Richter, A. Diedrich, G. Musmann, U. Auster, U. Motschmann, A. Balogh, C. Carr, E. Cupido, A. Coates, M. Rother, K. Schwingenschuh, K. Szegö, and B. Tsurutani (2007), RPC-MAG The Fluxgate Magnetometer in the ROSETTA Plasma Consortium, *Space Sci. Rev.*, *128*, 649–670, doi:10.1007/s11214-006-9114-x.
- [43] Goldman, M. V., D. L. Newman, and A. Mangeney (2007), Theory of Weak Bipolar Fields and Electron Holes with Applications to Space Plasmas, *Phys. Rev. Lett.*, *99*, 145,002–+, doi:10.1103/PhysRevLett.99.145002.
- [44] Golenetskii, S., R. Aptekar, E. Mazets, V. Pal’Shin, D. Frederiks, and T. Cline (2007), Konus-wind and konus-a observations of GRB 070220., *GRB Coordinates Network*, *6124*, 1–+.
- [45] Golenetskii, S., R. Aptekar, E. Mazets, V. Pal’Shin, D. Frederiks, and T. Cline (2007), Konus-wind and konus-a observations of GRB 070402., *GRB Coordinates Network*, *6243*, 1–+.
- [46] Golenetskii, S., R. Aptekar, E. Mazets, V. Pal’Shin, D. Frederiks, P. Oleynik, M. Ulanov, and T. Cline (2007), Konus-wind and konus-a observation of GRB 070508., *GRB Coordinates Network*, *6403*, 1–+.
- [47] Golenetskii, S., R. Aptekar, E. Mazets, V. Pal’Shin, D. Frederiks, P. Oleynik, M. Ulanov, and T. Cline (2007), Konus-wind and konus-a observations of GRB 071117., *GRB Coordinates Network*, *7114*, 1–+.
- [48] Golenetskii, S., R. Aptekar, E. Mazets, V. Pal’Shin, D. Frederiks, P. Oleynik, M. Ulanov, and T. Cline (2007), Konus-wind and konus-a observations of GRB 071125., *GRB Coordinates Network*, *7137*, 1–+.
- [49] Gopalswamy, N., S. Yashiro, and S. Akiyama (2007), Geoeffectiveness of halo coronal mass ejections, *J. Geophys. Res.*, *112*, A06,112, doi:10.1029/2006JA012149.
- [50] Gosling, J. T. (2007), Observations of Magnetic Reconnection in the Turbulent High-Speed Solar Wind, *Astrophys. J.*, *671*, L73–L76, doi:10.1086/524842.

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [51] Gosling, J. T., S. Eriksson, T. D. Phan, D. E. Larson, R. M. Skoug, and D. J. McComas (2007), Direct evidence for prolonged magnetic reconnection at a continuous x-line within the heliospheric current sheet, *Geophys. Res. Lett.*, *340*, L06102, doi:10.1029/2006GL029033.
- [52] Gosling, J. T., T. D. Phan, R. P. Lin, and A. Szabo (2007), Prevalence of magnetic reconnection at small field shear angles in the solar wind, *Geophys. Res. Lett.*, *341*, L15110, doi:10.1029/2007GL030706.
- [53] Gosling, J. T., S. Eriksson, D. J. McComas, T. D. Phan, and R. M. Skoug (2007), Multiple magnetic reconnection sites associated with a coronal mass ejection in the solar wind, *J. Geophys. Res.*, *112*, A08,106, doi:10.1029/2007JA012418.
- [54] Gosling, J. T., S. Eriksson, L. M. Blush, T. D. Phan, J. G. Luhmann, D. J. McComas, R. M. Skoug, M. H. Acuna, C. T. Russell, and K. D. Simunac (2007), Five spacecraft observations of oppositely directed exhaust jets from a magnetic reconnection X-line extending  $>4.26 \times 10^6$  km in the solar wind at 1 AU, *Geophys. Res. Lett.*, *342*, L20,108, doi:10.1029/2007GL031492.
- [55] Hannah, I. G., S. Krucker, H. S. Hudson, S. Christe, and R. P. Lin (2008), An intriguing solar microflare observed with RHESSI, Hinode, and TRACE, *Astron. & Astrophys.*, *481*, L45–L48, doi:10.1051/0004-6361:20079019.
- [56] Hnat, B., S. C. Chapman, K. Kiyani, G. Rowlands, and N. W. Watkins (2007), On the fractal nature of the magnetic field energy density in the solar wind, *Geophys. Res. Lett.*, *341*, L15,108, doi:10.1029/2007GL029531.
