References

[1] Agueda, N., R. Vainio, D. Lario, and B. Sanahuja (2009), The influence of in situ pitch-angle cosine coverage on the derivation of solar energetic particle injection and interplanetary transport conditions, *Adv. Space Res.*, **44**, 794–800, 10.1016/j.asr.2009.05.023.

[2] Agueda, N., D. Lario, R. Vainio, B. Sanahuja, E. Kilpua, and S. Pohjolainen (2009), Modeling solar near-relativistic electron events. Insights into solar injection and interplanetary transport conditions, *Astron. & Astrophys.*, **507**, 981–993, 10.1051/0004-6361/200912224.

[3] Amata, E., S. P. Savin, G. Consolini, L. Trenchi, D. Ambrosino, R. Treumann, and M. F. Marcucci (2009), High kinetic energy density jets in the Earth's magnetosheath: preliminary results, *Mem. Soc. Astron. Ital.*, **80**, 259–+.

[4] Andréeová, K. (2009), The study of instabilities in the solar wind and magnetosheath and their interaction with the Earth's magnetosphere, *Planet. Space Sci.*, **57**, 888–890, 10.1016/j.pss.2008.12.005.

[5] Antonova, E. E., I. P. Kirpichev, I. L. Ovchinnikov, K. G. Orlova, and M. V. Stepanova (2009), High latitude magnetospheric topology and magnetospheric substorm, *Ann. Geophys.*, **27**, 4069–4073, 10.5194/angeo-27-4069-2009.

[6] Aptekar, R. L., T. L. Cline, D. D. Frederiks, S. V. Golenetskii, E. P. Mazets, and V. D. Pal'shin (2009), Konus-Wind Observations of the New Soft Gamma-Ray Repeater SGR 0501+4516, *Astrophys. J.*, **698**, L82–L85, 10.1088/0004-637X/698/2/L82.

[7] Aurass, H., F. Landini, and G. Poletto (2009), Coronal current sheet signatures during the 17 May 2002 CME-flare, *Astron. & Astrophys.*, **506**(2), 901–911, 10.1051/0004-6361/200912229.

[8] Badman, S. V., D. M. Wright, L. B. N. Clausen, R. C. Fear, T. R. Robinson, and T. K. Yeoman (2009), Cluster spacecraft observations of a ULF wave enhanced by Space Plasma Exploration by Active Radar (SPEAR), *Ann. Geophys.*, **27**, 3591–3599, 10.5194/angeo-27-3591-2009.

[9] Bain, H. M., and L. Fletcher (2009), Hard X-ray emission from a flare-related jet, *Astron. & Astrophys.*, **508**, 1443–1452, 10.1051/0004-6361/200911876.

[10] Bale, S. D., J. C. Kasper, G. G. Howes, E. Quataert, C. Salem, and D. Sundkvist (2009), Magnetic Fluctuation Power Near Proton Temperature Anisotropy Instability Thresholds in the Solar Wind, *Phys. Rev. Lett.*, **103**, 211,101–+, 10.1103/PhysRevLett.103.211101.

[11] Bazilevskaya, G. A. (2009), On the early phase of relativistic solar particle events: Are there signatures of acceleration mechanism?, *Adv. Space Res.*, **43**, 530–536, 10.1016/j.asr.2008.08.005.

[12] Birch, M. J., J. K. Hargreaves, B. J. I. Bromage, and D. S. Evans (2009), Effects of high-speed solar wind on energetic electron activity in the auroral regions during July 1-2, 2005, *J. Atmos. Solar-Terr. Phys.*, **71**, 1190–1209, 10.1016/j.jastp.2009.02.008.

[13] Bisi, M. M., B. V. Jackson, A. Buffington, J. M. Clover, P. P. Hick, and M. Tokumaru (2009), Low-Resolution STELab IPS 3D Reconstructions of the Whole Heliosphere Interval and Comparison with in-Ecliptic Solar Wind Measurements from STEREO and Wind Instrumentation, *Solar Phys.*, **256**, 201–217, 10.1007/s11207-009-9350-9.

[14] Bisi, M. M., B. V. Jackson, J. M. Clover, P. K. Manoharan, M. Tokumaru, P. P. Hick, and A. Buffington (2009), 3-D reconstructions of the early-November 2004 CDAW geomagnetic storms: analysis of Ooty IPS speed and density data, *Ann. Geophys.*, **27**, 4479–4489, 10.5194/angeo-27-4479-2009.

[15] Bochsler, P. (2009), Composition of matter in the heliosphere, in *IAU Symposium*, *IAU Symposium*, vol. 257, edited by N. Gopalswamy & D. F. Webb, pp. 17–28, 10.1017/S1743921309029044.

[16] Bone, L. A., L. van Driel-Gesztelyi, J. L. Culhane, G. Aulanier, and P. Liewer (2009), Formation, Interaction and Merger of an Active Region and a Quiescent Filament Prior to Their Eruption on 19 May 2007, *Solar Phys.*, **259**, 31–47, 10.1007/s11207-009-9427-5.

[17] Borovsky, J. E., and M. H. Denton (2009), Relativistic-electron dropouts and recovery: A superposed epoch study of the magnetosphere and the solar wind, *J. Geophys. Res.*, **114**, A02201, 10.1029/2008JA013128.

[18] Bougeret, J.-L., R. von Steiger, D. F. Webb, S. Ananthakrishnan, H. V. Cane, N. Gopalswamy, S. W. Kahler, R. Lallement, B. Sanahuja, K. Shibata, M. Vandas, and F. Verheest (2009), Commission 49: Interplanetary Plasma and Heliosphere, *Trans. Int. Astron. Union, Series A*, **27**, 124–144, 10.1017/S1743921308025374.

[19] Burlaga, L. F., N. F. Ness, M. H. Acuña, Y.-M. Wang, and N. R. Sheeley (2009), Radial and solar cycle variations of the magnetic fields in the heliosheath: Voyager 1 observations from 2005 to 2008, *J. Geophys. Res.*, **114**, A06106, 10.1029/2009JA014071.

[20] Caroubalos, C., P. Preka-Papadema, H. Mavromichalaki, X. Moussas, A. Papaioannou, E. Mitsakou, and A. Hillaris (2009), Space storm measurements of the July 2005 solar extreme events from the low corona to the Earth, *Adv. Space Res.*, **43**, 600–604, 10.1016/j.asr.2008.09.019.

[21] Charan Dwivedi, V., D. P. Tiwari, and S. P. Agrawal (2009), Study of the long-term variability of interplanetary plasma and fields as a link for solar-terrestrial relationships, *J. Geophys. Res.*, **114**, A05108, 10.1029/2009JA014171.

[22] Cheng, C.-C., C. T. Russell, and J.-H. Shue (2009), On the association of quiet-time Pi2 pulsations with IMF variations, *Adv. Space Res.*, **43**, 1118–1129, 10.1016/j.asr.2008.12.001.

[23] Chollet, E. E., J. Giacalone, R. M. Skoug, J. T. Steinberg, and J. T. Gosling (2009), Spatial Offsets of Interplanetary Ion and Electron Source Regions, *Astrophys. J.*, **705**, 1492–1495, 10.1088/0004-637X/705/2/1492.

[24] Cliver, E. W., and A. G. Ling (2009), Low-Frequency Type III Bursts and Solar Energetic Particle Events, *Astrophys. J.*, **690**, 598–609, 10.1088/0004-637X/690/1/598.

[25] Dasso, S., C. H. Mandrini, B. Schmieder, H. Cremades, C. Cid, Y. Cerrato, E. Saiz, P. Démoulin, A. N. Zhukov, L. Rodriguez, A. Aran, M. Menvielle, and S. Poedts (2009), Linking two consecutive nonmerging magnetic clouds with their solar sources, *J. Geophys. Res.*, **114**, A02,109, 10.1029/2008JA013102.

[26] Davis, C. J., J. A. Davies, M. Lockwood, A. P. Rouillard, C. J. Eyles, and R. A. Harrison (2009), Stereoscopic imaging of an Earth-impacting solar coronal mass ejection: A major milestone for the STEREO mission, *Geophys. Res. Lett.*, **360**, L08,102, 10.1029/2009GL038021.

