EGU General Assembly 2011
Programme Group Programme
PS – Planetary & Solar System Sciences

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

GM10.1 – Planetary Geomorphology (co-listed) – Orals
Convener: Susan Conway | Co-Conveners: Matthew Balme, Colman Gallagher
Room: 21
Chairperson: Susan Conway

08:30–08:45 EGU2011-11739
Stéphane Pochat and Nicolas Loget
Origin of martian valleys : some highlights by geomorphic and hydraulic properties.

08:45–09:00 EGU2011-1604
Benjamin Black, Taylor Perron, Sarah Drummond, and Devon Burr
Amount of Erosional Exhumation on Titan Inferred from Drainage Network Morphology

09:00–09:15 EGU2011-6999
Kate Goddard, Sanjeev Gupta, Alexander Densmore, Jung-Rack Kim, Nicholas Warner, Patrice Carbonneau, and Jan-Peter Muller
Sediment Fan Evolution and Hydrologic Activity in Mojave Crater, Mars

09:15–09:30 EGU2011-11115
William Poole, Jan-Peter Muller, and Peter Grinrod
Surface roughness mapping from multi-resolution DTMs for landing site selection

09:30–09:45 EGU2011-338
Gro Pedersen and James Head
Evidence of widespread degraded Amazonian-aged ice-rich deposits in the transition between Elysium Rise and Utopia Planitia, Mars: Guidelines for the recognition of degraded ice-rich materials

09:45–10:00 EGU2011-953
Thomas Appéré, Bernard Schmitt, Yves Langevin, Aymeric Spiga, Sylvain Douté, Antoine Pommerol, François Forget, Brigitte Gondet, and Jean-Pierre Bibring
Peculiar Phenomena of Sublimating Seasonal Deposits During Northern Spring on Mars

GM10.1 – Planetary Geomorphology (co-listed) – Posters
Convener: Susan Conway | Co-Conveners: Matthew Balme, Colman Gallagher
Hall A | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: Susan Conway

A210 EGU2011-1052
Samantha K. Harrison, Matthew R. Balme, Alex Hagermann, and John B. Murray
Observation and interpretation of an inverted channel feature in the middle member of the Medusae Fossae Formation

A211 EGU2011-13602
Kyeong Park, Jungrack Kim, and Hyewon Yun
The investigation of yardang field over Medusa Fossae Formation by the very high resolution stereo topography

A212 EGU2011-1310
Davide Baioni and Forese Carlo Wezel
Karst landforms on an evaporite dome in northern Coprates Chasma, Mars: similarities with Earth karst.

A213 EGU2011-5750
Maria Teresa Brunetti, Goro Komatsu, Paolo Mancinelli, Kazuhisa Goto, Michele Santangelo, Hitoshi Saito, Federica Fiorucci, Mauro Cardinali, and Fausto Guzzetti
Detection, mapping, classification, and statistics of mass movements on Mars

A214 EGU2011-13467
Balázs Székely, Peter Dorninger, Josef Jansa, Tomaž Podobnikar, Zsófia Koma, Dalma Trosits, and Melinda Dósa
Martian and Terrestrial debris slopes: Automated recognition attempts using a multi-method approach

A215 EGU2011-7091
Dennis Reiss, **Jan Raack**, Angelo P. Rossi, Gaetano di Achille, and Harald Hiesinger
First in situ analysis of dust devil tracks on Earth and their comparison with tracks on Mars

A216 EGU2011-10710
Jan Raack, Dennis Reiss, and Harald Hiesinger
Bright Dust Devil Tracks on Earth: Implications for their Formation on Mars.

A217 EGU2011-8336
Thomas Cornet, Olivier Bourgeois, Stéphane Le Mouélic, Sébastien Rodriguez, Christophe Sotin, Jason W. Barnes, Robert H. Brown, Kevin H. Baines, Bonnie J. Buratti, Roger N. Clark, and Philip D. Nicholson
Geology and Temporal Survey of Ontario Lacus on Titan from 2005 to 2009.

A218 EGU2011-13503
Flora Paganelli, Robert Pappalardo, Gerald Schubert, Randolph Kirk, and The Cassini RADAR Science Team
Structural patterns on Titan identified using Cassini SAR PCA

A219 EGU2011-6489
Matthew Balme, Colman Gallagher, William Hartmann, and David Rothery
Morphologies associated with small impact crater clusters in the Western Elysium Planitia region of Mars.

A220 EGU2011-8692
Susan Conway and Nicolas Mangold
Observations and Modelling on Crater Shape Evolution with Latitude in Terra Cimmeria, Mars - Implications for Climate.

A221 EGU2011-11812
Colman Gallagher and Matt Balme
Effluent crater breaches and channels on Mars: processes, morphological relationships and implications for understanding hydrology

A222 EGU2011-13983
Nicholas Warner, Sanjeev Gupta, Jung-Rack Kim, Shih-Yuan Lin, Lucille LeCorré, and Jan-Peter Muller
Retreat of a giant cataract in a martian outflow channel

PS1.0 – Exploring the Solar System : Missions, Techniques and policy – Posters
Convener: Christian Muller | Co-Conveners: Peter Falkner, Bernard Foing, Pascale Ehrenfreund, Nicolas Peter
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: Christian Muller

Z1 EGU2011-1602
Christian Muller, Didier Moreau, William Thuillot, Juergen Oberst, Apostolos Christou, Anne Lemaître, Daniel Hestroffer, Jérémie Vaubaillon, Florent Deleflie, and Alain Vienne
ORCISS: a collision avoidance proposal for the manned planetary exploration missions.

Z2 EGU2011-2360
Takahiro Iwata, Koji Matsumoto, Yoshiaki Ishihara, Fuyuhiko Kikuchi, Yuji Harada, and Sho Sasaki
A Study on the Four-way Doppler Measurements and Inverse VLBI Observations for Mars Rotation

Z3 EGU2011-9531
Jonathan I. Lunine, Kim Reh, Christophe Sotin, Patrice Couzin, and Andre Vargas
Titan Aerial Explorer Mission Proposal to ESA's Cosmic Vision Programme.

Z4 EGU2011-156
Christian Muller and Didier Moreau
Advantages of human exploration of the solar system from APOLLO and ISS experience

Z5 EGU2011-1449
Graciela De Diego
SOLID3: A Biochip-Based Instrument for Environmental Monitoring in Planetary Exploration

Z6 EGU2011-2331
David Senske, Robert Pappalardo, Louise Prockter, Jean-Pierre Lebreton, and Dima Titov
The Europa Jupiter System Mission: Opportunities for Synergistic JEO and JGO Jovian Tour Science

Z7 EGU2011-4745
Lev Zelenyi, Victor Khartov, Igor Mitrofanov, and Maxim Martynov
Perspectives of Russian robotic lunar program

Z8 EGU2011-6525
Philippe Lamy, Pierre Vernazza, Joel Poncy, James Bell, Dale Cruikshank, Olivier Groussin, Jorn Helbert, Emmanuel Hinglais, Francesco Marzari, and Pascal Rosenblatt
Trojans' Odyssey: Unveiling the early history of Solar System

Z9 EGU2011-7982
Igor Alexeev, Elena Belenkaya, Vladimir Kalegaev, and Maxim Khodachenko
Mapping of the polar Jupiter's ionosphere to the equatorial magnetodisk in the Jupiter outer magnetosphere

Z10 EGU2011-10129
Bruno Christophe and the OSS Consortium Team
OSS: an Outer Solar System Mission towards Neptune, Triton and KBO

Z11 EGU2011-10546
Robert Bentley, Giovanni Lapenta, Michel Blanc, Thierry Fouchet, Mauro Messerotti, Andre Csillagy, and Luis Sanchez
CASSIS - Standards and Interoperability in Solar System Science

Z12 EGU2011-10875
Gerhard Thiele
A European Path to Human Space Exploration

Z13 EGU2011-11161
Joel Poncy, Catherine Le Peuvedic, Sebastien Clerc, Patrice Couzin, Jean-Pierre Prost, and Xavier Roser
In-orbit rendezvous: an enabler of ambitious exploration and science missions beyond Earth's orbit

PS2.7 – Terrestrial and Extraterrestrial Impact Cratering – Orals
Convener: Fred Jourdan | Co-Conveners: Uwe Reimold, Martin Schmieder, Alexander Deutsch, Christian Koeberl
Room: 32
Chairperson: Fred Jourdan / Uwe Reimold

10:30–10:45 EGU2011-9377
Frank Schäfer, Klaus Thoma, Tobias Hoerth, Bernd Lexow, Stefan Hiermaier, Frank Bagusat, Thomas Kenkmann, Michael H. Poelchau, Alex Deutsch and the MEMIN Team
MEMIN - Hypervelocity Impact Cratering Experiments into Sandstone: Initial results

10:45–11:00 EGU2011-1187
Jens Ormö, Kevin Housen, Keith Holsapple, Alain Lepinette, Irene Melero Asensio, and Josefina Torres Redondo
A new facility for low-velocity experimental studies of wet target impacts at Centro de Astrobiología, Spain.