- [57] Horvath, I. (2007), Impact of 10 January 1997 geomagnetic storm on the nighttime Weddell Sea Anomaly: A study utilizing data provided by the TOPEX/Poseidon mission and the Defense Meteorological Satellite Program, and simulations generated by the Coupled Thermosphere/Ionosphere Plasmasphere model, *J. Geophys. Res.*, *112*, A06,329, doi:10.1029/2006JA012153.
- [58] Hudson, H., and N. Vilmer (2007), Small Scale Energy Release and the Acceleration and Transport of Energetic Particles, in *Lecture Notes in Physics, Berlin Springer Verlag, Lecture Notes in Physics, Berlin Springer Verlag*, vol. 725, edited by K.-L. Klein & A. L. MacKinnon, pp. 81–+.
- [59] Huttunen, K. E. J., S. D. Bale, T. D. Phan, M. Davis, and J. T. Gosling (2007), Wind/WAVES observations of high-frequency plasma waves in solar wind reconnection exhausts, *J. Geophys. Res.*, *112*, 1102–+.
- [60] José, J., and M. Hernanz (2007), TOPICAL REVIEW: Nucleosynthesis in classical nova explosions, *J. Phys. G Nucl. Phys.*, *34*, 431–+, doi:10.1088/0954-3899/34/12/R01.
- [61] Joshi, B., P. K. Manoharan, A. M. Veronig, P. Pant, and K. Pandey (2007), Multi-Wavelength Signatures of Magnetic Reconnection of a Flare-Associated Coronal Mass Ejection, *Solar Phys.*, *242*, 143–158, doi:10.1007/s11207-007-0275-x.

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [62] Kahler, S. W. (2007), Solar Sources of Heliospheric Energetic Electron Events-Shocks or Flares?, *Space Sci. Rev.*, *129*, 359–390, doi:10.1007/s11214-007-9143-0.
- [63] Kahler, S. W., H. Aurass, G. Mann, and A. Klassen (2007), Solar Radio Burst and Solar Wind Associations with Inferred Near-Relativistic Electron Injections, *Astrophys. J.*, *656*, 567–576, doi:10.1086/510230.
- [64] Kane, R. P. (2007), Solar terrestrial effects of two distinct types, *Adv. Space Res.*, *39*, 1890–1897, doi:10.1016/j.asr.2007.02.006.
- [65] Kartavykh, Y. Y., W. Dröge, B. Klecker, G. M. Mason, E. Möbius, M. Popecki, and S. Krucker (2007), Evidence of a Two-Temperature Source Region in the <sup>3</sup>He-Rich Solar Energetic Particle Event of 2000 May 1, *Astrophys. J.*, *671*, 947–954, doi:10.1086/522687.
- [66] Kasper, J. C., M. L. Stevens, A. J. Lazarus, J. T. Steinberg, and K. W. Ogilvie (2007), Solar Wind Helium Abundance as a Function of Speed and Heliographic Latitude: Variation through a Solar Cycle, *Astrophys. J.*, *660*, 901–910, doi:10.1086/510842.
- [67] Khazanov, G. V., K. V. Gamayunov, D. L. Gallagher, and J. F. Spann (2007), Strong pitch-angle diffusion of ring current ions in geomagnetic storm-associated conditions, *J. Atmos. Solar-Terr. Phys.*, *69*, 142–150, doi:10.1016/j.jastp.2006.07.010.
- [68] Kim, K.-H., Y.-J. Moon, and K.-S. Cho (2007), Prediction of the 1-AU arrival times of CME-associated interplanetary shocks: Evaluation of an empirical interplanetary shock propagation model, *J. Geophys. Res.*, *112*, A05,104, doi:10.1029/2006JA011904.
- [69] Kocharov, L., O. Saloniemi, J. Torsti, G. Kovaltsov, and E. Riihonen (2007), Scanning an Interplanetary Magnetic Cloud Using High-Energy Protons, *Astrophys. J.*, *654*, 1121–1127, doi:10.1086/509797.
- [70] Konovalenko, A. A., A. A. Stanislavsky, E. P. Abranin, V. V. Dorovsky, V. N. Mel’Nik, M. L. Kaiser, A. Lecacheux, and H. O. Rucker (2007), Absorption in Burst Emission, *Solar Phys.*, *245*, 345–354, doi:10.1007/s11207-007-9049-8.
- [71] Kozelov, B. V., and K. Rypdal (2007), Spatial scaling of optical fluctuations during substorm-time aurora, *Ann. Geophys.*, *25*, 915–927, doi:10.5194/angeo-25-915-2007.
- [72] Kozlovsky, A., M. Meurant, and T. Turunen (2007), Changes of dayside auroral distribution caused by a solar wind pressure pulse and associated interplanetary magnetic field disturbances, *Ann. Geophys.*, *25*, 929–940, doi:10.5194/angeo-25-929-2007.
