
EGU 2008 Meeting Programme

Solar-Terrestrial Sciences

Monday

ST1 Open session on the Sun and heliosphere

Convener: Forsyth, R.
Co-Convener(s): Bothmer, V.
Lecture Room 11
Chairperson: BOTHMER, V.; FORSYTH, R.

8:30–8:45; EGU2008-A-02279; ST1-1MO1O-001
Wiegmann, T.; Thalmann, J.K.; Schrijver, C.J.; DeRosa, M.L.; Metcalf, T.R.
How to Include H-Alpha Images to estimate the chromospheric and coronal magnetic field from photospheric vectormagnetograms?

8:45–9:00; EGU2008-A-06226; ST1-1MO1O-002
Krijger, J.M.; Heinzel, P.; Curdt, W.; Schmidt, W.
Dynamic behaviour of the upper solar atmosphere II

9:00–9:15; EGU2008-A-11222; ST1-1MO1O-003
Zharkova, V.V.
The mechanisms of particle kinetics and dynamics leading to solar quakes

9:15–9:30; EGU2008-A-11147; ST1-1MO1O-004
Crosby, N.B.
Solar Extreme Event Syndrome

9:30–9:45; EGU2008-A-05319; ST1-1MO1O-005
Klein, K.-L.; Krucker, S.; Lointier, G.
Open magnetic flux tubes in the corona and the transport of solar energetic particles

9:45–10:00; EGU2008-A-11443; ST1-1MO1O-006
Schmidt, J.; Gopalswamy, N.
Radio radiation and acceleration potential of CME-driven shocks

10:00 COFFEE BREAK

Chairperson: FORSYTH, R.; BOTHMER, V.

10:30–10:45; EGU2008-A-02036; ST1-1MO2O-001
Marsden, R.
Solar Orbiter: linking the Sun and inner heliosphere

10:45–11:00; EGU2008-A-04789; ST1-1MO2O-002
Russell, C. T.; Luhmann, J. G.; Jian, L. K.; Blanco-Cano, X.; Cowee, M. M.; Omidi, N.
Heating the Solar Wind

11:00–11:15; EGU2008-A-02685; ST1-1MO2O-003
Carbone, V.; Marino, R.; Sorriso-Valvo, L.; Veltri, P.; Noullez, A.; Bruno, R.; Bavassano, B.
Turbulent cascade in the solar wind

11:15–11:30; EGU2008-A-02510; ST1-1MO2O-004
Nicol, R. M.; **Chapman, S. C.**; Dendy, R. O.
The coronal footprint in the scaling properties of inertial range turbulence as seen by ULYSSES.

11:30–11:45; EGU2008-A-10245; ST1-1MO2O-005
Yordanova, E.; Balogh, A.; von Steiger, R.
Magnetic fluctuations in the solar wind: dependence on kinetic parameters and on the temperature of the source region determined from ion charge state composition

11:45–12:00; EGU2008-A-00917; ST1-1MO2O-006
de Lucas, A.; Schwenn, R.; Marsch, E.; Dal Lago, A.; de Gonzalez, A. C.
Results on the Shock Waves Extension by using Helios-1,2 data: A Statistical Analysis

12:00 LUNCH BREAK

Chairperson: FORSYTH, R.; BOTHMER, V.

13:30–13:45; EGU2008-A-09388; ST1-1MO3O-001
Balogh, A.; Erdos, G.
The North-South symmetry of the heliosphere: Ulysses observations of heliospheric magnetic polarities

13:45–14:00; EGU2008-A-05146; ST1-1MO3O-002
Dorrian, G.; Breen, A.; Fallows, R.; Davis, C.; Bewsher, D.
Interplanetary Scintillation & White Light observations of Coronal Mass Ejections

14:00–14:15; EGU2008-A-05489; ST1-1MO3O-003
Farrugia, C. J.; Erkaev, N. V.; Taubenschuss, U.; Shaidurov, V. A.; Smith, C. W.; Biernat, H. K.
A slow mode transition region adjoining the front boundary of a magnetic cloud as a relic of a convected solar wind feature: Observations and MHD simulations

14:15–14:30; EGU2008-A-04717; ST1-1MO3O-004
Heber, B.; Gieseler, J.; Dunzlaff, P.; MÄ¹/₄ller-Mellin, R.; Klassen, A.; Gomez-Herrero, R.; Labrenz, J.; Wimmer-Schweingruber, R.; Mewaldt, R. A.
Charge sign dependent latitudinal gradients of galactic cosmic rays

14:30–14:45; EGU2008-A-02603; ST1-1MO3O-005
Wurz, P.; Galli, A.; Grigoriev, A.; Brarabash, S.
Energetic Neutral Atoms from the Termination Shock Region

14:45–15:00; EGU2008-A-11133; ST1-1MO3O-006
Burgess, D.; Giacalone, J.
Hybrid simulations of the interaction of a current sheet with the termination shock

15:00 END OF SESSION

ST10 First results from STEREO

Convener: Bothmer, V.
Co-Convener(s): Harrison, R., Vourlidas, A.
Lecture Room 11
Chairperson: BOTHMER, V.; VOURLIDAS, A.

15:30–15:45; EGU2008-A-01222; ST10-1MO4O-001
Feng, L.; Inhester, B.; Solanki, S.K.; Wiegmann, T.; Podlipnik, B.; Howard, R.A.; Wuelser, J.P.
First Stereoscopic Coronal Loop Reconstructions From STEREO SECCHI images

15:45–16:00; EGU2008-A-04405; ST10-1MO4O-002
Patsourakos, S.; Vourlidas, A.; Stenborg, G.
The SECCHI View of EIT Waves

16:00–16:15; EGU2008-A-09041; ST10-1MO40-003
GOPALSWAMY, N.; Yashiro, S.; Jones, S.; McAteer, R. J.; Thompson, W.; Aschwanden, M.; Davila, J. M.; Kaiser, M. L.; Bougeret, J.-L.; Howard, R. A.
STEREOS and SOHO CMEs and EUV Waves Associated with Type II Radio Bursts

16:15–16:30; EGU2008-A-05123; ST10-1MO40-004
Manchester, W.B.; Vourlidas, A.; Cohen, O.; van der Holst, B.; Hansen, K.C.; Gombosi, T.I.; Sokolov, I.V.; Toth, G.; Jia, Y.-D.
Simulating the 2007 April 19 CME

16:30–16:45; EGU2008-A-06278; ST10-1MO40-005
Harrison, R
A year of observations with the STEREO/HI instruments

16:45–17:00; EGU2008-A-05862; ST10-1MO40-006
Jia, Y. D.; **Russell, C. T.;** Manchester, W. B.; Hansen, K. C.; Vourlidas, A.; Jian, L.; Combi, M. R.; Gombosi, T. I.
Study of the April. 20, 2007 CME-Comet interaction event with an MHD model

17:00 COFFEE BREAK

Chairperson: BOTHMER, V.; HARRISON, R.

17:30–17:45; EGU2008-A-11723; ST10-1MO50-001
Vourlidas, A.; Stenborg, G.; Sheeley Jr, N.; Rouillard, A.
Multipoint Imaging of a Corotating Interaction Region Impacting the Earth from STEREO/SECCHI

17:45–18:00; EGU2008-A-09342; ST10-1MO50-002
Rouillard, A.P.; Davies, J.A.; Davis, C.J.; Forsyth, R.J.; Rees, A.; Harrison, R.A.; Bewsher, D
Intermittent mass flows inside corotating interaction regions observed by the STEREO spacecraft.

18:00–18:15; EGU2008-A-11585; ST10-1MO50-003
Howard, R.; Thernisien, A; Vourlidas, A; Morrill, J; Mac-Neice, P; Luhman, J; Galvin, A
Heliospheric Streamers and Corotating Interaction Regions: Comparison Between Model Calculations and STEREO Observations

18:15–18:30; EGU2008-A-04891; ST10-1MO50-004
Luhmann, J.G.; Schroeder, P.; Huttunen, K.E.J; Larson, D.; Lee, C.O.; Li, Yan; Russell, C.T.; Acuna, M.H.; Sauvaud, J.-A.; Galvin, A.B.
STEREO solar wind suprathermal electron characteristics and the solar wind structure

18:30–18:45; EGU2008-A-09936; ST10-1MO50-005
Opitz, A.; PLASTIC group
Temporal and spatial variation of the solar wind bulk properties by STEREO PLASTIC at solar minimum

18:45–19:00; EGU2008-A-05886; ST10-1MO50-006
Cairns, I.H.; Ergun, R.E.; Muschietti, L.; Goetz, K.; Robinson, P.A.; Bale, S.D.; Bougeret, J.-L.; Kaiser, M.L.
STEREO Waves Observations and Theoretical Interpretation of Localized and Extended Langmuir Wavepackets

19:00 END OF SESSION

ST16 Results from the DEMETER satellite

Convener: Parrot, M.
Co-Convener(s): BERTHELIER, J., Sauvaud, J.
Lecture Room 10
Chairperson: N.N.

17:30–17:45; EGU2008-A-01950; ST16-1MO50-001
Nemec, F.; Santolik, O.; Parrot, M.; Berthelier, J. J.
Magnetospheric Line Radiation: observations, classification and sources

17:45–18:00; EGU2008-A-02245; ST16-1MO50-002
Malingre, M.; Berthelier, J.J.; Jasperse, J.; Pfaff, R.; Parrot, M.
Overview of ELF and VLF waves observed in deep equatorial plasma density depletions during intense magnetic storms

18:00–18:15; EGU2008-A-06988; ST16-1MO50-003
Wang, X.; Berthelier, J.-J.; Lebreton, J.-P.
Demeter observations during the March 29, 2006 solar eclipse

18:15–18:30; EGU2008-A-06034; ST16-1MO50-004
Clilverd, M.; Rodger, C.; Gamble, R.; Meredith, N.; Parrot, M.; Berthelier, J.-J.; Thomson, N
Ground-based transmitter signals observed from space: ducted or nonducted?

18:30–18:45; EGU2008-A-10419; ST16-1MO50-005
Sauvaud, J.-A.; Maggiolo, R.; Parrot, M.; Berthelier, J.-J.
Low-altitude radiation belts destabilization by man-made waves and estimation of the equatorial thermal plasma density between 1800 and 4000 km

18:45–19:00; EGU2008-A-08196; ST16-1MO50-006
Inan, U.; Piddychiy, D; Bell, T; Parrot, M
DEMETER Observations of ELF/VLF Signals from HAARP and VLF Transmitters

19:00 END OF SESSION

ST16 Results from the DEMETER satellite – Posters

Convener: Parrot, M.
Co-Convener(s): BERTHELIER, J., Sauvaud, J.
Display Time: Monday, 08:00–19:30
Authors in Attendance: Monday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0715; EGU2008-A-01800; ST16-1MO3P-0715
Parrot, M.; Nemec, F.
MLR events and associated triggered emissions observed by DEMETER

XY0716; EGU2008-A-01805; ST16-1MO3P-0716
Parrot, M.; Inan, U.; Blanc, E.; Pinçon, J.L.
HF signature of powerful lightning recorded by DEMETER

XY0717; EGU2008-A-01951; ST16-1MO3P-0717
Nemec, F.; Santolik, O.; Parrot, M.; Berthelier, J. J.
Systematic study of wave intensity and properties in ELF/VLF range

XY0718; EGU2008-A-02140; ST16-1MO3P-0718
Rozhnoi, A.; **Solovieva, M.;** Molchanov, O.; Akentieva, O.; Parrot, M.; Biagi, P.-F.; Hayakawa, M.; Gladyshev, V.
VLF signal and ELF noise spectrum changes related to magnetic storms and seismicity

XY0719; EGU2008-A-03872; ST16-1MO3P-0719

Frolov, V.; Komrakov, G.; Rapoport, V.; Ryzhov, N.; Belov, A.; Markov, G.; Parrot, M.; Rauch, J.; Rietveld, M. Phenomena observed by HF heating of middle- and high-latitude ionosphere and registered at altitudes of about 700 km with DEMETER instruments

XY0720; EGU2008-A-03016; ST16-1MO3P-0720

Séran, E.; Frey, H.U.; Fillingim, M.; Berthelier, J.-J.; Pottellette, R.; Parks, G. Demeter high resolution observations of the ionospheric thermal plasma response to magnetospheric energy input during the magnetic storm of November 2004

XY0721; EGU2008-A-05311; ST16-1MO3P-0721

Séran, E.; Godefroy, M.; Cerisier, J.-C.; Kauristie, K.; Lester, M.; Sarri, L.-E.; Yang, H.; Liliensten, J.; Berthelier, J.-J.; Sigernes, F. An overview of Auroral Light Fine Analysis multi-instrumental campaigns carried out from Scandinavia in December 2006 and 2007

XY0722; EGU2008-A-06077; ST16-1MO3P-0722

Rodger, C.; **Clilverd, M.;** Thomson, N.; Gamble, R.; Sepala, A.; Turunen, E.; Meredith, N.; Parrot, M.; Sauvaud, J.; Berthelier, J. Radiation belt electron precipitation into the atmosphere: recovery from a geomagnetic storm

XY0723; EGU2008-A-07029; ST16-1MO3P-0723

Berthelier, J.-J.; Malingre, M.; Jasperse, J.; Pfaff, R.; Seran, E. Observation of small scale plasma structures and ion heating in deep equatorial plasma bubbles during the November 2004 magnetic storm.

XY0724; EGU2008-A-06402; ST16-1MO3P-0724

Rothkaehl, H. ; Krankowski, A.; Koperski, P.; Kulak, A.; M. Parrot, M.; Berthelier, J.-J.; Lebreton, J.-B. Response of main ionospheric trough for distance plasma disturbances

XY0725; EGU2008-A-06475; ST16-1MO3P-0725

Mogilevsky, M.; Nazarov, V.; Batanov, O.; Molchanov, O.; Parrot, M.; Chugunin, D. Propagation of low frequency radiowaves from the ground to the lower magnetosphere

XY0726; EGU2008-A-06496; ST16-1MO3P-0726

Pinçon, J.-L.; Parrot, M. Geographic whistler distributions derived from the RNF experiment onboard DEMETER

XY0727; EGU2008-A-06894; ST16-1MO3P-0727

Steinbach, P.; Ferencz, Cs.; Lichtenberger, J.; Hamar, D.; Ferencz, O.E.; Berthelier, J.-J.; Lefevre, F.; Parrot, M. Determining the incident directions of whistlers recorded on board of the DEMETER LEO satellite – a geomagnetic latitude dependent wave propagation character in the ionosphere

XY0728; EGU2008-A-08423; ST16-1MO3P-0728

Santolik, O.; Parrot, M.; Inan, U.S. Propagation Analysis of partial-hop whistlers recorded by DEMETER in comparison with ground-based data

XY0729; EGU2008-A-09419; ST16-1MO3P-0729

Lefevre, F.; Li, F.; Parrot, M. Season-longitude variability of low altitude electrostatic turbulence observed at low invariant latitudes

Tuesday

ST1 Open session on the Sun and heliosphere – Posters

Convener: Forsyth, R.