[27] Dayeh, M. A., M. I. Desai, J. R. Dwyer, H. K. Rassoul, G. M. Mason, and J. E. Mazur (2009), Composition and Spectral Properties of the 1 AU Quiet-Time Suprathermal Ion Population During Solar Cycle 23, *Astrophys. J.*, **693**, 1588–1600, 10.1088/0004-637X/693/2/1588.

[28] Denton, M. H., and J. E. Borovsky (2009), The superdense plasma sheet in the magnetosphere during high-speed-stream-driven storms: Plasma transport timescales, *J. Atmos. Solar-Terr. Phys.*, **71**, 1045–1058, 10.1016/j.jastp.2008.04.023.

[29] Desai, M. I., M. A. Dayeh, and G. M. Mason (2009), Origin of Quiet-Time Suprathermal Heavy Ions Near 1 AU, in *American Institute of Physics Conference Series*, *American Institute of Physics Conference Series*, vol. 1183, edited by X. Ao & G. Z. R. Burrows, pp. 11–18, 10.1063/1.3266766.

[30] Despirak, I. V., A. A. Lubchich, A. G. Yahnin, B. V. Kozelov, and H. K. Biernat (2009), Development of substorm bulges during different solar wind structures, *Ann. Geophys.*, **27**, 1951–1960, 10.5194/angeo-27-1951-2009.

[31] Drake, J. F., M. Swisdak, T. D. Phan, P. A. Cassak, M. A. Shay, S. T. Lepri, R. P. Lin, E. Quataert, and T. H. Zurbuchen (2009), Ion heating resulting from pickup in magnetic reconnection exhausts, *J. Geophys. Res.*, **114**, A05,111, 10.1029/2008JA013701.

[32] Dröge, W., and Y. Y. Kartavykh (2009), Testing Transport Theories with Solar Energetic Particles, *Astrophys. J.*, **693**, 69–74, 10.1088/0004-637X/693/1/69.

[33] Egedal, J., W. Daughton, J. F. Drake, N. Katz, and A. Lê (2009), Formation of a localized acceleration potential during magnetic reconnection with a guide field, *Phys. Plasmas*, **16**, 050,701–+, 10.1063/1.3130732.

[34] Emery, B. A., I. G. Richardson, D. S. Evans, and F. J. Rich (2009), Solar wind structure sources and periodicities of auroral electron power over three solar cycles, *J. Atmos. Solar-Terr. Phys.*, **71**, 1157–1175, 10.1016/j.jastp.2008.08.005.

[35] Eriksson, S., J. T. Gosling, T. D. Phan, L. M. Blush, K. D. C. Simunac, D. Krauss-Varban, A. Szabo, J. G. Luhmann, C. T. Russell, A. B. Galvin, and M. H. Acuña (2009),

Asymmetric shear flow effects on magnetic field configuration within oppositely directed solar wind reconnection exhausts, *J. Geophys. Res.*, **114**, A07103, 10.1029/2008JA013990.

[36] Farrugia, C. J., N. V. Erkaev, N. C. Maynard, I. G. Richardson, P. E. Sandholt, D. Langmayr, K. W. Ogilvie, A. Szabo, U. Taubenschuss, R. B. Torbert, and H. K. Biernat (2009), Effects on the distant geomagnetic tail of a fivefold density drop in the inner sheath region of a magnetic cloud: A joint Wind-ACE study, *Adv. Space Res.*, **44**, 1288–1294, 10.1016/j.asr.2009.07.003.

[37] Fear, R. C., S. E. Milan, A. N. Fazakerley, K.-H. Fornaçon, C. M. Carr, and I. Dandouras (2009), Simultaneous observations of flux transfer events by THEMIS, Cluster, Double Star, and SuperDARN: Acceleration of FTEs, *J. Geophys. Res.*, **114**, A10,213, 10.1029/2009JA014310.

[38] Feng, H. Q., and D. J. Wu (2009), Observations of a Small Interplanetary Magnetic Flux Rope Associated with a Magnetic Reconnection Exhaust, *Astrophys. J.*, **705**, 1385–1387, 10.1088/0004-637X/705/2/1385.

[39] Feng, H. Q., C. C. Lin, J. K. Chao, D. J. Wu, L. H. Lyu, and L. C. Lee (2009), Observations of an interplanetary switch-on shock driven by a magnetic cloud, *Geophys. Res. Lett.*, **360**, L07,106, 10.1029/2009GL037354.

[40] Feng, H. Q., J. M. Wang, and J. K. Chao (2009), Observations of a subcritical switch-on shock, *Astron. & Astrophys.*, **503**, 203–206, 10.1051/0004-6361/200811217.

[41] Francia, P., U. Villante, and M. Vellante (2009), A Comparative Analysis of Ground, Magnetospheric and Interplanetary Observations of Long Period Magnetic Oscillations, *Earth Moon and Planets*, **104**, 33–36, 10.1007/s11038-008-9244-0.

[42] Galvin, A. B., M. A. Popecki, K. D. C. Simunac, L. M. Kistler, L. Ellis, J. Barry, L. Berger, L. M. Blush, P. Bochsler, C. J. Farrugia, L. K. Jian, E. K. J. Kilpua, B. Klecker, M. Lee, Y. C.-M. Liu, J. L. Luhmann, E. Moebius, A. Opitz, C. T. Russell, B. Thompson, R. F. Wimmer-Schweingruber, and P. Wurz (2009), Solar wind ion trends and signatures: STEREO PLASTIC observations approaching solar minimum, *Ann. Geophys.*, **27**, 3909–3922, 10.5194/angeo-27-3909-2009.

[43] Gibson, S. E., J. U. Kozyra, G. de Toma, B. A. Emery, T. Onsager, and B. J. Thompson (2009), If the Sun is so quiet, why is the Earth ringing? A comparison of two solar minimum intervals, *J. Geophys. Res.*, **114**, A09105, 10.1029/2009JA014342.

[44] Gnavi, G., F. T. Gratton, C. J. Farrugia, and L. E. Bilbao (2009), Supersonic mixing layers: Stability of magnetospheric flanks models, *J. Phys. Conf. Ser.*, **166**, 012,022, 10.1088/1742-6596/166/1/012022.

[45] Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, P. Oleynik, M. Ulanov, D. Svinkin, and T. Cline (2009), Konus-wind and Konus-RF observations of GRB 090618., *GRB Coordinates Network*, **9553**, 1–+.

[46] Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, P. Oleynik, M. Ulanov, and D. Svinkin (2009), Konus-wind and Konus-RF observations of GRB 090709A., *GRB Coordinates Network*, **9647**, 1–+.

[47] Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, P. Oleynik, M. Ulanov, D. Svinkin, and T. Cline (2009), Konus-wind and Konus-RF observations of GRB 090406., *GRB Coordinates Network*, **9103**, 1–+.

[48] Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, P. Oleynik, M. Ulanov, D. Svinkin, and T. Cline (2009), Konus-wind and Konus-RF observations of GRB 090408b., *GRB Coordinates Network*, **9121**, 1–+.

[49] Golenetskii, S., R. Aptekar, D. Frederiks, E. Mazets, V. Pal'Shin, P. Oleynik, M. Ulanov, D. Svinkin, and T. Cline (2009), Konus-wind and Konus-RF observations of GRB 090715B., *GRB Coordinates Network*, **9679**, 1–+.

[50] Golenetskii, S., R. Aptekar, D. Frederiks, E. Mazets, V. Pal'Shin, P. Oleynik, M. Ulanov, D. Svinkin, and T. Cline (2009), Konus-wind and Konus-RF observations of GRB 090719., *GRB Coordinates Network*, **9704**, 1–+.

[51] Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, P. Oleynik, M. Ulanov, D. Svinkin, and T. Cline (2009), Konus-wind and Konus-RF observations of GRB 090926A., *GRB Coordinates Network*, **9959**, 1–+.

[52] Golenetskii, S., R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, P. Oleynik, M. Ulanov, D. Svinkin, and T. Cline (2009), Konus-wind and Konus-RF observations of GRB 091024., *GRB Coordinates Network*, **10083**, 1–+.