11:00–11:15 EGU2011-461
Denise Anders, Philip Kegler, Elmar Buchner, and Martin Schmieder
Carbonate melt lithologies from the Steinheim impact structure (Baden-Württemberg, Germany)

11:15–11:30 EGU2011-13322
Alexander Rocholl, Maria Ovtcharova, Urs Schaltegger, Jan Wijbrans, Jean Pohl, Mathias Harzhauser, Jerome Prieto, Albert Ulbig, and Madelaine Boehme
A precise and accurate "astronomical" age of the Ries impact crater, Germany: A cautious note on argon dating of impact material

11:30–11:45 EGU2011-2339
Fred Jourdan and Martin Schmieder
The age of the Lappajärvi impact structure

11:45–12:00 EGU2011-11281
Martin Schmieder, Elmar Buchner, Mario Trieloff, Winfried H. Schwarz, and Philippe Lambert
The latest Triassic Rochechouart impact (France) - 40Ar/39Ar dating and potential relation to catastrophic paleoenvironmental effects in the western Tethys domain

12:00–12:15 EGU2011-7559
Ulrich Bläß, Martin Schmieder, and Elmar Buchner
Microstructural TEM-investigations on shock-metamorphic chert from the Jebel Waqf as Suwwan impact structure, Jordan

PS2.7 – Terrestrial and Extraterrestrial Impact Cratering – Posters
Convener: Fred Jourdan | Co-Conveners: Uwe Reimold, Martin Schmieder, Alexander Deutsch, Christian Koeberl
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: Alex Deutsch / Martin Schmieder

Z14 EGU2011-691
Martin Schmieder and **Elmar Buchner**
A water-saturated continental impact scenario for the Ries-Steinheim event (Germany)

Z15 EGU2011-1334
Elmar Buchner and the *Ries-Steinheim Dating Team
Concurrent ages of the Nördlinger Ries and the Steinheim Basin? - An extremely voluminous versus an inexistent isotopic data set for the two impact craters in Southern Germany

Z16 EGU2011-11890
Lidia Pittarello, **Christian Koeberl**, Julie Brigham-Grette, Martin Melles, and Pavel Minyuk
The puzzle of an impact crater in siliceous volcanic rocks: preliminary characterization of the El'gygytgyn ICPD drill core

Z17 EGU2011-4573
Vera Assis Fernandes, Mario Trieloff, Natalia A. Artemieva, Joerg Fritz, and W. Uwe Reimold
Need to re-evaluate the age of Chesapeake Bay and Popigai Craters and their relevance for the Eocene/Oligocene boundary

Z18 EGU2011-1392
Jaroslav Klokocnik, **Jan Kostelecky**, and Josef Sebera
Catalogue of proved impact craters on the Earth as seen by gravity data

Z19 EGU2011-4246
Anna Losiak, Ludovic Ferrière, and Christian Koeberl
Specific combinations of planar deformation feature orientations in shocked quartz grains from the Bosumtwi impact crater as a signature of ?-quartz

Z20 EGU2011-4567
Ulli Raschke, Uwe Reimold, and Ralf-Thomas Schmitt
Preliminary stratigraphy and first petrographic and geochemical results from the ICDP drill core from El'gygytgyn crater (Russia).

Z21 EGU2011-6098
Anca Isac, Michael E. Purucker, Mioara Mandea, and Herbert Frey
Magnetic characteristics of the largest impacts on the Moon, Mars, and Earth

Z22 EGU2011-9131
Irene Melero Asensio, Fátima Martín-Hernández, and Jens Ormö
Rock magnetic properties of drill core LOC-9 from the Lockne crater, Sweden

Z23 EGU2011-9148
Irene Melero Asensio, Jens Ormö, and Erik Sturkell
Preliminary geophysical survey of the Malingen structure, Sweden

Z24 EGU2011-7189
Elmar Buhl, Michael H. Poelchau, Thomas Kenkmann, and Georg Dresen
Sub-surface Grain Comminution in Experimentally Produced Impact Craters in Sandstone

Z25 EGU2011-8021
Katarina Miljkovic and Manish R. Patel
Oblique impact experiments into soil-ice targets: conditions for uncovering ice

Z26 EGU2011-4435
Ralf T. Schmitt, **Wolf Uwe Reimold**, and Ulrich Hornemann
Shock Recovery Experiments with Dry Sandstone at Low Shock Pressures

Z27 EGU2011-1503
Anja Dufresne, Michael H. Poelchau, Thomas Kenkmann, and Memin Team
Crater morphologies in impact experiments into sandstone

Z28 EGU2011-10097
Alexander Deutsch, Anja Dufresne, Thomas Kenkmann, Michael Poelchau, Peter Schulte, and The MEMIN team
MEMIN - sidestep: a cratering experiment into limestone

Z29 EGU2011-10937
Matthias Saric and Julia Lanz
Post-impact deformation of complex aqueous deposits in an impact crater in Aeolis Planum, Mars

Z30 EGU2011-11996
Ildiko Gyollai, Friedrich Popp, and Christian Koeberl
Global warming after the Snowball Earth glaciation: The search for an extraterrestrial component

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
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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

PS2.1 – Atmospheres of Terrestrial Planets – Orals
Convener: Wojciech J. Markiewicz | Co-Conveners: Emmanuel Marcq, Anni Määttänen
Room: 32
Chairperson: n.n.

08:30–08:45 EGU2011-6668
Yongyun Hu and Feng Ding
Super-rotation over tidally-locked exoplanets

08:45–09:00 EGU2011-1481
Geoffrey Vallis and Jonathan Mitchell
Transition to Superrotation in Terrestrial Atmospheres

09:00–09:15 EGU2011-12813
Sanjay Limaye, Robert Krauss, Wojciech Markiewicz, and Dimitri Titov
Venus Atmosphere: Observations from VMC on Venus Express

09:15–09:30 EGU2011-628
Itziar Garate-Lopez, Ricardo Hueso, Agustín Sánchez-Lavega, and Javier Peralta
Venus' South Polar Vortex morphology and dynamics from VIRTIS measurements during the Venus Express mission

09:30–09:45 EGU2011-2542
Denis Belyaev, Franck Montmessin, Jean-Loup Bertaux, Arnaud Mahieux, Anna Fedorova, Oleg Korablev, Emmanuel Marcq, Yuk Yung, and Xi Zhang
Sulfur mono- and dioxides above Venus' clouds from SPICAV/SOIR solar occultations

09:45–10:00 EGU2011-2603
Emmanuel Marcq, Denis Belyaev, Jean-Loup Bertaux, Anna Fedorova, and Franck Montmessin
Long-term monitoring SO2 above the clouds of Venus using SPICAV-UV in nadir mode

10:00–10:15 EGU2011-2681
Manuela Sornig, Guido Sonnabend, Dusan Stupar, and Tobias Stangier
Investigations of Dynamics and Temperatures in the Venusian Upper Atmosphere by Infrared Heterodyne Spectroscopy

COFFEE BREAK

Chairperson: n.n.

10:30–10:45 EGU2011-4275
Maria T Zuber and David E Smith
Volume, Mass and Density of Mars' Season Polar Caps

10:45–11:00 EGU2011-8359
Oliver J. Stenzel, H. Uwe Keller, Nico M. Hoekzema, Wojciech J. Markiewicz, and Harald Hoffmann
The Limb of the Martian Atmosphere in Mars Express' High Resolution Stereo Camera Images

11:00–11:15 EGU2011-2981
Therese Encrenaz, Thomas Greathouse, Matthew Richter, Thierry Fouchet, and Bruno Bézard
A search for SO2 on Mars from ground-based infrared spectroscopy

11:15–11:30 EGU2011-13248
Thanasis E. Economou
Mars Atmosphere Argon Measurement with the Alpha Particle X-Ray Spectrometer on MER Mission.

11:30–11:45 EGU2011-11228
Giovanna Rinaldi, Alessandro Mura, Stefano Orsini, and **Valeria Mangano**
Martian Atmospheric Sputtering

11:45–12:00 EGU2011-6145
Joachim Stock, Christopher Boxe, Lee Grenfell, Ralph Lehmann, Beate Patzer, Heike Rauer, and Yuk Yung
Quantification of CO2-formation pathways in the Martian Atmosphere

PS2.1 – Atmospheres of Terrestrial Planets – Posters
Convener: Wojciech J. Markiewicz | Co-Conveners: Emmanuel Marcq, Anni Määttänen
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: n.n.

Z1 EGU2011-6129
Rainer Haus, Gabriele Arnold, and David Kappel
Comparative temperature retrievals based on VIRTIS/VEX and PMV/VENERA-15 radiation measurements over the northern hemisphere of Venus

Z2 EGU2011-2839
Jun Cui, Marina Galand, Andrew Coates, Tielong Zhang, and Ingo Mueller-Wodarg
Suprathermal electron spectra in the Venus ionosphere

Z3 EGU2011-2970
Therese Encrenaz, Thomas Greathouse, Matthew Richter, Bruno Bézard, Thierry Fouchet, Emmanuel Marcq, Thomas Widemann, and Sushil Atreya
The synthetic spectrum of Venus in the 7-micron region

Z4 EGU2011-551
Oksana S. Shalygina, Elena V. Petrova, Wojciech J. Markiewicz, Dmitry V. Titov, and Nikolay I. Ignatiev
Properties of the Venus upper clouds from the phase dependence observed in the VMC images

Z5 EGU2011-1477
Masaru Yamamoto
Microscale simulations of convective adjustment and mixing: Application to the Venus atmosphere

Z6 EGU2011-495
Yixiong Wang and Peter Read
Terrestrial planetary atmospheric circulation regimes in a simplified GCM

Z7 EGU2011-12303
Upendra Singh, George Emmitt, Sanjay Limaye, Joel Levine, Jirong Yu, and Michael Kavaya
Coherent Doppler Lidar for Wind Measurements on Venus

Z8 EGU2011-3450
Brigitte Gondet, Jean-Pierre Bibring, and Mathieu Vincendon
Diversity of atmospheric components, detected by OMEGA/MEX limb observations

Z9 EGU2011-7004
Anni Määttänen, Francisco Gonzalez-Galindo, Aymeric Spiga, Franck Montmessin, and François Forget
Studies on the dynamical and microphysical origin of the mesospheric CO2 clouds on Mars

Z10 EGU2011-11245
Mathieu Vincendon, Brigitte Gondet, Cedric Pilorget, Jean-Pierre Bibring, and Scott Murchie
Vertical distribution of water ice aerosols from OMEGA data