Co-Convener(s): Bothmer, V.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: FORSYTH, R.; BOTHMER, V.

XY0664; EGU2008-A-06336; ST1-1TU3P-0664

Thuillier, G.; Bolsee, D.; Gillotay, D. SOLSPEC measurement of the solar absolute spectral irradiance from 165 to 3080 nm on board the International Space Station

XY0665; EGU2008-A-10661; ST1-1TU3P-0665

Vernova, E.; Tyasto, M.; Baranov, D. Longitudinal distribution of weak photospheric magnetic fields

XY0666; EGU2008-A-00839; ST1-1TU3P-0666

Bergemann, M. NLTE abundances of Mn and Co in the Sun

XY0667; EGU2008-A-02120; ST1-1TU3P-0667

Thalmann, J. K.; Wiegmann, T. Evolution of the coronal magnetic field of NOAA active region 10540

XY0668; EGU2008-A-05488; ST1-1TU3P-0668

Morgan, H. High-resolution maps of the coronal density structure over a solar cycle.

XY0669; EGU2008-A-00351; ST1-1TU3P-0669

Bilenko, I. A possible mechanism of high-speed solar wind formation in coronal holes

XY0670; EGU2008-A-10648; ST1-1TU3P-0670

Barkin, Yu.V. Possible mechanism of N/S asymmetry of the Sun processes and main cyclicity of the solar activity with period 199.8 yr

XY0671; EGU2008-A-11765; ST1-1TU3P-0671

Mursula, K.; Usoskin, I.; Yakovchouk, O. Does sunspot number calibration by the "magnetic needle" make sense?

XY0672; EGU2008-A-02689; ST1-1TU3P-0672

Retino', A.; THE MAGNETIC RECONNECTION TEAM. In-Situ Observations of Energetic Electrons During Magnetic Reconnection in the Earth's Magnetotail

XY0673; EGU2008-A-04703; ST1-1TU3P-0673

Podgorny, I. M.; Podgorny, A. I.; Vashenyuk, E. V. Relativistic Protons in a Solar Flare

XY0674; EGU2008-A-04628; ST1-1TU3P-0674

Michalek, G.; Puchowska, K.; Rams, A. Statistical Analysis of Decimetric Radio Bursts, Flares and Coronal Mass Ejections

XY0675; EGU2008-A-05294; ST1-1TU3P-0675

Storini, M.; Diego, P.; Grimani, C.; Laurenza, M.; Gardini, A. SEP events during solar activity cycle N. 24

XY0676; EGU2008-A-09474; ST1-1TU3P-0676

Le, G. M.; Tang, Y. H.; Zhao, M. X. The solar and interplanetary sources of great geomagnetic storms ($Dst \leq -200$ nT) during solar cycle 23

- XY0677;** EGU2008-A-04027; ST1-1TU3P-0677
Parnowski, A. S.; Yatsenko, V. A.; Cheremnykh, O. K.
Real-time Dst prediction based on nonlinear black box model of the magnetosphere (cancelled)
- XY0678;** EGU2008-A-00177; ST1-1TU3P-0678
Afraimovich, E.L.; Demyanov, V.V.; Ishin, A.B.; Smolkov, G.Ya.
Total failures of GPS-GLONASS functioning caused by the powerful solar radio emission
- XY0679;** EGU2008-A-01343; ST1-1TU3P-0679
Mirmomeni, M.; Moshiri, B.; Lucas, C.
Using neurofuzzy modeling and information fusion approaches to design an alarm system to avoid exotic phenomena in space weather
- XY0680;** EGU2008-A-09937; ST1-1TU3P-0680
Sabbah, I.; Khalil, D
Influence of solar plasma upon global temperature
- XY0681;** EGU2008-A-11862; ST1-1TU3P-0681
Sabbah, I.; Khalil, D
Interplanetary magnetic field and 10Be
- XY0682;** EGU2008-A-02573; ST1-1TU3P-0682
Giammanco, C.; Wurz, P.; Karrer, R.
New data for the elemental fractionation in the slow solar wind.
- XY0683;** EGU2008-A-02598; ST1-1TU3P-0683
Giammanco, C.; Wurz, P.; Karrer, R.; Opitz, A.; Ipavich, F.; Paquette, J. A.
Analysis of MTOF solar wind data
- XY0684;** EGU2008-A-01998; ST1-1TU3P-0684
Stverak, S.; Maksimovic, M.; Travnicek, P.; Fazakerley, A.; Marsch, E.; Scime, E.
Strahl Properties in the slow Solar Wind: Observations
- XY0685;** EGU2008-A-02047; ST1-1TU3P-0685
Li, B.; Li, X.
Effects of non-WKB Alfvén waves on a multicomponent solar wind with differential ion flow
- XY0686;** EGU2008-A-02696; ST1-1TU3P-0686
Carbone, V.; Marino, R.; Sorriso-Valvo, L.; Veltri, P.; Noullez, A.; Bruno, R.; Bavassano, B.
Heating the solar wind by a MHD turbulent cascade
- XY0687;** EGU2008-A-03360; ST1-1TU3P-0687
Perri, S.; Khotyaintsev, Y.; Servidio, S.; **Carbone, V.**
Small-scale structures in solar wind turbulence
- XY0688;** EGU2008-A-01952; ST1-1TU3P-0688
Tsurutani, B.T.; Guarnieri, F.L.; Echer, E.E.; Lakhina, G.S.; Verkhoglyadova, O.P.
The formation of magnetic decreases (MDs) in interplanetary space: Ulysses
- XY0689;** EGU2008-A-09908; ST1-1TU3P-0689
Khabarova, O.V.; Zastenker, G.N.
Sharp and sizeable changes of solar wind ion flux as a feature of dense non-CIR turbulent regions
- XY0690;** EGU2008-A-04816; ST1-1TU3P-0690
Russell, C.T.; Luhmann, J.G.; Neubauer, F.M.; Zhang, T.L.
Radial evolution of current sheets in the solar wind
- XY0691;** EGU2008-A-03481; ST1-1TU3P-0691
Blanco, J.J.; Hidalgo, M.A.; Rodríguez-Pacheco, J.; Medina, J.
An approach to the heliospheric current sheet local structure
- XY0692;** EGU2008-A-05131; ST1-1TU3P-0692
Yermolaev, Yu.I.; Nikolaeva, N.S.; Lodkina, I.G.; Yermolaev, M.Yu.
Large-scale structures of solar wind: several results obtained with a catalogue of interplanetary phenomena during 1976-2000
- XY0693;** EGU2008-A-07890; ST1-1TU3P-0693
Baumann, G.I.; Tanskanen, E.I.; Pulkkinen, T.I.
High-speed streams over the solar cycle 23
- XY0694;** EGU2008-A-03797; ST1-1TU3P-0694
Vandas, M.; Geranios, A.; Romashets, E.
Magnetic Cloud Model Versus Numerical Simulations
- XY0695;** EGU2008-A-09112; ST1-1TU3P-0695
Lynnyk, A.; Vandas, M.
Statistical study of expansion effects in magnetic clouds
- XY0696;** EGU2008-A-02202; ST1-1TU3P-0696
Medina, J.; Hidalgo, M.A.; Blanco, J.J.; Rodríguez-Pacheco, J.
Effects of the Magnetic Clouds over the Solar Energetic Particle Events
- XY0697;** EGU2008-A-01102; ST1-1TU3P-0697
Firoz, K. A.
A study of Cosmic Ray on high latitude Neutron Monitor
- XY0698;** EGU2008-A-01345; ST1-1TU3P-0698
Sabbah, I
Cosmic ray diurnal variation
- XY0699;** EGU2008-A-08669; ST1-1TU3P-0699
Sabbah, I.; Khalil, D; Zaher, A
Power spectrum of cosmic rays intensity
- XY0700;** EGU2008-A-09781; ST1-1TU3P-0700
Gil, A.; Alania, M. V.
On distinction of the rigidity spectrum of the 27-day variation of the galactic cosmic ray intensity for different polarity periods of solar magnetic cycle
- XY0701;** EGU2008-A-10696; ST1-1TU3P-0701
Wawrzynczak, A.; Alania, M.V.
Temporal changes of the rigidity spectrum of the Forbush effects of galactic cosmic ray intensity based on the experimental data
- XY0702;** EGU2008-A-11017; ST1-1TU3P-0702
Modzelewska, R.; Alania, M. V.
Peculiarities of galactic cosmic rays anisotropy during solar proton events
- XY0703;** EGU2008-A-06749; ST1-1TU3P-0703
D’Amicis, R.; Mura, A.; Orsini, S.; Milillo, A.; Hichenbach, M.; Hsieh, K. C.; Telloni, D.; Bruno, R.; Antonucci, E.
On Neutral Solar Wind Flux to be measured at Solar Orbiter’s perihelion
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- ST2 Open session on the magnetosphere (including Julius Bartels Medal Lecture)**
- Convener: Milan, S.
Lecture Room 15
Chairperson: N.N.
- 8:30–8:45;** EGU2008-A-06027; ST2-1TU10-001
Savin, S.; Amata, E.; Kuznetsov, E.; Nemecek, Z.; Buechner, J.; Bleck, J.; Rauch, J.L.; Romanov, S.; Safrankova, J.; Skalsky, A.
About possible impacts on the Sun – Earth connections of intermittent plasma jets and magnetic barriers

8:45–9:00; EGU2008-A-08770; ST2-1TU1O-002
Tatrallyay, M.; Erdos, G.; Dandouras, I.; Georgescu, E.
On the growth of mirror mode waves upstream of the magnetopause based on Cluster observations

9:00–9:15; EGU2008-A-08960; ST2-1TU1O-003
Safrankova, J.; Nemecek, Z.; Samsonov, A. A.; Merka, J.; Koval, A.
Reaction of the bow shock and magnetopause on interplanetary shocks: Multipoint observations and MHD modeling

9:15–9:30; EGU2008-A-01670; ST2-1TU1O-004
Ganushkina, N.; Liemohn, M.; Ilie, R.; Kubyshkina, M.; Ridley, A.
Development of magnetospheric current systems during storms: MHD and event-oriented magnetic field modeling approaches

9:30–9:45; EGU2008-A-01791; ST2-1TU1O-005
Kozlovsky, A.; Alexeev, I.; Meurant, M.
The auroral oval expansion caused by a solar wind pressure increase

9:45–10:00; EGU2008-A-02819; ST2-1TU1O-006
Amm, O.; Nakamura, R.; Takada, T.; Kauristie, K.; Frey, H.; Owen, C.; Aikio, A.; Kuula, R.
Observations of an auroral streamer in a double oval configuration

10:00 COFFEE BREAK

Chairperson: N.N.

10:30–11:00; EGU2008-A-03612; ST2-1TU2O-001
Sergeev, V. A.
Addressing the key problems of magnetospheric dynamics (Julius Bartels Medal Lecture) (solicited)

11:00–11:15; EGU2008-A-04141; ST2-1TU2O-002
Lu, G
Energetic coupling of the solar wind-magnetosphere-ionosphere system

11:15–11:30; EGU2008-A-04547; ST2-1TU2O-003
Lester, M.; Imber, S.; Milan, S.; Denton, M
SuperDARN measurements of convection during intervals of high density at geosynchronous orbit

11:30–11:45; EGU2008-A-05190; ST2-1TU2O-004
BOAKES, P. D.; MILAN, S. E.; ABEL, G. A.; FREEMAN, M. P.; CHISHAM, G.; HUBERT, B.
A statistical study of the open flux content of the magnetosphere at the time of substorm onset

11:45–12:00; EGU2008-A-05894; ST2-1TU2O-005
Fujita, F.; Tanaka, T
The magnetosphere-ionosphere compound system in the extremely weak IMF condition

12:00 LUNCH BREAK

Chairperson: N.N.

13:30–13:45; EGU2008-A-08328; ST2-1TU3O-001
Le, G
ST5 observations of the imbalance of Region 1 and 2 field-aligned currents and its implication to ionospheric closure currents

13:45–14:00; EGU2008-A-09410; ST2-1TU3O-002
Blockx, C.; Gérard, J.-C.; Coumans, V.; Hubert, B.; Meurant, M.
Contribution of the “driven process” and the “loading-unloading process” during substorms: a study based on the IMAGE FUV imager

14:00–14:15; EGU2008-A-09451; ST2-1TU3O-003
Stauning, P.; Troshichev, O. A.
Modeling the ring current from polar magnetic variations

14:15–14:30; EGU2008-A-09641; ST2-1TU3O-004
Freeman, M. P.; Morley, S. K.
Evidence for IMF-triggered substorms is inconclusive.