[53] Golenetskii, S., R. Aptekar, D. Frederiks, E. Mazets, V. Pal'Shin, P. Oleynik, M. Ulanov, and D. Svinkin (2009), Konus-wind and Konus-RF observations of GRB 091031., *GRB Coordinates Network*, **10166**, 1–+.

[54] Gopalswamy, N., P. Mäkelä, H. Xie, S. Akiyama, and S. Yashiro (2009), CME interactions with coronal holes and their interplanetary consequences, *J. Geophys. Res.*, **114**, A00A22, 10.1029/2008JA013686.

[55] Gopalswamy, N., S. Yashiro, G. Michalek, G. Stenborg, A. Vourlidas, S. Freeland, and R. Howard (2009), The SOHO/LASCO CME Catalog, *Earth Moon and Planets*, **104**, 295–313, 10.1007/s11038-008-9282-7.

[56] Gopalswamy, N., W. T. Thompson, J. M. Davila, M. L. Kaiser, S. Yashiro, P. Mäkelä, G. Michalek, J.-L. Bougeret, and R. A. Howard (2009), Relation Between Type II Bursts and CMEs Inferred from STEREO Observations, *Solar Phys.*, **259**, 227–254, 10.1007/s11207-009-9382-1.

[57] Gosling, J. T. (2009), Magnetic reconnection in the heliosphere: new insights from observations in the solar wind, in *IAU Symposium*, *IAU Symposium*, vol. 257, edited by N. Gopalswamy & D. F. Webb, pp. 367–377, 10.1017/S1743921309029597.

[58] Grayson, J. A., S. Krucker, and R. P. Lin (2009), A Statistical Study of Spectral Hardening in Solar Flares and Related Solar Energetic Particle Events, *Astrophys. J.*, **707**, 1588–1594, 10.1088/0004-637X/707/2/1588.

[59] Grib, S. A., and V. B. Belakhovsky (2009), Effect of the interplanetary secondary rarefaction waves on the geomagnetic field, *Geomagnetism and Aeronomy*, **49**, 733–740, 10.1134/S001679320906005X.

[60] Grigoryeva, I. Y., V. N. Borovik, M. A. Livshits, V. E. Abramov-Maximov, L. V. Opeikina, V. M. Bogod, and A. N. Korzhavin (2009), Post-Eruptive Arcade Formation in the 25 January 2007 CME/Flare Limb Event: Microwave Observations with the RATAN-600 Radio Telescope, *Solar Phys.*, **260**, 157–175, 10.1007/s11207-009-9426-6.

[61] Guo, J., Z. Yang, Q. Lu, and S. Wang (2009), The Nonlinear Evolution of Ion Cyclotron Waves in the Earth's Magnetosheath, *Plasma Sci. Tech.*, **11**, 274–278, 10.1088/1009-0630/11/3/05.

[62] Hosokawa, K., T. Kashimoto, S. Suzuki, K. Shiokawa, Y. Otsuka, and T. Ogawa (2009), Motion of polar cap patches: A statistical study with all-sky airglow imager at Resolute Bay, Canada, *J. Geophys. Res.*, **114**, A04318, 10.1029/2008JA014020.

[63] Hurley, K., T. Cline, I. G. Mitrofanov, D. Golovin, M. L. Litvak, A. B. Sanin, W. Boynton, C. Fellows, K. Harshman, R. Starr, S. Golenetskii, R. Aptekar, E. Mazets, V. Pal'Shin, D. Frederiks, D. M. Smith, C. Wigger, W. Hajdas, A. Zehnder, A. von Kienlin, G. G. Lichti, A. Rau, K. Yamaoka, M. Ohno, Y. Fukazawa, T. Takahashi, M. Tashiro, Y. Terada, T. Murakami, K. Makishima, S. Barthelmy, J. Cummings, N. Gehrels, H. Krimm, J. Goldsten, E. Del Monte, M. Feroci, and M. Marisaldi (2009), The Status and Future of the Third Interplanetary Network, in *American Institute of Physics Conference Series*, *American Institute of Physics Conference Series*, vol. 1133, edited by C. Meegan, C. Kouveliotou, and N. Gehrels, pp. 55–57, 10.1063/1.3155966.

[64] Huttunen-Heikinmaa, K., and E. Valtonen (2009), Interplanetary fast forward shocks and energetic storm particle events above 1.5 MeV, *Ann. Geophys.*, **27**, 767–779, 10.5194/angeo-27-767-2009.

[65] Issautier, K. (2009), Diagnostics of the Solar Wind Plasma, in *Turbulence in Space Plasmas*, *Lecture Notes in Physics, Berlin Springer Verlag*, vol. 778, edited by P. Cargill & L. Vlahos, pp. 223–+, 10.1007/978-3-642-00210-6_6.

[66] Jackson, B. V., P. P. Hick, A. Buffington, M. M. Bisi, and J. M. Clover (2009), SMEI direct, 3-D-reconstruction sky maps, and volumetric analyses, and their comparison with SOHO and STEREO observations, *Ann. Geophys.*, **27**, 4097–4104, 10.5194/angeo-27-4097-2009.

[67] Jayachandran, P. T., R. B. Langley, J. W. MacDougall, S. C. Mushini, D. Pokhotelov, A. M. Hamza, I. R. Mann, D. K. Milling, Z. C. Kale, R. Chadwick, T. Kelly, D. W. Danskin, and C. S. Carrano (2009), Canadian High Arctic Ionospheric Network (CHAIN), *Radio Sci.*, **44**, RS0A03, 10.1029/2008RS004046.

[68] Jian, L. K., C. T. Russell, J. G. Luhmann, A. B. Galvin, and P. J. MacNeice (2009), Multi-Spacecraft Observations: Stream Interactions and Associated Structures, *Solar Phys.*, **259**, 345–360, 10.1007/s11207-009-9445-3.

[69] Kahler, S. W., and B. R. Ragot (2009), Viewing radiation signatures of solar energetic particles in interplanetary space, *Adv. Space Res.*, **43**, 1484–1490, 10.1016/j.asr.2009.01.013.

[70] Kahler, S. W., A. J. Tylka, and D. V. Reames (2009), A Comparison of Elemental Abundance Ratios in Sep Events in Fast and Slow Solar Wind Regions, *Astrophys. J.*, **701**, 561–570, 10.1088/0004-637X/701/1/561.

[71] Kamei, S., A. Nakamizo, T. Tanaka, T. Obara, and H. Shimazu (2009), Development of the global simulation model of the heliosphere, *Earth, Planets, and Space*, **61**, 581–584, 10.1186/BF03352927.

[72] Kataoka, R., T. Ebisuzaki, K. Kusano, D. Shiota, S. Inoue, T. T. Yamamoto, and M. Tokumaru (2009), Three-dimensional MHD modeling of the solar wind structures associated with 13 December 2006 coronal mass ejection, *J. Geophys. Res.*, **114**, A10102, 10.1029/2009JA014167.

[73] Kazachenko, M. D., R. C. Canfield, D. W. Longcope, J. Qiu, A. Des Jardins, and R. W. Nightingale (2009), Sunspot Rotation, Flare Energetics, and Flux Rope Helicity: The Eruptive Flare on 2005 May 13, *Astrophys. J.*, **704**, 1146–1158, 10.1088/0004-637X/704/2/1146.

[74] Keika, K., R. Nakamura, W. Baumjohann, V. Angelopoulos, P. J. Chi, K. H. Glassmeier, M. Fillingim, W. Magnes, H. U. Auster, K. H. Fornaçon, G. D. Reeves, K. Yumoto, E. A. Lucek, C. M. Carr, and I. Dandouras (2009), Substorm expansion triggered by a sudden impulse front propagating from the dayside magnetopause, *J. Geophys. Res.*, **114**, A00C24, 10.1029/2008JA013445.