Z11 EGU2011-11617
Tamara Goldin and Christian Koeberl
The descent of hypervelocity impact ejecta through planetary atmospheres

Z12 EGU2011-6237
Hans-Jörg Fahr, Jochen Zoennchen, and Hans-Uwe Nass
Observational proofs for an unexpectedly large extension of the terrestrial hydrogen exosphere

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 Insitute: "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 Zsofia 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 Peroomian 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 Vasyliu¯ nas 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 mangetotail

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

PS9.1 – Solar System Results from Herschel – Orals
Convener: Paul Hartogh | Co-Conveners: Emmanuel Lellouch
Room: 31
Chairperson: Lellouch

15:30–15:45 EGU2011-2795
Glenn Orton, Bruce Swinyard, Matthew Griffin, Trevor Fulton, Ed Polhampton, Cos Hopwood, Raphael Moreno, Emmanuel Lellouch, and Paul Hartogh
Spectroscopic Observations of Uranus and Neptune by the Herschel SPIRE Experiment: Constraints on Global-Mean Temperature Structure and Composition

15:45–16:00 EGU2011-9230
Tanya Lim, Sonia Fornasier, and Thomas Mueller
Herschel-SPIRE Photometry of TNOs

16:00–16:15 EGU2011-9408
Miguel de Val-Borro, Michael Küppers, Paul Hartogh, Jacques Crovisier, Dominique Bockelée-Morvan, Nicolas Biver, Emmanuel Jehin, Dariusz Lis, Bruce Swinyard, Bart Vandenbussche and the HssO Team
Herschel Observations of Comet 103P/Hartley 2

16:15–16:30 EGU2011-9920
Michael Mommert and the TNOs are Cool-Plutino Team
TNOs are Cool: A Survey of the Transneptunian Region - Physical Characterization of 14 Plutinos using PACS observations

16:30–16:45 EGU2011-8482
Paul Hartogh, Christopher Jarchow, Bruce Swinyard, Maria Blecka, Emmanuel Lellouch, Miguel de Val-Borro, Miriam Rengel, Helmut Feuchtgruber, Hideo Sagawa, and Ganna Portyankina
Herschel observations of Mars

16:45–17:00 EGU2011-8299
Raphael Moreno, Emmanuel Lellouch, Regis Courtin, Bruce Swinyard, Trevor Fulton, Glenn Orton, Paul Hartogh, Chris Jarchow, Thibault Cavalie, and Helmut Feuchtgruber
Observations of CO and HCN on Neptune with Herschel SPIRE

PS9.1 – Solar System Results from Herschel – Posters
Convener: Paul Hartogh | Co-Conveners: Emmanuel Lellouch
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: n.n.

Z13 EGU2011-11458
Michael Mommert, Thomas G. Müller, Emmanuel Lellouch, Hermann Böhnhardt, John Stansberry and the TNOs are Cool Team
TNOs are Cool: A Survey of the Transneptunian Region with Herschel Space Observatory

Z14 EGU2011-12606
Maria I. Blecka, Giuseppe Sindoni, Paul Hartogh, Christopher Jarchow, Emmanuel Lellouch and the Herschel HIFI Team
Observations of Carbon Monoxide in the Marian Atmosphere - the comparison of the measurements done by SW PFSMEX and HIFI on Herschel in the period 11-16 of April 2010

Z15 EGU2011-1250
Armando González, Paul Hartogh, Luisa-María Lara, and Christopher Jarchow
Photochemistry in Neptune's atmosphere: Constraints with Herschel Space Observatory's water observations

Z16 EGU2011-8381
Christopher Jarchow, Paul Hartogh, Emmanuel Lellouch, Raphael Moreno, Helmut Feuchtgruber, and Thibault Cavalie
Water Vapour in the Atmospheres of Uranus and Neptune Observed with the PACS and HIFI Instrument of the Herschel Space Observatory

Z17 EGU2011-8743
Miriam Rengel, Paul Hartogh, Hideo Sagawa, Emmanuel Lellouch, Helmut Feuchgruber, Raphael Moreno, and Régis Courtin
Looking at the key atmospheric gases in Titan: PACS / Herschel Spectrum of Titan

Z18 EGU2011-6235
Emmanuel Lellouch, Raphael Moreno, Dominique Bockelée-Morvan, Nicolas Biver, Paul Hartogh, Timothy Cassidy, Miriam Rengel, Christopher Jarchow, Thibault Cavalié, and Jacques Crovisier
Observations of the Enceladus H2O torus with Herschel / HIFI

Z19 EGU2011-10243
Pablo Santos-Sanz and the TNOs are Cool-SDO Team
TNOs are Cool: A Survey of the Transneptunian Region - Physical Characterization of 15 Scattered Disk and Extended Scattered Disk Objects observed with Herschel/PACS

Wednesday, 06 April

ML3 – Jean Dominique Cassini Medal Lecture by Jean-Pierre Lebreton (co-listed) – Orals
Convener: Tuija Pulkkinen
Room: D
Chairperson: Tuija Pulkkinen

12:15–13:15 EGU2011-14191
Jean-Pierre Lebreton
Highlights of ESA's Planetary Sciences Programme Achievements and a Glimpse into the Future (Jean Dominique Cassini Medal Lecture)

PS2.3 – Mercury – Posters
Convener: Johannes Benkhoff | Co-Conveners: Ulrich Christensen
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: U. Christensen

Z1 EGU2011-2450
Hajime Hayakawa, Hironori Maejima and the BepiColombo MMO Project Team
BepiColombo MMO status update

Z2 EGU2011-3582
Francois Poulet, Julian Rodriguez, Yuying Longval, Pascal Eng, Yves Langevin, Fabrizio Capaccioni, Gabriel Cremonese, Michele Dami, Gianrico Filacchione, and Pasquale Palombo
Ground calibration of SIMBIO-SYS integrated experiment: scientific objectives and setup description

Z3 EGU2011-6548
Isabel Egea-González, Javier Ruiz, Carlos Fernández, Jean-Pierre Williams, Álvaro Márquez, and Luisa M. Lara
Depth of thrust faulting and ancient heat flows in the Kuiper region of Mercury from lobate scarp topography

Z4 EGU2011-10080
Karin Bauch, Harald Hiesinger, and Jörn Helbert
Insolation and Resulting Surface Temperatures of Study Regions on Mercury.

Z5 EGU2011-11468
Martin Wieser, Stas Barabash, Yoshifumi Futaana, Anil Bhardwaj, Kazushi Asamura, and Peter Wurz
Backscattering of solar wind from the hermean surface: expected observations at the example of a high solar wind flux event at the moon.

Z6 EGU2011-11895
Elisabetta De Angelis, **Rosanna Rispoli**, Nello Vertolli, Marco D'Alessandro, Stefano Orsini, Stefano Selci, Andrea Maria Di Lellis, Roberto Leoni and the ELENA testing Team
Testing activities of the sensor BepiColombo/SERENA-ELENA at the MEFISTO facility

Z7 EGU2011-2221
Stefano Orsini, Valeria Magano, Anna Milillo, Alessandro Mura, and Francois Leblanc
Dynamical Evolution of Sodium Anysotropies in the Exosphere of Mercury

Z8 EGU2011-10575
Alessandro Mura, Peter Wurz, Stefano Orsini, and Anna Milillo
Mercury's Na and Ca tail: MonteCarlo model and data comparison

PS2.4 – Mars Science and Exploration – Orals
Convener: Agustin Chicarro | Co-Conveners: Angelo Pio Rossi
Room: 31
Chairperson: n.n.

10:30–10:45 EGU2011-10249
Attilio Rivoldini, Tim Van Hoolst, Olivier Verhoeven, Antoine Mocquet, and Véronique Dehant
Constraining the Interior Structure and Composition of Mars with Geodesy

10:45–11:00 EGU2011-2909
François Civet and Pascal Tarits
Study of Mars Global Surveyor data to infer Mars internal conductivity

11:00–11:15 EGU2011-13218
Stephen Clifford
Evidence for the Survival of Subsurface H2O in the Martian Equatorial Region to the Present Day.

11:15–11:30 EGU2011-12325
Luis Teodoro, Richard C. Elphic, Vincent R. Eke, Ted L. Roush, Giuseppe A. Marzo, Adrian J. Brown, William C. Feldman, and Sylvestre Maurice
Characterizing the 3-D Water Distribution on the Mars Surface

11:30–12:00 EGU2011-12468
Wlodek Kofman, Cyril Grima, Jeremie Mouginot, Alain Herique, Pierre Beck, and Antoine Pommerol
Mars surface materials from MARSIS and SHARAD radar reflectivity.

12:00–12:15 EGU2011-2736
Mohamed Ramy El Maarry, Essam Heggy, and James Dohm
Assessment of a Possible Volcanic Paleolake at Apollinaris Patera, Mars: Constraints on the Composition of the Inner Caldera and Fan Deposits using the MRO Shallow Sounding Radar (SHARAD)

LUNCH BREAK

Chairperson: n.n.

13:30–13:45 EGU2011-5603
Cathy quantin, Jessica Flahaut, Harold Clenet, Pascal Allemand, and Pierre Thomas
Major Subsurface discontinuity revealed by central uplifts of impact craters in the vicinity of Valles Marineris

13:45–14:00 EGU2011-7048
Petri Kostama and Soile Kukkonen
Analysis of the Reull Vallis Upper Reaches and the Morpheos Basin in the Eastern Hellas Rim Region, Mars.