14:30–14:45; EGU2008-A-02373; ST2-1TU3O-005
Volwerk, M.; Lui, A.T.Y.; Walsh, A.P.; Lester, M.; The ISSI and Cluster Team
Magnetotail Dipolarization and Associated Current Systems Observed by Cluster and DoubleStar

14:45–15:00; EGU2008-A-04487; ST2-1TU3O-006
Cao, J. B.; Ma, Y.D.; Parks, G.; Reme, H.; Dandouras, I.; Nakamura, R.; Zhang, T.; Zong, Q.; Lucek, E.; Carr, C
Relations between substorms and BBFs

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-05339; ST2-1TU4O-001
Nakamura, R.; Baumjohann, W.; Keika, K.; Retino, A.; Lucek, E. A.; Reme, H.; Dandouras, I.; Klecker, B.; Khotyaintsev, Y.; Andre, M.
Cluster multi-point observations of dipolarization in the near tail region

15:45–16:00; EGU2008-A-06843; ST2-1TU4O-002
Opitz, A.; Jacquey, C.; Sauvaud, J.; Lavraud, B.; Lin, R.; Larson, D.; Luhmann, J.; Frey, H.; Kistler, L.; Russell, C.
STEREO substorm observation in the tail and sheath at 200–360 Re: plasmoids and energetic electrons

16:00–16:15; EGU2008-A-09853; ST2-1TU4O-003
Walsh, A. P.; The ISSI Cluster-Doublestar Magnetotail Team
Cluster and Double Star multipoint observations of a plasma bubble

16:15–16:30; EGU2008-A-10114; ST2-1TU4O-004
Ge, Y. S.; **Russell, C. T.;** Angelopoulos, V.; Frey, H.; Mende, S.; Chi, P. J.; Zhang, H.
Conjugate study of a THEMIS substorm event on January 5 2008

16:30–16:45; EGU2008-A-10726; ST2-1TU4O-005
Strangeway, R. J.; Angelopoulos, V.; THE THEMIS TEAM
FAST/THEMIS observations of the westward traveling surge field-aligned currents and their relationship to the substorm current wedge

16:45–17:00; EGU2008-A-05344; ST2-1TU4O-006
PLASCHKE, F.; Glassmeier, K.-H.; Constantinescu, O. D.; Mann, I. R.; Milling, D. K.; Motschmann, U.; Rae, I. J.
Field-line resonance characterization with a wave telescope technique

17:00 END OF SESSION

ST2 Open session on the magnetosphere (including Julius Bartels Medal Lecture) – Posters

Convener: Milan, S.

Display Time: Tuesday, 08:00–19:30

Authors in Attendance: Tuesday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0704; EGU2008-A-08879; ST2-1TU5P-0704

Gutynska, O.; Safrankova, J.; Nemecek, Z.

Magnetosheath fluctuations: A comparison of low and high latitudes

XY0705; EGU2008-A-07148; ST2-1TU5P-0705

Soucek, J.; Lucek, E.; Dandouras, I.

Properties and evolution of mirror structures in the magnetosheath: Cluster observations and interpretation

XY0706; EGU2008-A-00823; ST2-1TU5P-0706

Facsó, G.; Kecskeméty, K.; Tátrallyay, M.; Erdős, G.; Dandouras, I.

Cluster hot flow anomaly observations during a half solar cycle

XY0707; EGU2008-A-03340; ST2-1TU5P-0707

Yordanova, E.; **Carbone, V.;** Sorriso-Valvo, L.; André, M.

Persistence of small-scale anisotropy in magnetospheric turbulence

XY0708; EGU2008-A-04946; ST2-1TU5P-0708

Nishino, M. N.; Fujimoto, M.; Phan, T.-D.; Mukai, T.; Saito, Y.; Rastaetter, L.; Kuznetsova, M. M.

Anomalous flow deflection at the low Alfvén Mach number bow shock

XY0709; EGU2008-A-07492; ST2-1TU5P-0709

Keika, K.; Nakamura, R.; Baumjohann, W.; Glassmeier, K. H.; Auster, H. U.; Fornacon, K. H.; Sibeck, D. G.; Angelopoulos, V.; Cluster and Double Star team

Interactions between a solar wind discontinuity and the Earth's bow shock

XY0710; EGU2008-A-09063; ST2-1TU5P-0710

Prech, L.; Safrankova, J.; Nemecek, Z.; Samsonov, A. A.; Andreeva, K.

Propagation of IP shocks in the geospace

XY0711; EGU2008-A-09138; ST2-1TU5P-0711

Jelinek, K.; Nemecek, Z.; Safrankova, J.

Study of the shape and motion of the bow shock: Themis contribution

XY0712; EGU2008-A-09809; ST2-1TU5P-0712

Mazelle, C.; Lembège, B.; Morgenthaler, A.; Meziane, K.; Horbury, T.; Lucek, E. A.; Dandouras, I.

Nonstationarity of quasi-perpendicular shock front: comparative approach from CLUSTER data with numerical simulation results

XY0713; EGU2008-A-01309; ST2-1TU5P-0713

Kurazhkovskaya, N. A.; Klain, B. I.

About the power law of SSC amplitudes distributions

XY0714; EGU2008-A-01797; ST2-1TU5P-0714

Kozlovsky, A.; Turunen, T.; Aikio, A.; Pitkanen, T.; Kauristie, K.; Massetti, S.

Electric fields associated with post-noon auroras

XY0715; EGU2008-A-02990; ST2-1TU5P-0715

Du, A.; Xu, W.

The Response of Auroral Electrojet to the Orientation of By during 2004 November 19 Storm

XY0716; EGU2008-A-04539; ST2-1TU5P-0716

Barkhatov, N.; Kalinina, E.; Levitin, A.

Dependence of intensity and duration of magnetic storms on a trajectory of magnetic cloud passage through terrestrial magnetosphere

XY0717; EGU2008-A-04557; ST2-1TU5P-0717

Barkhatov, N.; Levitin, A.; Revunov, S.

Connection of geomagnetic activity with orientation of the solar wind electric field concerning the terrestrial magnetic moment

XY0718; EGU2008-A-04656; ST2-1TU5P-0718

Marghitu, O.; Karlsson, T.; Klecker, B.; McFadden, J.

Auroral electrodynamics in the Harang region

XY0719; EGU2008-A-04782; ST2-1TU5P-0719

Lukianova, R.; Kozlovsky, A.; Christiansen, F.; Turunen, T.

Modelling the interplay of IMF BY and season on polar cap electrodynamics

XY0720; EGU2008-A-05200; ST2-1TU5P-0720

Boakes, P. D.; Milan, S. E.; Abel, G. A.; Freeman, M. P.; Chisham, G.; Hubert, B.; Sotirelis, T.

On the use of IMAGE FUV for estimating the latitude of the open/closed field line boundary in the ionosphere

XY0721; EGU2008-A-05536; ST2-1TU5P-0721

Borodkova, N. L.; Zastenker, G. N.

Auroral responses to the large solar wind dynamic pressure pulses under the different IMF Bz orientation: case studies

XY0722; EGU2008-A-06974; ST2-1TU5P-0722

Tyasto, M. I.; Danilova, O. A.; Ptitsyna, N. G.; Dvornikov, V. M.; Sdobnov, V. E.; Villaresi, G.

Magnetospheric magnetic field validating by the use of cosmic ray experimental data

XY0723; EGU2008-A-07676; ST2-1TU5P-0723

Chisham, G.; Freeman, M. P.; Abel, G. A.

The non-Gaussian nature of ionospheric vorticity fluctuations

XY0724; EGU2008-A-04118; ST2-1TU5P-0724

Chisham, G.; Freeman, M. P.; Abel, G. A.

Statistical field-aligned current maps determined from SuperDARN HF radar measurements of ionospheric vorticity

XY0725; EGU2008-A-08025; ST2-1TU5P-0725

Milan, S. E.; Imber, S. M.; Boakes, P. D.; Hubert, B.

Investigation of the relative roles of the near-Earth and distant neutral lines in flux closure in the Dungey cycle

XY0726; EGU2008-A-08419; ST2-1TU5P-0726

Woodfield, E. E.; **Dunlop, M. W.;** Holme, R.; Davies, J. A.; Hapgood, M. A.

An extended comparison of Cluster magnetic data with the Tsyganenko 2001 model

XY0727; EGU2008-A-09016; ST2-1TU5P-0727

Andreeva, K.; Pulkkinen, T. I.; Laitinen, T. V.; Prech, L.

Comparison of the observations and global MHD simulations of interplanetary shock propagation through the Earth's magnetosphere

XY0728; EGU2008-A-09221; ST2-1TU5P-0728

Rother, M.; Schlegel, K.; Luehr, H.

Observation of intense kilometre-scale field-aligned currents: Evidence for an Alfvén resonator?

XY0729; EGU2008-A-09535; ST2-1TU5P-0729

Stauning, P.; Troshichev, O. A.

Polar cap convection and PC index variations during sudden changes in solar wind dynamic pressure

XY0730; EGU2008-A-09714; ST2-1TU5P-0730

Smolin, S.

Numerical solution of the steady state transport equation at arbitrary pitch angle

XY0731; EGU2008-A-10774; ST2-1TU5P-0731

Khabarova, O. V.

Investigation of mild and weak geomagnetic storms' origin

XY0732; EGU2008-A-10952; ST2-1TU5P-0732
Yagova, N. V.; Schekotov, A. Yu; Fedorov, E. N.; Molchanov, O. A.; Andreevsky, S. E.; Belyaev, G.G.; Gladyshev, V. A.
 Ionospheric Alfvén resonator and ring current dynamics

XY0733; EGU2008-A-11277; ST2-1TU5P-0733
Yagova, N. V.; Pilipenko, V. A.; Baransky, L. N.; Engebretson, M.; Yumoto, K.
 Parameters of the geomagnetic noise in the Pc5/Pi3 frequency range for different space weather conditions

XY0734; EGU2008-A-01277; ST2-1TU5P-0734
Israelevich, P.; Ershkovich, A.; Oran, R.
 Current carriers in the tail current sheet

XY0735; EGU2008-A-04919; ST2-1TU5P-0735
Izutsu, T.; Takada, T.; Fujimoto, M.; Asano, Y.; Hasegawa, H.; Lucek, E. A.; Reme, H.
 Time evolution of the current sheet associated with fast flows in the near-Earth plasma sheet observed by Cluster

XY0736; EGU2008-A-06407; ST2-1TU5P-0736
Heilig, B.; Lühr, H.; Rother, M.
 Simultaneous observation of dayside Pc3 pulsations in the foreshock, in the topside ionosphere and on the ground

XY0737; EGU2008-A-07774; ST2-1TU5P-0737
Holland, V.; Tanskanen, E.I.; Huang, D.; Viljanen, A.
 Comparing the magnetic activity in the northern and southern auroral region, 28. October - 4. November 2003

XY0738; EGU2008-A-10620; ST2-1TU5P-0738
Sauvaud, J.-A.; Opitz, A.; Jacquey, C.; Larson, D.; Luhmann, J.; Russell, C.; Kistler, L.
 Very fast Response of the far Tail (255 Re) of the Earth Magnetosphere to weak substorm: a STEREO View

XY0739; EGU2008-A-10843; ST2-1TU5P-0739
Snekvik, K.; Nakamura, R.; Østgaard, N.; Haaland, S.
 A statistical study of the current sheet structure associated with fast flows in the magnetotail

XY0740; EGU2008-A-10000; ST2-1TU5P-0740
Fox, N.; Mauk, B.; Sibeck, D.; Grebowsky, J
 The Living With a Star Radiation Belt Storm Probes Mission

ST10 First results from STEREO – Posters

Convener: Bothmer, V.
 Co-Convener(s): Harrison, R., Vourlidas, A.
 Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 15:30–17:00
 Poster Area Halls X/Y
 Chairperson: BOTHMER, V.; HARRISON, R.; VOURLIDAS, A.

XY0741; EGU2008-A-12321; ST10-1TU4P-0741
Bothmer, V.; Veselovsky, I.S.; Yakovchuka, O.S.
 Jet-CMEs in three dimensions: STEREO observations and interpretation

XY0742; EGU2008-A-08880; ST10-1TU4P-0742
Hundertmark, M.; Bewsher, D.; Vourlidas, A.; Hessman, F.V.; Dreizler, S.; Bothmer, V.
 Detecting Variable Stars with STEREO's Heliospheric Imagers

XY0743; EGU2008-A-02313; ST10-1TU4P-0743
Schroeder, P.; Luhmann, J.G.; Li, Y.; Huttunen, E.; Toy, V.; Davis, A.; Russell, C.T.; Szabo, A.; Narock, T.
 Multi-point in situ data and tools for STEREO's IMPACT investigation

XY0744; EGU2008-A-07760; ST10-1TU4P-0744
Bucik, R.; Gomez-Herrero, R.; Inhester, B.; Korth, A.; Mall, U.; Mason, G.; Mierla, M.; Srivastava, N.
 STEREO observations of solar energetic particles: a case study

XY0745; EGU2008-A-08276; ST10-1TU4P-0745
Möstl, C.; Farrugia, C.J.; Galvin, A.; Huttunen, K.E.J.; Luhmann, J.G.; Biernat, H.K.
 Reconstruction of magnetic clouds with two spacecraft: Examples from WIND-ACE and STEREO-WIND

XY0746; EGU2008-A-08333; ST10-1TU4P-0746
Möstl, C.; Miklenic, C.; Farrugia, C.J.; Temmer, M.; Veronig, A.; Galvin, A.; Vršnak, B.; Biernat, H.K.
 Two-spacecraft Reconstruction of a Magnetic Cloud and comparison to its Solar Source

XY0747; EGU2008-A-04740; ST10-1TU4P-0747
 Blanco-Cano, X.; Aguilar-Rodriguez, E.; **Russell, C. T.;** Luhmann, J. G.; Krauss-Varban, D.; Galvin, A. B.; Kistler, L.; Mewaldt, R.
 STEREO Observations of Waves Near Interplanetary Shocks

XY0748; EGU2008-A-10537; ST10-1TU4P-0748
Lugaz, N.; Roussev, I.; Vourlidas, A.; Sokolov, I.; Cohen, O.
 Numerical investigation of the January, 24-26, 2007, coronal mass ejections

XY0749; EGU2008-A-10263; ST10-1TU4P-0749
Rouillard, A.P.; Rees, A.; Forsyth, R.J.; Davies, J.A.; Davis, C.J.; Morley, S.K.; Harrison, R.A.; Bewsher, D.
 Properties of corotating interaction regions observed in the inner heliosphere by the STEREO spacecraft

XY0750; EGU2008-A-05657; ST10-1TU4P-0750
Gómez-Herrero, R.; Klassen, A.; Müller-Mellin, R.; Heber, B.; Wimmer-Schweingruber, R.; Böttcher, S.
 Recurrent CIR-accelerated ions observed by STEREO/SEPT

XY0751; EGU2008-A-04491; ST10-1TU4P-0751
 Jian, L. K.; **Russell, C. T.;** Luhmann, J. G.; Galvin, A. B.
 Multipoint observations of stream interaction regions: associated shocks, relationship with heliospheric current sheet, and other properties

XY0752; EGU2008-A-05577; ST10-1TU4P-0752
Kucharek, H. ; Moebius, E.; Allegrini, F.; Desai, M.; Klecker, B.; Popecki, M.; Farrugia, C.; Galvin, A. B.; Bochsler, P.; Simunac, K.; THE STEREO TEAM
 Acceleration of Helium at Interplanetary Discontinuities: ACE STEREO Observations and Simulations

XY0753; EGU2008-A-04868; ST10-1TU4P-0753
Pulupa, M.; Bale, S.; Lin, R.; Luhmann, J.; Larson, D.; Goetz, K.; Maksimovic, M.; Kaiser, M.; Ergun, R.
 Electron beams and ion events in the terrestrial foreshock observed during early STEREO orbit

XY0754; EGU2008-A-03958; ST10-1TU4P-0754
Desai, M.; Mason, G.; Muller-Mellin, R.
 The Spatial Distribution of Upstream Ion Events Measured by ACE, Wind, and STEREO Near the Earth's Bow Shock

XY0755; EGU2008-A-03192; ST10-1TU4P-0755
Oswald, T.H.; Macher, W.; Rucker, H.O.
 In-flight calibration of the STEREO/WAVES antennas

XY0756; EGU2008-A-08895; ST10-1TU4P-0756
Zouganelis, I.; Bale, S.D.; Goetz, K.; Maksimovic, M.; Bougeret, J.-L.
 Electron density measurements from the shot noise collected on the STEREO/WAVES antennas

XY0757; EGU2008-A-05357; ST10-1TU4P-0757
Forsyth, R. J.; Rees, A.; Rouillard, A.; Huttunen, E.; Russell, C. T.; McComas, D. J.; Galvin, A. B.
Multi-Spacecraft Observations of ICMEs and Magnetic Clouds: Ulysses and STEREO

XY0758; EGU2008-A-05989; ST10-1TU4P-0758
Heber, B.; Gomez-Herrero, R.; Dresing, N.; Dunzlaff, P.; Müller-Mellin, R.; Klassen, A.; Wimmer-Schweingruber, R.; Kecskemety, K.
The Spatial Evolution of 26-Day Recurrent Particle Intensity Variation: Correlated ULYSSES, SOHO, and STEREO Particle Observations

IS62 - ST15/AS4.06 Joint Session of the MLT and the CAWSES program (co-organized by ST & AS)

Convener: Preusse, P.
Co-Convener(s): Oberheide, J., Lübken, F.
Lecture Room 10
Chairperson: PREUSSE, P.

