

EGU General Assembly 2011
Programme Group Programme
ST – Solar-Terrestrial Sciences

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Monday, 04 April

GI-5 – Space Instrumentation, Planetary landers and Rovers (co-listed) – Orals

Convener: Mark Leese | Co-Conveners: Peter Falkner, Lutz Richter, Günter Kargl

Room: 42

Chairperson: Mark Leese

- 13:30–13:45 EGU2011-6054
Ari-Matti Harri, Walter Schmidt, Luis Vázquez, Harri Haukka, and Vladimir Linkin
 Autonomous Operation of the MetNet Precursor Mission
- 13:45–14:00 EGU2011-9607
Andrew Steele, Hans Amundsen, Liane Benning, Marilyn Fogel, Nicole Schmitz, and Amase 2010 team
 The Arctic Mars Analogue Svalbard Expedition 2010.
- 14:00–14:15 EGU2011-11723
 Marek Tulej, Andreas Riedo, Maria Iakovleva, Vera A.S.M. Fernandes, and **Peter Wurz**
 A miniature laser ablation time-of-flight mass spectrometer for sub-ppm analysis of planetary surfaces: performance studies
- 14:15–14:30 EGU2011-14094
 Juhani Huovelin, **Maria Genzer** and the SIXS Team
 An introduction to Solar Intensity X-ray and particle Spectrometer (SIXS) for BepiColombo
- 14:30–14:45 EGU2011-14100
Lauri Alha, Juhani Huovelin, and Hans Andersson
 X-ray solar monitor equipped with a concentrator optics
- 14:45–15:00 EGU2011-14101
Om Gupta
 Iridium NEXT SensorPODs: Global Access for Earth Observation

GI-5 – Space Instrumentation, Planetary landers and Rovers (co-listed) – Posters

Convener: Mark Leese | Co-Conveners: Peter Falkner, Lutz Richter, Günter Kargl

Hall A | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Gunter Kargl

- A91 EGU2011-1294
 Valery Korepanov and **Fedir Dudkin**
 Still one possibility to determine the wave vector onboard one spacecraft
- A92 EGU2011-1800
Glyn Collinson, Thomas Moore, David Durachka, David Olson, David Knudsen, Paul Rozmarynowski, Adrienne Beamer, and Jeffrey Klenzing
 The Next Generation of Space Plasma Analyzer - Deployable Radial Imaging for Velocity, Energy, and Density (DRIVEN)
- A93 EGU2011-2122
Serhiy Belyayev and Nickolay Ivchenko
 Digital Fluxgate Magnetometers, Trade-off Between Response, Sensitivity and Stability
- A94 EGU2011-6330
Miguel F. Cerdán and Marina D. Michelena
 In orbit calibration of COTS AMR magnetic sensor
- A95 EGU2011-6768
 Miguel F. Cerdán, Ana B. Fernández, Juan J. Jiménez, and **Marina D. Michelena**
 Witnessing variations in the Earth magnetic field by means of Nanosat-1B COTS AMR magnetic sensor
- A96 EGU2011-11562
Manfred Sampl, Thomas Oswald, Helmut O. Rucker, Georg Fischer, Dirk Plettemeier, William S. Kurth, and Wolfgang Macher
 First assessment of the JUNO/Waves antenna properties
- A97 EGU2011-10002
Hans Eichelberger, Gustav Prattes, Konrad Schwingenschuh, Ghulam Jaffer, Özer Aydogar, Irmgard Jernej, Bruno Besser, Manfred Stachel, Tetsuya Tokano, and Peter Falkner
 Acoustic outdoor measurements with a multi-microphone instrument for planetary atmospheres and surfaces
- A98 EGU2011-9830
Harri Haukka, Walter Schmidt, Ari-Matti Harri, Jyri Heilimo, Maria Genzer, Ignacio Arruego Rodríguez, Héctor Guerrero Padrón, and Joaquín Azcue Salto
 High Level Shock Tests for Mars MetNet Penetrator

- A99 EGU2011-11662
Jens Grosse, Caroline Lange, Kay Burrow, and Tim v. Zoest
 First Design Concept for a Combined Thermal and Mechanical Penetration Device for Investigations of Icy Planetary Bodies - The 'Cryo-Mole'
- A100 EGU2011-9141
William Denig, Daniel Wilkinson, Janet Green, Robert Redmon, Janet Machol, Juan Rodriguez, and Patricia Mulligan
 The Status of U.S. Operational Satellite Space Environmental Datasets

ST2.1 – Open session on the magnetosphere (including Julius Bartels Medal Lecture) – Orals

Convener: Steve Milan | Co-Conveners: Natalia Ganushkina

Room: 31

Chairperson: Steve Milan

- 08:30–08:45 EGU2011-4104
Andrey Samsonov, David Sibeck, Helfried Biernat, Nadezhda Zolotova, Alexandra Alexandrova, Jana Safrankova, Zdenek Nemecek, and Howard Singer
 Magnetospheric response to interplanetary shocks: summary of MHD simulations and observations
- 08:45–09:00 EGU2011-11055
Eija Tanskanen, Tuija Pulkkinen, Kalevi Mursula, and Ari Viljanen
 From space weather towards space climate time scales
- 09:00–09:15 EGU2011-12114
 Oleksiy Agapitov, **Krasnoselskikh Vladimir**, Dudok de Wit Thierry, and Rolland Guy
 The Location and Structure of the Chorus Emissions Source During the Perturbed Magnetosphere Conditions
- 09:15–09:30 EGU2011-4697
Stein Haaland, Finn Søråas, Patrick Daly, Christine Johnsen, Edita Georgescu, Elena Kronberg, Kjellmar Oksavik, and Nikolai Østgaard
 Determination of polar cap size and shape using energetic particles.
- 09:30–09:45 EGU2011-6158
Nikolai Ostgaard, Beate Krøvel Humberstet, Karl Magnus Laundal, Stein Haaland, Arne Aasnes, James Weygand, and Liisa Juusola
 Asymmetries of substorm onset location and the dynamic behavior of auroral substorms during expansion phase
- 09:45–10:00 EGU2011-568
Zhaojin Rong, Weixing Wan, Chao Shen, Xinlin Li, Malcolm Dunlop, Anatoli Petrukovich, and Elizabeth Lucek
 Statistical survey on the magnetic structure in magnetotail current sheets

COFFEE BREAK

Chairperson: Iannis Dandouras

- 10:30–11:30 EGU2011-4835
Hermann Lühr
 Signatures of meteorological phenomena in the ionosphere-thermosphere system (Julius Bartels Medal Lecture)
- 11:30–11:45 EGU2011-8797
Karlheinz Trattner, Steven Petrinec, and Stephen Fuselier
 Evaluating continuous and pulsed reconnection from cusp observations
- 11:45–12:00 EGU2011-11569
Mark Lester, Stephen Milan, Adrian Grocott, and Rob Fear
 Multi SuperDARN Radar Observations of an Interval of Poleward Moving Radar Auroral Forms

ST2.1 – Open session on the magnetosphere (including Julius Bartels Medal Lecture) – Posters

Convener: Steve Milan | Co-Conveners: Natalia Ganushkina

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Mark Lester

- Z138 EGU2011-1644
Mirko Piersanti, Umberto Villante, Colin Waters, and Igino Coco
The June 8, 2000 ULF wave activity: a case study
- Z139 EGU2011-2461
Ioannis Vogiatzis, Kentaro Tanaka, Quigang Zong, Emmanuel Sarris, **Olga Malandraki**, and Theodore Fritz
Earthward convected flux ropes/magnetic islands triggering field dipolarization/substorm expansion: Comparison between observations and simulations
- Z140 EGU2011-2947
Umberto Villante, **Chiara de paulis**, and Patrizia Francia
The transmission of upstream waves to the magnetosphere: an analysis at widely separated ground stations.
- Z141 EGU2011-3203
Nicola Longden, **Gareth Chisham**, and Mervyn P. Freeman
Magnetic Local Time Variation of the Dynamics of the Poleward Auroral Luminosity Boundary and its Scaling
- Z142 EGU2011-3518
Yngvild Andalsvik, Per Even Sandholt, and Charlie Farrugia
Polar cap convection events and electrojet intensifications in substorms/pseudobreakups
- Z143 EGU2011-4464
Judy Cumnock, Guan Le, James Slavin, Suzanne Imber, and Lars Blomberg
Space Technology 5 Multipoint Observations of a ULF Wave Event
- Z144 EGU2011-4560
Wen-Chieh Hsieh, Jih-Hong Shue, and Benson Lee
Oblique propagation of ULF waves in the Earth's foreshock region: THEMIS observations
- Z145 EGU2011-6395
Natalia Borodkova, Vladimir Parkhomov, and Georgy Zastenker
Comparison of Two Successive Magnetospheric Substorms Development
- Z146 EGU2011-10431
Patrizia Francia, **Mauro Regi**, Marcello De Lauretis, Umberto Villante, and Viatcheslav Pilipenko
ULF waves simultaneously observed at the bow shock, in the magnetosphere and on the ground
- Z147 EGU2011-11155
Jesús Aguado, Michel Menvielle, Consuelo Cid, Elena Saiz, and Yolanda Cerrato
The relationship between the behaviors of the different magnetospheric regions
- Z148 EGU2011-2868
Zhaojin Rong, Weixing Wan, Chao Shen, Xinlin Li, Malcolm Dunlop, Anatoli Petrukovich, Lin-ni Hau, Elizabeth Lucek, and Henri Rème
Distribution profile of magnetic field By component in magnetotail current sheets with guide field
- Z149 EGU2011-7251
Knut Svenes, **Stein Haaland**, Bjørn Lybekk, and Arne Pedersen
A survey of polar cap densities based on EFW probe measurements

ST2.4/PS5.2 – Terrestrial and planetary magnetotails and their response to variable upstream conditions (co-organized) – Orals

Convener: Eija Tanskanen | Co-Conveners: Suzie Imber, Rumi Nakamura, Caitriona Jackman, Christopher Arridge, Nicolas André

Room: 32

Chairperson: n.n.

- 13:30–13:45 EGU2011-4855
James A. Slavin, Caitriona M. Jackman, and Marissa F. Vogt
Comparative Examination of Plasmoid Ejection at Mercury, Earth, Jupiter, and Saturn
- 13:45–14:00 EGU2011-4885
Cesar Bertucci, Ronan Modolo, Fritz Neubauer, Karoly Szego, Niklas Edberg, and Andrew Coates
The induced magnetotail of Titan
- 14:00–14:15 EGU2011-5175
Xianzhe Jia, Kenneth Hansen, Tamas Gombosi, and Margaret Kivelson
Reconnection in Saturn's magnetotail and its effects on global dynamics
- 14:15–14:30 EGU2011-9390
Nick Sergis, Tom Krimigis, Elias Roussos, Adam Masters, Caitriona Jackman, Michelle Thomsen, Douglas Hamilton, Norbert Krupp, Donald Mitchell, Michele Dougherty, Andrew J. Coates, and Frank J. Crary
Hot O⁺ ion presence and directional flows in the magnetosheath of Saturn
- 14:30–14:45 EGU2011-4703
Pontus Brandt, Donald Mitchell, Barry Mauk, Laurent Lamy, Baptiste Cecconi, and Denis Grodent
Acceleration of Energetic Particles from Global Magnetotail Reconfiguration and Relation to Auroral and Radio Emissions at Earth, Saturn and Jupiter

- 14:45–15:00 EGU2011-1458
Steve Milan and Jennifer Gosling
 Superposed epoch analysis of the geosynchronous magnetic field dipolarization associated with substorms
 Chairperson: Rumi Nakamura, Suzie Imber
- 15:30–15:45 EGU2011-12383
Colin Forsyth, Mark Lester, Robert Fear, Elizabeth Lucek, Iannis Dandouras, Andrew Fazakerley, Harold Singer, and Tim Yeoman
 Solar wind and substorm excitation of the wavy current sheet
- 15:45–16:00 EGU2011-1755
Liisa Juusola, Nikolai Østgaard, and Eija Tanskanen
 Statistics of plasma sheet convection
- 16:00–16:15 EGU2011-4620
Aimin Du, Rumi Nakamura, Tielong Zhang, Evgeny Panov, Wolfgang Baumjohann, Hao Luo, Quanming Lu, Martin Volwerk, Vassilis Angelopoulos, and Kelvin Glassmeier
 Fast Tailward Flows in the Plasma Sheet Boundary Layer during a Substorm on March 9, 2008: THEMIS Observations
- 16:15–16:30 EGU2011-4491
Tuija Pulkkinen, Noora Partamies, Minna Palmroth, Jennifer Kissinger, Robert McPherron, Marina Kubyshkina, Karl-Heinz Glassmeier, and Charles Carlson
 Plasma sheet magnetic fields and flows during steady convection events
- 16:30–16:45 EGU2011-7828
Kristian Snekvik, Eija Tanskanen, and Nikolai Østgaard
 Flux closure during magnetotail reconnection
- 16:45–17:00 EGU2011-9353
 Martin Connors, **Christopher Russell**, Vassilis Angelopoulos, and Howard Singer
 Magnetic Flux Transfer During the April 5, 2010 Galaxy 15 Event: An Unprecedented Observation

PS5.3/ST6.3 – Planetary, Solar and Heliospheric Radio Emissions (co-organized) – Orals

Convener: Patrick Galopeau | Co-Conveners: Mohammed Y. Boudjada

Room: 32

Chairperson: Patrick H. M. Galopeau

- 08:30–08:45 EGU2011-4167
Robert Mutel, John Menietti, Donald Gurnett, Jolene Pickett, Laurent Lamy, and Baptiste Cecconi
 An Occam's razor approach to interpreting observed wave modes and polarization in planetary magnetospheres
- 08:45–09:00 EGU2011-5344
Konrad Sauer and Richard D. Sydora
 Fundamental aspects of beam-generated plasma radiation
- 09:00–09:15 EGU2011-1592
Tatiana Burinskaya, Mikhail Mogilevsky, Tatiana Romantsova, and Jean Louis Rauch
 Generation and escape of the Auroral Kilometric Radiation in thin plasma cavities
- 09:15–09:30 EGU2011-3755
Douglas Menietti, Sheng-Yi Ye, Patricia Schippers, Laurent Lamy, and Donald Gurnett
 Narrowband emission observed near a Saturn kilometric radiation source region
- 09:30–09:45 EGU2011-8657
Anne-Lise Gautier, Baptiste Cecconi, Philippe Zarka, and Georg Fischer
 Propagation "over the horizon" of Saturn's radio lightning studied by three-dimensional ray tracing
- 09:45–10:00 EGU2011-6465
David Andrews, Baptiste Cecconi, Stanley W. H. Cowley, Michele K. Dougherty, Laurent Lamy, Gabrielle Provan, and Philippe Zarka
 Magnetospheric period oscillations at Saturn: Evidence in magnetic field phase data for rotational modulation of Saturn kilometric radiation emissions
- 10:00–10:15 EGU2011-8857
Thomas Oswald, Helmut Rucker, Wolfgang Macher, Georg Fischer, Manfred Sampl, and Mykhaylo Panchenko
 Numerical calibration of spacecraft antennas in isotropic cold plasma with an application to STEREO/WAVES