14:00–14:30 EGU2011-11313
Jean-Pierre Bibring
Mars History: a reappraisal

14:30–14:45 EGU2011-11302
Anouck Ody, François Poulet, Yves Langevin, Jean Pierre Bibring, Brigitte Gondet, John Carter, and Mathieu Vincendon
GLOBAL MINERALOGICAL MAPPING OF THE MARTIAN SURFACE FROM OMEGA/MEx

14:45–15:00 EGU2011-748
Nicolas Bost, Frances Westall, Claire Ramboz, Frédéric Foucher, Derek Pullan, Iris Fleischer, Goestar Klingelhöfer, Michel Viso, Jorge Vago, and Tanja Zegers
ExoMars: Mars analogue rocks in the European lithotheque at Orleans

Chairperson: n.n.

15:30–15:45 EGU2011-12723
Valerie Ciarletti, Stephen Clifford, Andre-Jean Vieau, Benjamin Lustrement, Rafik Hassen-Kodja, Philippe Cais, and Dirk Plettemeier
The 2018 ExoMars WISDOM GPR on Mt. Etna: First Field Test Results in a Mars Analogue Volcanic Environment

15:45–16:00 EGU2011-12549
Nadezda Evdokimova, Alexander Rodin, Ruslan Kuzmin, and Anna Fedorova
Seasonal dynamics of Martian water cycle based on OMEGA/MEX data: regolith hydtration and water vapor

16:00–16:15 EGU2011-11188
Cedric Gillmann, Paul Tackley, Philippe Lognonné, and Manuel Moreira
The effects of degassing on the long term evolution of the Martian atmosphere.

16:15–16:30 EGU2011-1757
Beatriz Sánchez - Cano, Sandro M. Radicella, Miguel Herraiz, Gracia Rodríguez - Caderot, and Olivier Witasse
A Mars M1 ionosphere layer empirical model based on MARSIS data.

16:30–16:45 EGU2011-7545
Sujun Zhang, Jinsong Ping, Tingting Han, XiaoFei Mao, and Zhenjie Hong
Implementation of the earth-based planetary radio occultation inversion technique in Shanghai Astronomical Observatory

16:45–17:15 EGU2011-7847
Richard Ambrosi, Hugo Williams, Steven Howe, Nigel Bannister, John Bridges, Marie-Claire Perkinson, Jaime Reed, and Robert O'Brien
The Mars Hopper: an impulse driven, long-range, long-lived mobile platform utilising in-situ martian resources

PS2.4 – Mars Science and Exploration – Posters
Convener: Agustin Chicarro | Co-Conveners: Angelo Pio Rossi
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: Agustin Chicarro

Z9 EGU2011-3182
Marlene Bamberg, Ralf Jaumann, Hartmut Asche, Andrea Nass, and Daniela Tirsch
Young basaltic deposits in impact craters at the south-eastern extension of Syrtis Major, Mars: preliminary report

Z10 EGU2011-2902
Maud Barthelemy, Santa Martinez, David Heather, Jose Luis Vazquez, Nicolas Manaud, Iñaki Ortiz, Christophe Arviset, and Ignacio Leon
The PSA: Planetary Science Archive

Z11 EGU2011-5760
Jean-Yves Chaufray, Francisco Gonzales-Galindo, Francois Forget, Miguel Lopez-Valverde, Francois Leblanc, Manabu Yagi, Ronan Modolo, Pierre-Louis Blelly, and Olivier Witasse
Mars- Solar wind interaction: 3D GCM-Ionosphere model to describe the Martian ionospheric dynamics and its coupling with neutral atmosphere.

Z12 EGU2011-5916
Agustin Chicarro
The European Robotic Exploration of the Planet Mars

Z13 EGU2011-13077
Peter Dorninger, Balázs Székely, and Clemens Nothegger
Automated Detection and Analysis of Mars Surface Structures by Segmentation

Z14 EGU2011-300
Jessica Flahaut, Cathy Quantin, John Mustard, Harold Clenet, Pascal Allemand, Janette Wilson, and Pierre Thomas
Evidence of Preserved Noachian Crust and Major Geologic Transitions in the Walls of Valles Marineris, Mars.

Z15 EGU2011-8662
Felipe Gómez, Javier Gómez-Elvira, Mari Paz Zorzano-Mier, Carlos Armiens-Aparicio, Jose Antonio Rodríguez-Manfredi, and Eduardo Sebastián
Habitability parameters determination on Mars surface with REMS (MSL metereological station).

Z16 EGU2011-3741
Haraldur Páll Gunnlaugsson, Kristine Albers Olsen, Morten Bo Madsen, and Per Nørnberg
Mössbauer Spectroscopy and Electron Microscopy Investigation of the Martian Meteorite Dar al Gani 1037

Z17 EGU2011-4881
Ruslan Kuzmin, Elena Zabalueva, Nadejda Evdokimova, Philip Christensen, Maxim Litvak, and Igor' Mitrofanov
Evidences of the inter-years and seasonal variations of the water ice content within the surficial layer of the Martian soil revealed based on the TES, the HEND and the OMEGA data analysis

Z18 EGU2011-4443
Maxim Litvak, Igor Mitrofanov and the DAN Team
Layering structure of Martian subsurface from DAN instrument onboard MSL rover

Z19 EGU2011-11735
Patrick Martin and Damhnait Gleeson
A Mars Landing Requirements Database to Support ExoMars Site Selection

Z20 EGU2011-9292
Gregorio J. Molina-Cuberos, Kerstin Peter, Olivier Witasse, María J Núñez, and Martin Pätzold
Meteor sporadic layers at Mars

Z21 EGU2011-3280
Andreas Petau, Daniela Tirsch, Muna Al-Samir, and Ralf Jaumann
Drainage patterns on Mars in comparison with their analogue valleys on Earth

Z22 EGU2011-7182
Jouko Raitala and **Veli-Petri Kostama**
Marker strata and the Ius light blocks, Mars

Z23 EGU2011-6211
María Ramírez-Nicolás, Luis Vázquez, David Usero, and Miguel Herraiz
Charged Particles in the Crustal Magnetic Field of Mars

Z24 EGU2011-1878
Marco Restano, Arturo Masdea, Marco Mastrogiuseppe, Giovanni Picardi, and Roberto Seu
Image resolution enhancing in the MARSIS experiment

Z25 EGU2011-6176
Pilar Romero and Juan Jose Silva
Optimal Longitudes Determination for the Station Keeping for Areostationary Satellites

Z26 EGU2011-6470
Pilar Romero, **Gonzalo Barderas**, Jose Luis Vazquez-Poletti, and Ignacio M. Llorente
Temporal Areographic Patterns of Phobos Eclipses on Mars for the Metnet Precursor Mission

Z27 EGU2011-4590
Angelo Pio Rossi, Monica Pondrelli, Stephan van Gasselt, and Vikram Unnithan
Geological variability of Equatorial Layered Deposits in Arabia Terra, Mars

Z28 EGU2011-6822
Maria Shibanova and Evgeniy Lazarev
Mars moons relief mapping and modelling: problems and solutions

Z29 EGU2011-11345
Sebastian Walter, Randolph L. Kirk, Patrick C. McGuire, and Gerhard Neukum
Systematic Photometric Modeling for Correcting Topographic Shading Effects on HRSC Imagery

Z30 EGU2011-12253
Benjamin Weiss, **Christopher Russell**, Carol Raymond, Neil Murphy, Eduardo Lima, Maria Zuber, Robert Strangeway, and Joseph Kirschvink
Paleomagnetic Studies from a Mars Rover

Z31 EGU2011-7364
Lorenz Wendt, Christoph Gross, Thomas Kneissl, Mariam Sowe, Jean-Philippe Combe, Laetitia LeDeit, Patrick C. McQuire, and Gerhard Neukum
Sulfates and Ferric Oxides in Ophir Chasma, Mars

Z32 EGU2011-11031
Yannick Willame, Rachel Drummond, Cédric Depiesse, Didier Gillotay, Ann Carine Vandaele, Manish Patel, and Mark Leese
NOMAD/UVIS Sensitivity investigation for Mars observations

Z33 EGU2011-3952
Manabu Yagi, Francois Leblanc, Jean-Yves Chaufray, Ronan Modolo, Marco Mancini, and Francisco Gonzalez-Galindo
Three dimensional Mars' exosphere : multi-species thermal and nonthermal models

PS2.5 – The brines of Mars and their implications for geochemistry and habitability – Orals
Convener: Nilton Renno | Co-Conveners: Diedrich Moehlmann
Room: 32
Chairperson: Nilton Renno, Diedrich Moehlmann

08:30–08:45 EGU2011-1081
Nilton Renno and Manish Mehta
Photometric and spectral evidence for deliquescence and liquid saline water on Mars

08:45–09:00 EGU2011-1838
Wolfgang Voigt and Erik Hennings
Freezing curves of salt - water systems and implications for possible cryo-brines on Mars

09:00–09:15 EGU2011-8346
Samuel Kounaves
Determination of the Parent Salt for the Perchlorate Ion Measured at the Phoenix Mars Lander Site

09:15–09:30 EGU2011-1485
Diedrich Moehlmann
Latitudinal distribution of conditions to support the formation of temporary liquid cryobrines on Mars

09:30–09:45 EGU2011-7353
Akos Kereszturi, Szaniszló Berczi, Andras Horvath, Tamas Pocs, Andras Sik, and Eors Szathmary
Dark Dune Spots as favorable locations for brine formation on Mars

09:45–10:00 EGU2011-1968
Jacek Wierzchos, Alfonso F. Dávila, Isabel M. Sanchéz-Almazo, Asunción de los Ríos, Sergio Valea, Mieczyslaw Hajnos, Christopher P. McKay, Octavio Artieda, and Carmen Ascaso
Microscopic saline ponds are oasis for photosynthetic life in the driest place on the Earth: implications for putative Martian biosphere

10:00–10:15 EGU2011-4730
Helga Stan-Lotter
Halophilic microbial life on Mars?