17:30–17:45; EGU2008-A-01750; IS62 - ST15/AS4.06-1TU5O-001
Forbes, J.M.; Zhang, X.; Russell, J.; Mertens, C.; Mlynczak, M.
Kelvin Waves in Stratosphere, Mesosphere and Lower Thermosphere Temperatures as Observed by TIMED/SABER during 2002–2006

17:45–18:00; EGU2008-A-03946; IS62 - ST15/AS4.06-1TU5O-002
Haefele, A.; Hocke, K.; Kämpfer, N.; Keckhut, P.; Marchand, M.; Morel, B.; Egorova, T.; Rozanov, E.
Diurnal cycles in middle atmospheric water vapor and ozone: Measurements and models

18:00–18:15; EGU2008-A-05385; IS62 - ST15/AS4.06-1TU5O-003
Llewellyn, E.; Gattinger, R.; Degenstein, D.; Bathgate, A.
Atmospheric temperature profiles from optical measurements in the limb (solicited)

18:15–18:45; EGU2008-A-06004; IS62 - ST15/AS4.06-1TU5O-004
Kallenrode, M.-B.
Energetic Particle Populations and the Atmosphere (solicited)

18:45–19:00; EGU2008-A-08209; IS62 - ST15/AS4.06-1TU5O-005
Beldon, C.L.; Mitchell, N.J.
Seasonal variability and tidal interactions of gravity waves in the Arctic and Antarctic mesosphere

19:00 END OF SESSION

IS62 - ST15/AS4.06 Joint Session of the MLT and the CAWSES program (co-organized by ST & AS) – Posters

Convener: Preusse, P.
Co-Convener(s): Oberheide, J., Lübken, F.
Display Time: Tuesday, 08:00–19:30
Authors in Attendance: Tuesday, 13:30–15:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0759; EGU2008-A-02031; IS62 - ST15/AS4.06-1TU3P-0759
Preusse, P.; Ern, M.; Eckermann, S.D.; Oberheide, J.; Riese, M.; Schroeder, S.; Russel, J.M.; Mlynczak, M.G.
Global ray tracing simulations of the SABER gravity wave climatology

XY0760; EGU2008-A-03047; IS62 - ST15/AS4.06-1TU3P-0760
Grieger, N.; Achatz, U.; Schmidt, H.
Thermal tides as important coupling process in the atmosphere

XY0761; EGU2008-A-03137; IS62 - ST15/AS4.06-1TU3P-0761
Schmidt, C.; Bittner, M.
Hydroxyl airglow response to the 2006 Leonid and Geminid meteor showers

XY0762; EGU2008-A-03138; IS62 - ST15/AS4.06-1TU3P-0762
Pilger, C.; Bittner, M.
Impact of summertime troposphere planetary wave activity on mesopause temperature-fluctuations through infrasound

XY0763; EGU2008-A-03175; IS62 - ST15/AS4.06-1TU3P-0763
Kazeminejad, S.; Sinnhuber, M.; Winkler, H.; Notholt, J.
Response of the middle atmosphere's chemical composition due to solar particle events

XY0764; EGU2008-A-03183; IS62 - ST15/AS4.06-1TU3P-0764
Moffat-Griffin, T.; Hibbins, R. E.; Nielsen, K.; Jarvis, M. J.; Taylor, M. J.
Observations of mesospheric gravity waves using an imaging riometer and an airglow imager

XY0765; EGU2008-A-03565; IS62 - ST15/AS4.06-1TU3P-0765
Rohs, S.; Spang, R.; Vos, H.; Schiller, C.
A correlation between cirrus clouds and galactic cosmic rays?

XY0766; EGU2008-A-03709; IS62 - ST15/AS4.06-1TU3P-0766
Borries, C.; Jakowski, N.; Jacobi, C.; Hoffmann, P.; Pogoreltsev, A.
Planetary Wave Type Oscillations Seen in Ionospheric Total Electron Content

XY0767; EGU2008-A-04166; IS62 - ST15/AS4.06-1TU3P-0767
Kaufmann, M.; Lehmann, C.; Ern, M.; **Preusse, P.**; Hoffmann, L.; v. Savigny, C.; Funke, B.; Lopez-Puertas, M.; Smith, A.K.; Riese, M.
Analysis of nighttime hydroxyl infrared airglow emissions from SCIAMACHY satellite measurements

XY0768; EGU2008-A-04235; IS62 - ST15/AS4.06-1TU3P-0768
Achatz, U.; Grieger, N.; Schmidt, H.
Mechanisms Controlling the Diurnal Solar Tide: Analysis Using a GCM and a Linear Model

XY0769; EGU2008-A-05304; IS62 - ST15/AS4.06-1TU3P-0769
Ryabchenko, E.Yu.; Sherstyukov, O.N.
The global QBO effect on the MLT-region dynamics with planetary wave scales as seen from the Es-layer data analysis

XY0770; EGU2008-A-06238; IS62 - ST15/AS4.06-1TU3P-0770
Oberheide, J.; THE CAWSES TIDAL CAMPAIGN TEAM
Initial Results from the CAWSES Tidal Campaigns

XY0771; EGU2008-A-07315; IS62 - ST15/AS4.06-1TU3P-0771
Wissing, J.M.; Kallenrode, M.-B.
Impact of solar and magnetospheric particles on the entire atmosphere - a view on global ionization with AIMOS

XY0772; EGU2008-A-07460; IS62 - ST15/AS4.06-1TU3P-0772
Dikty, S.; Weber, M.; Sinnhuber, M.; Remsberg, E. E.; Mlynczak, M. G.; Burrows, J. P.
27-day and diurnal variations in SABER ozone data

XY0773; EGU2008-A-07479; IS62 - ST15/AS4.06-1TU3P-0773
Pagaran, J.A.; Weber, M.; Burrows, J.P.; Krivova, N.; Solanki, S.; Floyd, L.
Variability of solar irradiance from the UV to the NIR from GOME and SCIAMACHY for use in atmospheric models

XY0774; EGU2008-A-08015; IS62 - ST15/AS4.06-1TU3P-0774
Brattli, A.; Lie-Svendsen, Ø.; Svenes, K.; Hoppe, U.-P.; Strelnikova, I.; Rapp, M.; Latteck, R.; Friedrich, M.
The ECOMA 2007 rocket campaign: Observations and numerical modelling of aerosol particle density enhancements and plasma depletions in a PMSE layer

XY0775; EGU2008-A-08179; IS62 - ST15/AS4.06-1TU3P-0775
Hibbins, R.E.; Jarvis, M.J.
Drivers of inter-annual variability in the planetary wave field in the Antarctic MLT

XY0776; EGU2008-A-08293; IS62 - ST15/AS4.06-1TU3P-0776
Sandford, D. J.; Mitchell, N. J.; Schwartz, M. J.
The wintertime two-day wave in the polar stratosphere, mesosphere and lower thermosphere

XY0777; EGU2008-A-08490; IS62 - ST15/AS4.06-1TU3P-0777
Belova, E.; **Smirnova, M.**; Sergienko, T.; Kero, A.
Study of ionospheric parameters during polar mesosphere winter echoes using radiowave electron heating.

XY0778; EGU2008-A-08697; IS62 - ST15/AS4.06-1TU3P-0778
Mlynczak, M.; Martin-Torres, F.; Kozyra, J.; Russell, J.; Woods, T.
Long and short-term variations in the energy balance of the thermosphere from TIMED and SORCE data

XY0779; EGU2008-A-09059; IS62 - ST15/AS4.06-1TU3P-0779
von Savigny, C.; Baumgarten, G.; Robert, C.; Bovensmann, H.; Burrows, J.
Comparisons of satellite and ground-based Measurements of Noctilucent Cloud Particle Sizes

Wednesday

ST3 Open session on the ionosphere and thermosphere including connections to regions above and below

Convener: Zolesi, B.
Co-Convener(s): Aruliah, A.
Lecture Room 15
Chairperson: ZOLESI, B.

8:30–8:45; EGU2008-A-00199; ST3-1WE1O-001
Sidorova, L.
Topside ionosphere irregularities: He⁺ density depletions (bubbles)

8:45–9:15; EGU2008-A-06709; ST3-1WE1O-002
Amm, O.; Aruliah, A.; Buchert, S.C.; Fujii, R.; Gjerloev, J.W.; Ieda, A.; Matsuo, T.; Stolle, C.; Vanhamäki, H.; Yoshikawa, A.
Understanding the electrodynamics of the 3-dimensional high-latitude ionosphere: present and future (solicited)

9:15–9:30; EGU2008-A-06464; ST3-1WE1O-003
Tsagouri, I.; Koutroumbas, K.; Belehaki, A.
Solar wind driven autoregression model for short term ionospheric forecast (solicited)

9:30–9:45; EGU2008-A-00233; ST3-1WE1O-004
Aburjania, G.D.
Turbulent generation of zonal flows and large-scale magnetic fields by small-scale drift-Alfvén modes in the ionosphere

9:45–10:00; EGU2008-A-00522; ST3-1WE1O-005
Gudadze, N. B.; Didebulidze, G. G.; Lomidze, L. N.; **Todua, M.**
Coupling between the night variations in the red 630.0 nm line nightglow intensity and long-term changes in the meridional wind velocity

10:00 COFFEE BREAK

Chairperson: ARULIAH, A.

10:30–10:45; EGU2008-A-02682; ST3-1WE2O-001
Chum, J.; Hruska, F.; Buresova, D.; Sindelarova, T.; Hejda, P.; Bochnicek, J.
Geomagnetic Pi2 pulsations and related ionospheric oscillations measured by Doppler sounding

10:45–11:00; EGU2008-A-03171; ST3-1WE2O-002
Bencze, P.; Lemperger, I.
Solar cycle variations of plasmaspheric plasma parameters based on

11:00–11:15; EGU2008-A-03950; ST3-1WE2O-003
Cnossen, I.; Richmond, A.D.
Modelling the effects of changes in the Earth's magnetic field from 1957 to 1997 on the ionospheric hmF2 and foF2 parameters

11:15–11:30; EGU2008-A-04813; ST3-1WE2O-004
Griffin, E.; Aruliah, A.; Yiu, H.-C.; McWhirter, I.; Charalambous, A.; McCrea, I.
Spatially extended observations of the coupled thermospheric and ionospheric temperature and velocity field over Svalbard

11:30–11:45; EGU2008-A-05844; ST3-1WE2O-005
Zherebtsov, G.A.; Pirog, O.M.; Polekh, N.M.; Romanova, E.B.
Ionospheric effects of geomagnetic storm in different sectors: observation and modeling

11:45 END OF SESSION

ST3 Open session on the ionosphere and thermosphere including connections to regions above and below – Posters

Convener: Zolesi, B.
Co-Convener(s): Aruliah, A.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: ZOLESI, B.

XY0764; EGU2008-A-00198; ST3-1WE4P-0764
Sidorova, L.
Longitudinal distribution and statistics of the He⁺ density depletions (bubbles): Northern and Southern hemispheres

XY0765; EGU2008-A-01530; ST3-1WE4P-0765
Ning, B.; Li, G.; Hu, L.
Investigation of plasma bubble occurrence characteristics over China

XY0766; EGU2008-A-01757; ST3-1WE4P-0766

Liu, L.

Case study on unusual enhancements in NmF2 and total electron content enhancements at low latitudes during low geomagnetic activities

XY0767; EGU2008-A-03026; ST3-1WE4P-0767

Uspensky, M.; Pellinen, R.

EISCAT-STARE study of irregularity drifts in high-latitude E-region and wave-wave interaction

XY0768; EGU2008-A-03560; ST3-1WE4P-0768

Bencze, P.; Kis, Á.

Equatorial anomaly in the F-region of the ionosphere and in the thermospheric total neutral

XY0769; EGU2008-A-05367; ST3-1WE4P-0769

Baddeley, L

Funding Opportunities at the European Incoherent Scatter (EISCAT) Radars

XY0770; EGU2008-A-07438; ST3-1WE4P-0770

Ptitsyna, N.G.; Tyasto, M.I.; Kasinsky, V.V.; Villaresi, G.

Influence of geomagnetic storms on railway telemetry

XY0771; EGU2008-A-07933; ST3-1WE4P-0771

Cumnock, J.A.; Kullen, A.; Karlsson, T.; Sundberg, K.Å.T; Blomberg, L.G.