PS5.3/ST6.3 – Planetary, Solar and Heliospheric Radio Emissions (co-organized) – Posters

Convener: Patrick Galopeau | Co-Conveners: Mohammed Y. Boudjada

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Mohammed Y. Boudjada

- Z31 EGU2011-8874
Thomas Oswald, Manfred Sampl, Helmut Rucker, Wolfgang Macher, Georg Fischer, and Milan Maksimovic
 Preliminary numerical studies of the Solar Orbiter RPW antennas
- Z32 EGU2011-9750
Baptiste Cecconi, Jan Bergman, Thomas Chust, and Aurélie Marchaudon
 A step forward in goniopolarimetry with multi-component electric and magnetic radio measurements
- Z33 EGU2011-12614
Tatiana Romantsova, Mikhail Mogilevsky, Tatiana Burinskaya, Irina Moiseenko, Dmitry Chugunin, and Jan Hanasz
 Formation of AKR source on the polar edge of auroral region
- Z34 EGU2011-7957
Mohammed Y. Boudjada, Patrick Galopeau, Milan Maksimovic, Helmut Rucker, and Wolfgang Voller
 Analysis of the spectral continuity of distinct Type III bursts from high to low frequencies
- Z35 EGU2011-8022
Mohammed Y. Boudjada, Patrick Galopeau, and Wolfgang Macher
 Jovian decametric and hectometric events subject to the Io plasma torus effect
- Z36 EGU2011-8059
Patrick Galopeau and Mohammed Y. Boudjada
 Beaming cone of Io-controlled Jovian decameter radio emission derived from occurrence probability
- Z37 EGU2011-7749
Helmut O. Rucker, Mykhaylo Panchenko, Denis Grodent, and Aikaterini Radioti
 Periodic bursts of non-Io DAM and its relationship to Jovian aurora phenomena
- Z38 EGU2011-12330
Alain Lecacheux
 On the SKR and Saturn auroras relationship

Tuesday, 05 April

ST2.2 – Space plasma processes and dynamics: revelations from multi-point measurements – Orals

Convener: Matthew Taylor | Co-Conveners: Malcolm Dunlop, C.-Philippe Escoubet

Room: 32

Chairperson: Matt Taylor

- 13:30–13:45 EGU2011-2802
Hiroshi Hasegawa, Bengt Sonnerup, and Takuma Nakamura
 Reconstruction of magnetopause structures in spacetime from multi-spacecraft measurements
- 13:45–14:00 EGU2011-8458
Karel Jelinek, Zdenek Nemecek, and Jana Safrankova
 Spatial profiles of magnetosheath and LLBL parameters
- 14:00–14:15 EGU2011-2609
Nicole Cornilleau-Wehrin, Benjamin Grison, Patrick Robert, Patrick Canu, Gérard Belmont, and Laurence Rezeau
 Statistical study of ULF wave fluctuations at the magnetopause: latitude and local time dependences, as an input for understanding the ULF role in particle penetration from the solar wind into the magnetosphere
- 14:15–14:30 EGU2011-12593
Alessandro Retinò, Andris Vaivads, Yuri Khotyaintsev, Fouad Saharoui, Rumi Nakamura, and Forrest S. Mozer
 Cluster observations of guide field magnetopause reconnection at sub-ion/electron scales.
- 14:30–14:45 EGU2011-1424
Drew Turner, Stefan Eriksson, Tai Phan, Vassilis Angelopoulos, Nick Omid, James McFadden, and Karl-Heinz Glassmeier
 Multi-spacecraft observations of a foreshock induced magnetopause disturbance exhibiting distinct plasma flows and an intense density compression
- 14:45–15:00 EGU2011-3928
Jean Berchem, Robert Richard, C. Philippe Escoubet, Matthew G. G. T. Taylor, Harri Lasko, Arnaud Masson, Ianis Dandouras, Henri Reme, Frederic Pitout, and Elizabeth Lucek
 Using simulations and multipoint observations to unravel reconnection topologies and particle injection sources
- Chairperson: Malcolm Dunlop
- 15:30–15:45 EGU2011-4866
Jonathan Eastwood, Tai Phan, Michael Shay, Marit Oieroset, Anette Borg, and Vassilis Angelopoulos
 Multi-spacecraft observations of magnetotail dynamics driven by magnetic reconnection.
- 15:45–16:00 EGU2011-2560
Anette Lauen Borg, Jonathan P. Eastwood, and Matthew G. G. T. Taylor
 Properties of magnetic flux ropes observed near magnetic reconnection sites in the magnetotail
- 16:00–16:15 EGU2011-4351
Rumi Nakamura and the Sep. 7 2007 event study Team
 Cluster multi-point observations of flow-braking and dipolarization during Sep.7, 2007 1250 UT event.
- 16:15–16:30 EGU2011-12482
Colin Forsyth, Andrew Fazakerley, Andrew Walsh, Clare Watt, Kristian Garza, Christopher Owen and the Cluster Auroral Team
 Observations of auroral acceleration at magnetically conjugate spacecraft: A Cluster case study
- 16:30–16:45 EGU2011-3842
Pontus Brandt, Shin Ohtani, Kunihiro Keika, Iannis Dandouras, Mikhail Sitnov, and Edmond Roelof
 The Dynamics and Energization of the Ring Current During Substorms: A Synoptic 3D View from Cluster and IMAGE/HENA
- 16:45–17:00 EGU2011-11650
Christian Mazelle, Bertrand Lembège, and Audrey Morgenthaler
 Quasi-perpendicular shocks non stationarity and micro-turbulence

ST2.2 – Space plasma processes and dynamics: revelations from multi-point measurements – Posters

Convener: Matthew Taylor | Co-Conveners: Malcolm Dunlop, C.-Philippe Escoubet

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Malcolm Dunlop/Matt Taylor

- Z84 EGU2011-2049
Daniel Schmid, Martin Volwerk, Rumi Nakamura, Wolfgang Baumjohann, and Martin Heyn
A statistical and event study of magnetotail dipolarizations
- Z85 EGU2011-2732
Galyna Granko, Jana Safrankova, Zdenek Nemecek, Karel Jelinek, and Jih-Hong Shue
Changes of the magnetopause locations as a consequence of the IMF BZ component variations.
- Z86 EGU2011-3716
Oleksandr Goncharov, Jana Safrankova, Zdenek Nemecek, Lubomir Prech, and Kostiantyn Grygorov
Relation between interplanetary shocks and IMF rotations and their interaction with the bow shock and magnetopause
- Z87 EGU2011-3720
Jaroslav Urbar, Karel Jelinek, Zdenek Nemecek, Jana Safrankova, and Lubomir Prech
Modification of solar wind parameters upstream of the Earth's bow shock
- Z88 EGU2011-5370
Jiansen He, Chuanyi Tu, Eckart Marsch, Qiugang Zong, Shuo Yao, and Hui Tian
Two components of power spectral density for magnetosheath turbulence as identified from Cluster four-spacecraft measurements
- Z89 EGU2011-2047
Martin Volwerk, Zoltan Voeroes, Rumi Nakamura, Wolfgang Baumjohann, Karl-Heinz Glassmeier, Ferdinand Plaschke, and TieLong Zhang
Development of compressional turbulence along the Earth's magnetotail.
- Z90 EGU2011-5393
Malcolm Dunlop and the ISSI Team
Extended magnetic reconnection across the dayside magnetopause
- Z91 EGU2011-5417
Qinghe Zhang, Malcolm Dunlop and the ISSI Team
Inner plasma structure of the low latitude reconnection layer
- Z92 EGU2011-7360
Robert Fear, Steve Milan, Kjellmar Oksavik, and Arne Pedersen
Determining the axial direction of high-shear flux transfer events
- Z93 EGU2011-5816
Matthew Taylor and the ISSI Cluster, DSP and THEMIS Team
Kelvin-Helmholtz behaviour at the magnetopause: a survey of Double star 1 data.
- Z94 EGU2011-3175
Minna Palmroth, Tiera Laitinen, Chandrasekhar Anekallu, Tuija I. Pulkkinen, Malcolm Dunlop, Elizabeth Lucek, and Iannis Dandouras
Spatial dependence of magnetopause energy transfer: Cluster measurements verifying global simulations
- Z95 EGU2011-5590
San Lu, Quanming Lu, Can Huang, Rongsheng Wang, and Shui Wang
The effects of the guide field on the structures of electron density depletions in collisionless magnetic reconnection
- Z96 EGU2011-5597
Jana Safrankova, Zdenek Nemecek, Oleksandr Goncharov, Jaroslav Urbar, Kostiantyn Grygorov, Karel Jelinek, Lubomir Prech, and David G. Sibeck
A huge deformation of magnetospheric boundaries
- Z97 EGU2011-5778
Jiri Simunek, Olga Gutynska, Jana Safrankova, and Zdenek Nemecek
Correlation length of the magnetosheath fluctuations and their relation to upstream parameters
- Z98 EGU2011-6220
Christian Nabert, Ferdinand Plaschke, Karl-Heinz Glassmeier, David G. Sibeck, Vassilis Angelopoulos, Hans Ulrich Auster, and James P. McFadden
A "gas dynamic" magnetopause transition observed by THEMIS
- Z99 EGU2011-6229
Johan De Keyser, Romain Maggiolo, Marius Echim, **Herbert Gunnell**, and Iannis Dandouras
A word of caution on the interpretation of auroral electric field observations
- Z100 EGU2011-8591
Roger Duthie, Andrew Fazakerley, Colin Forsyth, Andrew Walsh, Iannis Dandouras, Elizabeth Lucek, and Tielong Zhang
Do high-speed plasma sheet flows contribute to inner magnetosphere dipolarisation? : A multi year statistical study using multi-spacecraft observations
- Z101 EGU2011-6258
Tobias Schramm, Ferdinand Plaschke, Karl-Heinz Glassmeier, Ian R. Mann, I. Jonathan Rae, and Lars Guicking
Timing of substorm onset from ground-based Pi2 measurements: Comparison of methods

- Z102 EGU2011-7106
Wai Leong Teh and Rumi Nakamura
Ideal Hall MHD reconstruction of the magnetotail current sheet observed by Cluster
- Z103 EGU2011-8513
Jakub Enzi, Kostiantyn Grygorov, Oleksandr Goncharov, Lubomir Prech, Jana Safrankova, and Zdenek Nemecek
Tracing of solar wind discontinuities near the Earth orbit at the beginning of Solar Cycle 24
- Z104 EGU2011-9973
Herbert Gunell, Hans Nilsson, Gabriella Stenberg, Maria Hamrin, Tomas Karlsson, Rickard Lundin, and Mats André
Direct observation of magnetosheath plasma penetrating the magnetopause
- Z105 EGU2011-10811
Stepan Dubyagin, Victor Sergeev, Vassilis Angelopoulos, Andrey Runov, Rumi Nakamura, Wolfgang Baumjohann, Natalia Ganushkina, James Mcfadden, and Davin Larson
Do flow bursts penetrate into the inner magnetosphere?
- Z106 EGU2011-3206
Jan Soucek and C. Philippe Escoubet
Non-maxwellian features of magnetosheath ion distribution associated with mirror waves
- Z107 EGU2011-3872
Jesper Gjerloev, Shin Ohtani, Takeshi Iijima, James Slavin, and Guan Le
Spatiotemporal Characteristics of the Field-Aligned Currents
- Z108 EGU2011-8092
Gaetano Zimbardo, Antonella Greco, Luca Sorriso-Valvo, Silvia Perri, Zoltan Voeroes, Giorgi Aburjania, Khatuna Chargazia, and Olga Alexandrova
Magnetic turbulence in the magnetospheric environment: highlights from multi-spacecraft missions

ST2.3 – Electromagnetic fields, particle populations and internal structures in the Earth's inner magnetosphere (including Arne Richter Award for Outstanding Young Scientists Lecture) – Posters

Convenor: Sandrine Grimald | Co-Conveners: Ondrej santolik, Vincent Maget, Farida El-Lemdani Mazouz

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Farida El-Lemdani Mazouz

- Z109 EGU2011-12246
Oleksiy Agapitov, **Vladimir Krasnoselskikh**, and Guy Rolland
Statistical Properties of Whistler Wave Distributions in the Earth Inner Magnetosphere
- Z110 EGU2011-926
Ksenia Orlova, Yuri Shprits, Michael Schulz, and Binbin Ni
On the bounce-averaging of scattering rates in a realistic field model
- Z111 EGU2011-6304
Frantisek Nemec, Ondrej Santolik, and Michel Parrot
Line Radiation: types and sources
- Z112 EGU2011-13490
Maria E. Usanova, Konrad Sauer, Ian R. Mann, Richard D. Sydora, and Dietmar Krauss-Varban
EMIC wave packet generation: Results of nonlinear hybrid particle-in-cell (PIC) simulations
- Z113 EGU2011-2356
Hao Luo, Gengxiong Chen, and Aimin Du
Simultaneous observations of wave mode inside-outside the plasmasphere and their relationship with low-latitude Pi2 pulsations: THEMIS case study
- Z114 EGU2011-6307
Johan De Keyser and **Fabien Darrouzet**
Field-aligned plasma density profiles obtained from CLUSTER observations in the plasmasphere
- Z115 EGU2011-8333
Fabien Darrouzet, Hiroshi Matsui, and Johan De Keyser
Investigation of plasmaspheric plumes observed by Cluster
- Z116 EGU2011-12521
Guillaume Lointier, Fabien Darrouzet, Pierrette Décréau, Xavier Vallières, Jean-Gabriel Trotignon, and Jean-Louis Rauch
Statistical Analysis of the Electronic Density Distribution in the Plasmasphere using WHISPER/CLUSTER data
- Z117 EGU2011-4445
Sandrine Grimald, Farida El-Lemdani Mazouz, Claire Foullon, Pierrette Décréau, Scott Boardsen, and Xavier Vallières
Study of non-thermal continuum patches: wave propagation and plasmopause study