PS2.5 – The brines of Mars and their implications for geochemistry and habitability – Posters
Convener: Nilton Renno | Co-Conveners: Diedrich Moehlmann
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: Nilton Renno, Diedrich Moehlmann

Z34 EGU2011-799
Galina V. Khokhlova, Elena V. Spirina, Lada E. Petrovskay, and David A. Gilichinsky
Microbial biodiversity of Yamal Peninsula overcooled water brines within permafrost

Z35 EGU2011-7565
Nilton Renno, Harvey Elliott, Bruce Block, and Robert Gillespie
Development of an environmental chamber for studying the brines of the Mars Phoenix landing site

Z36 EGU2011-13120
Antonio Sansano, Julia Guerrero, Rafael Navarro, Jesus Medina, and Fernando Rull
Laboratory analysis of sulfate precipitation processes from acidic brines using combined Raman and LIBS spectroscopy

Z37 EGU2011-8167
Felipe Gómez, José Antonio Rodríguez-Manfredi, and Ricardo Amils
Protected endolithic niches on Earth as models for Habitability on Mars

Z38 EGU2011-2294
Jackie Goordial, Lyle Whyte, Tom Neiderberger, Nadia Mykytczuk, Nancy Perreault, Barbara Sherwood Lollar, Dale Andersen, Charles Greer, and Wayne Pollard
Microbial communities in subzero brine environments in the Canadian high Arctic.

Z39 EGU2011-8890
Nina Feyh, Ulrike Reichelt, and Ulrich Szewzyk
The potential of marine bacteria to grow in Mars-relevant brines

Z40 EGU2011-2630
Jochen Jänchen
Water vapour interaction of hygroscopic salts with respect to formation of liquid phases at Martian surface conditions

Z41 EGU2011-7046
Susanne Schröder, Sergey G. Pavlov, Isabelle Rauschenbach, Elmar K. Jessberger, and Heinz-Wilhelm Hübers
LIBS studies on salts and frozen salt solutions under Martian conditions

PS3.0 – Outer Planets – Orals
Convener: Jean-Pierre Lebreton | Co-Conveners: Sushil K. Atreya, Athena Coustenis, Glenn Orton
Room: 30
Chairperson: n.n.

08:30–08:45 EGU2011-561
Oksana Shalygina, Yuri Shkuratov, Viktor Korokhin, Vadim Kaydash, Nikolay Opanasenko, Yuri Velikodsky, Elena Petrova, Sanjay Limaye, and Eugene Shalygin
Polarimetry of Jupiter's atmosphere and the surfaces of the Galilean satellites: its significance and the advantages of a space experiment

08:45–09:00 EGU2011-2104
Agustin Sanchez-Lavega, Jon Legarreta, Josep Maria Gomez, John H. Rogers and the PVOL-IOPW Team
Jupiter's 2010 South Equatorial Belt Disturbance: Observations in the visual range and non-linear models.

09:00–09:15 EGU2011-2130
Teresa del Río-Gaztelurrutia, Agustín Sánchez-Lavega, Ricardo Hueso, Santiago Pérez-Hoyos, Josep M Gómez, Enrique García-Melendo and the PVOL-IOPW Team
The December 2010 outbreak of a major storm in Saturn's atmosphere

09:15–09:30 EGU2011-1638
Christopher Russell, **Hao Cao**, Steve Joy, Ulrich Christensen, and Michele Dougherty
Implications for the Interiors of Jupiter and Saturn from their Very Different Magnetic Fields

09:30–09:45 EGU2011-4199
Krishan Khurana, Michele Dougherty, and Christopher Russell
Observations of current sheet tilt in Saturn's magnetosphere from solstice to equinox

09:45–10:00 EGU2011-5897
Aikaterini Radioti, Denis Grodent, Jean-Claude Gérard, Steve Milan, Jacques Gustin, Bertrand Bonfond, and Wayne Pryor
Bifurcations of the main auroral ring at Saturn: ionospheric signature of flux transfer events?

10:00–10:15 EGU2011-8726
Andrew Kopf and Donald Gurnett
A Statistical Study of Kilometric Radiation Fine Structure Striations Observed at Jupiter and Saturn

PS3.1 – Satellites and rings of the outer planets – Orals
Convener: Linda Spilker | Co-Conveners: Sushil K. Atreya, Jean-Pierre Lebreton, Glenn Orton, Hauke Hussmann,

Athena Coustenis
Room: 30
Chairperson: n.n.

10:30–10:45 EGU2011-1224
Tetsuya Tokano, Tim Van Hoolst, and Özgür Karatekin
Polar motion of Titan forced by the atmosphere
10:45–11:00 EGU2011-3841
F. Michael Flasar, Richard Achterberg, Donald Jennings, and Paul Schinder
Titan's emergence from winter
11:00–11:15 EGU2011-12909
Erika L. Barth
The Role of Ethane in Titan's Convective Clouds
11:15–11:30 EGU2011-13798
Eliot Young, Jason Barnes, Carrie Anderson, Robert Samuelson, and Erika Barth
A season of methane distributions on Titan
11:30–11:45 EGU2011-12652
Darrell F. Strobel
The Molecular Hydrogen Mole Fraction Profile in Titan's Atmosphere: A Case for Magnetospheric Power Input?
11:45–12:00 EGU2011-5216
Sushil K. Atreya and Hasso B. Niemann
Titan's atmosphere reflected in its surface

LUNCH BREAK

Chairperson: n.n.

13:30–13:45 EGU2011-11076
Leonid Gurvits, Sergei Pogrebenko, Giuseppe Cimò, Dmitry Duev, Peter Fridman, and Guifre Molera Calvés
Radio astronomy segments of prospective planetary science and exploration missions
13:45–14:00 EGU2011-4110
Ralf Jaumann
The Geology of Tita: a summary
14:00–14:15 EGU2011-1164
Valeria Cottini, Conor A. Nixon, Donald E. Jennings, Remco de Kok, Nicholas A. Teanby, Patrick G. J. Irwin, and F. Michael Flasar
Spatial and temporal variations in Titan's surface temperatures from Cassini CIRS observations
14:15–14:30 EGU2011-5356
Thomas R. Spilker, Philip Nicholson, Matthew Tiscareno, Linda Spilker and the The SRO Study Team
Saturn Ring Observer: Less Challenging Than Previously Thought
14:30–14:45 EGU2011-4081
Cécile Ferrari
The role of shadows in Saturn's rings : a CIRS-CASSINI perspective.
14:45–15:00 EGU2011-1600
Matthew Tiscareno
The changing orbits of "propeller" moons in Saturn's rings
15:00–15:15 EGU2011-13176
Miodrag Sremcevic, Larry Esposito, and Joshua Colwell
Spatially resolved self-gravity wakes in Saturn's A and B rings from Cassini UVIS occultations
Chairperson: n.n.

15:30–15:45 EGU2011-11305
Nicolas Rambaux
Rotation and libration of icy satellites
15:45–16:00 EGU2011-12618
Marco Ducci, John W. Armstrong, Sami W. Asmar, Luciano Iess, Robert Jacobson, Nicole Rappaport, David Stevenson, and Paolo Tortora
Enceladus' Gravity Field inferred from Range Rate Measurements of the Cassini Spacecraft
16:00–16:15 EGU2011-4267
Dennis L. Matson, Julie C. Castillo-Rogez, Torrence V. Johnson, Jonathan I. Lunine, and Ashley G. Davies
Enceladus' Hydrothermal Activity

16:15–16:30 EGU2011-10620
Jürgen Schmidt, Frank Postberg, Jon Hilier, Sascha Kempf, and Ralf Srama
Compositional profile of the Enceladus dust plume

16:30–16:45 EGU2011-2894
Thomas Roatsch, Elke Kersten, Marita Wählisch, Angelika Hoffmeister, Frank Preusker, Katrin Stephan, and Ralf Jaumann
New Cartographic Products and Composition Maps of the Icy Saturnian Satellites based on Cassini ISS and VIMS data

16:45–17:00 EGU2011-13271
Amy Barr
Formation of the Ganymede/Callisto Dichotomy by Impacts during the Late Heavy Bombardment

17:00–17:15 EGU2011-7795
Hermes Miguel Jara Orue and Bert L.A. Vermeersen
Eff ect of obliquity on viscoelastic deformation and stresses at Europa's surface

Thursday, 07 April

PS2.3 – Mercury – Orals
Convener: Johannes Benkhoff | Co-Conveners: Ulrich Christensen
Room: 29
Chairperson: n.n.