Small-scale characteristics of transpolar arcs

XY0772; EGU2008-A-08370; ST3-1WE4P-0772

Mosna, Z.; Sauli, P.

Analysis of parameters coupled to ionosphere processes

XY0773; EGU2008-A-09614; ST3-1WE4P-0773

Stauning, P.; Troshichev, O. A.; Janzhura, A. S.

The Polar Cap (PC) index. Present (unified) and past index calculations

XY0774; EGU2008-A-09819; ST3-1WE4P-0774

Hamar, D.; Lichtenberger, J.; Ferencz, Cs.; Bodnár, L.; Steinbach, P.; Parrot, M.

The effect of the ionosphere on VLF wave propagation by LEO (Demeter and Compass) satellite measurements

XY0775; EGU2008-A-10239; ST3-1WE4P-0775

Truhlik, V.; Podolska, K.; Triskova, L.

Modeling of Plasma Temperatures in the Topside Ionosphere and Plasmasphere – Quasiempirical Models

XY0776; EGU2008-A-05853; ST3-1WE4P-0776

Pirog, O.M. ; Polekh, N.M.; Romanova, E.B.; Zhrebtsov, G.A.; Shi, J.K.; Wang, X.

A study of ionospheric response to magnetic superstorms

XY0777; EGU2008-A-05779; ST3-1WE4P-0777

Kalogerakis, K. S.; Slanger, T. G.; Kendall, E. A.

Remote oxygen sensing by ionospheric excitation (ROSIE)

XY0778; EGU2008-A-05975; ST3-1WE4P-0778

Romanova, E.B.; Tashchilin, A.V.

A theoretical study of dynamics of mean ionospheric trough

XY0779; EGU2008-A-06347; ST3-1WE4P-0779

Voiculescu, M.; Nygrén, T.

Effect of IMF on the trough location and relationship to plasma convection

XY0780; EGU2008-A-01700; ST3-1WE4P-0780

Chargazia, Kh.

Ultra Low Frequency Electromagnetic Wave Generation, Amplification and Mutual Transformation at Interaction with Local Inhomogeneous Non-stationary Shear Flows

XY0781; EGU2008-A-07750; ST3-1WE4P-0781

Lamy, H.; Roth, M.; De Keyser, J.; Sergienko, T.; Gustavsson, B.; Sandahl, I.; Brandström, U.

Two-dimensional map of the field-aligned potential drop obtained from ALIS observations of auroral arcs

XY0782; EGU2008-A-07771; ST3-1WE4P-0782

Nagorsky, P.M.; Tscibikov, B.B.

Evolution of level of the medium scale wave-like disturbances in the ionosphere at transition of earth's magnetic field from quiet to disturbed conditions

XY0783; EGU2008-A-08665; ST3-1WE4P-0783

Sundberg, K Å T; Blomberg, L G; Cumnock, J A

The low-latitude dynamo: An event study

XY0784; EGU2008-A-09281; ST3-1WE4P-0784

Lathuillere, C; Marchaudon, A; **Menvielle, M**

Comparative study of thermospheric storms observed by Champ

XY0785; EGU2008-A-10494; ST3-1WE4P-0785

de La Beaujardière, O.; Rich, F.; Huang, C.; Cooke, D.; Mozer, J.; Gentile, L.

The PECOS mission of small space weather satellites to provide the required observations for the post DMSP era

ST5 Theory and simulations of solar system plasmas (co-listed in PS)

Convener: Leubner, M.

Co-Convener(s): Büchner, J., Belmont, G.

Lecture Room 11

Chairperson: LEMBEGE, B.

Turbulence

8:30–8:45; EGU2008-A-04276; ST5-1WE1O-002

Yoon, P.

Turbulent Acceleration of Electron Kappa Distribution (solicited)

8:45–9:00; EGU2008-A-02488; ST5-1WE1O-003

Chapman, S. C.; Rowlands, G.; Watkins, N. W.

Generalized Reynolds numbers and points of contact between intermittent turbulence and Self Organized Criticality

9:00–9:15; EGU2008-A-03270; ST5-1WE1O-004

Valentini, F.; Veltri, P.; Califano, F.; Mangeney, A.

Kinetic effects on slab turbulence in solar wind plasmas

9:15–9:30; EGU2008-A-03719; ST5-1WE1O-005

Voros, Z.; Leubner, M. P.

Non-universal scalings in solar wind turbulence

9:30–9:45; EGU2008-A-02182; ST5-1WE1O-006

Petkaki, P.; Freeman, M. P.

Nonlinear dependence of anomalous ion-acoustic resistivity on electron drift velocity

9:45–10:00; EGU2008-A-07775; ST5-1WE1O-007

Watkins, N W

An equation for modelling ambivalent time series in space physics (solicited)

10:00 COFFEE BREAK

Chairperson: LEUBNER, M. P.

Solar Wind/Magnetosphere

10:30–10:45; EGU2008-A-11582; ST5-1WE2O-002

Bhattacharjee, A.

Scaling of Reconnection and Stability of Current Sheets in Large Systems (solicited)

10:45–11:00; EGU2008-A-11575; ST5-1WE2O-003
Lembege, B.; Cai, D.; Tao, W.; Nishikawa, K.
Signatures of substorm triggering in the magnetotail during IMF

11:00–11:15; EGU2008-A-07450; ST5-1WE2O-004
Pulkkinen, T.I.; Goodrich, C.C.; Merkin, V.; Lyon, J.G.; Wiltberger, M.J.
Ionospheric vs. Magnetotail Activity Dependence on Driving Solar Wind Parameters

11:15–11:30; EGU2008-A-01874; ST5-1WE2O-005
Fahr, H.
Phasespace transport of heliospheric pick-up ions under the control of CGL invariants

11:30–11:45; EGU2008-A-07891; ST5-1WE2O-006
Elkina, N
Kinetic simulations of highly magnetized solar plasmas (solicited)

11:45–12:00; EGU2008-A-03412; ST5-1WE2O-007
Hellinger, P.; Travnicek, P.; Passot, T.; Sulem, P.-L.; Kuznetsov, E. A.; Califano, F.
Nonlinear mirror instability: humps and holes

12:00 LUNCH BREAK

Lecture Room 14
Chairperson: YOON, P.

Solar Physics

17:30–17:45; EGU2008-A-06059; ST5-1WE5O-002
Zimbardo, G. ; Bitane, R.; Nigro, G.; Pommois, P.; Veltri, P.
Electron transport and magnetic turbulence in coronal loops: the need for a numerical evaluation of the Kolmogorov entropy of magnetic field lines in the percolation regime (solicited)

17:45–18:00; EGU2008-A-11828; ST5-1WE5O-003
Grappin, R.; Aulanier, G.; Pinto, R.
Quantifying the effect of dense layers on fieldline footpoint motions

18:00–18:15; EGU2008-A-01101; ST5-1WE5O-004
Karlický, M.
PIC code simulations of solar flare processes (solicited)

18:15–18:30; EGU2008-A-11168; ST5-1WE5O-005
Zharkova, V.; Siversky, T.
The effect of polarisation electric field on particle acceleration in a 3D current sheet

18:30–18:45; EGU2008-A-10160; ST5-1WE5O-006
Buchlin, E.; Cargill, P.; Bradshaw, S.; Velli, M.
Forward-modelling of UV observables from the turbulent heating in coronal loops

18:45–19:00; EGU2008-A-12112; ST5-1WE5O-007
Malara, F.; Nigro, G.; Veltri, P.
Resonance and nonlinear effects in a turbulent coronal loop

19:00 END OF SESSION

ST5 Theory and simulations of solar system plasmas (co-listed in PS) – Posters

Convener: Leubner, M.
Co-Convener(s): Büchner, J., Belmont, G.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: VOROS, Z.

XY0786; EGU2008-A-00803; ST5-1WE4P-0786
Divin, A.; Artemiev, A.; Semenov, V.; Korovin, D.
Thin current sheets in the diffusion region of reconnection process

XY0787; EGU2008-A-01125; ST5-1WE4P-0787
Leitner, M.; Farrugia, C. J.; Biernat, H. K.
Changes of the Solar Wind Quasi-Invariant during the Helios 1 and 2 mission

XY0788; EGU2008-A-09570; ST5-1WE4P-0788
Macek, W.; Szczepaniak, A.
Asymmetric multifractal model for space plasma turbulence

XY0789; EGU2008-A-01848; ST5-1WE4P-0789
Echkina, E.; Inovenkov, I.
The magnetic reconnection in 3D solar plasma configuration and its influence on magnetic helicity

XY0790; EGU2008-A-02455; ST5-1WE4P-0790
Wiegmann, T.; Neukirch, T.; Ruan, P.; Inhester, B.
Optimization approach for the computation of magnetohydrostatic coronal equilibria

XY0791; EGU2008-A-02497; ST5-1WE4P-0791
Faganello, M.; Califano, F.; Pegoraro, F.
Numerical evidence of undriven, fast reconnection in solar wind interaction with the earth magnetosphere: formation of electromagnetic coherent structures

XY0792; EGU2008-A-02678; ST5-1WE4P-0792
Camporeale, E.; Burgess, D.
Electron firehose instability: kinetic linear theory and 2D Particle-in-Cell simulations

XY0793; EGU2008-A-04715; ST5-1WE4P-0793
Podgorny, A. I.; Podgorny, I. M.
MHD Simulation of several Current Sheets Creation for a Set of elementary Flares

XY0794; EGU2008-A-03252; ST5-1WE4P-0794
Innocenti, M.E.; Lapenta, G.
Spontaneous large scale momentum exchange by

XY0795; EGU2008-A-05544; ST5-1WE4P-0795
Voitcu, G.; Bunescu, C.; Echim, M.
Investigation of anisotropic velocity distribution functions using numerical solutions of the stationary Vlasov equation

XY0796; EGU2008-A-05572; ST5-1WE4P-0796
Slominska, E.; Voitcu, G.; Echim, M.; Lamy, H.; Pierard, V.; Lemaire, J.
Collisionless transport equations in the solar wind with Kappa distribution

XY0797; EGU2008-A-05774; ST5-1WE4P-0797
Roussev, I. I.; Lugaz, N.; Sokolov, I. V.
Topological Changes during Coronal Mass Ejections: New Insight from 3-D Numerical Simulations

XY0798; EGU2008-A-03455; ST5-1WE4P-0798
Zelenyi, L.M.; Artemyev, A.V.; **Malova, H.V.;** Milovanov, A.V.; Zimbardo, G.
Numerical study of particle transport and acceleration

XY0799; EGU2008-A-07734; ST5-1WE4P-0799

Siewert, M.; Fahr, H.-J.

A description of astrophysical shocks using adiabatic (CGL) invariants

XY0800; EGU2008-A-08108; ST5-1WE4P-0800

Aunai, N.

Asymmetric magnetic reconnection in a magnetopause-like topology

XY0801; EGU2008-A-09598; ST5-1WE4P-0801

Lee, K.W.; Elkina, Nina; Buechner, Joerg; Hau, L.N.

Particle acceleration due to looptop fast-mode shock above coronal soft X-ray loops

XY0802; EGU2008-A-09988; ST5-1WE4P-0802

Matteini, L.; Landi, S.; Velli, M.; Hellinger, P.

Wave-particle interactions close to the cyclotron frequency in the expanding solar wind

XY0803; EGU2008-A-10594; ST5-1WE4P-0803

Savoini, Ph.; Lembege, B.

Energization mechanisms of backstreaming electrons within the foreshock region: 2-D full-particle simulation results.

XY0804; EGU2008-A-10616; ST5-1WE4P-0804

Rappazzo, A.F.; Velli, M.; Einaudi, G.; Dahlburg, R.B.

Nonlinear Dynamics of the Parker Scenario for Coronal Heating

XY0805; EGU2008-A-11697; ST5-1WE4P-0805

Artemyev, A.V.; Zelenyi, L.M.; **Malova, H.V.;** Popov, V.Yu.

Low frequency perturbations of anisotropic thin current sheets in collisionless plasma

XY0806; EGU2008-A-11966; ST5-1WE4P-0806

Verscharen, D.; Fahr, H.-J.

Kinetic treatment of the quasi-parallel magnetohydrodynamic solar wind termination shock

XY0807; EGU2008-A-12255; ST5-1WE4P-0807

Copil, P.; Voitenko, Y.; Goossens, M.

Torsional Alfvén waves in small scale density threads of the solar corona

XY0915; EGU2008-A-04031; ST5-1WE4P-0915

Malova, H.

Thin current sheets in collisionless plasma: their structure, stability and plasma acceleration processes

ST13 Cross-scale coupling between inner magnetospheric plasma populations in the solar system (co-listed in PS)

Convener: Shprits, Y.

Co-Convener(s): Krupp, N., Friedel, R., Ganushkina, N.

Lecture Room 15

Chairperson: SHPRITS, Y.

17:30–18:00; EGU2008-A-05800; ST13-1WE5O-001

Inan, U

Inner Belt & Slot Region Electron Losses due to Lightning-generated Whistlers and VLF Transmitter Signals (solicited)

18:00–18:15; EGU2008-A-06599; ST13-1WE5O-002

Laakso, H.; Asnes, A.; Escoubet, C.P.; Masson, A.; Taylor, M.

Coupling of plasma populations in the dusk sector of the inner magnetosphere

18:15–18:30; EGU2008-A-12234; ST13-1WE5O-003

Horne, R.

Electron acceleration and loss in the radiation belts at Earth and Jupiter (solicited)

18:30–18:45; EGU2008-A-11118; ST13-1WE5O-004

Goldstein, J.; Thomsen, M.; Sandel, B.

Residual Plasmaspheric Density Structure: In Situ Measurements and Complementary Plasmopause Test Particle Simulations (solicited)

18:45–19:00; EGU2008-A-07097; ST13-1WE5O-005

Lavraud, B.; Jordanova, V. K.; Thomsen, M. F.

Influence of plasma sheet density, temperature and local time distribution on the proton ring current strength and morphology

19:00 END OF SESSION

ST13 Cross-scale coupling between inner magnetospheric plasma populations in the solar system (co-listed in PS) – Posters

Convener: Shprits, Y.

Co-Convener(s): Krupp, N., Friedel, R., Ganushkina, N.

Display Time: Wednesday, 08:00–19:30

Authors in Attendance: Wednesday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0808; EGU2008-A-10009; ST13-1WE3P-0808

Darrouzet, F.; **De Keyser, J.;** Décréau, P.M.E.; El Lemdani-Mazouz, F.; Vallières, X.