- Z118 EGU2011-4441
Sandrine Grimald, Iannis Dandouras, and Elizabeth Lucek
Current density and boundaries localisation in the ring current region
- Z119 EGU2011-6547
Harri Laakso, Philippe Escoubet, Arnaud Masson, and Matt Taylor
In-situ observations of electromagnetic fields and waves in the inner magnetosphere
- Z120 EGU2011-9707
Karel Kudela, Leonid Lazutin, Irina Myagkova, Mikhail Panasyuk, and Marian Slivka
On the variations of the relativistic electrons in outer radiation belt
- Z121 EGU2011-4526
Satoshi Kurita, Yoshizumi Miyoshi, Fuminori Tsuchiya, Yukitoshi Nishimura, Akira Morioka, Vassilis Angelopoulos, James P. McFadden, Uli Auster, John Bonnell, and Hiroaki Misawa
Possible loss mechanism of inner plasma sheet electrons in the morning side: Analysis based on THEMIS statistical survey
- Z122 EGU2011-9468
Yuri Shprits, Binbin Ni, Dmitri Subbotin, Kyung-Chan Kim, and Marianne Daae
3D VERB Code Simulations of the Dynamic Evolution of the Outer and Inner Radiation Belts
- Z123 EGU2011-11781
Vincent Maget, Solène Lejosne, and Daniel Boscher
Modelling radiation belts outer boundaries

ST2.4/PS5.2 – Terrestrial and planetary magnetotails and their response to variable upstream conditions (co-organized) – Posters

Convener: Eija Tanskanen | Co-Conveners: Suzie Imber, Rumi Nakamura, Caitriona Jackman, Christopher Arridge, Nicolas André

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- Z124 EGU2011-7851
Caitriona Jackman and the International Space Science Institute: "Investigating the Dynamics of Planetary Magnetotails" Team
An overview of the aims and plans of an ISSI Team "Investigating the Dynamics of Planetary Magnetotails"
- Z125 EGU2011-1145
Caitriona Jackman, James Slavin, and Michele Dougherty
Cassini observations of plasmoids and travelling compression regions in Saturn's magnetotail in 2006.
- Z126 EGU2011-4652
Rongsheng Wang, Quanming Lu, Aimin Du, Rumi Nakamura, Wolfgang Baumjohann, and Can Huang
In situ observation of a secondary magnetic island near the center of the ion diffusion region
- Z127 EGU2011-6082
Karoly Szego, Zoltan Nemeth, Geza Erdos, Lajos Foldy, Michelle Thomsen, Dot Delapp, and Zsafia Bebesi
The structure of the magnetodisk of Saturn near 20 R_S
- Z128 EGU2011-4671
Jian Du, Tielong Zhang, Chi Wang, Wolfgang Baumjohann, and Martin Volwerk
Magnetic configuration in the Venus' induced magnetosphere
- Z129 EGU2011-9672
Andrey Fedorov, Stas Barabash, Jean-Andre Sauvaud, and Rickard Lundin
Mars Express measurements of the ion escape rate for solar minimum
- Z130 EGU2011-2541
Chaosong Huang
Relation among total magnetotail magnetic flux, solar wind triggers, and substorm onsets during sawtooth events
- Z131 EGU2011-2340
Motoharu Nowada, Ching-Huei Lin, Sui-Yan Fu, Zu-Yin Pu, Howard J. Singer, Vassilis Angelopoulos, Charles W. Carlson, and Hans-Ulrich Auster
Magnetic Field and Plasma Responses in the Near-Earth Magnetotail and Magnetospheric Boundary Layer During an Encounter of Heliospheric Current Sheet
- Z132 EGU2011-4355
Rumi Nakamura and the Double-onset substorm study Team
Evolution of the near-Earth magnetotail current sheet during a double-onset substorm under a weak solar-wind driver
- Z133 EGU2011-12728
Vahe Peromian and Mostafa El-Alaoui
The Energization of Ions in the Magnetotail during CME- and CIR-driven Geomagnetic Storms

- Z134 EGU2011-12583
Jan Merka, David Sibeck, and Thomas Narock
 Statistical properties of bursty bulk flows in the magnetosphere revealed by the Virtual Magnetospheric Observatory
- Z135 EGU2011-9596
Evgeny Panov, Rumi Nakamura, Wolfgang Baumjohann, Vassilis Angelopoulos, Karl-Heinz Glassmeier, Anatoli A Petrukovich, Victor A Sergeev, Martin Volwerk, James P McFadden, and Davin E Larson
 THEMIS multi-case study of BBF braking in the near-Earth plasma sheet
- Z136 EGU2011-13027
Suzanne Imber and James Slavin
 Multiple Flux Ropes in the Earth's Magnetotail
- Z137 EGU2011-5146
Takuma Nakamura, Rumi Nakamura, Alexandra Alexandrova, and Yasubumi Kubota
 Hall magnetohydrodynamic effects for three-dimensional magnetic reconnection with finite width along the direction of the current
- Z138 EGU2011-7361
Alexandra Alexandrova, Vladimir Semenov, Rumi Nakamura, and Helfried Biernat
 Three-dimensional non-steady magnetic reconnection signatures: Model and observations
- Z139 EGU2011-8676
 Chris Arridge and **Andrew Walsh**
 Coupling of Dungey and Vasyliunas cycle reconnection: Drivers and observable consequences
- Z140 EGU2011-8419
Andrew Walsh, Chris Owen, Andrew Fazakerley, Colin Forsyth, and Iannis Dandouras
 Average Pitch Angle Distributions in the Magnetotail: The Effect of Geomagnetic Activity
- Z141 EGU2011-4632
Aimin Du and Tielong Zhang
 Field line resonance trigger auroral arcs identified by ground and multi-spacecraft in the near-Earth magnetotail
- Z142 EGU2011-6722
Elizabeth Davey, Mark Lester, Steven Milan, and Robert Fear
 Substorm and magnetic storm effects on the cross-tail current sheet
- Z143 EGU2011-11098
Eija Tanskanen, James Slavin, Kristian Snekvik, Suzie Imber, Laura Degener, and Lasse Häkkinen
 Magnetotail stress during storms and non-storm intervals

Wednesday, 06 April

ST1.2 – Multi-Spacecraft Observations and Modelling of Coronal and Heliospheric Processes in the Rising Phase of Cycle 24 – Orals

Convener: Volker Bothmer | Co-Conveners: Alexis Rouillard, Andrea Opitz

Room: 32

Chairperson: Bothmer, Opitz, Rouillard

- 10:30–10:45 EGU2011-10403
Robert Bentley, Jean Abourdarham, Andre Csillaghy, Christian Jacquey, Mike Hapgood, Mauro Messerotti, Peter Gallagher, and Karine Bocchialini
 Using HELIO to address multi-spacecraft science use cases
- 10:45–11:00 EGU2011-8570
Shane Maloney and Peter Gallagher
 On the acceleration of CMEs during the last solar minimum
- 11:00–11:15 EGU2011-5466
Manuela Temmer, Christian Möstl, Tanja Rollett, Astrid M. Veronig, and Bojan Vrsnak
 Effects of the background solar wind speed on the propagation behavior of CMEs
- 11:15–11:30 EGU2011-3891
 Lan Jian, **Christopher Russell**, Janet Luhmann, Qiang Hu, Rui Liu, Christian Mostl, Dusan Odstroil, Peter MacNeice, Hong Xie, Tung-Shin Hsu and the VEX (5, 8) Team
 Multi-Spacecraft Observations and Modeling of Interplanetary CMEs and CIRs in 2009 and 2010
- 11:30–11:45 EGU2011-532
Kamen Kozarev, Kelly Korreck, Maher Dayeh, Arnaud Zaslavsky, and Nathan Schwadron
 High-Cadence EUV Imaging, Radio, and In-Situ Observations of Coronal and Interplanetary Shocks: Implications for Energetic Particle Acceleration
- 11:45–12:00 EGU2011-2367
Vladimir Slemzin, Louise Harra, Alexander Urnov, Sergey Kuzin, Farid Goryaev, David Berghmans, Anik De Groof, and Daniel Seaton
 EUV observations of the inner corona and identification of the slow solar wind sources in active regions

ST1.2 – Multi-Spacecraft Observations and Modelling of Coronal and Heliospheric Processes in the Rising Phase of Cycle 24 – Posters

Convener: Volker Bothmer | Co-Conveners: Alexis Rouillard, Andrea Opitz

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Bothmer, Opitz, Rouillard

- Z121 EGU2011-2043
 Christian Möstl, Emilia K.J. Kilpua, Charles J. Farrugia, Tanja Rollett, Noé Lugaz, **Manuela Temmer**, Richard Harrison, Astrid M. Veronig, Janet G. Luhmann, and Antoinette B. Galvin
 Interacting CMEs from the Sun to 1 AU: What can we learn from relating heliospheric images to in situ data?
- Z122 EGU2011-7912
 Tanja Rollett, Christian Möstl, **Manuela Temmer**, and Astrid Veronig
 Propagation Directions and Kinematics of the Coronal Mass Ejections of August 2010
- Z123 EGU2011-8144
Alexis Ruffenach, Benoit Lavraud, Matthew J. Owens, Jean-André Sauvaud, Neel Savani, Alexis Rouillard, Andrea Opitz, Janet G. Luhmann, and Christopher T. Russell
 Quantitative multi-spacecraft observation of magnetic cloud erosion by magnetic reconnection during propagation.
- Z124 EGU2011-8705
Deirdre Wendel, Melvyn Goldstein, Adolfo Figueroa-Vinas, Mark Adrian, and Fouad Sahraoui
 Multiple Spacecraft Study of the Impact of Turbulence on Reconnection Rates
- Z125 EGU2011-10191
 Nina Dresing, **Raúl Gómez-Herrero**, Andreas Klassen, Bernd Heber, Yulia Kartavykh, and Wolfgang Dröge
 Multi-spacecraft observations of the January 17, 2010 solar energetic particle event
- Z126 EGU2011-11269
Antonio Guerrero, Consuelo Cid, Yolanda Cerrato, and Elena Saiz
 Geoeffective interactions between structures at the beginning of solar cycle 24
- Z127 EGU2011-4993
Bart van der Holst
 Counter-propagating Alfvén Waves in a 3D Global Solar Wind Model

- Z128 EGU2011-8281
Andrea Opitz, Peter Wurz, Andrei Fedorov, Jean-Andre Sauvaud, Janet Luhmann, Karoly Szego, Pete Riley, Alexis Rouillard, and Angelos Vourlidas
 Temporal evolution and spatial variation of the solar wind in the inner heliosphere from multi-spacecraft observations
- Z129 EGU2011-11951
Raúl Gómez-Herrero, Nina Dresing, Olga Malandraki, Andreas Klassen, Mark E. Wiedenbeck, Christina M. S. Cohen, Glenn M. Mason, Bernd Heber, Yulia Kartavykh, Wolfgang Dröge and the SEPT Team
 Angular spread of solar energetic electrons observed by STEREO, ACE and SOHO
- Z130 EGU2011-8423
Joe Zender, Anik de Groof, Marie Dominique, Ingolf Dammasch, David Berghmans, and Dan Seaton
 SWAP and LYRA onboard PROBA2, new EUV instruments for space weather monitoring and scientific analysis

ST1.3 – Particle acceleration in solar system plasmas: synergy between in-situ and remote observations – Orals

Convener: Alessandro Retinò | Co-Conveners: Claire Foullon, Harald Kucharek, Olga Malandraki

Room: 32

Chairperson: Alessandro Retinò, Harald Kucharek

- 13:30–13:45 EGU2011-10192
Yuri Khotyaintsev and the ISSI Reconnection Team
 Particle Acceleration During Solar Flares and Magnetospheric Substorms
- 13:45–14:00 EGU2011-2769
Mitsuo Oka, Forrest Mozer, Tai Phan, Masaki Fujimoto, Iku Shinohara, and Jonathan Eastwood
 Particle Acceleration by Magnetic Reconnection: Single X-line vs Multiple X-lines
- 14:00–14:15 EGU2011-5771
Silvia Perri, Antonella Greco, and Gaetano Zimbardo
 Stochastic acceleration of protons in the Earth's magnetotail current sheet: numerical studies
- 14:15–14:30 EGU2011-5473
Manuela Temmer, Astrid M. Veronig, Eduard P. Kontar, S'am Krucker, and Bojan Vrsnak
 STEREO/RHESSI studies of CME acceleration and particle acceleration in flares
- 14:30–14:45 EGU2011-11923
Jack R. Jokipii
 Constraints on Charged-Particle Acceleration in the Heliosphere
- 14:45–15:00 EGU2011-5229
Daniel B. Reisenfeld and the IBEX Team
 Short timescale variation in the heliospheric ENA flux: IBEX observations and correlations with solar wind observations
- 15:00–15:15 EGU2011-9089
Alexander Lazarian
 Particle acceleration in reconnection regions

ST1.3 – Particle acceleration in solar system plasmas: synergy between in-situ and remote observations – Posters

Convener: Alessandro Retinò | Co-Conveners: Claire Foullon, Harald Kucharek, Olga Malandraki

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- Z132 EGU2011-284
Mykola Gordovskyy and Philippa Browning
 Particle acceleration by magnetic reconnection in coronal arcade
- Z133 EGU2011-6305
Nai-Hwa Chen and Wing-Huen Ip
 The Flare Temperature Determined By The AIA Imagers On The Solar Dynamics Observatory And RHESSI
- Z134 EGU2011-11481
Davina Innes, Jinhye Park, and Radoslav Bucik
 The source regions of SEPs observed by SDO in Aug 2010
- Z135 EGU2011-13858
Olga Malandraki, Alexander Hillaris, Karl-Ludwig Klein, Panagiota Preka-Papadema, Xenophon Moussas, Costas Bouratzis, Eleftheria Mitsakou, Panagiotis Tsitsipis, and Athanasios Kontogeorgos
 The 17 January 2005 complex solar radio event associated with interacting fast Coronal Mass Ejections