- [73] Kozyreva, O., V. Pilipenko, M. J. Engebretson, K. Yumoto, J. Watermann, and N. Romanova (2007), In search of a new ULF wave index: Comparison of Pc5 power with dynamics of geostationary relativistic electrons, *Planet. Space Sci.*, *55*, 755–769, doi:10.1016/j.pss.2006.03.013.
- [74] Krucker, S., E. P. Kontar, S. Christe, and R. P. Lin (2007), Solar Flare Electron Spectra at the Sun and near the Earth, *Astrophys. J.*, *663*, L109–L112, doi:10.1086/519373.

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [75] Krucker, S., S. M. White, and R. P. Lin (2007), Solar Flare Hard X-Ray Emission from the High Corona, *Astrophys. J.*, *669*, L49–L52, doi:10.1086/523759.
- [76] Leitner, M., C. J. Farrugia, C. Möstl, K. W. Ogilvie, A. B. Galvin, R. Schwenn, and H. K. Biernat (2007), Consequences of the force-free model of magnetic clouds for their heliospheric evolution, *J. Geophys. Res.*, *112*, 6113, doi:10.1029/2006JA011940.
- [77] Lepping, R. P., T. W. Narock, and H. Chen (2007), Comparison of magnetic field observations of an average magnetic cloud with a simple force free model: the importance of field compression and expansion, *Ann. Geophys.*, *25*, 2641–2648.
- [78] Leske, R. A., R. A. Mewaldt, C. M. S. Cohen, A. C. Cummings, E. C. Stone, M. E. Wiedenbeck, and T. T. von Rosenvinge (2007), An Update on Ultra-Heavy Elements in Solar Energetic Particles above 10 MeV/Nucleon, *Space Sci. Rev.*, *130*, 335–340, doi:10.1007/s11214-007-9191-5.
- [79] Longcope, D., C. Beveridge, J. Qiu, B. Ravindra, G. Barnes, and S. Dasso (2007), Modeling and Measuring the Flux Reconnected and Ejected by the Two-Ribbon Flare/CME Event on 7 November 2004, *Solar Phys.*, *244*, 45–73, doi:10.1007/s11207-007-0330-7.
- [80] Lugaz, N., W. B. Manchester, IV, I. I. Roussev, G. Tóth, and T. I. Gombosi (2007), Numerical Investigation of the Homologous Coronal Mass Ejection Events from Active Region 9236, *Astrophys. J.*, *659*, 788–800, doi:10.1086/512005.
- [81] Luhmann, J. G., S. A. Ledvina, D. Krauss-Varban, D. Odstrcil, and P. Riley (2007), A heliospheric simulation-based approach to SEP source and transport modeling, *Adv. Space Res.*, *40*, 295–303, doi:10.1016/j.asr.2007.03.089.
- [82] Mandrini, C. H., M. S. Nakwacki, G. Attrill, L. van Driel-Gesztelyi, P. Démoulin, S. Dasso, and H. Elliott (2007), Are CME-Related Dimmings Always a Simple Signature of Interplanetary Magnetic Cloud Footpoints?, *Solar Phys.*, *244*, 25–43, doi:10.1007/s11207-007-9020-8.
- [83] Markevitch, M., and A. Vikhlinin (2007), Shocks and cold fronts in galaxy clusters, *Phys. Rep.*, *443*, 1–53, doi:10.1016/j.physrep.2007.01.001.
- [84] Matthews, S. A., and J. L. Culhane (2007), Magnetic coupling of the Sun Earth system The view from STEREO, *Adv. Space Res.*, *39*, 1791–1803, doi:10.1016/j.asr.2007.02.043.
- [85] Mavromichalaki, H., E. Paouris, and T. Karalidi (2007), Cosmic-Ray Modulation: An Empirical Relation with Solar and Heliospheric Parameters, *Solar Phys.*, *245*, 369–390, doi:10.1007/s11207-007-9043-1.
- [86] Merka, J., D. Merkova, and D. Odstrcil (2007), A step toward data assimilation in solar wind research, *J. Atmos. Solar-Terr. Phys.*, *69*, 170–178, doi:10.1016/j.jastp.2006.07.012.
- [87] Michalek, G., N. Gopalswamy, and S. Yashiro (2007), Prediction of Space Weather Using an Asymmetric Cone Model for Halo CMEs, *Solar Phys.*, *246*, 399–408, doi:10.1007/s11207-007-9081-8.