Statistical analysis of plasmaspheric plumes with CLUSTER/WHISPER observations

XY0809; EGU2008-A-02668; ST13-1WE3P-0809

Balasis, G.; Daglis, I. A.; Eftaxias, K.

Dynamical complexity detection in Dst time series using different complexity measures

XY0810; EGU2008-A-05360; ST13-1WE3P-0810

Dandouras, I.

Detection of plasmaspheric wind by analysis of ion measurements obtained onboard the Cluster spacecraft

XY0811; EGU2008-A-11495; ST13-1WE3P-0811

Jahn, J.-M.; Elliott, H. A.; Samara, M.

Strong driving of Earth's magnetosphere: open questions about sawtooth events

XY0812; EGU2008-A-04402; ST13-1WE3P-0812

Shprits, Y.; Subbotin, D.; Thorne, R.

3D Simulations of the Evolution of the Radiation Belts (solicited)

XY0813; EGU2008-A-07142; ST13-1WE3P-0813

Daae, MD; Åstgaard, N.; Lewis, BL

Undulations on the equatorial edge of the auroral oval in the dusk sector

XY0814; EGU2008-A-07614; ST13-1WE3P-0814

Lichtenberger, J.; Ferencz, Cs.; Bodnar, L.; Steinbach, P.; Hamar, D.; Hughes, A.; Collier, A.; Rodger, C.; Clilverd, M.

Automatic retrieval of plasmaspheric electron density profiles from whistler data.

XY0815; EGU2008-A-06739; ST13-1WE3P-0815

André, N.; Ferrière, K. M.

Testing the Stability Criteria of Low-Frequency Waves in the Saturnian Magnetosphere

XY0816; EGU2008-A-05100; ST13-1WE3P-0816

Yamauchi, M.; **Lundin, R.;** Dandouras, I.; Stenberg, G.; Daly, P.W.; Frey, H.; Enihara, Y.; Cluster CIS/RAPID/EFW/FGM

Sudden formation of bi-directional ion beam and associated large-scale configuration change in the equatorial ring current at 19 MLT and L=4.

XY0817; EGU2008-A-03157; ST13-1WE3P-0817
De Keyser, J.; Darrouzet, F.; Décréau, P. M.; Dunlop, M. W.
Determining the spatial scales of the cold inner magnetospheric plasma distribution by means of multi-point gradient calculation with constraints

ST17 Applications of dusty plasma physics to space physics and aeronomy including upper atmospheric flashes and their laboratory simulation – Posters

Convener: Kikuchi, H.
Display Time: Wednesday, 08:00–19:30
Authors in Attendance: Wednesday, 17:30–19:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0818; EGU2008-A-08829; ST17-1WE5P-0818
Pavlu, J.; Richterova, I.; Fujita, D.; Safrankova, J.; Nemecek, Z.
Influence of particle impacts on dust grain properties: electron bombardment

XY0819; EGU2008-A-09721; ST17-1WE5P-0819
Richterova, I.; Beranek, M.; Pavlu, J.; Nemecek, Z.; Safrankova, J.
Laboratory simulation of dust grain discharging from high potentials

Thursday

IS61 - ST9/SM25 Synergies in terrestrial and solar seismology (co-organized by ST & SM)

Convener: Gizon, L.
Co-Convener(s): Shapiro, N.
Lecture Room 8
Chairperson: GIZON, L.

8:30–9:00; EGU2008-A-11214; IS61 - ST9/SM25-1TH1O-001
Komatitsch, D.; Chevrot, S.; Labarta, J.; Michéa, D.
Numerical forward modeling of seismic wave propagation in complex media (solicited)

9:00–9:15; EGU2008-A-08033; IS61 - ST9/SM25-1TH1O-002
Birch, A
Introduction to Local Helioseismology (solicited)

9:15–9:30; EGU2008-A-04655; IS61 - ST9/SM25-1TH1O-003
Larose, E. ; Campillo, M.; Roux, P.; Derode, A.; Weaver, R.; Lobkis, O.
Correlation of noise: laboratory experiments (solicited)

9:30–9:45; EGU2008-A-10874; IS61 - ST9/SM25-1TH1O-004
Kuperman, W. A.; Brooks, L. A.; Cornuelle, B.; Fried, S.; Gerstoft, P.; Hodgkiss, W. S.; Kaustubha, R.; Roux, P.; Sabra, K.G.; Sarkar, B.
Utilizing acoustic noise and sensitivity kernel analysis for seismo-acoustic inversion (solicited)

9:45–10:00; EGU2008-A-05401; IS61 - ST9/SM25-1TH1O-005
Landès, M.; Shapiro, N.M.
Studying the origin of deep ocean microseisms using teleseismic body waves

10:00 COFFEE BREAK

Splinter Meeting Room 5 (Red Level)
Chairperson: GIZON, L.

10:30–11:00; EGU2008-A-06350; IS61 - ST9/SM25-1TH2O-001
Jackiewicz, J.
Inversion of helioseismic traveltimes (solicited)

11:00–11:15; EGU2008-A-06215; IS61 - ST9/SM25-1TH2O-002
Cameron, R
Helioseismology of sunspots

11:15–11:30; EGU2008-A-05048; IS61 - ST9/SM25-1TH2O-003
Shapiro, N.M.; Landès, M.
Crustal and uppermost mantle structure beneath Iceland from ambient seismic noise correlations

11:30–11:45; EGU2008-A-05167; IS61 - ST9/SM25-1TH2O-004
Delatre, M.
Influence of the radiative boundary condition on the Earth atmospheric modes modelisation

11:45–12:00; EGU2008-A-07736; IS61 - ST9/SM25-1TH2O-005
Karoff, C.; Kjeldsen, H.
Global Oscillations Excited by Solar Flares

12:00 END OF SESSION

IS61 - ST9/SM25 Synergies in terrestrial and solar seismology (co-organized by ST & SM) – Posters

Convener: Gizon, L.
Co-Convener(s): Shapiro, N.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0698; EGU2008-A-04658; IS61 - ST9/SM25-1TH2P-0698
Larose, E. ; Campillo, M.; Roux, P.; Derode, A.
Role of multiple scattering in the fluctuations of correlation: application to passive imaging

XY0699; EGU2008-A-10295; IS61 - ST9/SM25-1TH2P-0699
Gizon, L.
The helioseismic wavefield of Active Region 9787

XY0700; EGU2008-A-02470; IS61 - ST9/SM25-1TH2P-0700
Lapenta, G.; SOTERIA
A new european effort: SOTERIA (Solar-TERrestrial Investigations and Archives)

IS65 - ST11/PS6.3/AS4.05 First science results from the International Heliophysical Year (co-organized by ST, PS & AS) (including Hannes Alfvén Medal Lecture)

Convener: Breen, A.
Co-Convener(s): Alfonsi, L.
Lecture Room 11
Chairperson: AMATA, A.

13:30–13:45; EGU2008-A-06290; IS65 - ST11/PS6.3/AS4.05-1TH3O-001
Harrison, R
Coordinated Investigation Programme 1: What is IHY doing for us? (solicited)

13:45–14:00; EGU2008-A-11774; IS65 -
ST11/PS6.3/AS4.05-1TH3O-002
Mursula, K.
Steps of the Bashful Ballerina: Global structure of the
Solar/Inner Heliospheric Magnetic Field (IHY CIP67)

14:00–14:15; EGU2008-A-11587; IS65 -
ST11/PS6.3/AS4.05-1TH3O-003
Manoharan, P.K.
Three-dimensional Evolution of Interplanetary Disturbances
in the Inner Heliosphere (solicited)

14:15–14:30; EGU2008-A-09195; IS65 -
ST11/PS6.3/AS4.05-1TH3O-004
Scherer, K.; Fichtner, H.; Ferreira, S.E.S.; Potgieter, M.;
Büsching, I.
Cosmic Ray propagation inside and outside the heliosphere

14:30–14:45; EGU2008-A-05157; IS65 -
ST11/PS6.3/AS4.05-1TH3O-005
Storini, M.
Solar minimum watching with Italian SINERGIES and
more[*] (solicited)

14:45–15:00; EGU2008-A-11224; IS65 -
ST11/PS6.3/AS4.05-1TH3O-006
Milillo, A.; **Marcucci, M.F.**; Delcourt, D.
Plasma sheet evolution following dual lobe reconnection

15:00–15:15; EGU2008-A-05791; IS65 -
ST11/PS6.3/AS4.05-1TH3O-007
Amata, E.; Kartalev, M.; Coco, I.; Keremidarska, V.
Penetration of high Latitude ionospheric electric Field to the
equatorial Region: a Case Study based on SuperDARN Data
and the IMech Model

15:15 COFFEE BREAK

Lecture Room 15
Chairperson: LUNDIN, R.

17:30–18:15; EGU2008-A-02540; IS65 -
ST11/PS6.3/AS4.05-1TH5O-001
Lundin, R.
Energy and Momentum Transfer in Magnetized Space
Plasmas: The Legacy of Hannes Alfvén (Hannes Alfvén
Medal Lecture) (solicited)

18:15–18:30; EGU2008-A-00770; IS65 -
ST11/PS6.3/AS4.05-1TH5O-002
Whittick, E. L.; Pryse, S. E.; Middleton, H. R.; Aylward, A.
D.
Radiotomography observations of large scale high-latitude
ionospheric structure by the IITC: influence of IMF, season
and longitude

18:30–18:45; EGU2008-A-01178; IS65 -
ST11/PS6.3/AS4.05-1TH5O-003
Altadill, D.
Precise measurements of the virtual height in the E-region.
A campaign for the COST296/IHY activities (solicited)

18:45–19:00; EGU2008-A-01192; IS65 -
ST11/PS6.3/AS4.05-1TH5O-004
Yin, P.; Mitchell, C.; Alfonsi, L.; Franceschi, G.; Romano, V
GPS TEC signatures of polar rain patches over Antarctica

19:00–19:15; EGU2008-A-12261; IS65 -
ST11/PS6.3/AS4.05-1TH5O-005
Landini, F.; Poletto, G.; Suess, S.T.
Soho-Sun-Ulysses quadrature studies (solicited)

19:15 END OF SESSION

**IS65 - ST11/PS6.3/AS4.05 First science results from the
International Heliophysical Year (co-organized by ST,
PS & AS) (including Hannes Alfvén Medal Lecture) –
Posters**

Convener: Breen, A.
Co-Convener(s): Alfonsi, L.
Display Time: Thursday, 08:00–19:30
Authors in Attendance: Thursday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: MURSULA, K.

XY0701; EGU2008-A-00564; IS65 - ST11/PS6.3/AS4.05-
1TH4P-0701
Timashkov, D. A.; Barbashina, N. S.; Borog, V. V.; Kok-
oulin, R. P.; Mannocchi, G.; Petrukhin, A. A.; Saavedra, O.;
Shutenko, V. V.; Trincherro, G.; Yashin, I. I.
Muon diagnostics of heliosphere and the near-Earth space:
first results and perspectives

XY0702; EGU2008-A-04184; IS65 - ST11/PS6.3/AS4.05-
1TH4P-0702
Forté, B.; Materassi, M.; Alfonsi, L.; Romano, V.; Spalla, P.;
De Franceschi, G.
Analysis of GPS measurements of ionospheric scintillation
during the International Heliophysical Year

XY0703; EGU2008-A-05796; IS65 - ST11/PS6.3/AS4.05-
1TH4P-0703
Kartalev, M.; **Amata, E.**; Dobрева, P.; Coco, I.; Mar-
cucci, M. F.
Comparison of Cluster and Double Star Flow Measurements
near the Cusps and near the equatorial Magnetosheath with
the IMech Model

XY0704; EGU2008-A-05861; IS65 - ST11/PS6.3/AS4.05-
1TH4P-0704
Zherebtsov, G.A.; Kurkin, V.I.; Pirog, O.M.
Preliminary results of ground-based observations in north-
eastern region of Asia

XY0705; EGU2008-A-06547; IS65 - ST11/PS6.3/AS4.05-
1TH4P-0705
Heilig, B.; Reda, J.; Csontos, A.
Monitoring the plasmasphere by the MM100 ground mag-
netometer array

XY0706; EGU2008-A-06596; IS65 - ST11/PS6.3/AS4.05-
1TH4P-0706
Bruno, R.; Carbone, V.; Voros, Z.; **D'Amicis, R.**; Bava-
sano, B.; Cattaneo, M.B.; Milillo, A.; Sorriso-Valvo, L.
Preliminary results on solar wind turbulence radial evolution
during ACE and Ulysses alignment of August 2007 (CIP 35)

XY0707; EGU2008-A-08777; IS65 - ST11/PS6.3/AS4.05-
1TH4P-0707
Ambrosino, D.; Amata, E.; Marcucci, F.M.; Coco, I.
IHY CIP 19. Evolution of the magnetopause X line during
variable IMF orientation.

XY0708; EGU2008-A-09795; IS65 - ST11/PS6.3/AS4.05-
1TH4P-0708
Robbrecht, E.; **Krijger, M.**; Berghmans, D.; Nicula, B.
Automatic detection of CMEs in STEREO/COR2 data

XY0709; EGU2008-A-10325; IS65 - ST11/PS6.3/AS4.05-
1TH4P-0709
Bothmer, V.; Jakowski, N.; Mayer, C.; Keil, W.; Kraupe, T.;
Wehrenpfennig, A.; Scherrer, D.; THE SIMONE TEAM
The German IHY 'Sun and Ionosphere MONitoring NET-
work' (SIMONE)

XY0710; EGU2008-A-10478; IS65 - ST11/PS6.3/AS4.05-
1TH4P-0710
Maris, G.; Dobrica, V.; Demetrescu, C.; Maris, O.
Geomagnetic Effectiveness of the High Speed Streams
(HSSs) in the Solar Wind

XY0711; EGU2008-A-10651; IS65 - ST11/PS6.3/AS4.05-1TH4P-0711
Maris, O.; Maris, G.
Dynamics of the High Speed Streams in the Solar Wind during Solar Cycle 23

ST12 Processes at the magnetopause, cusp and boundary layers: Cluster and DoubleStar together with first results from THEMIS

Convener: Escoubet, C.
Co-Convener(s): Taylor, M., Sibeck, D., Savin, S.
Lecture Room 15
Chairperson: N.N.