- Z136 EGU2011-9316
Alexis Rouillard, Dusan Odstrcil, Neil Sheeley, Allan Tylka, Angelos Vourlidas, Glenn Mason, Brian Wood, Chee Ng, Adam Szabo, and O. Chris StCyr
White-light observations of a forming wave ahead of a coronal mass ejection
- Z137 EGU2011-3893
Lynn Bruce Wilson III, Adam Szabo, Andriy Koval, Cynthia A. Cattell, Paul J. Kellogg, Keith Goetz, Aaron Breneman, Kris Kersten, Justin C. Kasper, and Marc Pulupa
Wind Observations of Wave Heating and/or Particle Energization at Supercritical Interplanetary Shocks
- Z138 EGU2011-5746
Heli Hietala, Neus Agueda, Katerina Andréevová, Rami Vainio, Stuart Nylund, Emilia K. J. Kilpua, and Hannu E. J. Koskinen
Particle acceleration in shock-shock interaction - multi-spacecraft in situ observations
- Z139 EGU2011-14081
Mark Popecki, Kristin Simunac, Antony Galvin, and Berndt Klecker
He⁺ Suprathermal Tails as Observed by STEREO/PLASTIC
- Z140 EGU2011-3085
Harald Kucharek, Eberhard Moebius, Bin Miao, Mats Andre, and Hiroshi Matsui
On the Conspiracy of Ion Reflection and the Local Structure of the Earth's Bow Shock: A multi-scale study.
- Z141 EGU2011-3968
Steven Petrinec and the IBEX Team
Energetic neutral atom imaging of the magnetospheric cusps and upstream regions
- Z142 EGU2011-4496
Quanming Lu, Can Huang, Rongsheng Wang, and Shui Wang
The mechanisms of electron acceleration in antiparallel and guide field reconnection
- Z143 EGU2011-4637
Rongsheng Wang, Rumi Nakamura, Wolfgang Baumjohann, Quanming Lu, Tielong Zhang, Wai-Leong Teh, Martin Volwerk, Aimin Du, Evgeny Panov, and Bertalan Zieger
The observation of electron density cavity during a guide field magnetic reconnection
- Z144 EGU2011-3980
Masaki Fujimoto, Kentaro Tanaka, and Iku Shinohara
Dynamic magnetic island coalescence and associated electron acceleration
- Z145 EGU2011-11457
Alessandro Retinò, Rumi Nakamura, Bertalan Zieger, Andris Vaivads, Yuri Khotyaintsev, and Fouad Saharoui
Multi-step electron acceleration in magnetotail reconnection
- Z146 EGU2011-10838
Andris Vaivads, Alessandro Retinò, **Yuri Khotyaintsev**, Mats André, and Christopher J. Owen
Suprathermal electron acceleration during reconnection onset in magnetotail
- Z147 EGU2011-3266
Bertalan Zieger, Alessandro Retino, Rumi Nakamura, Wolfgang Baumjohann, and Anton V. Artemyev
Micro-scale processes of jet braking in the near-Earth magnetotail

ST1.4 – Theory, simulations and observations of magnetic dynamos – Orals

Convener: Giuseppina Nigro | Co-Conveners: Leonardo Primavera, Lapo Bettarini

Room: 32

Chairperson: Lapo Bettarini

- 15:30–15:45 EGU2011-2352
Frank Stefani, Marcus Gellert, Gunter Gerbeth, Andre Giesecke, Thomas Gundrum, Guenther Ruediger, and Marcus Seilmayer
Recent and future liquid metal experiments on dynamo action and related magnetohydrodynamic instabilities
- 15:45–16:00 EGU2011-696
Jacques Léorat, Caroline Nore, Jean-Luc Guermond, and Franky Luddens
From precession driven numerical fluid dynamos to planetary dynamos
- 16:00–16:15 EGU2011-7061
Francois Daviaud and the VKS Team
Dynamo regimes and transitions in the VKS experiment
- 16:15–16:30 EGU2011-2551
Rainer Arlt
Solar and stellar applications of the Tayler instability
- 16:30–16:45 EGU2011-857
Mausumi Dikpati
Impact of Changes in the Sun's Conveyor-belt on Recent Solar Cycles

16:45–17:00 EGU2011-6791
Manfred Küker and Günther Rüdiger
 Internal rotation, meridional flow, and the solar dynamo

ST1.4 – Theory, simulations and observations of magnetic dynamos – Posters

Convener: Giuseppina Nigro | Co-Conveners: Leonardo Primavera, Lapo Bettarini

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- Z148 EGU2011-20
Helen Popova and Dmitry Sokoloff
 Effects of Solar Meridional Circulation on the Solar Dynamo and the Magnetic Cycle
- Z149 EGU2011-75
Sandro Donato, Domenico Meduri, and Fabio Lepreti
 Magnetic Field Reversal of the Earth: a two-disk Rikitake Dynamo Model
- Z150 EGU2011-701
Jean Boisson and Bérengère Dubrulle
 Stationary dynamos in the VKS experiment
- Z151 EGU2011-843
Krivodubskij Valery
 On the apparent mystery of the extended in the time 23rd solar cycle period
- Z152 EGU2011-11224
Giuseppina Nigro
 Study on the Dynamo Transition in a Self-consistent Nonlinear Dynamo Model
- Z153 EGU2011-14110
Ali Ajabshirizadeh, Ehsan Tavabi, and Serge Koutchmy
 Oscillation of Ca H Jet Emission Observed by SOT: Viscous Effects

ST2.3 – Electromagnetic fields, particle populations and internal structures in the Earth's inner magnetosphere (including Arne Richter Award for Outstanding Young Scientists Lecture) – Orals

Convener: Sandrine Grimald | Co-Conveners: Ondrej Santolik, Vincent Maget, Farida El-Lemdani Mazouz

Room: 31

Chairperson: Sandrine Grimald

- 08:30–08:45 EGU2011-1001
George Khazanov
 Modeling of Inner Magnetosphere Coupling Processes
- 08:45–09:00 EGU2011-12201
 Yuriy Zaliznyak, **Hugo Breuillard**, Oleksiy Agapitov, Vladimir Krasnoselskikh, and Guy Rolland
 Reconstruction of Chorus Type Whistler Wave Statistics in the Radiation Belts and Inner Magnetosphere Using Ray Tracing
- 09:00–09:15 EGU2011-5815
Benjamin Grison
 Observations of EMIC triggered chorus emissions in the magnetosphere
- 09:15–09:30 EGU2011-1337
Viviane Pierrard, Fabien Darrouzet, Koen Stegen, Natalya Ganushkina, and Mirela Voiculescu
 The dynamics of the plasmasphere
- 09:30–10:00 EGU2011-14183
Yuri Shprits
 Origin of Trapped Radiation in the Near Earth Environment (Arne Richter Award for Outstanding Young Scientists Lecture)
- 10:00–10:15 EGU2011-10842
Jean Andre Sauvaud, Dominique Delcourt, Martin Walt, and Umran Inan
 A systematic magnetic storm effect on the electron energy spectra of the Earth's radiation belt at $L < 3.5$

Thursday, 07 April

CL2.12 – Solar and Geomagnetic Activity and Their Influences on the Earth's Weather and Climate (co-listed) – Orals

Convener: Jean Lilensten | Co-Conveners: Sergei Avakyan, Thierry Dudok de Wit

Room: 16

Chairperson: Jean Lilensten

- 13:30–13:45 EGU2011-5033
Colin Price
The Global Atmospheric Electric Circuit
- 13:45–14:00 EGU2011-14115
Jean-François Hochedez
Solar irradiance
- 14:00–14:15 EGU2011-12902
Joachim Curtius and the CLOUD Team
Investigating the link between cosmic rays and Earth's climate: the CLOUD experiment at CERN
- 14:15–14:30 EGU2011-8298
Alexander Shapiro, Werner Schmutz, Eugene Rozanov, Micha Schoell, Margit Haberreiter, Anna Shapiro, and Stephan Nyeki
A new approach to long-term reconstruction of the solar spectral irradiance suggests large historical solar forcing
- 14:30–14:45 EGU2011-10813
Luis Eduardo Vieira, Thierry Dudok de Wit, Matthieu Kretschmar, and Gaël Cessateur
SOTERIA Project: Real-time reconstructions of the solar total and spectral irradiance for space weather applications
- 14:45–15:00 EGU2011-4438
Claus Fröhlich
Total solar irradiance during the last three solar cycles: Consequences for the reconstruction back to 1900.

CL2.12 – Solar and Geomagnetic Activity and Their Influences on the Earth's Weather and Climate (co-listed) –

Posters

Convener: Jean Lilensten | Co-Conveners: Sergei Avakyan, Thierry Dudok de Wit

Hall XL | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Jean Lilensten

- XL88 EGU2011-677
Renata Lukianova and Genrikh Alexseev
High solar irradiance episode in 2001/2002 and relevant Earth's climate anomalies
- XL89 EGU2011-1467
Peter Stauning
Solar activity - climate relations: A different approach.
- XL90 EGU2011-1479
Laure Lefevre, Frederic Clette, and Laurence Wauters
Towards advanced sunspot-based indices and solar forcing proxies
- XL91 EGU2011-1608
Mykhaylo Lyashenko, Viktor Burmaka, Leonid Chernogor, Igor Domnin, Leonid Emelyanov, and Dmitry Kotov
Experimental Investigations of the Ionospheric Processes during Solar Activity Minimum Period
- XL92 EGU2011-2877
Libor Hejkrlik
Lunar signal in cloudiness is stronger than in precipitation
- XL93 EGU2011-4450
Claus Fröhlich
Spectral Solar Irradiance over Solar Cycle 23 from Sunphotometers of VIRGO on SOHO.
- XL94 EGU2011-4648
Robert Cahalan, Guoyong Wen, Peter Pilewskie, and Jerald Harder
Atmospheric Temperature Responses to Solar Spectral Irradiance Variations
- XL95 EGU2011-6436
Venera Dobrica, Crisan Demetrescu, and Georgeta Maris
On the response of the European climate to solar/geomagnetic long-term activity

- XL96 EGU2011-8292
Yuri Brugnara and Stefan Brönnimann
Assessing uncertainty of solar signals in the tropospheric temperature field
- XL97 EGU2011-10474
Thierry Dudok de Wit and Luis Eduardo Vieira
Are different Total Solar Irradiance records and reconstructions consistent with each other ? A statistical view.
- XL98 EGU2011-10664
Anna Shapiro, Eugene Rozanov, Alexander Shapiro, Tatiana Egorova, Werner Schmutz, and Thomas Peter
The contribution of different factors to the evolution of the middle atmosphere state from 2004 to 2009
- XL99 EGU2011-10831
Anna Shapiro, Eugene Rozanov, Alexander Shapiro, Tatiana Egorova, Werner Schmutz, and Thomas Peter
The response of the MLS mesospheric daytime hydroxyl to the short-term solar irradiance variability

PS5.1 – Moon-Magnetosphere Interactions (co-listed) – Orals

Convener: Emma Bunce | Co-Conveners: Wing-Huen Ip, Norbert Krupp

Room: 29

Chairperson: Emma Bunce

- 13:30–14:00 EGU2011-2799
Margaret G. Kivelson
Giant magnetospheres - small moons: Who's in the driver's seat?
- 14:00–14:15 EGU2011-555
Xianzhe Jia, Raymond Walker, Margaret Kivelson, Krishan Khurana, and Jon Linker
Global configuration and dynamics of Ganymede's magnetosphere: Three-dimensional MHD simulations
- 14:15–14:30 EGU2011-1112
Bertrand Bonfond
At the other end of the field lines: the satellite footprints
- 14:30–14:45 EGU2011-7883
Elias Roussos, Norbert Krupp, Chris Paranicas, Michelle F. Thomsen, Peter Kollmann, Donald G. Mitchell, Stamatios M. Krimigis, and Geraint H. Jones
Moon-magnetosphere interaction signatures as tools for studying the magnetospheres of outer planets
- 14:45–15:00 EGU2011-5075
John Cooper, Bruce Fegley, Alexander Lipatov, John Richardson, and Edward Sittler
Compositional Impact of Io Volcanic Emissions on Jupiter's Magnetosphere and the Icy Galilean Moons
- 15:00–15:15 EGU2011-9463
Zsafia Bebesi, Norbert Krupp, Karoly Szego, Geza Erdos, Zoltan Nemeth, Donald G. Mitchell, Stamatios M. Krimigis, and David T. Young
Energetic electron precipitation at Titan

PS5.1 – Moon-Magnetosphere Interactions (co-listed) – Posters

Convener: Emma Bunce | Co-Conveners: Wing-Huen Ip, Norbert Krupp

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Norbert Krupp

- Z69 EGU2011-2583
Nicolas André, Renaud Allieux, Baptiste Cecconi, Andrei Fedorov, and Philippe Louarn
Identification of Ganymede's magnetospheric regions and associated plasma processes from Galileo multiple flyby observations
- Z70 EGU2011-4583
Mizuki Yoneda, Fuminori Tsuchiya, Hiroaki Misawa, Chihiro Tao, Masato Kagitani, and Shoichi Okano
Do enhancements in Io's volcanic activity weaken Jupiter's magnetospheric activity?
- Z71 EGU2011-5108
Edward Sittler, John Cooper, Richard Hartle, William Paterson, Paul Mahaffy, Alexander Lipatov, Nick Paschalidis, Mike Coplan, Tim Cassidy, and Peter Wurz
Plasma IMS Composition Measurements for Europa, Ganymede and the Jovian System
- Z72 EGU2011-11149
Norbert Krupp, Elias Roussos, Peter Kollmann, Geraint Jones, Chris Arridge, Chris Paranicas, Donald Mitchell, Stamatios Krimigis, and Krishan Khurana
Energetic particles in the vicinity of Rhea compared to Enceladus and Dione: Cassini MIMI/LEMMS results
- Z73 EGU2011-11620
Stefano Massetti, Anna Milillo, Xianzhe Jia, Alessandro Mura, Stefano Orsini, Christina Plainaki, and Valeria Mangano
Ion circulation and precipitation at Ganymede