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [88] Michalek, G., N. Gopalswamy, and H. Xie (2007), Width of Radio-Loud and Radio-Quiet CMEs, *Solar Phys.*, *246*, 409–414, doi:10.1007/s11207-007-9062-y.
- [89] Moore, T. E., and J. L. Horwitz (2007), Stellar ablation of planetary atmospheres, *Rev. Geophys.*, *45*, RG3002, doi:10.1029/2005RG000194.
- [90] Morioka, A., Y. Miyoshi, S. Masuda, F. Tsuchiya, H. Misawa, H. Matsumoto, K. Hashimoto, and H. Oya (2007), Micro-Type III Radio Bursts, *Astrophys. J.*, *657*, 567–576, doi:10.1086/510507.
- [91] Morley, S. K., M. P. Freeman, and E. I. Tanskanen (2007), A comparison of the probability distribution of observed substorm magnitude with that predicted by a minimal substorm model, *Ann. Geophys.*, *25*, 2427–2437, doi:10.5194/angeo-25-2427-2007.
- [92] Nakamura, R. (2006), Substorms and Their Solar Wind Causes, *Space Sci. Rev.*, *124*, 91–101, doi:10.1007/s11214-006-9131-9.
- [93] Narock, T. W., and R. P. Lepping (2007), Anisotropy of magnetic field fluctuations in an average interplanetary magnetic cloud at 1 AU, *J. Geophys. Res.*, *112*, A06,108, doi:10.1029/2006JA011987.
- [94] Nikolaeva, N. S., V. A. Parkhomov, N. L. Borodkova, and Y. I. Yermolaev (2007), The magnetospheric boundary motion during the main phase of the moderate magnetic storm (case study), *Planet. Space Sci.*, *55*, 2299–2309, doi:10.1016/j.pss.2007.05.010.
- [95] Nunes, S. M. (2007), Influence of CME interaction on the intensities of type II radio bursts, Ph.D. thesis, The Catholic University of America.
- [96] Ofek, E. O. (2007), Soft Gamma-Ray Repeaters in Nearby Galaxies: Rate, Luminosity Function, and Fraction among Short Gamma-Ray Bursts, *Astrophys. J.*, *659*, 339–346, doi:10.1086/511147.
- [97] Ogilvie, K. W., M. A. Coplan, D. A. Roberts, and F. Ipavich (2007), Solar wind structure suggested by bimodal correlations of solar wind speed and density between the spacecraft SOHO and Wind, *J. Geophys. Res.*, *112*, A08,104, doi:10.1029/2007JA012248.
- [98] Oh, S. Y., Y. Yi, and Y. H. Kim (2007), Solar Cycle Variation of the Interplanetary Forward Shock Drivers Observed at 1 AU, *Solar Phys.*, *245*, 391–410, doi:10.1007/s11207-007-9042-2.
- [99] Önel, H., G. Mann, and E. Sedlmayr (2007), Propagation of energetic electrons through the solar corona and the interplanetary medium, *Astron. & Astrophys.*, *463*, 1143–1152, doi:10.1051/0004-6361:20065237.
- [100] Owens, M. J., and N. U. Crooker (2007), Reconciling the electron counterstreaming and dropout occurrence rates with the heliospheric flux budget, *J. Geophys. Res.*, *112*, A06106, doi:10.1029/2006JA012159.



**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [101] Parkinson, M. L., R. C. Healey, and P. L. Dyson (2007), Solar cycle changes in the geoeffectiveness of small-scale solar wind turbulence measured by Wind and ACE at 1 AU, *Ann. Geophys.*, *25*, 1183–1197, doi:10.5194/angeo-25-1183-2007.
- [102] Pchelkin, V. V., E. V. Pchelkina, and I. V. Golovchanskaya (2007), Anomalous behavior of cutoff rigidity variation in the region of the Mexico station during a magnetic superstorm on 20 November 2003, *Ann. Geophys.*, *25*, 1721–1725, doi:10.5194/angeo-25-1721-2007.
- [103] Penz, T., C. J. Farrugia, V. V. Ivanova, V. S. Semenov, I. B. Ivanov, S. W. H. Cowley, H. K. Biernat, and R. B. Torbert (2007), Modeled variations of the reconnection electric field at the dayside magnetopause during continued flux transfer event activity, *J. Geophys. Res.*, *112*, 1, doi:10.1029/2006JA011937.
- [104] Perroomian, V., M. El-Alaoui, M. A. Abdalla, and L. M. Zelenyi (2007), A comparison of solar wind and ionospheric plasma contributions to the September 24 25, 1998 magnetic storm, *J. Atmos. Solar-Terr. Phys.*, *69*, 212–222, doi:10.1016/j.jastp.2006.07.025.