13:30–13:45; EGU2008-A-08252; ST12-1TH3O-001

GLASSMEIER, K.-H.

The magnetopause and boundary layers viewed by THEMIS (solicited)

13:45–14:00; EGU2008-A-05434; ST12-1TH3O-002

Blagau, A.; Klecker, B.; Paschmann, G.; Marghitu, O.; Scholer, M.; Dandouras, I.

The magnetopause as a rotational discontinuity: open issues on MHD reconnection tests

14:00–14:15; EGU2008-A-01377; ST12-1TH3O-003

Vaivads, A.; Khotyaintsev, Y.; Lindstedt, T.; Retinò, A.; Rosenqvist, L.; Hasegawa, H.; André, M.; Fujimoto, M.

Non-MHD scale physics at the magnetopause. Cluster observations. (solicited)

14:15–14:30; EGU2008-A-03104; ST12-1TH3O-004

De Keyser, J.; Gamby, E.; Roth, M.

Flexible tools for studying the magnetospheric boundary with Cluster and Themis

14:30–14:45; EGU2008-A-05626; ST12-1TH3O-005

Dunlop, M.; Bogdanova, Y.; Taylor, M.; Pu, Z.; Glassmeier, K.; Shen, C.; Xiao, C.; Escoubet, P.; Zhang, Q.; Pitout, F.

Comparative studies on dayside magnetospheric boundaries

14:45–15:00; EGU2008-A-01305; ST12-1TH3O-006

Lui, ATY; Sibeck, DG; Phan, T.; Angelopoulos, V.; McFadden, J.; Carlson, C.; Larson, D.; Bonnell, J.; Glassmeier, KH; Frey, S

Reconstruction of FTE observations from THEMIS (solicited)

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-00096; ST12-1TH4O-001

Panov, E.V.; Büchner, J.; Fränz, M.; Korth, A.; Savin, S.P.; Dandouras, I.; Fornacon, K.-H.

Magnetopause transport by ion-cyclotron resonant wave-particle interaction

15:45–16:00; EGU2008-A-05307; ST12-1TH4O-002

Constantinescu, O.D.; Plaschke, F.; Glassmeier, K.-H.; Auster, U.; Angelopoulos, V.; Baumjohann, W.; Fornacon, K.-H.; Magnes, W.; Nakamura, R.; Narita, Y.

Localized low frequency waves in the equatorial magnetosphere

16:00–16:15; EGU2008-A-05805; ST12-1TH4O-003

Amata, E.; Savin, S.

Observation of high Kinetic Energy Density Jets in the Earth's Magnetosheath (solicited)

16:15–16:30; EGU2008-A-04828; ST12-1TH4O-004

Parks, G.; Lee, E.; Teste, A.; Lin, N.; Wilber, M.; Fu, S.
Energy transport across the dayside cusp during magnetic storms

16:30–16:45; EGU2008-A-02865; ST12-1TH4O-005

Trattner, K.J.; Petrinec, S.M.; Fuselier, S.A.

Cusp energetic ions as tracers for particle transport into the magnetosphere

16:45–17:00; EGU2008-A-04232; ST12-1TH4O-006

Berchem, J.; Richard, R.; Escoubet, C.P.; Bosqued, J.M.; Taylor, MGGT.; Trattner, K.J.; Pitout, F.; Laakso, H.; Masson, A.; Dunlop, M.; CUSP SIM TEAM

Response of the cusp to an abrupt change in the IMF direction: comparison between Cluster observations and global simulations

17:00 END OF SESSION

ST12 Processes at the magnetopause, cusp and boundary layers: Cluster and DoubleStar together with first results from THEMIS – Posters

Convener: Escoubet, C.

Co-Convener(s): Taylor, M., Sibeck, D., Savin, S.

Display Time: Thursday, 08:00–19:30

Authors in Attendance: Thursday, 17:30–19:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0712; EGU2008-A-03553; ST12-1TH5P-0712

Pitout, F.; **Escoubet, C.P.;** Bosqued, J.-M.; Taylor, M.
Overlapping cusp ion structures under Northward IMF

XY0713; EGU2008-A-07325; ST12-1TH5P-0713

Escoubet, C.P.; Berchem, J.; Bosqued, J.M.; Taylor, M.G.G.; Trattner, K.J.; Pitout, F.; Laakso, H.; Masson, A.; Dunlop, M.; Dandouras, I.; THE CLUSTER CUSP TEAM
Discontinuities in the ion dispersions observed by Cluster using multi-point measurements in the polar cusp

XY0714; EGU2008-A-04071; ST12-1TH5P-0714

Taylor, M. G.; Nykyri, K.; Dunlop, M.W.; Lavraud, B.; Asnes, A.; Laakso, H.; Escoubet, C.P.; Nishino, M.N.; Milan, S.E.; Rae, I.J.; ISSI Cluster-Double Star tail team
Multi-point observations of magnetopause boundary layers from the pre-noon to early morning flank

XY0715; EGU2008-A-04251; ST12-1TH5P-0715

Grisson, B.; Escoubet, C. P.; Santolík, O.; Grimald, S.; Bosqued, J. M.; Cornilleau-Wehrin, N.; Lucek, E.; Fazakerley, A.

ULF waves properties in the cusp and in the magnetosheath during a Cluster inbound magnetopause crossing

XY0716; EGU2008-A-08506; ST12-1TH5P-0716

Cai, H.T.; McCrea, I.W.; Dunlop, M.W.; Bogdanova, Y.; Ma, S.Y.; Fazakerley, A.; Rème, H.

Observations of the cusp during successively stable northward/southward turning IMF

XY0717; EGU2008-A-10631; ST12-1TH5P-0717

Bogdanova, Y.V.; Hu, R.; Owen, C.J.; Foullon, C.; Fazakerley, A.N.; Rème, H.

Cluster observations of the mid-altitude cusp under strong northward Interplanetary Magnetic Field

XY0718; EGU2008-A-04937; ST12-1TH5P-0718

Lapenta, G

Self-Feeding Turbulent Magnetic Reconnection on Macroscopic Scales

XY0719; EGU2008-A-04705; ST12-1TH5P-0719
PLASCHKE, F.; Constantinescu, O. D.; Auster, H.-U.; Fornacon, K.-H.; Glassmeier, K.-H.; Georgescu, E.; Angelopoulos, V.; Baumjohann, W.; Magnes, W.; Nakamura, R. Statistical study of the magnetopause boundary layer motion observed with the Themis spacecraft

XY0720; EGU2008-A-06097; ST12-1TH5P-0720
Zimbardo, G.; Greco, A.; Perri, S.; Sorriso-Valvo, L.; Voros, Z.; Aburjania, G.; Chargazia, Kh.; Taktakishvili, A. L.; Savin, S.; Zelenyi, L. Magnetic turbulence in the geospace environment: observations and implications

XY0721; EGU2008-A-07701; ST12-1TH5P-0721
Volosevich, A.V.; Zhestkov, S.V. Theoretical study of formation of nonlinear localized electrostatic structures in space plasmas

XY0722; EGU2008-A-09186; ST12-1TH5P-0722
Simunek, J.; Safrankova, J.; Nemecek, Z. Sources of mixed cusp precipitation patterns at high altitudes

XY0723; EGU2008-A-09206; ST12-1TH5P-0723
Tkachenko, O.; Safrankova, J.; Nemecek, Z. Determination of the LLBL thickness from THEMIS

XY0724; EGU2008-A-09273; ST12-1TH5P-0724
Trenchi, L.; Marcucci, M. F.; Pallochia, G.; Rème, H.; Carr, C. M.; Cao, J. M. Coordinated observations of the global configuration of reconnection at the magnetopause

XY0725; EGU2008-A-09893; ST12-1TH5P-0725
Balan, N.; **Alleyne, H.;** Walker, S.; Lucek, E.; Rème, H.; Fazakerley, A. N. Response of magnetosphere to the impact of CME clouds

XY0726; EGU2008-A-09898; ST12-1TH5P-0726
Nikolaeva, N.; Parkhomov, V.; Yermolaev, Yu. The variation of the magnetopause position during substorms

XY0727; EGU2008-A-07526; ST12-1TH5P-0727
Shi, J.K.; Guo, J.G.; Zhang, T.L.; Liu, Z.X. Interhemispheric Comparison of the Dipole Tilt Angle Effects on Latitude of Mid-altitude Cusp

XY0728; EGU2008-A-11691; ST12-1TH5P-0728
Blecki, J.; Parrot, M.; Cornilleau-Wehrlin, N.; Savin, S.; Wronowski, R. The low frequency waves observed by Cluster in the polar cusp-relation to observations of the high energetic particles

XY0729; EGU2008-A-04714; ST12-1TH5P-0729
Savin, S.; Amata, E.; Budaev, V.; Zelenyi, L.; Safrankova, J.; Nemecek, Z.; Buechner, J.; Blecki, J.; Rauch, J.L.; Skalsky, A. Extremely disturbed magnetosheath zones: evidence for superdiffusion

XY0730; EGU2008-A-11963; ST12-1TH5P-0730
Echim, M. Impulsively penetrating plasma elements: validation tests derived from 2D kinetic modelling

ST14 Studies of ionospheric parameters influencing radio systems

Convener: Bourdillon, A.
 Co-Convener(s): Laštovička, J., Zolesi, B.
 Lecture Room 8
 Chairperson: BOURDILLON, A.

10:30–10:45; EGU2008-A-03351; ST14-1TH2O-001
Acosta, F.; Vilella, C.; Miralles, D.; Pijoan, J. L.; **Altadill, D.** On the correlation between measurements of very long distance oblique soundings and vertical soundings

10:45–11:00; EGU2008-A-03704; ST14-1TH2O-002
Forte, B. Refractive scattering evidence from multi-frequency scintillation spectra observed at auroral latitudes

11:00–11:15; EGU2008-A-03937; ST14-1TH2O-003
Sindelarova, T.; **Lastovicka, J.;** Buresova, D.; Chum, J. Investigations of Ionospheric Infrasound in the Czech Republic

11:15–11:30; EGU2008-A-05868; ST14-1TH2O-004
Kutiev, I.; Muhtarov, P.; Belehaki, A.; Reinisch, B.; Jakowski, N.; Mayer, C. Assessment of the Topside Sounder Model Profiler performance

11:30–11:45; EGU2008-A-06790; ST14-1TH2O-005
Luntama, J-P Regional ionospheric tomography in GNSS error correction

11:45–12:00; EGU2008-A-06918; ST14-1TH2O-006
Petrova, I.; Bochkarev, V. Study of Doppler frequency shift and spectral broadening of ionospheric HF-signals

12:00 END OF SESSION

Friday

ST6 Waves, wave-particle and wave-wave interactions

Convener: Tsurutani, B.
 Co-Convener(s): Pickett, J., Pottelette, R.
 Lecture Room 11
 Chairperson: TSURUTANI, B.

8:30–9:00; EGU2008-A-04936; ST6-1FR1O-001
Chaston, C C.; Bonnell, J. W.; McFadden, J. P.; Carlson, C. W.; Le Contel, O.; Roux, A.; Ergun, R.; Cully, C.; Glassmeier, K. H.; Angelopoulos, V. Electromagnetic waves and particle acceleration at the magnetopause from THEMIS (solicited)

9:00–9:15; EGU2008-A-00101; ST6-1FR1O-002
Nocera, L. Electron and ion kinetics in electrostatic tripolar regions

9:15–9:30; EGU2008-A-09881; ST6-1FR1O-003
Soucek, J.; Santolik, O.; Dudok de Wit, T.; Krasnoselskikh, V.; Pickett, J. Multi-spacecraft measurement of spatial scales of foreshock Langmuir waves

9:30–9:45; EGU2008-A-01340; ST6-1FR1O-004
Kellogg, P.J.; Goetz, K.; Monson, S.J.; Bale, S.D.; Maksimovic, M
Density and Electric Field Measurements with STEREO-SWaves.

9:45–10:00; EGU2008-A-05916; ST6-1FR1O-005
Bale, S. D.; Kasper, J. C.
Magnetic fluctuation power and compressibility near proton anisotropy instability thresholds in the solar wind

10:00 COFFEE BREAK

Chairperson: PICKETT, J.

10:30–11:00; EGU2008-A-06737; ST6-1FR2O-001
GLASSMEIER, K.-H.; Plaschke, F.
Search for field-line resonances: first THEMIS results (solicited)

11:00–11:15; EGU2008-A-01559; ST6-1FR2O-002
Tsurutani, B.T.; Verkhoglyadova, O.P.; Lakhina, G.S.; Yagitani, S.; Omura, Y.
A loss mechanism for relativistic magnetospheric electrons: dayside outer zone (DOZ) chorus

11:15–11:30; EGU2008-A-07057; ST6-1FR2O-003
Grimald, S.; Décréau, P.M.E.; Canu, P.; Rochel, A.; Valières, X.
Evidence for NTC emitted from plasmaspheric sources at medium latitudes

11:30–11:45; EGU2008-A-11589; ST6-1FR2O-004
Ng, C.-S.; **Bhattacharjee, A.**
BGK Waves: Nonlinear Saturated Waves in Space Plasmas?

11:45–12:00; EGU2008-A-01883; ST6-1FR2O-005
Kallenrode, M.-B.; **Lampa, F.;** Jahns, K.
Perpendicular transport in the inner heliosphere: A quick and dirty approach

12:00 END OF SESSION

ST6 Waves, wave-particle and wave-wave interactions – Posters

Convener: Tsurutani, B.
Co-Convener(s): Pickett, J., Pottelette, R.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: TSURUTANI, B.

XY0689; EGU2008-A-08899; ST6-1FR4P-0689
Alexandrova, O.; Lacombe, C. E.; Mangeney, A.; Cornilleau-Wehrlin, N.; Lucek, E. A.
Spectral shape and anisotropy of solar wind magnetic fluctuations at electron scales

XY0690; EGU2008-A-10278; ST6-1FR4P-0690
Hobara, Y. ; Balikhin, M.; Walker, S.; Krasnoselskikh, V.; Hayakawa, M.; Dunlop, M.
Spatial scales in the quasi-perpendicular collisionless shocks observed by Cluster

XY0691; EGU2008-A-10229; ST6-1FR4P-0691
Walker, S.; Baldacchino, T.; Alleyne, H.; Balikhin, M.; Andre, M
The fine structure of ion-sound turbulence observed in the terrestrial bow shock transition layer.