[75] Keika, K., R. Nakamura, W. Baumjohann, V. Angelopoulos, K. Kabin, K. H. Glassmeier, D. G. Sibeck, W. Magnes, H. U. Auster, K. H. Fornaçon, J. P. McFadden, C. W. Carlson, E. A. Lucek, C. M. Carr, I. Dandouras, and R. Rankin (2009), Deformation and evolution of solar wind discontinuities through their interactions with the Earth's bow shock, *J. Geophys. Res.*, **114**, A00C26, 10.1029/2008JA013481.

[76] Kilpua, E. K. J., P. C. Liewer, C. Farrugia, J. G. Luhmann, C. Möstl, Y. Li, Y. Liu, B. J. Lynch, C. T. Russell, A. Vourlidas, M. H. Acuna, A. B. Galvin, D. Larson, and J. A. Sauvaud (2009), Multispacecraft Observations of Magnetic Clouds and Their Solar Origins between 19 and 23 May 2007, *Solar Phys.*, **254**, 325–344, 10.1007/s11207-008-9300-y.

[77] Kilpua, E. K. J., J. G. Luhmann, J. Gosling, Y. Li, H. Elliott, C. T. Russell, L. Jian, A. B. Galvin, D. Larson, P. Schroeder, K. Simunac, and G. Petrie (2009), Small Solar Wind Transients and Their Connection to the Large-Scale Coronal Structure, *Solar Phys.*, **256**, 327–344, 10.1007/s11207-009-9366-1.

[78] Kilpua, E. K. J., J. Pomoell, A. Vourlidas, R. Vainio, J. Luhmann, Y. Li, P. Schroeder, A. B. Galvin, and K. Simunac (2009), STEREO observations of interplanetary coronal mass ejections and prominence deflection during solar minimum period, *Ann. Geophys.*, **27**, 4491–4503, 10.5194/angeo-27-4491-2009.

[79] Kim, E.-H., J. R. Johnson, I. H. Cairns, and D.-H. Lee (2009), Waves in Space Plasmas, in *American Institute of Physics Conference Series*, *American Institute of Physics Conference Series*, vol. 1187, edited by V. Bobkov & J.-M. Noterdaeme, pp. 13–20, 10.1063/1.3273713.

[80] Kim, H.-J., L. R. Lyons, S. Zou, A. Boudouridis, D.-Y. Lee, C. Heinselman, and M. McCready (2009), Evidence that solar wind fluctuations substantially affect the strength of dayside ionospheric convection, *J. Geophys. Res.*, **114**, A11,305, 10.1029/2009JA014280.

[81] Kim, K.-H., K. S. Park, T. Ogino, D.-H. Lee, S.-K. Sung, and Y.-S. Kwak (2009), Global MHD simulation of the geomagnetic sudden commencement on 21 October 1999, *J. Geophys. Res.*, **114**, A08,212, 10.1029/2009JA014109.

[82] Kiyani, K. H., S. C. Chapman, and N. W. Watkins (2009), Pseudononstationarity in the scaling exponents of finite-interval time series, *Phys. Rev. E*, **79**, 036,109–+, 10.1103/PhysRevE.79.036109.

[83] Kocharov, L., T. Laitinen, A. Al-Sawad, O. Saloniemi, E. Valtonen, and M. J. Reiner (2009), Gradual Solar Energetic Particle Event Associated with a Decelerating Shock Wave, *Astrophys. J.*, **700**, L51–L55, 10.1088/0004-637X/700/1/L51.

[84] Kontar, E. P., and H. A. S. Reid (2009), Onsets and Spectra of Impulsive Solar Energetic Electron Events Observed Near the Earth, *Astrophys. J.*, **695**, L140–L144, 10.1088/0004-637X/695/2/L140.

[85] Krucker, S., P. H. Oakley, and R. P. Lin (2009), Spectra of Solar Impulsive Electron Events Observed Near Earth, *Astrophys. J.*, **691**, 806–810, 10.1088/0004-637X/691/1/806.

[86] Kubyshkina, M., V. Sergeev, N. Tsyganenko, V. Angelopoulos, A. Runov, H. Singer, K. H. Glassmeier, H. U. Auster, and W. Baumjohann (2009), Toward adapted time-dependent magnetospheric models: A simple approach based on tuning the standard model, *J. Geophys. Res.*, **114**, A00C21, 10.1029/2008JA013547.

[87] Kullen, A., S. Ohtani, and T. Karlsson (2009), Geomagnetic signatures of auroral substorms preceded by pseudobreakups, *J. Geophys. Res.*, **114**, A04201, 10.1029/2008JA013712.

[88] Lam, H.-L. (2009), Enhancement of solar wind low-energy energetic particles as precursor of geomagnetic disturbance in operational geomagnetic forecast, *Adv. Space Res.*, **43**, 1299–1313, 10.1016/j.asr.2009.01.010.

[89] Lara, A., and A. I. Borgazzi (2009), Dynamics of interplanetary CMEs and associated type II bursts, in *IAU Symposium*, *IAU Symposium*, vol. 257, edited by N. Gopalswamy & D. F. Webb, pp. 287–290, 10.1017/S1743921309029421.

[90] Laurenza, M., E. W. Cliver, J. Hewitt, M. Storini, A. G. Ling, C. C. Balch, and M. L. Kaiser (2009), A technique for short-term warning of solar energetic particle events based on flare location, flare size, and evidence of particle escape, *Space Weather*, **70**, S04,008, 10.1029/2007SW000379.

[91] Lavraud, B., J. T. Gosling, A. P. Rouillard, A. Fedorov, A. Opitz, J.-A. Sauvaud, C. Foullon, I. Dandouras, V. Génot, C. Jacquey, P. Louarn, C. Mazelle, E. Penou, T. D. Phan, D. E. Larson, J. G. Luhmann, P. Schroeder, R. M. Skoug, J. T. Steinberg, and C. T. Russell (2009), Observation of a Complex Solar Wind Reconnection Exhaust from Spacecraft Separated by over 1800 R_E, *Solar Phys.*, **256**, 379–392, 10.1007/s11207-009-9341-x.

[92] Leamon, R. J., and S. W. McIntosh (2009), How the Solar Wind Ties to its Photospheric Origins, *Astrophys. J. Lett.*, **697**, L28–L32, 10.1088/0004-637X/697/1/L28.

[93] Lee, C. O., J. G. Luhmann, X. P. Zhao, Y. Liu, P. Riley, C. N. Arge, C. T. Russell, and I. de Pater (2009), Effects of the Weak Polar Fields of Solar Cycle 23: Investigation Using OMNI for the STEREO Mission Period, *Solar Phys.*, **256**, 345–363, 10.1007/s11207-009-9345-6.

[94] Leitner, M., C. J. Farrugia, A. Galvin, K. D. C. Simunac, H. K. Biernat, and V. A. Osherovich (2009), The Solar Wind Quasi-Invariant Observed by STEREO A and B at Solar Minimum 2007 and Comparison with Two Other Minima, *Solar Phys.*, **259**, 381–388, 10.1007/s11207-009-9412-z.

[95] Leitner, M., Z. Vörös, and M. P. Leubner (2009), Introducing log-kappa distributions for solar wind analysis, *J. Geophys. Res.*, **114**, A12,104, 10.1029/2009JA014476.

[96] Lepping, R. P., T. W. Narock, and C.-C. Wu (2009), A scheme for finding the front boundary of an interplanetary magnetic cloud, *Ann. Geophys.*, **27**, 1295–1311, 10.5194/angeo-27-1295-2009.

[97] Li, C., Y. Dai, J.-C. Vial, C. J. Owen, S. A. Matthews, Y. H. Tang, C. Fang, and A. N. Fazakerley (2009), Solar source of energetic particles in interplanetary space during the 2006 December 13 event, *Astron. & Astrophys.*, **503**, 1013–1021, 10.1051/0004-6361/200911986.

[98] Li, H. J., X. S. Feng, P. B. Zuo, and Y. Q. Xie (2009), Inferring interplanetary flux rope orientation with the minimum residue method, *J. Geophys. Res.*, **114**, A03,102, 10.1029/2008JA013331.

[99] Li, W., J. Raeder, M. Øieroset, and T. D. Phan (2009), Cold dense magnetopause boundary layer under northward IMF: Results from THEMIS and MHD simulations, *J. Geophys. Res.*, **114**, A00C15, 10.1029/2008JA013497.