- [105] Phan, T. D., G. Paschmann, C. Twitty, F. S. Mozer, J. T. Gosling, J. P. Eastwood, M. Øieroset, H. Rème, and E. A. Lucek (2007), Evidence for magnetic reconnection initiated in the magnetosheath, *Geophys. Res. Lett.*, *34*, L14,104, doi:10.1029/2007GL030343.
- [106] Pirard, B., J. Cabrera, C. D’Uston, J. J. Thocaven, O. Gasnault, P. Leleux, and J. Brückner (2007), Solar proton damage in high-purity germanium detectors, *Nucl. Inst. & Meth. in Phys. Res. A*, *572*, 698–707, doi:10.1016/j.nima.2006.11.051.
- [107] Podesta, J. J. (2007), Self-similar scaling of kinetic energy density in the inertial range of solar wind turbulence, *J. Geophys. Res.*, *112*, A11,104, doi:10.1029/2007JA012549.
- [108] Podesta, J. J., D. A. Roberts, and M. L. Goldstein (2007), Spectral Exponents of Kinetic and Magnetic Energy Spectra in Solar Wind Turbulence, *Astrophys. J.*, *664*, 543–548, doi:10.1086/519211.
- [109] Pohjolainen, S., L. van Driel-Gesztelyi, J. L. Culhane, P. K. Manoharan, and H. A. Elliott (2007), CME Propagation Characteristics from Radio Observations, *Solar Phys.*, *244*, 167–188, doi:10.1007/s11207-007-9006-6.
- [110] Pulkkinen, T. I., N. Partamies, K. E. J. Huttunen, G. D. Reeves, and H. E. J. Koskinen (2007), Differences in geomagnetic storms driven by magnetic clouds and ICME sheath regions, *Geophys. Res. Lett.*, *34*, L02,105, doi:10.1029/2006GL027775.
- [111] Pulkkinen, T. I., M. Palmroth, and R. L. McPherron (2007), What drives magnetospheric activity under northward IMF conditions?, *Geophys. Res. Lett.*, *34*, L18104, doi:10.1029/2007GL030619.
- [112] Qin, Z., R. E. Denton, N. A. Tsyganenko, and S. Wolf (2007), Solar wind parameters for magnetospheric magnetic field modeling, *Space Weather*, *5*, S11,003, doi:10.1029/2006SW000296.

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [113] Quémerais, E., R. Lallement, D. Koutroumpa, and P. Lamy (2007), Velocity Profiles in the Solar Corona from Multi-Instrument Observations, *Astrophys. J.*, *667*, 1229–1234, doi:10.1086/520918.
- [114] Reiner, M. J., S. Krucker, D. E. Gary, B. L. Dougherty, M. L. Kaiser, and J.-L. Bougeret (2007), Radio and White-Light Coronal Signatures Associated with the RHESSI Hard X-Ray Event of 2002 July 23, *Astrophys. J.*, *657*, 1107–1116, doi:10.1086/510827.
- [115] Reiner, M. J., J. Fainberg, M. L. Kaiser, and J.-L. Bougeret (2007), Circular Polarization Observed in Interplanetary Type III Radio Storms, *Solar Phys.*, *241*, 351–370, doi:10.1007/s11207-007-0277-8.
- [116] Reiner, M. J., M. L. Kaiser, and J.-L. Bougeret (2007), Coronal and Interplanetary Propagation of CME/Shocks from Radio, In Situ and White-Light Observations, *Astrophys. J.*, *663*, 1369–1385, doi:10.1086/518683.
- [117] Riley, P. (2007), An Alternative Interpretation of the Relationship between the Inferred Open Solar Flux and the Interplanetary Magnetic Field, *Astrophys. J. Lett.*, *667*, L97–L100, doi:10.1086/522001.
- [118] Roberts, D. A., J. Giacalone, J. R. Jokipii, M. L. Goldstein, and T. D. Zepp (2007), Spectra of polar heliospheric fields and implications for field structure, *J. Geophys. Res.*, *112*, A08103, doi:10.1029/2007JA012247.
- [119] Rosenqvist, L., A. Kullen, and S. Buchert (2007), An unusual giant spiral arc in the polar cap region during the northward phase of a Coronal Mass Ejection, *Ann. Geophys.*, *25*, 507–517, doi:10.5194/angeo-25-507-2007.
- [120] Rouillard, A. P., M. Lockwood, and I. Finch (2007), Centennial changes in the solar wind speed and in the open solar flux, *J. Geophys. Res.*, *112*, A05103, doi:10.1029/2006JA012130.