XY0692; EGU2008-A-08356; ST6-1FR4P-0692
Krupar, V.; Santolik, O.; Maksimovic, M.; Cornilleau-Wehrlin, N.; Pickett, J.S.; Gurnett, D.A.
Lion roar emissions observed by Cluster spacecraft

XY0693; EGU2008-A-05240; ST6-1FR4P-0693
Romanov, S. A.; Savin, S. P.; Amata, E.; Dunlop, M.
Terrestrial cusp: magnetic turbulence and regular oscillations

XY0694; EGU2008-A-04266; ST6-1FR4P-0694
Grison, B.; Santolik, O.; Grimald, S.; Bosqued, J. M.; Cornilleau-Wehrlin, N.; Lucek, E.; Fazakerley, A.
Generation of monochromatic waves close to fci by upgoing ions in the distant polar cusp

XY0695; EGU2008-A-09107; ST6-1FR4P-0695
Demekhov, A. G.; Victorov, M. E.; Rycroft, M. J.; Nunn, D.
Cyclotron acceleration of radiation belt electrons by whistler-mode waves with varying frequency

XY0696; EGU2008-A-10519; ST6-1FR4P-0696
Macusova, E.; Santolik, O.; Yearby, K.H.; Cornilleau-Wehrlin, N.
Database of measurements of whistler-mode chorus and hiss by the Double Star TC-1 spacecraft

XY0697; EGU2008-A-07030; ST6-1FR4P-0697
Grimald, S.; Santolik, O.; Décréau, P.M.E.; Fazakerley, A.
Generation of electrostatic waves in the vicinity of NTC sources: an event study

XY0698; EGU2008-A-04334; ST6-1FR4P-0698
Sato, Y.; Ono, T.; Iizima, M.; Sato, N.; Fujii, R.; Miyaoka, H.; Kadokura, A.
Ground-based observation of MF auroral radio emissions in the auroral zone

XY0699; EGU2008-A-07238; ST6-1FR4P-0699
Golubev, S. V.; Demekhov, A. G.; Mansfeld, D. A.; Vodopyanov, A. V.
Spatial structure of pulsed energetic-electron precipitation upon the cyclotron instability in a magnetic mirror trap

XY0700; EGU2008-A-06616; ST6-1FR4P-0700
Sadovski, A.
Stability properties of the ion distribution function with velocity space holes

XY0701; EGU2008-A-07352; ST6-1FR4P-0701
Petkaki, P. ; Freeman, M. P.; Walsh, A. P.
Cluster observations of broadband electromagnetic waves in and around a reconnection region in the Earth's magnetotail current sheet

XY0702; EGU2008-A-07820; ST6-1FR4P-0702
Burinskaya, T.; Grigorenko, E.; Zimbardo, G.
Kelvin-Helmholtz instability in the plasma sheet boundary layer

XY0703; EGU2008-A-11674; ST6-1FR4P-0703
Zharkova, V.V.; Agapitov, O.
A role of two beam instabilities at particle acceleration in a 3D current sheet

XY0704; EGU2008-A-03743; ST6-1FR4P-0704
Broughton, M.C.; Glassmeier, K.-H.; Narita, Y.; Engebretson, M.J.; Keiling, A.; Fornaçon, K.-H.; Parks, G.K.; Rème, H.
Pc 1-2 waves and associated wave vectors observed by Cluster

XY0705; EGU2008-A-06385; ST6-1FR4P-0705
Shi, J.K.; Qureshi, M.N.S.; Torkar, K.; Dunlop, M.; Zhang, T.L.; Liu, Z.X.
A Model on Nonlinear Electrostatic Solitary Waves in Space Plasmas

XY0706; EGU2008-A-10995; ST6-1FR4P-0706
Fedorov, E.; Pilipenko, V.; Heilig, B.; Engebretson, M.J.; Yagova, N.
Possible generation mechanisms of the compressional ULF mode at low altitudes.

XY0707; EGU2008-A-06784; ST6-1FR4P-0707
Kleimenova, N.; Kozyreva, O.
ULF signature and auroral disturbances of the late recovery phase of the strong November 7-8, 2004 magnetic super-storm

XY0708; EGU2008-A-04522; ST6-1FR4P-0708
Potapov, A. S.; Amata, E.; Polyushkina, T. N.; Tsegmed, B.; Coco, I.
Comparison of space-borne and ground magnetometer data with SuperDARN data for global ULF pulsations: A case study

XY0709; EGU2008-A-02253; ST6-1FR4P-0709
Randriamboarison, O. C.
Impulsive excitation of high frequency electrostatic waves by a point charge in a cold magnetized and unbounded plasma

XY0710; EGU2008-A-01907; ST6-1FR4P-0710
Guglielmi, A.; Lundin, R.
Ponderomotive mechanism of the wave-particle interaction in space plasma

XY0786; EGU2008-A-06186; ST6-1FR4P-0786
Shizgal, B
Suprathermal particle distributions in space physics: Kappa distributions and entropy

ST7 Solar, heliospheric and atmospheric coupling with near-Earth space

Convener: Crosby, N.
Co-Convener(s): Fullekrug, M.
Lecture Room 8
Chairperson: N.N.

10:30–10:45; EGU2008-A-04374; ST7-1FR2O-001
Trichtchenko, L.
Geomagnetic storms of the solar cycle 23

10:45–11:00; EGU2008-A-00597; ST7-1FR2O-002
Usoskin, I.G.; Braun, I.; Gladysheva, O.; Hoerandel, J.; Jamsen, T.; Kovaltsov, G.A.; Starodubtsev, S.
Forbush decreases of cosmic rays: Does the recovery phase depend on energy?

11:00–11:15; EGU2008-A-06070; ST7-1FR2O-003
Didebulidze, G. G.; **Todua, M.;** Javakhishvili, G.Sh.
Annual distributions of magnetically disturbed cloudless days and nights in Abastumani (41.75N, 42.82E)

11:15–11:30; EGU2008-A-07884; ST7-1FR2O-004
Ballatore, P.
On the correlation between solar activity and terrestrial climate

11:30–11:45; EGU2008-A-02867; ST7-1FR2O-005
Shumilov, O.I.; Kasatkina, E.A.; Masloboev, V.A.; Chramov, A.V.
Seasonal patterns of suicides, cardiovascular deaths and seismic activity at high latitudes and their coupling with the seasonal variation of the geomagnetic activity

11:45–12:00; EGU2008-A-06330; ST7-1FR2O-006
Voiculescu, M.; Usoskin, I.; Mursula, K.
Is the correlation between solar proxies and clouds affected by ENSO and volcanic events?

12:00 END OF SESSION

ST7 Solar, heliospheric and atmospheric coupling with near-Earth space – Posters

Convener: Crosby, N.
Co-Convener(s): Fullekrug, M.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 15:30–17:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0711; EGU2008-A-10181; ST7-1FR4P-0711
Aguado, J.; Saiz, E.; Cid, C.; Cerrato, Y.
The relationship between the ring current population and the intensity of geomagnetic storms: preliminary results

XY0712; EGU2008-A-09022; ST7-1FR4P-0712
Saiz, E.; Cerrato, Y.; Cid, C.
A study of the parameters involved in solar wind-magnetosphere interaction in quiet time

XY0713; EGU2008-A-05288; ST7-1FR4P-0713
Steigies, C.; **Klein, K.-L.;** The NMDB team
NMDB: real-time database for high resolution neutron monitor measurements

ST8 Data assimilation in space sciences (co-listed in PS)

Convener: Codrescu, M.
Co-Convener(s): Chanteur, G.
Lecture Room 8
Chairperson: N.N.

8:30–8:45; EGU2008-A-11205; ST8-1FR1O-001
Wilson, B.; Komjathy, A.; Akopian, V.; Pi, X.
JPL/USC GAIM: Using COSMIC occultations to estimate ionospheric state and drivers in near real-time (solicited)

8:45–9:00; EGU2008-A-11471; ST8-1FR1O-002
Koller, J.; Chen, Y.; Reeves, G. D.; Friedel, R. H.
Data Assimilation Techniques Applied to Inner Magnetosphere Modeling: An Overview (solicited)

9:00–9:15; EGU2008-A-06033; ST8-1FR1O-003
Matsuo, T.; Anderson, J.; Marsh, D.; Smith, A.
Ensemble Kalman filtering for assimilation of mesosphere and lower thermosphere observations (solicited)

9:15–9:30; EGU2008-A-08578; ST8-1FR1O-004
Mitchell, C N; **Spencer, PSJ**
Imaging of Space-Weather Storms (solicited)

9:30–9:45; EGU2008-A-04916; ST8-1FR1O-005
Nakano, S.; Ueno, G.; Ebihara, Y.; Fok, M.-C.; Ohtani, S.; Brandt, P. C.; Mitchell, D. G.; Keika, K.; Higuchi, T.
Data assimilation of energetic neutral atom data for two-dimensional modeling of the magnetospheric ring current

9:45–10:00; EGU2008-A-10396; ST8-1FR1O-006
Shprits, Y.; Kondrashov, D.; Ghil, M.; Chen, Y.; Thorne, R
Radiation Belt Reanalysis

10:00 END OF SESSION

**ST8 Data assimilation in space sciences (co-listed in PS)
– Posters**

Convener: Codrescu, M.
Co-Convener(s): Chanteur, G.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 13:30–15:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0714; EGU2008-A-01342; ST8-1FR3P-0714

Mirmomeni, M.; Lucas, C.; Araabi, B. N.; Moshiri, B.
The use of neurofuzzy modeling approaches to approximate missing data in database of solar activity indices to analyze and model space weather phenomena

XY0715; EGU2008-A-07157; ST8-1FR3P-0715

Codrescu, M. V.

Data Assimilation and the Thermosphere Ionosphere System

**ST14 Studies of ionospheric parameters influencing
radio systems – Posters**

Convener: Bourdillon, A.

Co-Convener(s): Laštovička, J., Zolesi, B.

Display Time: Friday, 08:00–19:30

Authors in Attendance: Friday, 08:30–10:00

Poster Area Halls X/Y

Chairperson: N.N.

XY0716; EGU2008-A-08159; ST14-1FR1P-0716

Nava, B.; Coisson, P.; Radicella, S.M.
NeQuick 2 adaptation to GPS and ionosonde data

XY0717; EGU2008-A-09358; ST14-1FR1P-0717

Garcia-Rigo, A.; Hernández-Pajares, M.; Juan, J.M.; Sanz, J.
Real Time ionospheric TEC monitoring method applied to detect Solar Flares

XY0718; EGU2008-A-09994; ST14-1FR1P-0718

Kochetov, A.V.; Men'kova, Yu.E.; Grach, S.M.
Dynamics of the Self-consistent Powerful Radio-wave Absorption by an Artificial Ionosphere Turbulence

XY0719; EGU2008-A-10370; ST14-1FR1P-0719

Bourdillon, A.; Le Huy, M.; Hoang Thai, L.
Statistical analysis of GPS ionospheric scintillations measured in Vietnam in 2006

XY0720; EGU2008-A-10407; ST14-1FR1P-0720

Kochetov, A.V.; **Terina, G.I.**
The Spikes-Phenomenon Simulation in Artificially Disturbed Ionosphere

XY0721; EGU2008-A-00176; ST14-1FR1P-0721

Afraimovich, E.L.; Yasukevich, Yu.V.
Adaptive long-wave radio astronomy

XY0722; EGU2008-A-01117; ST14-1FR1P-0722

Maltseva, O.A.; Poltavsky, O.S.
Maximum usable frequency as an adaptation parameter of the ionospheric model

XY0723; EGU2008-A-02185; ST14-1FR1P-0723

Karpov, I.V.; Bessarab, F.S.; **Shagimuratov, I.I.;** Yakimova, G.A.
Ionospheric effects of Poincare waves

XY0724; EGU2008-A-02518; ST14-1FR1P-0724

Pezzopane, M.; Scotto, C.; Zuccheretti, E.; Juchnikowski, G.; Stanislawska, I.
Application of Autoscala to the ionograms recorded by the new ionospheric station of Warsaw: First Results.

XY0725; EGU2008-A-03521; ST14-1FR1P-0725

Krypiak-Gregorczyk, A.; Krankowski, A.; Rothkaehl, H.; Parrot, M.; Berthelier, J.-J.; Lebreton, J.-P.
A hybrid method for diagnostics of the mid-latitude ionospheric trough using GPS and DEMETER observations

XY0726; EGU2008-A-03578; ST14-1FR1P-0726

Krashennnikov, I.; Pezzopane, M.; **Scotto, C.**
Application of Autoscala to the ionograms recorded by the AIS-Parus: First Results

XY0727; EGU2008-A-03802; ST14-1FR1P-0727

Lastovicka, J.; Sauli, P.; Boska, J.; Buresova, D.; Kouba, D.; Mosna, Z.
GEO-6 Project for Galileo Data Utilization and Czech Participation in

XY0728; EGU2008-A-04550; ST14-1FR1P-0728

Kurkin, V.I.; Polekh, N.M.; Pirog, O.M.; Moshkova, V.A.; Poddelsky, I.N.
The ionospheric disturbances during low Solar activity years and influence of them on HF radio waves propagation

XY0729; EGU2008-A-04569; ST14-1FR1P-0729

Barkhatova, O.; Uryadov, V.; Vertogradov, G.; Vertogradov, V.
Short-term forecasting of the maximum observed frequency on middle-latitude paths of oblique ionospheric sounding

XY0730; EGU2008-A-04999; ST14-1FR1P-0730

Portillo, A.; Radicella, S. M.; Herraiz, M.; Rodriguez-Caderot, G.
Ionospheric plasma bubbles over Africa during 2004

XY0731; EGU2008-A-05211; ST14-1FR1P-0731

Krankowski, A.; Shagimuratov, I.I.; Sieradzki, R.; Yakimova, G.A.; Krypiak-Gregorczyk, A.
Observations of storm effect in TEC over Europe during geomagnetic event of July 23-27, 2004

XY0732; EGU2008-A-09494; ST14-1FR1P-0732

van Eyken, A.; Baddeley, L.
Detailed Ionospheric Profiles from long Incoherent Scatter Radar Observations

XY0733; EGU2008-A-11675; ST14-1FR1P-0733

Shagimuratov, I.I.; Ephishov, I.I.; Krankowski, A.; Radievsky, A.V.
Storm-time occurrence of TEC fluctuations in northern and southern high-latitude ionosphere using IGS network of GPS stations