[100] Lin, C. C., H. Q. Feng, D. J. Wu, J. K. Chao, L. C. Lee, and L. H. Lyu (2009), Two-spacecraft observations of an interplanetary slow shock, *J. Geophys. Res.*, **114**, A03,105, 10.1029/2008JA013154.

[101] Lockwood, M., and M. Owens (2009), The Accuracy of Using the Ulysses Result of the Spatial Invariance of the Radial Heliospheric Field to Compute the Open Solar Flux, *Astrophys. J.*, **701**, 964–973, 10.1088/0004-637X/701/2/964.

[102] Lockwood, M., M. Hairston, I. Finch, and A. Rouillard (2009), Transpolar voltage and polar cap flux during the substorm cycle and steady convection events, *J. Geophys. Res.*, **114**, A01210, 10.1029/2008JA013697.

[103] Lockwood, M., A. P. Rouillard, and I. D. Finch (2009), The Rise and Fall of Open Solar Flux During the Current Grand Solar Maximum, *Astrophys. J.*, **700**, 937–944, 10.1088/0004-637X/700/2/937.

[104] Lockwood, M., M. Owens, and A. P. Rouillard (2009), Excess open solar magnetic flux from satellite data: 2. A survey of kinematic effects, *J. Geophys. Res.*, **114**, A11,104, 10.1029/2009JA014450.

[105] Lopez, R. E., J. G. Lyon, E. Mitchell, R. Bruntz, V. G. Merkin, S. Brogl, F. Toffoletto, and M. Wiltberger (2009), Why doesn't the ring current injection rate saturate?, *J. Geophys. Res.*, **114**, A02204, 10.1029/2008JA013141.

[106] Luan, X., W. Wang, A. G. Burns, S. C. Solomon, Y. Zhang, and L. J. Paxton (2009), Unusual declining phase of solar cycle 23: Weak semi-annual variations of auroral hemispheric power and geomagnetic activity, *Geophys. Res. Lett.*, **36**, L22102, 10.1029/2009GL040825.

[107] Luhmann, J. G., C. O. Lee, Y. Li, C. N. Arge, A. B. Galvin, K. Simunac, C. T. Russell, R. A. Howard, and G. Petrie (2009), Solar Wind Sources in the Late Declining Phase of Cycle 23: Effects of the Weak Solar Polar Field on High Speed Streams, *Solar Phys.*, **256**, 285–305, 10.1007/s11207-009-9354-5.

[108] MacDowall, R. J., I. G. Richardson, R. A. Hess, and G. Thejappa (2009), Re-examining the correlation of complex solar type III radio bursts and solar energetic particles, in *IAU Symposium*, *IAU Symposium*, vol. 257, edited by N. Gopalswamy & D. F. Webb, pp. 335–340, 10.1017/S1743921309029512.

[109] MacNeice, P. (2009), Validation of community models: Identifying events in space weather model timelines, *Space Weather*, **7**, S06004, 10.1029/2009SW000463.

[110] MacNeice, P. (2009), Validation of community models: 2. Development of a baseline using the Wang-Sheeley-Arge model, *Space Weather*, **7**, S12002, 10.1029/2009SW000489.

[111] Mahrous, A., M. El-Nawawy, M. Hammam, and N. Ahmed (2009), Empirical model of the transit time of interplanetary coronal mass ejections, *Solar System Research*, **43**, 128–135, 10.1134/S0038094609020051.

[112] Mäkelä, P., N. Gopalswamy, S. Yashiro, S. Akiyama, H. Xie, and E. Valtonen (2009), SEPs and CMEs during cycle 23, in *IAU Symposium*, *IAU Symposium*, vol. 257, edited by N. Gopalswamy & D. F. Webb, pp. 475–477, 10.1017/S174392130902972X.

[113] Malaspina, D. M., R. E. Ergun, and I. H. Cairns (2009), Plasma Emission at Shocks by the Eigenmode-Antenna Mechanism, in *American Institute of Physics Conference Series*, *American Institute of Physics Conference Series*, vol. 1183, edited by X. Ao & G. Z. R. Burrows, pp. 131–138, 10.1063/1.3266768.

[114] Malaspina, D. M., B. Li, I. H. Cairns, P. A. Robinson, Z. Kuncic, and R. E. Ergun (2009), Terrestrial foreshock Langmuir waves: STEREO observations, theoretical modeling, and quasi-linear simulations, *J. Geophys. Res.*, **114**, A12101, 10.1029/2009JA014493.

[115] Mancuso, S., and A. Bemporad (2009), Interpretation of the SOHO/UVCS observations of two CME-driven shocks, *Adv. Space Res.*, **44**, 451–456, 10.1016/j.asr.2009.03.021.

[116] Mandrini, C. H., M. S. Nakwacki, G. Attrill, L. van Driel-Gesztelyi, S. Dasso, and P. Démoulin (2009), The link between CME-associated dimmings and interplanetary magnetic clouds, in *IAU Symposium*, *IAU Symposium*, vol. 257, edited by N. Gopalswamy & D. F. Webb, pp. 265–270, 10.1017/S174392130902938X.

[117] Mason, G. M., M. I. Desai, U. Mall, A. Korth, R. Bucik, T. T. von Rosenvinge, and K. D. Simunac (2009), In situ Observations of CIRs on STEREO, Wind, and ACE During 2007 - 2008, *Solar Phys.*, **256**, 393–408, 10.1007/s11207-009-9367-0.

[118] Mason, G. M., N. V. Nitta, C. M. S. Cohen, and M. E. Wiedenbeck (2009), Solar Energetic Particle ^{3}He-Rich Events from the Nearly Quiet Sun in 2007-2008, *Astrophys. J.*, **700**, L56–L59, 10.1088/0004-637X/700/1/L56.

[119] Masson, S., K.-L. Klein, R. Bütikofer, E. Flückiger, V. Kurt, B. Yushkov, and S. Krucker (2009), Acceleration of Relativistic Protons During the 20 January 2005 Flare and CME, *Solar Phys.*, **257**, 305–322, 10.1007/s11207-009-9377-y.

[120] Matthews, S., D. Bewsher, and C. Davis (2009), Magnetic coupling in the solar system, *Astron. Geophys.*, **50**, 020,000–2, 10.1111/j.1468-4004.2009.50231.x.

[121] Meier, R. R., C. Englert, D. Chua, D. Socker, J. M. Picone, T. Carter, J. Huba, S. Slinker, J. Krall, and W. Vincent (2009), Geospace imaging using Thomson scattering, *J. Atmos. Solar-Terr. Phys.*, **71**, 132–142, 10.1016/j.jastp.2008.10.007.

[122] Mitchell, D. G., J. F. Carbary, S. W. H. Cowley, T. W. Hill, and P. Zarka (2009), *The Dynamics of Saturn's Magnetosphere*, pp. 257–+, 10.1007/978-1-4020-9217-6_10.

[123] Möstl, C. (2009), Multi-spacecraft studies of magnetic clouds and their origin on the sun, Ph.D. thesis, Karl Franzens Universität, Graz, Austria, advisor: C.J. Farrugia and H.K. Biernat.

[124] Möstl, C., C. J. Farrugia, C. Miklenic, M. Temmer, A. B. Galvin, J. G. Luhmann, E. K. J. Kilpua, M. Leitner, T. Nieves-Chinchilla, A. Veronig, and H. K. Biernat (2009), Multi-spacecraft recovery of a magnetic cloud and its origin from magnetic reconnection on the Sun, *J. Geophys. Res.*, **114**, A04,102, 10.1029/2008JA013657.

[125] Möstl, C., C. J. Farrugia, H. K. Biernat, M. Leitner, E. K. J. Kilpua, A. B. Galvin, and J. G. Luhmann (2009), Optimized Grad - Shafranov Reconstruction of a Magnetic Cloud Using STEREO- Wind Observations, *Solar Phys.*, **256**, 427–441, 10.1007/s11207-009-9360-7.