- [121] Roy, N., P. K. Manoharan, and P. Chakraborty (2007), Occultation Observation to Probe the Turbulence Scale Size in the Plasma Tail of Comet Schwassmann-Wachmann 3-B, *Astrophys. J. Lett.*, *668*, L67–L70, doi:10.1086/522780.
- [122] Šafránková, J., Z. Němeček, L. Přech, A. A. Samsonov, A. Koval, and K. Andréová (2007), Modification of interplanetary shocks near the bow shock and through the magnetosheath, *J. Geophys. Res.*, *112*, 8212, doi:10.1029/2007JA012503.
- [123] Šafránková, J., Z. Němeček, L. Přech, A. A. Samsonov, A. Koval, and K. Andréová (2007), Interaction of interplanetary shocks with the bow shock, *Planet. Space Sci.*, *55*, 2324–2329, doi:10.1016/j.pss.2007.05.012.
- [124] Sandholt, P. E., and C. J. Farrugia (2007), Role of poleward moving auroral forms in the dawn-dusk auroral precipitation asymmetries induced by IMF  $B_y$ , *J. Geophys. Res.*, *112*, 4203, doi:10.1029/2006JA011952.

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [125] Sandholt, P. E., and C. J. Farrugia (2007), Poleward moving auroral forms (PMAFs) revisited: responses of aurorae, plasma convection and Birkeland currents in the pre- and postnoon sectors under positive and negative IMF  $B_y$  conditions, *Ann. Geophys.*, *25*, 1629–1652, doi:10.5194/angeo-25-1629-2007.
- [126] Saul, L., E. Möbius, P. Isenberg, and P. Bochsler (2007), On Pitch-Angle Scattering Rates of Interstellar Pickup Ions as Determined by in Situ Measurement of Velocity Distributions, *Astrophys. J.*, *655*, 672–677, doi:10.1086/509732.
- [127] Schwadron, N. A., and G. Gloeckler (2007), Pickup Ions and Cosmic Rays from Dust in the Heliosphere, *Space Sci. Rev.*, *130*, 283–291, doi:10.1007/s11214-007-9166-6.
- [128] Shen, C., Y. Wang, P. Ye, X. P. Zhao, B. Gui, and S. Wang (2007), Strength of Coronal Mass Ejection-driven Shocks near the Sun and Their Importance in Predicting Solar Energetic Particle Events, *Astrophys. J.*, *670*, 849–856, doi:10.1086/521716.
- [129] Shen, F., X. Feng, S. T. Wu, and C. Xiang (2007), Three-dimensional MHD simulation of CMEs in three-dimensional background solar wind with the self-consistent structure on the source surface as input: Numerical simulation of the January 1997 Sun-Earth connection event, *J. Geophys. Res.*, *112*, A06,109, doi:10.1029/2006JA012164.
- [130] Shevryev, N. N., J. Du, G. N. Zastenker, C. Wang, and P. E. Eiges (2007), Small-scale ion flux and magnetic field fluctuations in solar wind, foreshock and magnetosheath, *Chinese Phys.*, *16*, 1477–1487, doi:10.1088/1009-1963/16/5/052.
- [131] Stevens, M. L., and J. C. Kasper (2007), A scale-free analysis of magnetic holes at 1 AU, *J. Geophys. Res.*, *112*, A05,109, doi:10.1029/2006JA012116.
- [132] Tan, L. C., D. V. Reames, and C. K. Ng (2007), Bulk Flow Velocity and First-Order Anisotropy of Solar Energetic Particles Observed on the Wind Spacecraft: Overview of Three “Gradual” Particle Events, *Astrophys. J.*, *661*, 1297–1310, doi:10.1086/516626.
- [133] Thejappa, G., R. J. MacDowall, and M. L. Kaiser (2007), Monte Carlo Simulation of Directivity of Interplanetary Radio Bursts, *Astrophys. J.*, *671*, 894–906, doi:10.1086/522664.
- [134] Trimble, V., M. J. Aschwanden, and C. J. Hansen (2007), Astrophysics in 2006, *Space Sci. Rev.*, *132*, 1–182, doi:10.1007/s11214-007-9224-0.
- [135] Tsyganenko, N. A., and M. I. Sitnov (2007), Magnetospheric configurations from a high-resolution data-based magnetic field model, *J. Geophys. Res.*, *112*, A06225, doi:10.1029/2007JA012260.
- [136] Vaivads, A., A. I. Eriksson, M. André, L. G. Blomberg, J.-E. Wahlund, and S. D. Bale (2007), Low-frequency electric field and density fluctuation measurements on Solar Orbiter, *Adv. Space Res.*, *39*, 1502–1509, doi:10.1016/j.asr.2006.10.011.