10:30–10:45 EGU2011-11251
Maria Zuber and the Maria Zuber Team
Initial Orbital Phase Results of the MESSENGER Geophysics Investigation

10:45–11:00 EGU2011-5202
Menelaos Sarantos, Rosemary Killen, William McClintock, Ronald Vervack, Jr, Mehdi Benna, James Slavin, and Sean Solomon
MESSENGER Observations and Models of Exospheric Magnesium on Mercury on the Eve of Orbit Insertion

11:00–11:15 EGU2011-11231
Valerio Iafolla, David M. Lucchesi, Sergio Nozzoli, Francesco Santoli, **Roberto Peron**, Emiliano Fiorenza, and Carlo Lefevre
The BepiColombo mission to Mercury and the role of the ISA accelerometer in the Radio Science Experiments: status and perspectives

11:15–11:30 EGU2011-3058
Benoît Noyelles, Julien Dufey, and Anne Lemaitre
Modeling the rotation of Mercury including pressure coupling

11:30–11:45 EGU2011-13565
Paolo Tortora, Alessandro Bevilacqua, Ludovico Carozza, Antonio Genova, Alessandro Gherardi, Luciano Iess, Rachele Meriggiola, Alessandra Palli, Pasquale Palumbo, and Michele Zusi
Simulation of BepiColombo's Mercury Rotation Experiment

11:45–12:00 EGU2011-12152
Antonio Genova, Manuela Marabucci, and Luciano Iess
BepiColombo radio science experiment: determination of Mercury's gravity field

12:00–12:15 EGU2011-1420
Dean L. Talboys, Emma J. Bunce, George W. Fraser, Adrian Martindale, and Yasuhito Narita
The Mercury Imaging X-ray Spectrometer (MIXS) on BepiColombo as a Probe of Mercury's Magnetosphere

PS3.0 – Outer Planets – Posters
Convener: Jean-Pierre Lebreton | Co-Conveners: Sushil K. Atreya, Athena Coustenis, Glenn Orton
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: Jean-Pierre Lebreton

Z11 EGU2011-1291
Thomas Magner, Robert Pappalardo, Brian Cooke, Greg Garner, Thomas Gavin, Kenneth Hibbard, Louise Prockter, and David Senske
The Europa Jupiter System Mission Jupiter Europa Orbiter Mission Overview

Z12 EGU2011-8739
Chris Arridge and the Uranus Pathfinder Team
Uranus Pathfinder: Exploring the Origins and Evolution of Ice Giant Planets

Z13 EGU2011-9494
Anthony Colaprete, **Thomas R. Spilker**, David Atkinson, Linda Spilker, Tibor Balint, Athena Coustenis, Robert Frampton, Reta Beebe, and Kim Reh
A Shallow Probe Mission to Saturn

Z14 EGU2011-9692
Thomas R. Spilker, Reta Beebe, Heidi Hammel, Amy Simon-Miller, Kunio Sayanagi, David Atkinson, Anthony Colaprete, Leonard Dudzinski, and Kim Reh
Saturn Probe Mission Concepts: US 2012 Decadal Survey Studies

Z15 EGU2011-7372
Angioletta Coradini, Alberto Adriani, Gianrico Filacchione, Davide Grassi, Maria Luisa Moriconi, Bianca Maria Dinelli, Raffaella Noschese, Andrea Cicchetti, Claudio Pasqui, and Alessandro Bini
The Jovian Infrared Auroral Mapper (JIRAM)

Z16 EGU2011-12735
John Cooper, Alexander Lipatov, Edward Sittler, and Steven Sturner
Saturn Neutron Exosphere as Source for Inner and Innermost Radiation Belts

Z17 EGU2011-6652
Nicholas Achilleos, Christopher Smith, Chihiro Tao, Sarah Badman, and Alan Aylward
Magnetospheric Driving of Saturn's Thermosphere during Storm-Like Events

Z18 EGU2011-1418
Dean L. Talboys, Emma J. Bunce, Stanley W. H. Cowley, Christopher S. Arridge, Andrew J. Coates, and Michele K. Dougherty
Statistical Characteristics of Field-aligned Currents in Saturn's Nightside Magnetosphere

Z19 EGU2011-2434
Claudia-Veronika Meister, Christoph Maurer, and Dieter H.H. Hoffmann
Modeling of the anisotropic magnetosheaths of Jupiter, Saturn, and Neptune

Z20 EGU2011-6651
Japheth Yates, Nicholas Achilleos, and Patrick Guio
Influence of transient magnetospheric compressions on thermospheric flows at Jupiter

Z21 EGU2011-3285
Michael Le Bars, Oriane Aubert, Patrice Le Gal, Philip Marcus, Cyprien Morize, and Alban Sauret
Two prevailing features of Jupiter's fluid mechanics studied in laboratory experiments: the stability of the Great Red Spot and the zonal winds generation by tides

Z22 EGU2011-5558
Santiago Perez-Hoyos, **Agustin Sanchez-Lavega**, Jose Francisco Sanz-Requena, Naiara Barrado-Izagirre, and Jose Felix Rojas
Vertical cloud structure models of Jupiter's South Equatorial Belt fade

Z23 EGU2011-10849
Philippe Garnier, Dominique Toublanc, Romain Rousseau, Iannis Dandouras, Anna Kotova, Pontus Brandt, Kostas Dialynas, and Stamatios Krimigis
Modeling the satellite particles in planetary exospheres : application to Titan

Z24 EGU2011-10982
Antony Allen, Essam Marouf, Ingo Mueller-Wodarg, and Paolo Tortora
An On-Board Receiver on EJSM for Jupiter Atmospheric Science and Satellite Surface Scattering Experiments

PS3.1 – Satellites and rings of the outer planets – Posters
Convener: Linda Spilker | Co-Conveners: Sushil K. Atreya, Jean-Pierre Lebreton, Glenn Orton, Hauke Hussmann, Athena Coustenis
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: n.n.

Z25 EGU2011-12516
Georgios Bampasidis and the and 11 co-authors Team
Seasonal and latitudinal variations of Titan's trace stratospheric gases from Cassini/CIRS and other observations

Z26 EGU2011-7525
Odile Dutuit, Véronique Vuitton, Roland Thissen, Arpad Somogyi, and Mark A. Smith
Structural Analysis of Titan's Tholins by Very-High Resolution Mass Spectrometry

Z27 EGU2011-4636
Marie-Claire Gazeau, Yves Bénilan, Emmanuel Arzoumanian, Et-Touhami Es-Sebbar, Antoine Jolly, and Carlos D. Pintassilgo
Formation of HCN and NH3 as primary compounds of Titan's atmosphere simulations using N2-CH4 afterglow plasma

Z28 EGU2011-5115
Edward Sittler, Richard Hartle, John Cooper, Marcus Shappirio, Robert Johnson, and David Simpson
Ion Composition of Titan's Ionosphere Observed during T9 Magnetotail Crossing

Z29 EGU2011-846
Anezina Solomonidou, Mathieu Hirtzig, Emmanuel Bratsolis, Georgios Bampasidis, Athena Coustenis, Pierre Drossart, Stephane Le Mouélic, Christophe Sotin, Xenophon Moussas, Konstantinos Kyriakopoulos, and Karen St. Seymour
Potentially active regions on Titan: Application of differential spectroscopy on Cassini/VIMS data and correlation with filtered SAR data.

Z30 EGU2011-10201
Mathieu Hirtzig, Athena Coustenis, Bruno Bézard, Catherine deBergh, Anezina Solomonidou, Georgios Bampasidis, Emmanuel Bratsolis, Michel Combes, Pascal Rannou, and Pierre Drossart
Uncovering Titan's Surface Spectrum by Modelling Cassini/VIMS and Earth-Based near-Infrared Spectro-Images

Z31 EGU2011-13796
Emmanuel Bratsolis, Bampasidis Georgios, **Anezina Solomonidou**, Athena Coustenis, and Mathieu Hirtzig
A method to investigate the temporal variation of lakes on Titan using Cassini Synthetic Aperture Radar images

Z32 EGU2011-5334
Linda Spilker, Estelle Deau, and Ryuji Morishima
Saturn ring temperature variations with changing geometries

Z33 EGU2011-13484
Nicole Albers, Miodrag Sremcevic, and Larry Esposito
Moon-influenced ringlets and edges in Saturn's rings

Z34 EGU2011-10064
Mauro Ciarniello, Fabrizio Capaccioni, Gianrico Filacchione, Philip D. Nicholson, Roger N. Clark, Priscilla Cerroni, Angioletta Coradini, Robert H. Brown, Bonnie J. Buratti, and Matthew M. Hedman
Saturn's rings spectrophotometric modeling by CASSINI-VIMS data

Z35 EGU2011-4212
Alexandre Solé, Ignasi Casanova, Athena Coustenis, Anezina Solomonidou, and Georgios Bampasidis
The icy moons of the outer Solar System: A global perspective

Z36 EGU2011-3575
Nico Schmedemann and Gerhard Neukum
Surface Ages and Impact Crater Size-Frequency Distribution (SFD) on Mimas

Z37 EGU2011-3053
Marie Behounkova, Gabriel Tobie, Jonathan Besserer, Ondrej Cadek, and Gael Choblet
Thermal stability of internal liquid water reservoir at Enceladus' South pole

Z38 EGU2011-4252
Irina Kulyk
Analysis of the surface dichotomy of Tethys, Dione, and Rhea based on the photometric and polarimetric measurements at low phase angles

Z39 EGU2011-7810
Roland J. Wagner, Gerhard Neukum, Bernd Giese, Thomas Roatsch, Tilmann Denk, Ursula Wolf, and Carolyn C. Porco
Imaging and Geologic Mapping of Tectonic Features on the Saturnian Satellites Dione and Rhea by the ISS Cameras in the Cassini Equinox and Solstice Missions

Z40 EGU2011-7907
Tim Van Hoolst, Rose-Marie Baland, and Attilio Rivoldini
On the libration and tides of synchronously rotating icy satellites

Z41 EGU2011-13616
Ralf Srama, Sascha Kempf, Frank Postberg, Mihaly Horanyi, Zoltan Sternovsky, Jürgen Schmidt, Harald Krüger, Roland Thissen, Anna Mocker, and Eberhard Gruen
Dust measurements with EJSM

Z42 EGU2011-7722
Wes Patterson, Chris Paranicas, and Louise Prockter
Characterizing charged particle weathering of Europa's surface by location and depth

Z43 EGU2011-10311
Christina Plainaki, Anna Milillo, **Alessandro Mura**, Stefano Orsini, and Stefano Massetti
The exosphere of Europa: role of photolysis and radiolysis

Z44 EGU2011-12823
David Lawrence, Patrick Peplowski, Richard Ambrosi, William Feldman, Olivier Gasnault, Karl Hibbitts, and Sylvestre Maurice
Measuring Planetary Composition at Depth: Neutron Measurements at Ganymede

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, Teilong 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

PS5.1 – Moon-Magnetosphere Interactions – 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
Zsofia 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 – 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 Allioux, 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 Alfven wings and the qcceleration of electron beams by Enceladus