[126] Mthembu, S. H., S. B. Malinga, A. D. M. Walker, and L. Magnus (2009), Characterization of ultra low frequency (ULF) pulsations and the investigation of their possible source, *Ann. Geophys.*, **27**, 3287–3296, 10.5194/angeo-27-3287-2009.

[127] Newell, P. T., K. Liou, and G. R. Wilson (2009), Polar cap particle precipitation and aurora: Review and commentary, *J. Atmos. Solar-Terr. Phys.*, **71**, 199–215, 10.1016/j.jastp.2008.11.004.

[128] Nishino, M. N., K. Maezawa, M. Fujimoto, Y. Saito, S. Yokota, K. Asamura, T. Tanaka, H. Tsunakawa, M. Matsushima, F. Takahashi, T. Terasawa, H. Shibuya, and H. Shimizu (2009), Pairwise energy gain-loss feature of solar wind protons in the near-Moon wake, *Geophys. Res. Lett.*, **361**, L12,108, 10.1029/2009GL039049.

[129] Pahud, D. M., I. J. Rae, I. R. Mann, K. R. Murphy, and V. Amalraj (2009), Ground-based Pc5 ULF wave power: Solar wind speed and MLT dependence, *J. Atmos. Solar-Terr. Phys.*, **71**, 1082–1092, 10.1016/j.jastp.2008.12.004.

[130] Panchenko, M., H. O. Rucker, and M. L. Kaiser (2009), Jovian non-Io decametric arcs: Occurrence periodicity of System III + 1.5%, in *European Planetary Science Congress 2009*, pp. 527–+.

[131] Parnowski, A. S. (2009), Regression modeling method of space weather prediction, *Astrophys. Space Sci.*, **323**, 169–180, 10.1007/s10509-009-0060-4.

[132] Pedatella, N. M., J. Lei, K. M. Larson, and J. M. Forbes (2009), Observations of the ionospheric response to the 15 December 2006 geomagnetic storm: Long-duration positive storm effect, *J. Geophys. Res.*, **114**, A12,313, 10.1029/2009JA014568.

[133] Perrone, L., M. Parisi, A. Meloni, M. Damasso, and M. Galliani (2009), Study on solar sources and polar cap absorption events recorded in Antarctica, *Adv. Space Res.*, **43**, 1660–1668, 10.1016/j.asr.2008.03.034.

[134] Phan, T. D., J. T. Gosling, and M. S. Davis (2009), Prevalence of extended reconnection X-lines in the solar wind at 1 AU, *Geophys. Res. Lett.*, **360**, L09108, 10.1029/2009GL037713.

[135] Pick, M., A. Kerdraon, F. Auchère, G. Stenborg, A. Bouteille, and E. Soubrié (2009), Coronal and Interplanetary Structures Associated with Type III Bursts, *Solar Phys.*, **256**, 101–110, 10.1007/s11207-009-9359-0.

[136] Plaschke, F., K.-H. Glassmeier, D. G. Sibeck, H. U. Auster, O. D. Constantinescu, V. Angelopoulos, and W. Magnes (2009), Magnetopause surface oscillation frequencies at different solar wind conditions, *Ann. Geophys.*, **27**, 4521–4532, 10.5194/angeo-27-4521-2009.

[137] Podesta, J. J., B. D. G. Chandran, A. Bhattacharjee, D. A. Roberts, and M. L. Goldstein (2009), Scale-dependent angle of alignment between velocity and magnetic field fluctuations in solar wind turbulence, *J. Geophys. Res.*, **114**, A01,107, 10.1029/2008JA013504.

[138] Pothitakis, G., P. Preka-Papadema, X. Moussas, C. Caroubalos, C. Alissandrakis, P. Tsitsipis, A. Kontogeorgos, and A. Hillaris (2009), Relation between coronal type II bursts, associated flares and CMEs, in *IAU Symposium*, *IAU Symposium*, vol. 257, edited by N. Gopalswamy & D. F. Webb, pp. 299–301, 10.1017/S1743921309029457.

[139] Prakash, O., S. Umapathy, A. Shanmugaraju, and B. Vršnak (2009), Type II bursts in Meter and Decameter - Hectometer Wavelength Ranges and Their Relation to Flares and CMEs, *Solar Phys.*, **258**, 105–118, 10.1007/s11207-009-9396-8.

[140] Prokudina, V. S., V. N. Kuril'Chik, Y. I. Yermolaev, K. Kudela, and M. Slivka (2009), Peculiarities of long-wave radio bursts from solar flares preceding strong geomagnetic storms, *Cosmic Res.*, **47**, 14–21, 10.1134/S001095250901002X.

[141] Pulkkinen, A., A. Taktakishvili, D. Odstrcil, and W. Jacobs (2009), Novel approach to geomagnetically induced current forecasts based on remote solar observations, *Space Weather*, **7**, 08005, 10.1029/2008SW000447.

[142] Ragot, B. R. (2009), Statistics of Turbulent Field Variations, Non-Gaussianity and Intermittency, *Astrophys. J.*, **696**, 1576–1588, 10.1088/0004-637X/696/2/1576.

[143] Reames, D. V. (2009), Solar Release Times of Energetic Particles in Ground-Level Events, *Astrophys. J.*, **693**, 812–821, 10.1088/0004-637X/693/1/812.

[144] Reames, D. V., S. W. Kahler, and A. J. Tylka (2009), Anomalous Cosmic Rays as Probes of Magnetic Clouds, *Astrophys. J.*, **700**, L196–L199, 10.1088/0004-637X/700/2/L196.

[145] Reiner, M. J., K. Goetz, J. Fainberg, M. L. Kaiser, M. Maksimovic, B. Cecconi, S. Hoang, S. D. Bale, and J.-L. Bougeret (2009), Multipoint Observations of Solar Type III Radio Bursts from STEREO and Wind, *Solar Phys.*, **259**, 255–276, 10.1007/s11207-009-9404-z.

[146] Rodriguez, L., A. N. Zhukov, C. Cid, Y. Cerrato, E. Saiz, H. Cremades, S. Dasso, M. Menvielle, A. Aran, C. Mandrini, S. Poedts, and B. Schmieder (2009), Three frontside full halo coronal mass ejections with a nontypical geomagnetic response, *Space Weather*, **70**, S06,003, 10.1029/2008SW000453.

[147] Romanova, N., and V. Pilipenko (2009), ULF wave indices to characterize the solar wind-magnetosphere interaction and relativistic electron dynamics, *Acta Geophys.*, **57**, 158–170, 10.2478/s11600-008-0064-4.

[148] Runov, A., V. Angelopoulos, V. A. Sergeev, K.-H. Glassmeier, U. Auster, J. McFadden, D. Larson, and I. Mann (2009), Global properties of magnetotail current sheet flapping: THEMIS perspectives, *Ann. Geophys.*, **27**, 319–328, 10.5194/angeo-27-319-2009.

[149] Šafránková, J., M. Hayosh, O. Gutynska, Z. Němeček, and L. Přech (2009), Reliability of prediction of the magnetosheath B_Z component from interplanetary magnetic field observations, *J. Geophys. Res.*, **114**, A12213, 10.1029/2009JA014552.

[150] Salem, C., A. Mangeney, S. D. Bale, and P. Veltri (2009), Solar Wind Magnetohydrodynamics Turbulence: Anomalous Scaling and Role of Intermittency, *Astrophys. J.*, **702**, 537–553, 10.1088/0004-637X/702/1/537.

[151] Sandanger, M. I., F. Søraas, M. Sørbø, K. Aarsnes, K. Oksavik, and D. S. Evans (2009), Relativistic electron losses related to EMIC waves during CIR and CME storms, *J. Atmos. Solar-Terr. Phys.*, **71**, 1126–1144, 10.1016/j.jastp.2008.07.006.

[152] Sandholt, P. E., and C. J. Farrugia (2009), Plasma flow channels at the dawn/dusk polar cap boundaries: momentum transfer on old open field lines and the roles of IMF B_y and conductivity gradients, *Ann. Geophys.*, **27**, 1527–1554, 10.5194/angeo-27-1527-2009.

[153] Sarris, T., X. Li, and H. J. Singer (2009), A long-duration narrowband Pc5 pulsation, *J. Geophys. Res.*, **114**, A01,213, 10.1029/2007JA012660.