- [137] Voiculescu, M., and T. Nygrén (2007), IMF effect on ionospheric trough occurrence at equinoxes, *Adv. Space Res.*, *40*, 1935–1940, doi:10.1016/j.asr.2007.04.108.

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [138] Vourlidas, A., M. Pick, S. Hoang, and P. Démoulin (2007), Identification of a Peculiar Radio Source in the Aftermath of Large Coronal Mass Ejection Events, *Astrophys. J.*, *656*, L105–L108, doi:10.1086/512607.
- [139] Vršnak, B., and T. Žic (2007), Transit times of interplanetary coronal mass ejections and the solar wind speed, *Astron. & Astrophys.*, *472*, 937–943, doi:10.1051/0004-6361:20077499.
- [140] Wang, C., J. B. Liu, Z. H. Huang, and J. D. Richardson (2007), Response of the magnetic field in the geosynchronous orbit to solar wind dynamic pressure pulses, *J. Geophys. Res.*, *112*, A12,210, doi:10.1029/2007JA012664.
- [141] Waters, C. L., K. Kabin, R. Rankin, E. Donovan, and J. C. Samson (2007), Effects of the magnetic field model and wave polarisation on the estimation of proton number densities in the magnetosphere using field line resonances, *Planet. Space Sci.*, *55*, 809–819, doi:10.1016/j.pss.2006.04.041.
- [142] Weidenspointner, G., J. Knödlseeder, P. Jean, G. K. Skinner, P. von Ballmoos, J.-P. Roques, G. Vedrenne, P. Milne, B. J. Teegarden, R. Diehl, A. Strong, S. Schanne, B. Cordier, and C. Winkler (2007), The Sky Distribution of 511 keV Positron Annihilation Line Emission as Measured with INTEGRAL/SP125, in *ESA Special Publication*, *ESA Special Publication*, vol. 622, pp. 25–+.
- [143] Wilson III, L. B., C. Cattell, P. J. Kellogg, K. Goetz, K. Kersten, L. Hanson, R. MacGregor, and J. C. Kasper (2007), Waves in Interplanetary Shocks: A Wind/WAVES Study, *Phys. Rev. Lett.*, *99*, 041,101–+, doi:10.1103/PhysRevLett.99.041101.
- [144] Wu, C.-C., and R. P. Lepping (2007), Comparison of the Characteristics of Magnetic Clouds and Magnetic Cloud-Like Structures for the Events of 1995 - 2003, *Solar Phys.*, *242*, 159–165, doi:10.1007/s11207-007-0323-6.
- [145] Wu, C.-C., C. D. Fry, S. T. Wu, M. Dryer, and K. Liou (2007), Three-dimensional global simulation of interplanetary coronal mass ejection propagation from the Sun to the heliosphere: Solar event of 12 May 1997, *J. Geophys. Res.*, *112*, A09,104, doi:10.1029/2006JA012211.
- [146] Wu, D. J., and L. Yang (2007), Nonlinear Interaction of Minor Heavy Ions with Kinetic Alfvén Waves and Their Anisotropic Energization in Coronal Holes, *Astrophys. J.*, *659*, 1693–1701, doi:10.1086/512117.
- [147] Wu, G.-P., G.-L. Huang, Y.-H. Tang, and Y. Dai (2007), The Origin and Acceleration of  $^3\text{He}$  and Heavy Ions in the 2000 July 14 Event, *Chinese J. Astron. & Astrophys.*, *7*, 141–147, doi:10.1088/1009-9271/7/1/11.
- [148] Xapsos, M. A., C. Stauffer, T. Jordan, J. L. Barth, and R. A. Mewaldt (2007), Model for Cumulative Solar Heavy Ion Energy and Linear Energy Transfer Spectra, *IEEE Trans. Nucl. Sci.*, *54*, 1985–1989, doi:10.1109/TNS.2007.910850.

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [149] Yagova, N., V. Pilipenko, J. Watermann, and K. Yumoto (2007), Control of high latitude geomagnetic fluctuations by interplanetary parameters: the role of suprathermal ions, *Ann. Geophys.*, *25*, 1037–1047, doi:10.5194/angeo-25-1037-2007.
- [150] Yermolaev, Y. I., M. Y. Yermolaev, N. S. Nikolaeva, and L. G. Lodkina (2007), Interplanetary conditions for CIR-induced and MC-induced geomagnetic storms, *Bulgarian J. Phys.*, *34*, 138.
- [151] Yermolaev, Y. I., M. Y. Yermolaev, I. G. Lodkina, and N. S. Nikolaeva (2007), Statistical investigation of heliospheric conditions resulting in magnetic storms, *Cosmic Res.*, *45*, 1–8, doi:10.1134/S0010952507010017.