PS6.0 – Exoplanets: observation, characterisation and habitability – Orals
Convener: Daniel Winterhalter | Co-Conveners: Lisa Kaltenegger, James Cho, Antigona Segura
Room: 32
Chairperson: Daniel Winterhalter

13:30–14:00 EGU2011-14215
William Borucki and the Kepler Team
Latest Results from the Kepler Mission

14:00–14:15 EGU2011-2327
Nicolas Cowan and the EPOXI Earthlings Team
Identifying Surface Types on an Unresolved Planet

14:15–14:30 EGU2011-2760
charles beichman and the NIRCam and ELEKTRA Teams Team
Near-IR Observations of Terrestrial Planets From Space: Surveys and Pointed Observations

14:30–14:45 EGU2011-3185
Ingo Waldmann and Giovanna Tinetti
Ground-based spectroscopy of extrasolar planets

14:45–15:00 EGU2011-3794
Torrence Johnson, Olivier Mousis, and Jonathan Lunine
Effect of stellar composition on the rock/ice composition of condensates in exoplanet systems

15:00–15:15 EGU2011-9325
Stephen Unwin, Wesley A. Traub, and Geoffrey Bryden
Zodiac II: A Balloon Facility for Exoplanet Debris Disk Observations

PS6.0 – Exoplanets: observation, characterisation and habitability – Posters
Convener: Daniel Winterhalter | Co-Conveners: Lisa Kaltenegger, James Cho, Antigona Segura
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: n.n.

Z77 EGU2011-2482
Jonathan Nichols
Magnetosphere-ionosphere coupling at Jupiter-like exoplanets with internal plasma sources: implications for detectability of auroral radio emissions

Z78 EGU2011-2998
Marie Behounkova, Gabriel Tobie, Gael Choblet, and Ondrej Cadek
Tidally-induced thermal runaway on extrasolar Earths: 3D results and scaling

Z79 EGU2011-5533
Yoshiyasu Watanabe and Eiichi Tajika
The effects of obliquity and carbonate-silicate geochemical cycle on the climate of water-rich extraterrestrial planets

Z80 EGU2011-5611
Maxim Khodachenko, Igor Alexeev, Elena Belenkaya, Kristina Kislyakova, Helmut Lammer, Mats Holmström, and Jean-Mathias Grießmeier
Magnetodisk dominated magnetospheres of Hot Jupiters: Implications for exoplanetary ENA cloud observations and stellar wind parameter diagnostics

Z81 EGU2011-5860
Christiane Helling, Moira Jardine, Soeren Witte, and Declan Diver
The possibility of lightning in extrasolar atmospheres

Z82 EGU2011-5862
Richard Schwarz, Nader Haghighipour, **Siegfried Eggl**, Elke Pilat-Lohinger, and Barbara Funk
Prospects of the Detection of Circumbinary Planets With Kepler and CoRoT Using the Variations of Eclipse Timing

Z83 EGU2011-8567
Paul Tackley, Hein van Heck, Michael Ammann, John Brodholt, and David Dobson
Mantle dynamics and plate tectonics on super-Earths: Effect of rheology

Z84 EGU2011-9112
James Burke and Andrea Carroll
Exoplanet Activity of The Planetary Society

Z85 EGU2011-10880
Lena Noack and Doris Breuer
Propensity of Plate Tectonics on Super-Earths: Influence of Pressure

PS7.2/AS4.16 – Aurora, Airglow and Transient Luminous Events in Planetary Atmospheres (co-organized) – Orals
Convener: Cyril Simon Wedlund | Co-Conveners: Guillaume Gronoff, Tom Slanger, Yoav Yair
Room: 32
Chairperson: Cyril Simon Wedlund and Guillaume Gronoff

08:30–08:45 EGU2011-3133
John Plane, Hilke Oetjen, Alfonso Saiz-Lopez, Bifford Williams, and Marcelo Miranda
The Sodium Nightglow

08:45–09:00 EGU2011-2305
Tom Slanger and Deepali Saran
The FeO Nightglow

09:00–09:15 EGU2011-3463
Jean-Claude Gérard, Lauriane Soret, and Arnaud Stiepen
The Mars and Venus airglow: observations and excitation processes

09:15–09:30 EGU2011-9532
Guillaume Gronoff, Cyril Simon Wedlund, Christopher Mertens, Jean Lilensten, Stephen Bougher, and Mathieu Barthelemy
UV airglow - remote sensing of the Martian upper atmosphere

09:30–09:45 EGU2011-8939
Cyril Simon Wedlund, Guillaume Gronoff, and Stephen Bougher
Retrieving exospheric temperatures from dayglow emissions at Mars

09:45–10:00 EGU2011-2924
Georg Fischer, William S. Kurth, Ulyana A. Dyudina, Anthony Wesley, Christopher Go, Marc Delcroix, Philippe Zarka, Donald A. Gurnett, and Andrew P. Ingersoll
A giant thunderstorm in Saturn's northern hemisphere

10:00–10:15 EGU2011-2579
Tai-Yin Huang, Cheng-Ling Kuo, Chih-Yu Chiang, Alfred Chen, Han-Tzong Su, and Rue-Ron Hsu
ISUAL 630nm Observations of Lightning-Induced Transient Emissions (LITEs)

PS7.2/AS4.16 – Aurora, Airglow and Transient Luminous Events in Planetary Atmospheres (co-organized) – Posters
Convener: Cyril Simon Wedlund | Co-Conveners: Guillaume Gronoff, Tom Slanger, Yoav Yair
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: Guillaume Gronoff and Tom Slanger

Z86 EGU2011-12377
Romain Maggiolo, Marius Echim, **Cyril Simon Wedlund**, Johan De Keyser, Yongliang Zhang, and Jean-Gabriel Trotignon
Combining in-situ data from Cluster with UV images from TIMED to improve the knowledge of polar cap arcs

Z87 EGU2011-8758
Cyril Simon Wedlund, Herve Lamy, Björn Gustavsson, Tima Sergienko, Ingrid Sandahl, and Urban Brändström
3D reconstruction and modelling of N2+ and OI auroral emissions using the Auroral Large Imaging System (ALIS)

Z88 EGU2011-2321
Paul Johnson, Charles Malone, Murtadha Khakoo, Jason Young, Bahar Ajdari, Xianming Liu, Joseph Ajello, and Isik Kanik
Electron-Nitrogen Collision Processes Relevant to Planetary Atmospheres

Z89 EGU2011-14078
Arturo López Ariste, Bernard Gelly, Francois Leblanc, Claude Le Men, and Cyril Simon Wedlund
Polarization of Sodium Na emission lines in Mercury's exosphere

Z90 EGU2011-14144
Véronique Bommier
Possible density diagnostic by collisional depolarization in planetary atmospheres

Z91 EGU2011-13378
Mathieu Barthelemy, Jean Lilensten, Cyril Simon Wedlund, Guillaume Gronoff, Helene Menager, Steve Miller, Mackenzie Lystrup, Hanna Rothkael, and Joran Moen
New results in polarimetry of planetary thermospheric emissions: Earth and jovian cases.

Z92 EGU2011-2692
Tom Slanger, David Huestis, and Manuel Bautista
The Emission Intensity Ratio for O(1S) Transitions

Z93 EGU2011-9537
Guillaume Gronoff, Christopher Mertens, and Cyril Simon Wedlund
The AtMoCiad database, a necessary element for the upper atmosphere community

Z94 EGU2011-3116
Arnaud Stiepen, Jean-Claude Gérard, and Jean-Loup Bertaux
Characterization of the CO2 and haze densities in the thermosphere-mesosphere region of Venus based on SPICAV observations of the nitric oxyde UV nightside airglow

Z95 EGU2011-13975
Antonio García Muñoz, Enric Pallé, Pilar Montañés Rodríguez, Antonio Cabrera-Lavers, and Felipe Murgas
A multi-site ground-based search for Venus' lightning flashes

Z96 EGU2011-2834
Daria Dubrovin, Sander Nijdam, Eddie van Veldhuizen, Ute Ebert, Yoav Yair, and Colin Price
Sprite discharges on Jupiter, Saturn and Venus: Laboratory Experiments in Planetary Gas Mixtures

Z97 EGU2011-4166
Gordon James
Visible discharge near an active high-frequency dipole in the ionosphere

Z98 EGU2011-9442
Philippe Ailleris
Towards a better understanding of unusual atmospheric events: the Unidentified Aerospace Phenomena (UAP) Observations Reporting Scheme.

PS9.2 – Results from the Rosetta Flybys of Asteroids Steins and Lutetia – Orals
Convener: Horst Uwe Keller | Co-Conveners: Rita Schulz
Room: 31
Chairperson: H.U. Keller

15:30–15:45 EGU2011-2123
Rita Schulz, Michael Küppers, and Kristin Wirth
The Rosetta Encounters with (2867) Steins and (21) Lutetia

15:45–16:00 EGU2011-7451
Laurent Jorda, Robert Gaskell, **Philippe Lamy**, Mikko Kaasalainen, Olivier Groussin, Benoit Carry, Guillaume Faury, Gilles Gesquière, Pedro Gutiérrez, and Walter Sabolo
Shape and Physical Properties of Asteroid (21) Lutetia from OSIRIS Images

16:00–16:15 EGU2011-10361
Matteo Massironi, Nicolas Thomas, Simone Marchi, Jean Baptiste Vincent, Cecilia Tubiana, Colin Snodgrass, Vania Da Deppo and the Rosetta-OSIRIS Wp8 Team
The geological units of asteroid 21 Lutetia

16:15–16:30 EGU2011-6441
Alessio Aboudan, Giacomo Colombatti, Marco Pertile, and Stefano Debei
Lutetia surface reconstruction and uncertainty analysis

16:30–16:45 EGU2011-12338
Fabrizio Capaccioni, Angioletta Coradini, Stephane Erard, Gianrico Filacchione, Maria Cristina De Sanctis, Federico Tosi, Gabriele Arnold, Eleonora Ammannito, Stefano Giuppi, and The VIRTIS Team
The surface composition of 21 Lutetia and 2867 Steins, as observed by VIRTIS onboard ROSETTA.