[154] Schlickeiser, R., S. Artmann, and W. Droge (2009), Interplanetary Plasma Scattering Diagnostics from Anisotropy-time Profiles of Solar Energetic Particles, *The Open Plasma Phys. J.*, **2**, 1–7, 10.2174/1876534300902010001.

[155] Seki, Y., M. N. Nishino, M. Fujimoto, Y. Miyashita, K. Keika, H. Hasegawa, K. Okabe, Y. Kasaba, T. Terasawa, T. I. Yamamoto, I. Shinohara, Y. Saito, and T. Mukai (2009), Observations of loss cone-shaped back streaming energetic protons upstream of the Earth's bow shock, *J. Geophys. Res.*, **114**, A11,106, 10.1029/2009JA014136.

[156] Selesnick, R. S., and S. G. Kanekal (2009), Variability of the total radiation belt electron content, *J. Geophys. Res.*, **114**, A02,203, 10.1029/2008JA013432.

[157] Shanmugarju, A., Y.-J. Moon, K.-S. Cho, and S. Umapathy (2009), Effects of Source Position on the DH-Type II CME Properties, *J. Korean Astron. Soc.*, **42**, 55–60.

[158] Shue, J.-H., Y. Kamide, and J. W. Gjerloev (2009), Effects of solar wind density on auroral electrojets and brightness under influence of substorms, *Ann. Geophys.*, **27**, 113–119, 10.5194/angeo-27-113-2009.

[159] Simnett, G. M. (2009), On the timescale and location of ^{3}He acceleration, *Astron. & Astrophys.*, **507**, 469–480, 10.1051/0004-6361/200912514.

[160] Soucek, J., O. Santolik, T. Dudok de Wit, and J. S. Pickett (2009), Cluster multispacecraft measurement of spatial scales of foreshock Langmuir waves, *J. Geophys. Res.*, **114**, A02,213, 10.1029/2008JA013770.

[161] Stanislavsky, A. A., A. A. Konovalenko, H. O. Rucker, E. P. Abranin, M. L. Kaiser, V. V. Dorovskyy, V. N. Mel'nik, and A. Lecacheux (2009), Antenna performance analysis for decameter solar radio observations, *Astron. Nachr.*, **330**, 691–+, 10.1002/asna.200911226.

[162] Steinhilber, F., J. Beer, and C. Fröhlich (2009), Total solar irradiance during the Holocene, *Geophys. Res. Lett.*, **36**, L19704, 10.1029/2009GL040142.

[163] Sugita, S., K. Yamaoka, M. Ohno, M. S. Tashiro, Y. E. Nakagawa, Y. Urata, V. Pal'Shin, S. Golenetskii, T. Sakamoto, J. Cummings, H. Krimm, M. Stamatikos, A. Parsons, S. Barthelmy, and N. Gehrels (2009), Suzaku-WAM, Konus-Wind, and Swift-BAT Observations of Prompt Emission of the High-Redshift GRB 050904, *Publ. Astron. Soc. Japan*, **61**, 521–527, 10.1093/pasj/61.3.521.

[164] Sung, S.-K., K. Marubashi, K.-S. Cho, Y.-H. Kim, K.-H. Kim, J. Chae, Y.-J. Moon, and I.-H. Kim (2009), A Comparison of the Initial Speed of Coronal Mass Ejections with the Magnetic Flux and Magnetic Helicity of Magnetic Clouds, *Astrophys. J.*, **699**, 298–304, 10.1088/0004-637X/699/1/298.

[165] Tan, L. C., D. V. Reames, C. K. Ng, O. Saloniemi, and L. Wang (2009), Observational Evidence on the Presence of an Outer Reflecting Boundary in Solar Energetic Particle Events, *Astrophys. J.*, **701**, 1753–1764, 10.1088/0004-637X/701/2/1753.

[166] Teh, W.-L., B. U. Ö. Sonnerup, Q. Hu, and C. J. Farrugia (2009), Reconstruction of a large-scale reconnection exhaust structure in the solar wind, *Ann. Geophys.*, **27**, 807–822, 10.5194/angeo-27-807-2009.

[167] Thrane, E., K. Abe, Y. Hayato, T. Iida, M. Ikeda, J. Kameda, K. Kobayashi, Y. Koshio, M. Miura, S. Moriyama, M. Nakahata, S. Nakayama, Y. Obayashi, H. Ogawa, H. Sekiya, M. Shiozawa, Y. Suzuki, A. Takeda, Y. Takenaga, Y. Takeuchi, K. Ueno, K. Ueshima, H. Watanabe, S. Yamada, M. R. Vagins, S. Hazama, I. Higuchi, C. Ishihara, T. Kajita, K. Kaneyuki, G. Mitsuka, H. Nishino, K. Okumura, N. Tanimoto, F. Dufour, E. Kearns, M. Litos, J. L. Raaf, J. L. Stone, L. R. Sulak, M. Goldhaber, K. Bays, D. Casper, J. P. Cravens, W. R. Kropp, S. Mine, C. Regis, M. B. Smy, H. W. Sobel, K. S. Ganezer, J. Hill, W. E. Keig, J. S. Jang, I. S. Jeong, J. Y. Kim, I. T. Lim, M. Fechner, K. Scholberg, C. W. Walter, R. Wendell, S. Tasaka, J. G. Learned, S. Matsuno, Y. Watanabe, T. Hasegawa, T. Ishida, T. Ishii, T. Kobayashi, T. Nakadaira, K. Nakamura, K. Nishikawa, Y. Oyama, K. Sakashita, T. Sekiguchi, T. Tsukamoto, A. T. Suzuki, A. K. Ichikawa, A. Minamino, T. Nakaya, M. Yokoyama, S. Dazeley, R. Svoboda, A. Habig, Y. Fukuda, Y. Itow, T. Tanaka, C. K. Jung, G. Lopez, C. McGrew, C. Yanagisawa, N. Tamura, Y. Idehara, H. Ishino, A. Kibayashi, M. Sakuda, Y. Kuno, M. Yoshida, S. B. Kim, B. S. Yang, T. Ishizuka, H. Okazawa, Y. Choi, H. K. Seo, Y. Furuse, K. Nishijima, Y. Yokosawa, M. Koshiba, Y. Totsuka, S. Chen, G. Gong, Y. Heng, T. Xue, Z. Yang, H. Zhang, D. Kielczewska, P. Mijakowski, H. G. Berns, K. Connolly, M. Dziomba, The Super-Kamiokande Collaboration, and R. J. Wilkes (2009), Search for Neutrinos from GRB 080319B at Super-Kamiokande, *Astrophys. J.*, **697**, 730–734, 10.1088/0004-637X/697/1/730.

[168] Toivanen, P. K., and P. Janhunen (2009), Electric Sailing under Observed Solar Wind Conditions, *Astrophys. Space Sci. Trans.*, **5**, 61–69, 10.5194/astra-5-61-2009.

[169] Tokumaru, M., M. Kojima, K. Fujiki, and K. Hayashi (2009), Non-dipolar solar wind structure observed in the cycle 23/24 minimum, *Geophys. Res. Lett.*, **360**, L09,101, 10.1029/2009GL037461.

[170] van Driel-Gesztelyi, L., and J. L. Culhane (2009), Magnetic Flux Emergence, Activity, Eruptions and Magnetic Clouds: Following Magnetic Field from the Sun to the Heliosphere, *Space Sci. Rev.*, **144**, 351–381, 10.1007/s11214-008-9461-x.

[171] Vandas, M., A. Geranios, and E. Romashets (2009), On expansion of magnetic clouds in the solar wind, *Astrophys. Space Sci. Trans.*, **5**, 35–38, 10.5194/astra-5-35-2009.

[172] Viall, N. M., H. E. Spence, and J. Kasper (2009), Are periodic solar wind number density structures formed in the solar corona?, *Geophys. Res. Lett.*, **362**, L23,102, 10.1029/2009GL041191.

[173] Vichare, G., S. Alex, and G. S. Lakhina (2009), Influence of solar wind parameters on ground magnetic field near equator during intense storms, *J. Atmos. Solar-Terr. Phys.*, **71**, 1814–1823, 10.1016/j.jastp.2009.06.015.