- [152] Yermolaev, Y. I., M. Y. Yermolaev, I. G. Lodkina, and N. S. Nikolaeva (2007), Statistical investigation of Heliospheric conditions resulting in magnetic storms: 2, *Cosmic Res.*, *45*, 461–470, doi:10.1134/S0010952507060020.
- [153] Yuan, Z., and X. Deng (2007), Effects of continuous solar wind pressure variations on the long-lasting penetration of the interplanetary electric field during southward interplanetary magnetic field, *Adv. Space Res.*, *39*, 1342–1346, doi:10.1016/j.asr.2007.02.033.
- [154] Yurchyshyn, V., Q. Hu, R. P. Lepping, B. J. Lynch, and J. Krall (2007), Orientations of LASCO Halo CMEs and their connection to the flux rope structure of interplanetary CMEs, *Adv. Space Res.*, *40*, 1821–1826, doi:10.1016/j.asr.2007.01.059.
- [155] Zaalov, N. Y., E. M. Warrington, and A. J. Stocker (2007), Effect of geomagnetic activity on the channel scattering functions of HF signals propagating in the region of the midlatitude trough and the auroral zone, *Radio Sci.*, *42*, RS4005, doi:10.1029/2006RS003611.
- [156] Zarka, P., L. Lamy, B. Cecconi, R. Prangé, and H. O. Rucker (2007), Modulation of Saturn’s radio clock by solar wind speed, *Nature*, *450*, 265–267, doi:10.1038/nature06237.
- [157] Zastenker, G., and M. Riazantseva (2007), Multipoint observations of the dynamics of the sharp solar wind structure boundaries, *Planet. Space Sci.*, *55*, 2340–2346, doi:10.1016/j.pss.2007.05.016.
- [158] Zastenker, G. N. (2007), Dynamics of the Solar Wind, *Sun and Geosphere*, *2*, 25–28.
- [159] Zhang, B., E. Liang, K. L. Page, D. Grupe, B.-B. Zhang, S. D. Barthelmy, D. N. Burrows, S. Campana, G. Chincarini, N. Gehrels, S. Kobayashi, P. Mészáros, A. Moretti, J. A. Nousek, P. T. O’Brien, J. P. Osborne, P. W. A. Roming, T. Sakamoto, P. Schady, and R. Willingale (2007), GRB Radiative Efficiencies Derived from the Swift Data: GRBs versus XRFs, Long versus Short, *Astrophys. J.*, *655*, 989–1001, doi:10.1086/510110.
- [160] Zhang, J., I. G. Richardson, D. F. Webb, N. Gopalswamy, E. Huttunen, J. C. Kasper, N. V. Nitta, W. Poomvises, B. J. Thompson, C.-C. Wu, S. Yashiro, and A. N. Zhukov (2007), Solar and interplanetary sources of major geomagnetic storms ( $Dst \leq -100$  nT) during 1996–2005, *J. Geophys. Res.*, *112*, A10,102, doi:10.1029/2007JA012321.

**List of Refereed Publications**  
**Wind Spacecraft: 2007**

- [161] Zhukov, A. N. (2007), Using CME Observations for Geomagnetic Storm Forecasting, in *Space Weather : Research Towards Applications in Europe 2nd European Space Weather Week (ESWW2)*, *Astrophysics and Space Science Library*, vol. 344, edited by J. Liliensten, pp. 5–+, doi:10.1007/1-4020-5446-7\_2.
- [162] Zolotukhina, N., and J. Cao (2007), Transformation of structured Pc1 into IPDP-like emission under enhanced magnetospheric convection: A case study, *J. Atmos. Solar-Terr. Phys.*, *69*, 1668–1679, doi:10.1016/j.jastp.2007.01.016.
- [163] Zolotukhina, N., V. Pilipenko, M. Engebretson, and A. Rodger (2007), Response of the inner and outer magnetosphere to solar wind density fluctuations during the recovery phase of a moderate magnetic storm, *J. Atmos. Solar-Terr. Phys.*, *69*, 1707–1722, doi:10.1016/j.jastp.2007.02.011.
- [164] Zuo, P. B., and X. S. Feng (2007), The Plasma and Magnetic Field Characteristics of a Double Discontinuity in Interplanetary Space, *Solar Phys.*, *240*, 347–357, doi:10.1007/s11207-007-0278-7.
- [165] Zuo, P. B., F. S. Wei, X. S. Feng, and F. Yang (2007), The Relationship between the Magnetic Cloud Boundary Layer and the Substorm Expansion Phase, *Solar Phys.*, *242*, 167–185, doi:10.1007/s11207-007-0407-3.