- Z74 EGU2011-12042
Allioux Renaud and Louarn Phillipe
A model of the energetic particle populations in the environment of Ganymede
- Z75 EGU2011-12279
Ying-Dong Jia, **Christopher Russell**, Krishan Khurana, and Tamas Gombosi
Cassini observations and MHD Model study of the Enceladus-magnetospheric plasma interaction
- Z76 EGU2011-13532
Frank Crary, Donald Gurnett, Andrew Coates, and Geraint Jones
Non-ideal Alfvén wings and the acceleration of electron beams by Enceladus

ST1.1 – Open session on the Sun and heliosphere (including Hannes Alfvén Medal Lecture) – Orals

Convener: Olga Malandraki | Co-Conveners: Volker Bothmer, Bernd Heber

Room: 31

Chairperson: Olga Malandraki Bernd Heber

- 08:30–08:45 EGU2011-13136
Liyun Zhang, Kalevi Mursula, Ilya Usoskin, and Huaning Wang
Global analysis of active longitudes of sunspots and solar flares
- 08:45–09:00 EGU2011-6113
Jose Angel Abreu, Friedhelm Steinhilber, Jürg Beer, Ken McCracken, and Antonio Ferriz-Mas
Properties of solar activity derived from cosmogenic radionuclides
- 09:00–09:15 EGU2011-6180
Eckart Marsch, **Sofiane Bourouaine**, and Fritz Neubauer
Evidence of ion-cyclotron resonance heating of solar wind alpha particles
- 09:15–09:30 EGU2011-10061
Paul J. Kellogg, Keith Goetz, and Steven Monson
Fates of Langmuir Waves in Solar Type III Bursts.
- 09:30–09:45 EGU2011-8831
Daniel Reisenfeld and the Genesis Team
Solar Wind Elemental and Isotopic Abundance Results from the Genesis Mission
- 09:45–10:00 EGU2011-3183
Mark Siewert and Hans-Jörg Fahr
The inner heliospheric source for keV energetic neutral atoms

COFFEE BREAK

Chairperson: Iannis Dandouras Olga Malandraki

- 10:30–11:30 EGU2011-4860
Syun-Ichi Akasofu
The Choice of the Concept of Magnetic Field Lines or of Electric Current Lines (Hannes Alfvén Medal Lecture)
- 11:30–12:00 EGU2011-3902
David McComas
IBEX Observations of the Outer Heliosphere

LUNCH BREAK

Chairperson: Bernd Heber Volker Bothmer

- 13:30–14:00 EGU2011-9575
Allan J. Tylka, Olga E. Malandraki, Chee K. Ng, Richard G. Marsden, and Cecil Tranquille
Simultaneous Observations of SEP Elemental Composition and Spectra on Widely-Separated Spacecraft: Comparisons between Ulysses and ACE/Wind in 2000 - 2001.
- 14:00–14:15 EGU2011-3825
Janet Luhmann, Yan Li, Ying Liu, Dusan Odstrcil, Peter MacNeice, Xuepu Zhao, Eileen Chollet, Lan Jian, and Matthew Owens
Tests of a model framework for interpreting heliospheric particle events
- 14:15–14:30 EGU2011-2190
Katerina Andreeva, Emilia Kilpua, Liisa Juusola, Alexey Isavnin, Rami Vainio, and Hannu Koskinen
Depleted magnetic bottle in 90 degrees pitch angle within magnetic cloud

- 14:30–14:45 EGU2011-5325
Katsuhide Marubashi, Yeon-Han Kim, Kyung-Suk Cho, Yong-Deuk Park, Kyu-Cheol Choi, Seonghwan Choi, and Ji-Hye Baek
 Occurrence Frequency of Interplanetary Magnetic Flux Ropes
- 14:45–15:00 EGU2011-479
Vidya charan dwivedi
 Multi-instrumental study of major geomagnetic event recorded on 15 December 2006 during unusual declining phase of solar cycle 23: complex interplanetary source event

ST1.1 – Open session on the Sun and heliosphere (including Hannes Alfvén Medal Lecture) – Posters

Convener: Olga Malandraki | Co-Conveners: Volker Bothmer, Bernd Heber

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Volker Bothmer Olga Malandraki

- Z125 EGU2011-1577
Cesar Martin, Shrinivasrao R. Kulkarni, Jan Grunau, Robert F. Schweingruber, Stephan Böttcher, Eckart Böhm, Sönke Burmeister, Bernd Heber, Dennis Sie and the SoLO Kiel Team
 Initial Performance Results of the High Energy Telescope (EPD/HET) on Solar Orbiter
- Z126 EGU2011-3527
 Nicky Chorley, Claire Foullon, **Bogdan Hnat**, Valery Nakariakov, and Kiyoto Shibasaki
 Long period oscillations in sunspots: period persistence and phase response to eruptive activity
- Z127 EGU2011-3698
Olga Gutynska, Jana Safrankova, Zdenek Nemecek, and John D. Richardson
 MHD properties of plasma fluctuations in different sheaths
- Z128 EGU2011-3705
Andrii Lynnyk, Jana Safrankova, Zdenek Nemecek, and Marek Vandas
 Study of the oblate shape of the MCs observed by WIND
- Z129 EGU2011-3771
Bernd Heber, Stephan Böttcher, Sönke Burmeister, Cesar Martin, Reinhold Müller-Mellin, Rolf Paspirgilis, Björn Schuster, Lars Seimetz, Dennis Sie, Robert Wimmer-Schweingruber and the SOLO-EPT Team
 The Electron Proton Telescope for Solar Orbiter
- Z130 EGU2011-4563
 Vsevolod Lozitsky and **Mykola Gordovskyy**
 Observations of small-scale magnetic fields in solar flares
- Z131 EGU2011-4707
Elena Vernova, Marta Tyasto, and Dmitry Baranov
 Solar activity as manifestation of magnetic field development
- Z132 EGU2011-6089
Olga Malandraki, Richard G. Marsden, Ioannis Vogiatzis, David Lario, Bernd Heber, Richard A. Mewaldt & Christina M. S. Cohen, Louis J. Lanzerotti, Robert B. Forsyth, Heather A. Elliott, and Athanasios Geranios
 Energetic Particle Observations and Propagation in the 3-D Heliosphere: December 2006 events
- Z133 EGU2011-7715
 Christoph Terasa, **Víctor de Manuel**, Sebastian Boden, Stephan Böttcher, Bernd Heber, Shrinivasrao Kulkarni, César Martín, Robert Wimmer-Schweingruber, Robert P. Lin, Dong-Hun Lee and the Solar Orbiter STEIN Team
 The SupraThermal Electrons, Ions and Neutrals detector for Solar Orbiter
- Z134 EGU2011-10934
Stepan Stverak, Pavel M. Travnicek, and Petr Hellinger
 Evolution of the electron heat flux in the expanding solar wind: Helios observations
- Z135 EGU2011-11215
Géza Erdős and André Balogh
 Magnetic flux density measured in fast and slow solar wind streams
- Z136 EGU2011-11581
 Andreas Klassen, Raúl Gómez-Herrero, and **Bernd Heber**
 Electron spikes, type III radio bursts and EUVI jets on February 22, 2010
- Z137 EGU2011-11926
Konstantinos Dialynas, Stamatios M. Krimigis, Donald G. Mitchell, Edmond C. Roelof, and Robert B. Decker
 On the geometrical characteristics and energy variations of the heliospheric "Belt" as revealed by Cassini/INCA measurements
- Z138 EGU2011-13864
Olga Malandraki, Allan J. Tylka, Chee K. Ng, Richard G. Marsden, Cecil Tranquille, and Athanasios Geranios
 SPECTRAL AND COMPOSITIONAL INVARIANCE IN THE 3-D HELIOSPHERE: ULYSSES, WIND & ACE OBSERVATIONS

- Z139 EGU2011-733
Gideon Steinitz, Oxana Piatibratova, and Peter Kotlarsky
Solar radiation tidal forcing of radon signals in subsurface air
- Z140 EGU2011-6486
Sofiane Bourouaine, Eckart Marsch, and Fritz Neubauer
On the preferential heating and acceleration of helium ions: Collisions versus wave effects
- Z141 EGU2011-10514
Thierry Dudok de Wit, Said Moussaoui, Pierre-Olivier Amblard, Jean Aboudarham, Frédéric Auchère, Matthieu Kretzschmar, and Jean Lilensten
Differing evolutions of the solar spectral variability in the EUV during the last solar minimum
- Z142 EGU2011-4265
Olga Khabarova and Vladimir Obridko
Peculiarities of spatial and temporal distribution of the interplanetary magnetic field

ST3.1 – Open session on the ionosphere and thermosphere – Orals

Convener: Jan Laštovicka | Co-Conveners: Bruno Zolesi, Anasuya Aruliah

Room: 25

Chairperson: Jan Lastovicka

- 08:30–08:45 EGU2011-2778
Konstantinos S. Kalogerakis and Michael A. Glaros
Lessons from a Lifetime: O(1D) Emission in Ionospheric Modification
- 08:45–09:15 EGU2011-12067
Stan Stankov, Gilles Wautelet, Sandrine Lejeune, Justine Spits, and Rene Warnant
On the impact of ionospheric variability and disturbances on GNSS-based positioning applications
- 09:15–09:30 EGU2011-1008
Libo Liu
The unusual ionosphere under prolonged solar minimum
- 09:30–09:45 EGU2011-8236
Yenca O. Migoya Orue, Bruno Nava, and Sandro M. Radicella
Assessment of NeQuick and IRI models using TEC from satellite altimeters
- 09:45–10:00 EGU2011-10850
Alexey Oinats, Konstantin Kutelev, Vladimir Kurkin, and Nozomu Nishitani
Joint observation of large-scale travelling ionospheric disturbances using SuperDARN Hokkaido radar and Eastern Siberia chirp sounders network
- 10:00–10:15 EGU2011-3237
Farida El-Lemdani Mazouz, Hervé De Feraudy, Jean-Louis Pinçon, and Michel Parrot
V shaped streaks recorded on board DEMETER above powerful thunderstorms: a statistical study

ST3.1 – Open session on the ionosphere and thermosphere – Posters

Convener: Jan Laštovicka | Co-Conveners: Bruno Zolesi, Anasuya Aruliah

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Bruno Zolesi

- Z143 EGU2011-2255
Jan Lastovicka, Josef Boska, Dalia Buresova, and Dan Kouba
Project SX5 - development of a new tool for ionospheric investigations and Czech participation in
- Z144 EGU2011-5879
Jan Laštovicka, Josef Boska, Dalia Buresova, and Dan Kouba
Very high foEs - reality or oblique reflections?
- Z145 EGU2011-122
Newton Silva de Lima, Alan dos Santos Ferreira, Rutenio Castro de Araujo, and Kedma Cristine Yamamoto
Observations of MSTIDs/GWs at the F2 layer heights in the near equatorial region.
- Z146 EGU2011-7943
Elijah O. Oyeyemi, Sandro M. Radicella, Bruno Nava, Lee-Anne McKinnell, and **Yenca O. Migoya Orue**
On the empirical model of F2 peak electron density for the European Region
- Z147 EGU2011-4453
Claudia Candido, Inez Batista, Fabio Becker-Guedes, Mangalathayil Abdu, José Humberto Sobral, and Hisao Takahashi
Statistical analysis of spread-F occurrence and ionospheric variability over Brazil during solar minimum activity
- Z148 EGU2011-12739
Elena Andreeva, **Svetlana Kalashnikova**, Viacheslav Kunitsyn, and Evgeny Tereshchenko
Use of GIMs in high and midlatitudes

- Z149 EGU2011-867
Artem M. Padokhin, Vyacheslav E. Kunitsyn, Elena S. Andreeva, Marina O. Nazarenko, Vladimir L. Frolov, and Georgy P. Komrakov
 Sounding of the modified by powerful HF radio waves ionosphere by navigational satellites radio transmissions.
- Z150 EGU2011-664
Katarina Axelsson, Tima Sergienko, Ingrid Sandahl, and Urban Brändström
 Deducing spatial properties of auroral primary particle distributions from ground-based optical imaging.
- Z151 EGU2011-4185
Gordon James
 Properties of harmonic electron cyclotron waves in the low-density auroral ionosphere
- Z152 EGU2011-5448
Ragnhild Schroder Hansen, Yngvild Linnéa Andalsvik, Anja Lyng Bækken, Jone Reistad, Christine Gabrielse, Owen Roberts, Njål Gulbrandsen, and Hiroatsu Sato
 Study of an auroral breakup during quiet solar wind conditions
- Z153 EGU2011-6397
Tatsuo Onishi, Jean-Jacques Berthelier, and Michel Malingre
 Automatic detection and characterization of plasma bubbles and other low latitude ionospheric disturbances in DEMETER data
- Z154 EGU2011-9611
Hui Wang, Hermann Luehr, and Aaron Ridley
 Plasma convection jets near the poleward boundary of the nightside auroral oval and their relation to Pedersen conductivity gradients

ST5.1/NH8.6 – Space Weather and its Effects on Terrestrial and Geo-Space Environments: Science and Applications (co-organized) – Orals

Convener: Norma Crosby | Co-Conveners: Mirela Voiculescu, Aleksey Dmitriev

Room: 32

Chairperson: Norma Crosby

- 15:30–15:45 EGU2011-13709
Ioanna Tsagouri
 On the assessment of space weather models for operational use: evaluation of the performance of ionospheric forecasting models
- 15:45–16:00 EGU2011-2662
Maria Elena Innocenti, Giovanni Lapenta, Lapo Bettarini, Ed Lee, Stefano Markidis, Bojan Vrsnak, Manuela Temmer, Astrid Veronig, Francois Crespon, Chafih Skandrani and the Soteria Space-Weather Forecast & Data Assimilation Team
 Solar wind forecasting: a method based on data assimilation with Kalman filters
- 16:00–16:15 EGU2011-11171
Andreja Susnik and Biagio Forte
 Ionospheric scintillation activity measured in the African region by means of GNSS signals
- 16:15–16:30 EGU2011-7928
Paul Prikryl, Ian G. Richardson, Periyadan T. Jayachandran, and Sajan C. Mushini
 GPS phase scintillation at high latitudes following near-earth interplanetary coronal mass ejections
- 16:30–16:45 EGU2011-5888
Sean Bruinsma and Thierry Dudok de Wit
 Optimal Solar Inputs for use in Upper Atmosphere Density Models
- 16:45–17:00 EGU2011-232
Tatiana Novikova, Oleg Shumilov, Elena Kasatkina, and Alexey Chramov
 Cosmophysical and natural factors, and trauma occurrence level of people working and living behind the polar circle.
- 17:00–17:15 EGU2011-6476
 Gareth Lawrence, **Simon Reid**, Eva Robbrecht, Michel Kruglanski, Rowena Smillie, Norbert Jakowski, Daniel Heynderickx, Pablo Beltrami, and Truls-Lynne Hansen
 Space Weather Precursor Services under ESA's SSA programme