[174] Vlahos, L., S. Krucker, and P. Cargill (2009), The Solar Flare: A Strongly Turbulent Particle Accelerator, in *Turbulence in Space Plasmas*, *Lecture Notes in Physics, Berlin Springer Verlag*, vol. 778, edited by P. Cargill & L. Vlahos, pp. 157–+, 10.1007/978-3-642-00210-6_5.

[175] Vocks, C., and G. Mann (2009), Scattering of solar energetic electrons in interplanetary space, *Astron. & Astrophys.*, **502**, 325–332, 10.1051/0004-6361/200911738.

[176] von Rosenvinge, T. T., I. G. Richardson, D. V. Reames, C. M. S. Cohen, A. C. Cummings, R. A. Leske, R. A. Mewaldt, E. C. Stone, and M. E. Wiedenbeck (2009), The Solar Energetic Particle Event of 14 December 2006, *Solar Phys.*, **256**, 443–462, 10.1007/s11207-009-9353-6.

[177] Walsh, A. P., A. N. Fazakerley, A. D. Lahiff, M. Volwerk, A. Grocott, M. W. Dunlop, A. T. Y. Lui, L. M. Kistler, M. Lester, C. Mouikis, Z. Pu, C. Shen, J. Shi, M. G. G. T. Taylor, E. Lucek, T. L. Zhang, and I. Dandouras (2009), Cluster and Double Star multipoint observations of a plasma bubble, *Ann. Geophys.*, **27**, 725–743, 10.5194/angeo-27-725-2009.

[178] Wang, L. (2009), Solar impulsive energetic electron events, Ph.D. thesis, University of California, Berkeley.

[179] Wang, Y.-M. (2009), Coronal Holes and Open Magnetic Flux, *Space Sci. Rev.*, **144**, 383–399, 10.1007/s11214-008-9434-0.

[180] Wang, Y.-M., and N. R. Sheeley (2009), Understanding the Geomagnetic Precursor of the Solar Cycle, *Astrophys. J. Lett.*, **694**, L11–L15, 10.1088/0004-637X/694/1/L11.

[181] Wang, Y.-M., E. Robbrecht, and N. R. Sheeley, Jr. (2009), On the Weakening of the Polar Magnetic Fields during Solar Cycle 23, *Astrophys. J.*, **707**, 1372, 10.1088/0004-637X/707/2/1372.

[182] Watermann, J., P. Wintoft, B. Sanahuja, E. Saiz, S. Poedts, M. Palmroth, A. Milillo, F.-A. Metallinou, C. Jacobs, N. Y. Ganushkina, I. A. Daglis, C. Cid, Y. Cerrato, G. Balasis, A. D. Aylward, and A. Aran (2009), Models of Solar Wind Structures and Their Interaction with the Earth's Space Environment, *Space Sci. Rev.*, **147**, 233–270, 10.1007/s11214-009-9494-9.

[183] Webb, D. F., T. A. Howard, C. D. Fry, T. A. Kuchar, D. R. Mizuno, J. C. Johnston, and B. V. Jackson (2009), Studying geoeffective interplanetary coronal mass ejections between the Sun and Earth: Space weather implications of Solar Mass Ejection Imager observations, *Space Weather*, **70**, S05,002, 10.1029/2008SW000409.

[184] Webb, D. F., T. A. Howard, C. D. Fry, T. A. Kuchar, D. Odstrcil, B. V. Jackson, M. M. Bisi, R. A. Harrison, J. S. Morrill, R. A. Howard, and J. C. Johnston (2009), Study of CME Propagation in the Inner Heliosphere: SOHO LASCO, SMEI and STEREO HI Observations of the January 2007 Events, *Solar Phys.*, **256**, 239–267, 10.1007/s11207-009-9351-8.

[185] Weygand, J. M., W. H. Matthaeus, S. Dasso, M. G. Kivelson, L. M. Kistler, and C. Mouikis (2009), Anisotropy of the Taylor scale and the correlation scale in plasma sheet and solar wind magnetic field fluctuations, *J. Geophys. Res.*, **114**, A07,213, 10.1029/2008JA013766.

[186] Wicks, R. T., S. C. Chapman, and R. O. Dendy (2009), Spatial Correlation of Solar Wind Fluctuations and Their Solar Cycle Dependence, *Astrophys. J.*, **690**, 734–742, 10.1088/0004-637X/690/1/734.

[187] Wilder, F. D., C. R. Clauer, and J. B. H. Baker (2009), Reverse convection potential saturation during northward IMF under various driving conditions, *J. Geophys. Res.*, **114**, A08209, 10.1029/2009JA014266.

[188] Wilson, L. B., III, C. A. Cattell, P. J. Kellogg, K. Goetz, K. Kersten, J. C. Kasper, A. Szabo, and K. Meziane (2009), Low-frequency whistler waves and shocklets observed at quasi-perpendicular interplanetary shocks, *J. Geophys. Res.*, **114**, A10,106, 10.1029/2009JA014376.

[189] Wimmer-Schweingruber, R. F., B. Heber, and H. Fitchner (2009), Open Issues in Heliospheric Physics, *Earth Moon and Planets*, **104**, 3–9, 10.1007/s11038-008-9266-7.

[190] Wimmer-Schweingruber, R. F., R. McNutt, N. A. Schwadron, P. C. Frisch, M. Gruntman, P. Wurz, and E. Valtonen (2009), Interstellar heliospheric probe/heliospheric boundary explorer mission–a mission to the outermost boundaries of the solar system, *Exper. Astron.*, **24**, 9–46, 10.1007/s10686-008-9134-5.

[191] Yoshino, T., K. Mitsuda, N. Y. Yamasaki, Y. Takei, T. Hagihara, K. Masui, M. Bauer, D. McCammon, R. Fujimoto, Q. D. Wang, and Y. Yao (2009), Energy Spectra of the Soft X-Ray Diffuse Emission in Fourteen Fields Observed with Suzaku, *Publ. Astron. Soc. Japan*, **61**, 805–.

[192] Yu, Y. W., X. Y. Wang, and Z. G. Dai (2009), Optical and γ-ray Emissions from Internal Forward-Reverse Shocks: Application to GRB 080319B?, *Astrophys. J.*, **692**, 1662–1668, 10.1088/0004-637X/692/2/1662.

[193] Zhang, H., Q.-G. Zong, D. G. Sibeck, T. A. Fritz, J. P. McFadden, K.-H. Glassmeier, and D. Larson (2009), Dynamic motion of the bow shock and the magnetopause observed by THEMIS spacecraft, *J. Geophys. Res.*, **114**, A00C12, 10.1029/2008JA013488.

[194] Zhou, X., and E. J. Smith (2009), Solar cycle variations of heliospheric magnetic flux, *J. Geophys. Res.*, **114**, A03106, 10.1029/2008JA013421.

[195] Zhou, X.-Y., K. Fukui, H. C. Carlson, J. I. Moen, and R. J. Strangeway (2009), Shock aurora: Ground-based imager observations, *J. Geophys. Res.*, **114**, A12,216, 10.1029/2009JA014186.

[196] Zhu, P., J. Raeder, K. Germaschewski, and C. C. Hegna (2009), Initiation of ballooning instability in the near-Earth plasma sheet prior to the 23 March 2007 THEMIS substorm expansion onset, *Ann. Geophys.*, **27**, 1129–1138, 10.5194/angeo-27-1129-2009.

[197] Zieger, B., K. C. Hansen, O. Cohen, T. I. Gombosi, T. H. Zurbuchen, B. J. Anderson, and H. Korth (2009), Upstream conditions at Mercury during the first MESSENGER flyby: Results from two independent solar wind models, *Geophys. Res. Lett.*, **36**, L10108, 10.1029/2009GL038346.

[198] Zweibel, E. G., and M. Yamada (2009), Magnetic Reconnection in Astrophysical and Laboratory Plasmas, *Ann. Rev. Astron. Astrophys.*, **47**, 291–332, 10.1146/annurev-astro-082708-101726.