ST5.1/NH8.6 – Space Weather and its Effects on Terrestrial and Geo-Space Environments: Science and Applications (co-organized) – Posters

Convener: Norma Crosby | Co-Conveners: Mirela Voiculescu, Aleksey Dmitriev

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: Norma Crosby

- Z155 EGU2011-8403
Gerald Duma, Friedemann Freund, Max Lazarus, and Taha Rabeh
Coupled ionospheric and telluric electromagnetic fields - seismotectonic relevance
- Z156 EGU2011-1629
Oleg Shumilov, Elena Kasatkina, Vladimir Masloboev, Alexandr Kanatjev, Mauri Timonen, Kari Mielikainen, Natalia Lukina, and Irina Kirtsideli
Solar and volcanic signals in tree-rings from Kola Peninsula and Northern Lapland
- Z157 EGU2011-1630
Elena Kasatkina, Oleg Shumilov, Marja-Liisa Sutinen, Alexey Chramov, Alexey Enykeev, and Tatiana Novikova
Search for solar and lunar rhythms in suicides in European Arctic (Northwest of Russia and Finnish Lapland)
- Z158 EGU2011-10841
Tamara Breus, Yurii Gurfinkel, Vadim Ozheredov, and Tatyana Zhenchenko
The threshold effects of Space and Terrestrial weather influence on human physiological parameters
- Z159 EGU2011-4626
Tamara Breus, Vadim Ozheredov, and Vladimir Obridko
Analysis of the solar activity dynamics by the method of nonlinear singular forecasting
- Z160 EGU2011-13402
Peter Stauning
Seasonal variations in the monitoring by PCN and PCS indices of Solar Wind energy input to the Magnetosphere.
- Z161 EGU2011-10581
Consuelo Cid, Yolanda Cerrato, Walter D. Gonzalez, and Elena Saiz
A new solar wind-magnetosphere coupling function
- Z162 EGU2011-5073
Edwin Catalan, Lorena Gayarre, Oscar García, **Juan Jose Blanco**, Jose Medina, Sebastian Sanchez, Manuel Prieto, and Daniel Meziat
Castilla-La Mancha Neutron Monitor (CaLMa) GEANT4 simulations
- Z163 EGU2011-5085
Edwin Catalan, **Juan Jose Blanco**, Jose Medina, Oscar Garcia, Javier Rodriguez-Pacheco, and Miguel Angel Hidalgo
Castilla-La Mancha Neutron Monitor (CaLMa) expected response to solar events using the neutron monitor data base (NMDB)
- Z164 EGU2011-5101
Jose Medina, **Juan Jose Blanco**, Oscar García, Edwin Catalan, Daniel García, Daniel Meziat, Javier Rodriguez-Pacheco, Sebastian Sanchez, Manuel Prieto, and Miguel Angel Hidalgo
Castilla-La Mancha neutron monitor (CaLMa) status at April 2011
- Z165 EGU2011-5184
Kazi Abul Firoz, Yong-Jae Moon, Kyung-Suk Cho, Jung-A Hwang, Yong-Deuk Park, Karel Kudela, and Lev Dorman
Relationship between GLE and Solar X-ray Flare
- Z166 EGU2011-10824
Richard Boynton, Michael Balikhin, Stephen Billings, and Ping Li
Dynamical model for the evolution of Dst
- Z167 EGU2011-11701
Costel Munteanu, Stein Haaland, and Bagrat Mailyan
Improved estimation of propagation times of short-term IMF variations using minimum variance analysis and wavelet de-noising techniques
- Z168 EGU2011-9727
Aleksey Dmitriev, Alla Suvorova, and Igor Veselovsky
Magnetosphere Expansion On Recovery Phase Of Recurrent Magnetic Storms
- Z169 EGU2011-3717
Daniel Weimer and C. Robert Clauer
A new Model for Predicting Geomagnetic Perturbations
- Z170 EGU2011-12876
Kalevi Mursula, Eija Tanskanen, and Jeffrey Love
Spring-Fall asymmetry of substorm strength, geomagnetic activity and solar wind: Implications for semiannual variation and solar hemispheric asymmetry
- Z171 EGU2011-9709
Diana Besliu-Ionescu, Oana Chiricuta, Marilena Mierla, and Georgeta Maris
Study of Halloween 2003 events
- Z172 EGU2011-9691
Oana Chiricuta, Diana Besliu-Ionescu, Marilena Mierla, and Georgeta Maris
Analysis of coronal mass ejections who produced major geomagnetic storms during the period 1998-2008

- Z173 EGU2011-13645
Paolo Pagano, Adriaan van Ballegooijen, and Fabio Reale
 Modeling of unstable MHD equilibria in the solar corona and role of plasma pressure.
- Z174 EGU2011-13849
Olga Malandraki, Lun C. Tan, Donald V. Reames, and Linghua Wang
 Use of Incident and Reflected Solar Particle Beams to Trace the Topology of Magnetic Clouds
- Z175 EGU2011-12716
Norma Crosby and the SEPTEM Team
 Solar Energetic Particle Environment Modelling: the ESA SEPTEM Project

PS5.0/ST6.1 – Planetary Plasma Physics, including electrodynamics of induced magnetospheres (co-organized) – Posters

Convener: Esa Kallio | Co-Conveners: Philippe Garnier, Hermann Opgenoorth, Mark Lester

Hall Z | Display Time 08:00–19:30

Author in Attendance: 17:30–19:00

Chairperson: n.n.

- Z45 EGU2011-1065
Magda Delva, Riku Jarvinen, Esa Kallio, César Bertucci, and Christian Mazelle
 On symmetry of the Venus neutral hydrogen exosphere and PCW occurrence
- Z46 EGU2011-7659
Riku Jarvinen, Esa Kallio, Andrei Fedorov, Tielong Zhang, Stas Barabash, Sergey Dyadechkin, Pekka Janhunen, and Ilkka Sillanpää
 Energization and dawn-dusk asymmetries of the escaping pickup ions at unmagnetized planets
- Z47 EGU2011-214
Aleksey Kireev and Alexander Krymskii
 Distribution of currents and convection in the ionospheres of Venus and Mars.
- Z48 EGU2011-3834
 Tess Mcenulty, **Janet Luhmann**, Imke Depater, Tielong Zhang, Christopher Russell, Lan Jian, Yingjuan Ma, Niklas Edberg, Edik Dubinin, and Stas Barabash
 VEX Observations of Heliospheric Structures Influencing Planetary Ion Escape
- Z49 EGU2011-3979
Kei Masunaga, Yoshifumi Futaana, Masatoshi Yamauchi, Stas Barabash, Tielong Zhang, Naoki Terada, and Shoichi Okano
 Ion outflow channels around Venus controlled by IMF directions
- Z50 EGU2011-9525
Hanying Wei, Christopher T. Russell, Jillian T. M. Daniels, Tielong Zhang, Rorbert J. Strangeway, and Janet G. Luhmann
 Electromagnetic Waves observed near the Ionopause of Venus
- Z51 EGU2011-10658
Michael Zellinger, Ute Möstl, Nikolai Erkaev, and Helfried Biernat
 The Influence of Gravity on the Evolution of the Kelvin-Helmholtz Instability around Venus
- Z52 EGU2011-3494
Valeriy Tenishev, Kenneth Hansen, Michael Combi, Martin Rubin, and Tamas Gombosi
 Modeling the neutral exosphere and the energy distribution of pick-up ions of lunar origin
- Z53 EGU2011-7198
Graziella Branduardi-Raymont and the AXIOM Collaboration Team
 AXIOM: Advanced X-ray Imaging Of the Magnetosphere
- Z54 EGU2011-4393
Susan McKenna-Lawlor, Esa Kallio, and Riku Jarvinen
 Magnetic shadowing of high energy ions at Mars: SLED/Phobos-2 observations and hybrid model simulations
- Z55 EGU2011-4397
Esa Kallio and Stas Barabash
 Magnetized Mars: Spatial distribution of oxygen ions
- Z56 EGU2011-7784
Sergey Dyadechkin, Esa Kallio, Riku Jarvinen, and Pekka Janhunen
 Curvilinear coordinate introduction in the HYB hybrid model
- Z57 EGU2011-262
Catherine Dieval, Stas Barabash, Hans Nilsson, Gabriella Stenberg, Yoshifumi Futaana, Mats Holmström, Andrei Fedorov, and Rudy Frahm
 A statistical study of proton precipitation at Mars
- Z58 EGU2011-4303
Yasubumi Kubota, Kiyoshi Maezawa, and Hidekatsu Jin
 The tail formation and ion escape processes for the Martian ionosphere: The comparison between no IMF case and finite IMF cases

- Z59 EGU2011-5915
Ronan Modolo, Marco Mancini, Francois Leblanc, Gerard Chanteur, Manabu Yagi, and Jean-Yves Chaufray
 Modeling of the solar wind interaction with Mars: first results of high spatial resolution hybrid simulations.
- Z60 EGU2011-10085
Emilie Richer, Gérard M. Chanteur, Ronan Modolo, and Eduard Dubinin
 Properties of reflected Solar Wind protons on the Martian Bow Shock: investigations by means of 3-dimensional simulations
- Z61 EGU2011-5494
Chia-Yu Tzou, Norbert Krupp, and Wing-Huen Ip
 Energetic Particle Injection Events in the Saturnian Magnetosphere
- Z62 EGU2011-10818
Philippe Garnier, Jan-Erik Wahlund, Madeleine Holmberg, Michiko Morooka, Donald Gurnett, and William Kurth
 Impact of energetic electrons on the Cassini RPWS Langmuir probe at Saturn
- Z63 EGU2011-7609
Zoltan Nemeth, Karoly Szego, Geza Erdos, Lajos Foldy, and Zsofia Bebesi
 The formation of plasma structures in the magnetodisk of Saturn
- Z64 EGU2011-9086
 Katherine Ramer, **Margaret Kivelson**, and Nick Sergis
 Force Balance in Saturn's Ring Current
- Z65 EGU2011-2745
Ilkka Sillanpää, Robert Johnson, Esa Kallio, and Riku Jarvinen
 New Ion Impact Simulations for Titan
- Z66 EGU2011-1356
Niklas Edberg, Karin Ågren, Jan-Erik Wahlund, Michiko Morooka, David Andrews, Stan Cowley, Anne Wellbrock, Andrew Coates, Cesar Bertucci, and Michele Dougherty
 Observations of a structured ionospheric outflow plume at Titan
- Z67 EGU2011-4744
Sergey Zhdanov and Gregor Morfill
 Diagnostics of naturally excited waves in a dynamically active complex (dusty) plasma
- Z68 EGU2011-6612
 Christiane Helling, **Aline A. Vidotto**, and Moria Jardine
 Bow-shocks in transit observations of extrasolar planets

Friday, 08 April

NP6.1 – Mixing, Diffusion and Lagrangian transport in Geophysical Flows. (co-listed) – Orals

Convener: Pilar López González-Nieto | Co-Conveners: Jose M. Redondo, Joe LaCasce, Kristofer Döös, Maria Josefina Olascoaga, Gyorgy Karolyi, Arthur Mariano

Room: 13

Chairperson: Jose M. Redondo

- 08:30–08:45 EGU2011-212
Claudia Cherubini
Modeling approaches for fluid flow and pollutant propagation in a fractured and karst limestone
- 08:45–09:00 EGU2011-5562
Birgit Futterer, Florian Zaussinger, Christoph Egbers, and Nicoleta Scurtu
Variation of viscosity contrast for convection experiments in spherical shells as part of geophysical flow simulation experiment 'GeoFlow II'
- 09:00–09:15 EGU2011-1376
Andrew Jackson, Barbara Turnbull, and Richard Munro
Scaling Laws for Lobe and Cleft Patterns at the Front of Particle-Laden Gravity Currents
- 09:15–09:30 EGU2011-7774
Maristella Berta, Annalisa Griffa, Angelique C. Haza, and Laura Ursella
Surface transport in coastal and open-sea areas of the Adriatic Sea from Finite-Scale Lyapunov Exponents
- 09:30–09:45 EGU2011-3778
Francesco Nencioli, Francesco d'Ovidio, Andrea M. Doglioli, and Anne A. Petrenko
Real-time in-situ tracking of Lagrangian coherent structures in a coastal region
- 09:45–10:00 EGU2011-7984
Sandy Koch, Uwe Harlander, Rainer Hollerbach, and Christoph Egbers
Laboratory experiment of inertial wave-interactions in a rotating spherical shell

NP6.1 – Mixing, Diffusion and Lagrangian transport in Geophysical Flows. (co-listed) – Posters

Convener: Pilar López González-Nieto | Co-Conveners: Jose M. Redondo, Joe LaCasce, Kristofer Döös, Maria Josefina Olascoaga, Gyorgy Karolyi, Arthur Mariano

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: Ana Tarquis

- XY369 EGU2011-755
Samuel Marshall and Peter Read
An Investigation into Variable Topography in a Baroclinic Annulus
- XY370 EGU2011-13341
Ana Maria Tarquis, Pilar López-Gonzalez-Nieto, and Jose Manuel Redondo
Time Evolution of the Fractal Dimension in Turbulent Plumes
- XY371 EGU2011-751
Aliya Tairova, Georgiy Belyakov, Nicolay Baryshnikov, and Sergey Turuntaev
Filtration and sedimentation in the channel with permeable walls
- XY372 EGU2011-1708
Chih-Yu Kuo, Li-Tsung Sheng, Shang-Yu Chiu, Yih-Chin Tai, and Shu-San Hsiau
The streamwise solid volume fraction of parallel accelerating dry granular flows and the evolution of the fraction across normal granular shocks
- XY373 EGU2011-2135
Valentina Lombardi, Claudia Adduce, Giampiero Sciortino, and Michele La Rocca
Gravity currents moving on smooth and rough beds
- XY374 EGU2011-2590
Florian Zaussinger
Semiconvection
- XY375 EGU2011-11727
Sebastian Borchert, Felix Rieper, Ulrich Achatz, and **Mark Fruman**
A finite-volume model of the differentially heated rotating annulus with implicit sub-gridscale turbulence parameterization
- XY376 EGU2011-7011
Helena I. S. Nogueira, Claudia Adduce, Elsa Alves, and Mário J. Franca
Analysis of the entrainment on lock-exchange density currents

- XY377 EGU2011-8214
Andrew Thompson and Jean-Baptiste Sallee
Cross-Front Transport Near Topographically-Induced Jet Transitions
- XY378 EGU2011-1885
Colin Cotter and Greg Pavliotis
Eddy parameterisations from data-driven coarse-graining of Lagrangian trajectories
- XY379 EGU2011-6897
Tarmo Soomere, Oleg Andrejev, Kai Myrberg, and Alexander Sokolov
Quantification of the potential of offshore areas in terms of Lagrangian transport of danger to vulnerable regions
- XY380 EGU2011-2414
Stefan Riha and Álvaro Júdice Peliz
Tracing the Mediterranean Outflow back into the Alboran Sea: A numerical modeling study
- XY381 EGU2011-7931
Paul Williams, Peter Read, and Thomas Haine
Testing the limits of quasi-geostrophic theory

ST3.2 – Ionospheric response to forcing from above and below – Orals

Convener: Dalia Buresova | Co-Conveners: Olaf Amm, Dora Pancheva

Room: 29

Chairperson: n.n.

- 08:30–08:45 EGU2011-5159
Ryoichi Fujii, Olaf Amm, Akimasa Yoshikawa, Akimasa Ieda, and Heikki Vanhamäki
Reformulation and energy flow of the Cowling channel
- 08:45–09:00 EGU2011-7263
Robert Fear and Steve Milan
The formation of transpolar arcs
- 09:00–09:15 EGU2011-9333
Bodo W. Reinisch and Ivan Galkin
Simultaneous global radio observations of the ionosphere for assessment of forces from below and above
- 09:15–09:30 EGU2011-5539
Dimitry Pokhotelov, Cathryn N Mitchell, Michael H Denton, and Thayyil P Jayachandran
Polar cap dynamics during geomagnetic storms: large-scale ionospheric response
- 09:30–09:45 EGU2011-2768
Astrid Maute and Arthur Richmond
Aspects of modeling the high-latitude magnetosphere-ionosphere energy transfer
- 09:45–10:00 EGU2011-8884
Jeffrey M. Forbes, Xiaoli Zhang, and Gordon Shepherd
Longitudinal Variations in the OI 5577A Green-Line Emission Observed by UARS/WINDII

COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2011-8839
Stanley C. Solomon and Liying Qian
Causes of Low Thermospheric Density During the 2007-2009 Solar Minimum
- 10:45–11:00 EGU2011-3770
John Emmert, Judith Lean, Michael Picone, Robert Meier, and Douglas Drob
Inter-cycle minima differences in thermospheric mass density, exospheric temperature, and ionospheric total electron content
- 11:00–11:15 EGU2011-12469
Eduardo Araujo-Pradere, Robert Redmon, and Tim Fuller-Rowell
Comparative Study of the Global Ionospheric Behavior During Solar Cycle 22-23 and 23-24 Minima
- 11:15–11:30 EGU2011-4085
Eelco Doornbos and Hermann Lühr
Evaluation of empirical thermosphere density models using accelerometer observations during the recent solar minimum
- 11:30–11:45 EGU2011-4877
Jiuhou Lei, Jeffrey P. Thayer, Xinan Yue, and S. Tulasi Ram
Ionosphere and thermosphere variability during the solar minimum of solar cycles 23/24

11:45–12:00 EGU2011-13731

Robert Pfaff, Henry Freudenreich, and Jeffrey Klenzing

DC electric fields, magnetic fields, and plasma waves observed on the C/NOFS satellite

ST3.2 – Ionospheric response to forcing from above and below – Posters

Convener: Dalia Buresova | Co-Conveners: Olaf Amm, Dora Pancheva

Hall Z | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Olaf Amm

Z106 EGU2011-258

Chao Xiong and Hermann Lühr

Comparing electron density between IRI-2007 and CHAMP, GRACE observation during recent solar minimum

Z107 EGU2011-389

Huijun Le, Jann-Yenq Liu, and Libo Liu

A statistical analysis of ionospheric anomalies before 736 M > 6.0 earthquakes during 2002-2010

Z108 EGU2011-401

Yiding Chen, Libo Liu, and Weixing Wan

Can F10.7 Index Well Present Solar EUV Flux during Current Deep Solar Minimum?

Z109 EGU2011-3218

Christina Arras, Plamen Mukhtarov, Dora Pancheva, Christoph Jacobi, and Jens Wickert

Comparison of low-latitude sporadic E layer occurrence with tidal parameters obtained from SABER measurements

Z110 EGU2011-3876

Jesper Gjerloev and Robert Hoffman

Response of the Ionospheric Current System to Southward IMF Turnings

Z111 EGU2011-5012

Olaf Amm, Rumi Nakamura, Taku Takada, Kirsti Kauristie, Harald U. Frey, Christopher J. Owen, Anita Aikio, and Ritva Kuula

Modeling of ionospheric signatures of an auroral streamer during a double oval situation

Z112 EGU2011-6328

Dalia Buresova, Jan Lastovicka, and Josef Boska

Ionospheric F2 layer behavior during prolonged solar minimum

Z113 EGU2011-6342

Tatsuo Onishi and Jean-Jacques Berthelier

Numerical simulation of ionospheric disturbances associated with daytime MSTIDs

Z114 EGU2011-6817

Bjørn Lybekk, Arne Pedersen, **Stein Haaland**, Knut Svenes, Arnaud Masson, Matthew Taylor, and Andrew Fazakerley

Solar cycle variations of the Cluster spacecraft potential and its use for electron density estimations

Z115 EGU2011-12698

Katerina Podolska, Vladimir Truhlik, and Ludmila Triskova

Conditional Dependence of Main Ionospheric Characteristics and Solar and Geomagnetism Indices

Z116 EGU2011-13068

Ludmila Triskova, Vladimir Truhlik, and Katerina Podolska

Manifestation of forcing from below in the day-to-day correlation of mid latitude foF2 and the F10.7 index

ST3.4 – Advance in ionospheric research by incoherent scatter radars, related radio methods and novel large observational systems – Orals

Convener: Esa Turunen | Co-Conveners: Yasunobu Ogawa, Ingemar Häggström

Room: 29

Chairperson: Yasunobu Ogawa

13:30–13:45 EGU2011-13425

Anna Belehaki, Mike Hapgood, and Esa Turunen

ESPAS: The near-Earth space data infrastructure for e-Science

13:45–14:00 EGU2011-5665

Dimitry Pokhotelov, Olaf Amm, Johannes Norberg, Kirsti Kauristie, Markku Lehtinen, and Juha Vierinen

High-resolution multi-frequency ionospheric tomography in Scandinavia

14:00–14:15 EGU2011-10624

Antti Kero, Carl-Fredrik Enell, Esa Turunen, Ingemar Häggström, and Pekka Verronen

The high-latitude D-region ionosphere as seen by the EISCAT Svalbard continuous 1-year IPY radar experiment

- 14:15–14:30 EGU2011-13754
Bo Thidé and Fabrizio Tamburini
 Probing Space with Radio and Radar Methods Based on Newly Recognised Symmetries of the Electromagnetic Field
- 14:30–14:45 EGU2011-11452
Ian McCre, Esa Turunen, and The EISCAT_3D Project Team
 Status and future plans of the EISCAT_3D Preparatory Phase Study
- 14:45–15:00 EGU2011-13062
Derek McKay and The KAIRA Project Team
 KAIRA - Kilpisjärvi Atmospheric Imaging Receiver Array

ST3.4 – Advance in ionospheric research by incoherent scatter radars, related radio methods and novel large observational systems – Posters

Convener: Esa Turunen | Co-Conveners: Yasunobu Ogawa, Ingemar Häggström

Hall Z | Display Time 08:00–17:00

Author in Attendance: 15:30–17:00

Chairperson: Esa Turunen

- Z117 EGU2011-5434
Yasunobu Ogawa, Genta Ueno, and Ingemar Häggström
 Investigations of the upper polar atmosphere by incoherent scatter plasma line observations
- Z118 EGU2011-10861
Hannah Vickers and Lisa Baddeley
 An alternative estimation of the RF-enhanced plasma temperature during SPEAR artificial heating experiments
- Z119 EGU2011-13106
Derek McKay-Bukowski and The KAIRA Project Team
 Lateral Thinking - Sharing Technology Across Disciplines
- Z120 EGU2011-11896
Biagio Forte, Esa Turunen, and Ingemar Häggström
 On the advantage of EISCAT(3D) measurements in technological applications
- Z121 EGU2011-4196
Christos Haldoupis
 Solar flare effects on the Earth's ionosphere as measured by the Arecibo incoherent scatter radar
- Z122 EGU2011-13753
Tony van Eyken, Craig Heinselman, Esa Turunen, and Ingemar Häggström
 Coordinated Incoherent Scatter Radar operations to advance STP System Science

ST4.1/PS10.1 – Theory and simulations of solar system plasmas (co-organized) – Orals

Convener: Jörg Büchner | Co-Conveners: Manfred Leubner, Gérard Belmont

Room: 31

Chairperson: Gerard Belmont

- 13:30–13:45 EGU2011-8295
Michael Hesse, Seiji Zenitani, and Joachim Birn
 An Analytic Theory of Reconnection in MHD
- 13:45–14:00 EGU2011-12409
Marco Velli
 Coronal Heating and Solar Wind Models: Tests with Solar Probe Plus and Solar Orbiter
- 14:00–14:15 EGU2011-7986
 Melvyn Goldstein and **Arcadi Usmanov**
 Theory and Simulation of Solar Wind Turbulence
- 14:15–14:30 EGU2011-9712
Roland Grappin and Gerard Belmont
 Is there a turbulent cascade in the solar wind?
- 14:30–14:45 EGU2011-1556
Lev Zelenyi, Anton Artemyev, Anatolii Petrukovich, and Rumi Nakamura
 Magnetotail thermal electrons as tracers of thin current sheets fine structure.
- 14:45–15:00 EGU2011-3875
 Tom Chang and **Cheng-chin Wu**
 Roma (Rank-Ordered Multifractal Analysis) of Intermittency in Space Plasmas

Chairperson: Gerard Belmont

- 15:30–15:45 EGU2011-14162
Sven Bingert and Hardi Peter
Coronal heating and dynamics in a 3D magneto-hydrodynamic model
- 15:45–16:00 EGU2011-13470
Richard D. Sydora, Keizo Fujimoto, and Konrad Sauer
Whistler and Alfven-Whistler Mode Emission from Magnetically Reconnecting Current Layers
- 16:00–16:15 EGU2011-3
Ilan Roth
Power-law Distributions in Homogeneous Plasmas - Statistical Approach
- 16:15–16:30 EGU2011-2936
Pierre-Louis Sulem, Thierry Passot, Luca Marradi, and Dimitri Laveder
Turbulence-driven temperature anisotropy and constraining effects of the mirror instability in FLR-Landau fluid simulations
- 16:30–16:45 EGU2011-5765
Iku Shinohara and Masaki Fujimoto
Electron acceleration at a quasi-perpendicular shock: Results of a 3-D full particle simulation
- 16:45–17:00 EGU2011-6837
Håkan Smith, Eckart Marsch, and Per Helander
Numerical simulations of electron transport in the solar wind

ST4.1/PS10.1 – Theory and simulations of solar system plasmas (co-organized) – Posters

Convener: Jörg Büchner | Co-Conveners: Manfred Leubner, Gérard Belmont

Hall Z | Display Time 08:00–17:00

Author in Attendance: 10:30–12:00

Chairperson: Gerard Belmont

- Z123 EGU2011-1283
Etienne Koen, Andrew Collier, and Shimul Maharaj
Simulating chorus generation via Particle-in-cell simulations
- Z124 EGU2011-1492
Roberto Soler, Ramon Oliver, and Jose Luis Ballester
Magnetohydrodynamic waves in partially ionized astrophysical plasmas: Application to oscillations in solar prominences
- Z125 EGU2011-3271
Daniil Korovinskiy, Viktoria Ivanova, Nikolay Erkaev, Vladimir Semenov, Ivan Ivanov, and Helfried Biernat
Magnetic double gradient instability in a compressible plasma current sheet
- Z126 EGU2011-4627
Filiz Türk Katircioglu, Nick Omid, David Sibeck, and **Zerefsan Kaymaz**
Magnetosheath Cavities in Hybrid Simulations
- Z127 EGU2011-5022
Alexey Isavnin, Emilia K. J. Kilpua, and Hannu E. J. Koskinen
Grad-Shafranov reconstruction of magnetic clouds at 1 AU
- Z128 EGU2011-6296
Ilja Honkonen, Arto Sandroos, and Minna Palmroth
Towards a global hybrid Vlasov magnetospheric model: A test particle simulation
- Z129 EGU2011-6777
Andrei M. Sadovski
Properties of the ion distribution function with velocity space holes
- Z130 EGU2011-8300
Rui Pinto, Laurène Jouve, Sacha Brun, and Roland Grappin
Coupling the solar dynamo and the corona: wind properties, mass and momentum losses during an activity cycle
- Z131 EGU2011-8496
Jörg Büchner
The dynamic solar corona - simulation results for solar spacecraft missions
- Z132 EGU2011-9747
Roland Grappin, Andrea Verdini, and Wolf-Christian Müller
Anisotropy in MHD turbulence with mean field: zero parallel cascade?
- Z133 EGU2011-9893
Herbert Gunell, Johan De Keyser, and Emmanuel Gamby
Vlasov simulations of magnetic field-aligned potential drops
- Z134 EGU2011-10300
Patrick Guio and Arnaud Zaslavsky
Effects of density inhomogeneities on the statistics of Langmuir waves in the solar wind

- Z135 EGU2011-11050
Rui Pinto and Roland Grappin
Alfvén wave driven polar plumes: dependence on the chromospheric conditions
- Z136 EGU2011-11555
Miroslav Bárta and Jörg Büchner
Fragmentation of CME-generated current sheets via cascading reconnection
- Z137 EGU2011-11800
Gabriel Voitu, Marius Echim, and Richard Marchand
Comparative study of forward and backward test-kinetic simulations to investigate anisotropic velocity distribution functions
- Z138 EGU2011-13374
Nicolas Aunai and **Gerard Belmont**
Kinetic mechanisms underlying the fluid description of the ions in magnetic reconnection
- Z139 EGU2011-14163
Lin-Ni Hau and B-j Wang
Generation of Nonlinear Magnetic Disturbances in the Solar Wind
- Z140 EGU2011-11513
DongSheng Cai, Bertrand Lembedge, Ken-ichi Nishikawa, and Amin Esmaeili
Deformation of the cusp boundary during the IMF rotation from Northward to Southward : 3-D PIC large scale simulation
- Z141 EGU2011-12290
Andrey Divin, Stefano Markidis, Nikolay Erkaev, Vladimir Semenov, and Giovanni Lapenta
Structure of electron diffusion region of collisionless magnetic reconnection: theory and simulations.
- Z142 EGU2011-2825
Laurent Muschietti and Bertrand Lembedge
Microturbulence in Front of a Supercritical Shock: Stimulation and Inverse Cascade of Waves in the Electron Cyclotron Frequency Range
- Z143 EGU2011-9452
Alexander Volokitin, Vladimir Krasnoselskikh, and Eugeny Kuznetsov
Langmuir waves excited by an electron beam in plasma with density fluctuations
- Z144 EGU2011-3535
Gérard Belmont and Nicolas Aunai
Ion kinetic equilibrium for magnetopause-like tangential layers
- Z145 EGU2011-647
Daniel Verscharen and Eckart Marsch
Compressive high-frequency waves riding on an Alfvén-cyclotron wave in a multi-fluid plasma

PS5.0/ST6.1 – Planetary Plasma Physics, including electrodynamics of induced magnetospheres (co-organized) –

Orals

Convener: Esa Kallio | Co-Conveners: Philippe Garnier, Hermann Opgenoorth, Mark Lester

Room: 30

Chairperson: n.n.

- 08:30–08:45 EGU2011-1675
Tielong Zhang and Wolfgang Baumjohann
Venus Express Magnetic Observations of the Venus Magnetotail
- 08:45–09:00 EGU2011-2416
Eduard Dubinin, Markus Fraenz, Joachim Woch, Tielong Zhang, Stas Barabash, Rickard Lundin, and Andrey Fedorov
New (or well forgotten) type of induced magnetosphere is observed at Venus
- 09:00–09:15 EGU2011-11090
Anne Angsmann, Markus Fraenz, Edik Dubinin, Joachim Woch, Stas Barabash, Tielong Zhang, and Uwe Motschmann
Magnetic states of the ionosphere of Venus
- 09:15–09:30 EGU2011-1325
Niklas Edberg and the Mars & Venus atmospheric escape Team
Atmospheric escape from Venus and Mars during rough space weather
- 09:30–09:45 EGU2011-2326
Rickard Lundin
Implications of solar wind forcing on the Venus polar ionosphere and thermosphere
- 09:45–10:00 EGU2011-13308
Marius M. Echim, Tielong Zhang, Dragos Constantinescu, and Tom Chang
Comparative study of magnetosheath intermittent turbulence at Venus and Earth
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COFFEE BREAK

Chairperson: n.n.

- 10:30–10:45 EGU2011-4086
Yoshifumi Saito, Shoichiro Yokota, Masaki Nishino, Tadateru Yamamoto, Kota Uemura, and Hideo Tsunakawa
 Interaction between the Moon and the Earth's magnetosphere observed by MAP-PACE on Kaguya
- 10:45–11:00 EGU2011-305
Masaki N. Nishino, Xiao-Dong Wang, Masaki Fujimoto, Hideo Tsunakawa, Yoshifumi Saito, Shoichiro Yokota, Wei Bian, Chun-Lai Li, and Toshio Terasawa
 Anomalous deformation of the Earth's bow shock in the lunar wake: Joint observations by Chang'E-1 and SELENE
- 11:00–11:15 EGU2011-695
Shahab Fatemi, Mats Holmström, and Yoshifumi Futaana
 Modeling the solar wind proton velocity space distribution function in the near lunar wake
- 11:15–11:30 EGU2011-5563
Shoichiro Yokota, Yoshifumi Saito, Kazushi Asamura, Masaki Nishino, Hideo Tsunakawa, Hidetoshi Shibuya, Masaki Matsushima, Hisayoshi Shimizu, and Futoshi Takahashi
 Structure and variation of the lunar exosphere
- 11:30–11:45 EGU2011-11431
Gabriella Stenberg, Hans Nilsson, Yoshifumi Futaana, Stas Barabash, Andrei Fedorov, and Dave Brain
 On the Helium balance in the Martian atmosphere
- 11:45–12:00 EGU2011-10116
G rard M. Chanteur, Ronan Modolo, and Eduard Dubinin
 Dynamics of Solar Wind Helium ions in the Martian environment

LUNCH BREAK

Chairperson: n.n.

- 13:30–13:45 EGU2011-11179
Hermann Opgenoorth, Niklas Edberg, Mark Lester, Anthony Williams, Markus Fr nz, David Morgan, and Olivier Witasse
 Mars Ionospheric and Magnetospheric Response to Solar Wind Variability
- 13:45–14:00 EGU2011-8774
David Morgan, Donald Gurnett, Paul Withers, Erling Nielsen, Martin Paetzold, and Cyril Grima
 Estimate of the Total Electron Content of the Martian Ionospheric M1 Layer from Mars Express Ionospheric Sounding
- 14:00–14:15 EGU2011-6192
Frantisek Nemec, David D. Morgan, Donald A. Gurnett, Firdevs Duru, and David A. Brain
 Martian ionosphere observed by MARSIS: identification of plasma origin
- 14:15–14:30 EGU2011-6431
Markus Fr nz, Eduard Dubinin, Erling Nielsen, Anne Angsmann, Joachim Woch, Stas Barabash, Rickard Lundin, Andrei Fedorov, and Tielong Zhang
 Trans-terminator flow in the ionospheres of Mars and Venus
- 14:30–14:45 EGU2011-12488
Mathew Beharrell and Jim Wild
 MGS observations of the magnetic field draping around Mars
- 14:45–15:00 EGU2011-9374
 Valery Shematovich, Dmitri Bisikalo, **Stas Barabash**, Catherine Dieval, and Gabriella Stenberg
 Monte Carlo modelling of the protons and hydrogen atoms transport in the Martian upper atmosphere

NP6.4/ST6.4 – Astrophysical Turbulence, Shocks and Plasmas (co-organized) – Orals

Convener: Luca Sorriso-Valvo | Co-Conveners: Jose M. Redondo

Room: 13

Chairperson: Luca Sorriso-Valvo

- 10:30–10:45 EGU2011-5381
Jiansen He, Chuanyi Tu, Eckart Marsch, Shuo Yao, and Hui Tian
 Two-component magnetic helicity for two-component turbulent fluctuations

- 10:45–11:00 EGU2011-12663
Fouad Sahraoui, Melvyn L. Goldstein, Gerard Belmont, and Alessandro Retinò
 Three dimensional anisotropic k-spectra of turbulence at sub-proton scales in the solar wind
- 11:00–11:15 EGU2011-2313
André Balogh and Silvia Perri
 Variations of the residual energy parameter in the solar wind on different scales and in different types of heliospheric flows observed by Ulysses
- 11:15–11:30 EGU2011-3900
 Xochitl Blanco-Cano, Ernesto Aguilar-Rodriguez, Primož Kajdič, **Christopher Russell**, Lan Jian, and Janet Luhmann
 Interplanetary Shocks observed by STEREO
- 11:30–11:45 EGU2011-2254
Ersilia Leonardis, Sandra Chapman, and Claire Foullon
 The spatio-temporal characteristics of magnetohydrodynamic turbulence seen in quiescent solar prominences by HINODE/SOT
- 11:45–12:00 EGU2011-12156
Sergey Savin, Ermanno Amata, Vyacheslav Budaev, David Sibeck, Vassilis Angelopoulos, Volt Lutseko, Jana Safrankova, Zdenek Nemecek, Jan Bleck, and Vladimir Krasnoselskikh
 Nonlocal interactions in the Earth magnetosheath: supersonic coherent structures as drivers of anomalous dynamics and intermittent turbulence

NP6.4/ST6.4 – Astrophysical Turbulence, Shocks and Plasmas (co-organized) – Posters

Convener: Luca Sorriso-Valvo | Co-Conveners: Jose M. Redondo

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: Luca Sorriso-Valvo

- XY382 EGU2011-5045
Khurom Kiyani, Fouad Sahraoui, Sandra Chapman, Yuri Khotyaintsev, and Bogdan Hnat
 Magnetic compressibility and Isotropic Scale-Invariant Dissipation of Solar Wind Turbulence
- XY383 EGU2011-3487
Bogdan Hnat, Sandra Chapman, and Khurom Kiyani
 Evidence for a single stochastic physical process for fast solar wind magnetic field magnitude fluctuations at 1AU across turbulent and 1/f temporal scales
- XY384 EGU2011-8085
Olga Alexandrova, Catherine Lacombe, and Andre Mangeney
 Magnetic turbulence spectrum at electron scales in the solar wind
- XY385 EGU2011-11765
Raffaele Marino, Luca Sorriso-Valvo, Vincenzo Carbone, Roberto Bruno, Pierluigi Veltri, and Alain Noullez
 The magnetohydrodynamic turbulent cascade in polar solar wind: the role of local dynamic alignment
- XY386 EGU2011-7867
 Luca Sorriso-Valvo, **Emiliya Yordanova**, Vincenzo Carbone, and Silvia Perri
 Multipoint measurement of solar wind turbulence anisotropy by Cluster
- XY387 EGU2011-5619
Silvia Perri, Vincenzo Carbone, and Pierluigi Veltri
 On the break of fluid-like turbulence: solar wind observations
- XY388 EGU2011-8562
Andriy Koval and Adam Szabo
 Magnetic field turbulence spectra observed by Wind from 1994 to 2010
- XY389 EGU2011-3473
Hans-Jörg Fahr and Mark Siewert
 Solar wind bulk velocity fluctuations inducing ion power law distributions
- XY390 EGU2011-8599
Gaetano Zimbardo and Giuseppe Nistico
 Collisionless shocks in the solar corona: a mechanism for preferential heating of heavy ions
- XY391 EGU2011-3572
David Burgess and Enrico Camporeale
 The dissipation of solar wind turbulent fluctuations at electron scales: Simulations
- XY392 EGU2011-8727
Zoltan Voros, Manfred Leubner, Tielong Zhang, Martin Volwerk, Andrea Opitz, and Roberto Bruno
 Radial versus temporal evolution of fast stream turbulence in the solar wind
- XY393 EGU2011-6645
Hervé Lamy, Marius Echim, and Tom Chang
 Application of Rank-Ordered Multifractal Analyses (ROMA) to intermittent magnetic fluctuations in the Earth's magnetospheric cusp and in the high-speed solar wind.

NP6.6/ST6.5 – Magnetic reconnection and turbulence in Space, Laboratory and Astrophysical Systems (co-organized) – Orals

Convener: Giovanni Lapenta | Co-Conveners: Alex Lazarian

Room: 13

Chairperson: Lapenta, Lazarian

- 15:30–15:45 EGU2011-2666
Giovanni Lapenta and Lapo Bettarini
 Effects of turbulent reconnection on the evolution of dipolarisation fronts in the Earth magnetotail.
- 15:45–16:00 EGU2011-12381
Alexander Lazarian
 Diffusion of magnetic field and plasmas enabled by magnetic reconnection
- 16:00–16:15 EGU2011-6418
Zoltan Voros, Martin Volwerk, Manfred Leubner, Wolfgang Baumjohann, Tielong Zhang, and Andrei Runov
 Magnetic reconnection associated fluctuations in the deep magnetotail: ARTEMIS results
- 16:15–16:30 EGU2011-11005
Andrey Divin, Giovanni Lapenta, Stefano Markidis, David Newman, and Martin Goldman
 Electron holes at magnetic reconnection separatrices: the role of streaming instabilities.
- 16:30–16:45 EGU2011-10913
 Mats André, Gabriella Stenberg, Andris Vaivads, **Yuri Khotyaintsev**, Alessandro Retinò, and Elizabeth Lucek
 Magnetic reconnection in a turbulent space plasma: Cluster multi-spacecraft observations in the magnetosheath
- 16:45–17:00 EGU2011-12774
Grzegorz Kowal, Alex Lazarian, Ethan Vishniac, and Katarzyna Otmianowska-Mazur
 Numerical Testing of Magnetic Reconnection in the Presence of Turbulence

NP6.6/ST6.5 – Magnetic reconnection and turbulence in Space, Laboratory and Astrophysical Systems (co-organized) – Posters

Convener: Giovanni Lapenta | Co-Conveners: Alex Lazarian

Halls X/Y | Display Time 08:00–17:00

Author in Attendance: 13:30–15:00

Chairperson: Divin, Kowal

- XY394 EGU2011-4460
Haoyu Lu and Jinbin Cao
 Study on Switch-off Magnetic Reconnection Due to the Parallel Shear Flow
- XY395 EGU2011-2676
Pierre Henri, Giovanni Lapenta, Stefano Markidis, Lapo Bettarini, Stefan Eriksson, Laila Andersson, Martin Goldman, and David Newman
 Kinetic Study of Asymmetric Magnetic Reconnection
- XY396 EGU2011-2673
Stefano Markidis, Martin Goldman, Giovanni Lapenta, Pierre Henry, David Newman, Laila Andersson, Maria Elena Innocenti, and Andrey Divin
 Role of Instabilities in Kinetic Magnetic Reconnection
- XY397 EGU2011-10232
Yuri Khotyaintsev, Christopher Cully, Andris Vaivads, Mats André, and Christopher J. Owen
 Whistler-mode Waves and Non-Adiabatic Electrons in Plasma Jet Braking
- XY398 EGU2011-12500
Konrad Bajer and Krzysztof Mizerski
 Enhancement of turbulence by elliptical instability with background rotation
- XY399 EGU2011-13226
Andrey Beresnyak
 Basic Properties of MHD Turbulence