16:45–17:00 EGU2011-2784
Samuel Gulkis, Stephen Keihm, Lucas Kamp, Seungwon Lee, Mark Hofstadter, Michael Janssen, and Jacques Crovisier
Millimeter and submillimeter continuum observations of Asteroid (21) Lutetia with MIRO instrument on the ESA Rosetta Spacecraft

17:00–17:15 EGU2011-11092
Federico Tosi, Maria Teresa Capria, Angioletta Coradini, Fabrizio Capaccioni, Maria Cristina De Sanctis, Davide Grassi, Stéphane Erard, Gianrico Filacchione, Gabriele Arnold, and the Rosetta/VIRTIS team
The Lutetia's and Steins' surface temperatures and surface properties

PS9.2 – Results from the Rosetta Flybys of Asteroids Steins and Lutetia – Posters
Convener: Horst Uwe Keller | Co-Conveners: Rita Schulz

Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: n.n.

Z99 EGU2011-9152
Kathrin Markus, Gabriele Arnold, and Hiesinger Harald
Laboratory spectral analyses of enstatite, feldspar, oldhamite mixtures and aubrites: Implications for the Rosetta VIRTIS data evaluation of asteroid Šteins flyby

Z100 EGU2011-1945
Stefano Giuppi, Angioletta Coradini, Fabrizio Capaccioni, Maria Teresa Capria, Maria Cristina De Sanctis, Stephan Erard, Gianrico Filacchione, and Federico Tosi
Virtis / Rosetta: temperatures analysis during Lutetia Dynamic Rehearsal as an input in Lutetia Fly-By planning

Z101 EGU2011-12873
Irina Belskaya
Ground-based observations of asteroid 21 Lutetia: a critical view after the Rosetta fly-by

Z102 EGU2011-12094
Dan Andrews, Andrew Morse, Simeon Barber, Mark Leese, Geraint Morgan, Simon Sheridan, Ian Wright, and Colin Pillinger
Ptolemy operations as part of the Rosetta mission during the targeted flyby of asteroid 21 Lutetia.

Z103 EGU2011-13651
A. Chantal Levasseur-Regourd, Edith Hadamcik, Jean-Baptiste Renard, Lucy-Ann McFadden, Asoke Sen, and Jeremie Lasue
Clues to links between some meteorites and the asteroidal targets of Rosetta, from comparisons between polarimetric measurements on meteoritic samples and observations

Z104 EGU2011-5009
Seungwon Lee, Samuel Gulkis, Mark Hofstadter, Paul von Allmen, Jacques Crovisier, Nicolas Biver, and Dominique Bockelee-Morvan
Submillimeter Spectroscopic Observations of Asteroid (21) Lutetia with MIRO Instrument on the ESA Rosetta Spacecraft

PS9.3 – Venus Express and Akatsuki – Orals
Convener: Håkan Svedhem | Co-Conveners: Takeshi Imamura, Dmitriy Titov
Room: 30
Chairperson: Håkan Svedhem

08:30–09:00 EGU2011-4383
Masato Nakamura and the AKATSUKI Project Team
Return to Venus of AKATSUKI

09:00–09:15 EGU2011-9688
Takeshi Imamura and the AKATSUKI Project Team
Renewed science plan of AKATSUKI

09:15–09:45 EGU2011-5002
Stas Barabash, Jean-Andre Sauvaud and the ASPERA-4 Team
Review of results from the plasma package ASPERA-4 onboard Venus Express

09:45–10:00 EGU2011-1464
Christopher T. Russell, Jillian T.M. Daniels, Robert J. Strangeway, and Tielong L. Zhang
Venus Express Measurements of Whistler Mode Bursts Above the Polar Vortex

COFFEE BREAK

Chairperson: Dmitriy Titov

10:30–10:45 EGU2011-7955
Franck Montmessin, Jean-Loup Bertaux, Franck Lefèvre, Emmanuel Marcq, Denis Belyaev, Jean-Claude Gérard, Oleg Korablev, Anna Fedorova, Vincent Sarago, and Ann-Carine Vandaele
Discovery and characterization of an ozone layer in Venus' atmosphere

10:45–11:00 EGU2011-987
Igor Khatuntsev, Marina Patsaeva, Dimitri Titov, Wojciech Markiewicz, Nikolay Ignatiev, and Alexander Turin
Variability in the atmospheric winds on the cloud top level of Venus according to UV images obtained by VMC

11:00–11:15 EGU2011-10120
Arnaud Mahieux, Séverine Robert, Valérie Wilquet, Rachel Drummond, Ann Carine Vandaele, Anna Fedorova, and Jean-Loup Bertaux
Recent CO2 results obtained by the SOIR instrument on board Venus Express: Terminators dynamic investigation

11:15–11:30 EGU2011-12000
Håkan Svedhem, Michael Müller, Ingo Müller-Wodarg, Pascal Rosenblatt, and Sean Bruinsma
Direct density measurements in Venus' atmosphere by combined drag and torque techniques

11:30–12:00 EGU2011-6293
Sebastien Lebonnois, Stephen Lewis, Masaru Yamamoto, Christopher Lee, Jon Dawson, Peter Read, Joao Mendonca, and Helen Parish
A comparative analysis of Simplified General Circulation Models of Venus atmosphere

LUNCH BREAK

Chairperson: Takeshi Imamura

13:30–14:30 EGU2011-12729
Dmitriy Titov
From Martian water to Venus clouds: Age of Planetary Discoveries (David Bates Medal Lecture)

14:30–15:00 EGU2011-9683
Thomas Widemann
Ground-based observational constraints on the mesosphere and lower thermosphere : Coordinated campaigns with Venus Express

15:00–15:15 EGU2011-4763
Jean-Yves Chaufray, Jean-Loup Bertaux, Eric Quemerais, Francois Leblanc, and Eric Villard
Hydrogen density in the dayside Venusian exosphere derived from Lyman-alpha observations by SPICAV on Venus Express

15:15–15:30 EGU2011-7066
Alexander Pavelyev, Alexander Zaharov, and Oleg Rzhiga
Investigation of the atmosphere and surface of Venus by use of reanalysis of the radio occultation data of Venera-9, 10, and 15, 16 satellites

PS9.3 – Venus Express and Akatsuki – Posters
Convener: Håkan Svedhem | Co-Conveners: Takeshi Imamura, Dmitriy Titov
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: Håkan Svedhem

Z105 EGU2011-554
Eugene Shalygin, Alexander Basilevsky, Dmirti Titov, and Wojciech J. Markiewicz
Synthetic images of Venus surface based on VMC images

Z106 EGU2011-2985
Seiko Takagi and Naomoto Iwagami
Contrast sources for the infrared images taken by the Venus mission AKATSUKI

Z107 EGU2011-10194
Valérie Wilquet, **Arnaud Mahieux**, Séverine Robert, Rachel Drummond, and Ann Carine Vandaele
Climatology of the aerosol loading in the upper haze of Venus from SOIR measurements on-board Venus Express

Z108 EGU2011-5171
Kazunori Ogohara, Toru Kouyama, Hiroki Yamamoto, Naoki Sato, Masahiro Takagi, and Takeshi Imamura
Automated cloud tracking system for Akatsuki and Venus Express

Z109 EGU2011-391
Mayu Hosouchi, Naomoto Iwagami, Shoko Ohtsuki, and Masahiro Takagi
Venus' atmospheric waves indicated by ground-based dayside infrared spectroscopic observation

Z110 EGU2011-916
Yeon Joo Lee, Dimitri Titov, Nikolay Ignatiev, Silvia Tellmann, Martin Pätzold, and Giuseppe Piccioni
Radiative energy balance at the Venus cloud top

Z111 EGU2011-634
Joao Mendonca, Peter Read, Stephen Lewis, and Christopher Lee
New results from the Oxford Venus GCM

Z112 EGU2011-6953
Alexander Pavelyev, Anatoliy Gavrik, Yuriy Gavrik, Alexey Pavelyev, Yuei-An Liou, Jens Wickert, and Torsten Schmidt
Location of plasma layers in the ionosphere of Venus by use of the radio occultation intensity-eikonal acceleration technique

Z113 EGU2011-11518
Hannes Gröller, Helmut Lammer, Herbert I. M. Lichtenegger, Martin Pfleger, Valery I. Shematovich, and Yuri N. Kulikov
Venus day- and nightside oxygen exosphere

PS10.0/GMPV28 – Volcanism and Tectonics in the Solar System (co-organized) – Orals
Convener: Thomas Platz | Co-Conveners: Matteo Massironi, Graziella Caprarelli, Paul K. Byrne, Pascal Allemand, Harald Hiesinger
Room: 32
Chairperson: Thomas Platz, Matteo Massironi

10:30–10:45 EGU2011-1570
Ronald Greeley
Terrestrial analogs to planetary basaltic volcanism

10:45–11:00 EGU2011-4197
Krishan Khurana, Xianzhe Jia, Margaret Kivelson, Francis Nimmo, Gerald Schubert, and Christopher Russell
Evidence of a global magma ocean in Io's interior

11:00–11:15 EGU2011-658
Paul Byrne, Eoghan Holohan, Matthieu Kervyn, Benjamin van Wyk de Vries, John Murray, and Valentin Troll
A Spreading-Sagging Continuum for the Structure of Large Volcanoes on the Terrestrial Planets

11:15–11:30 EGU2011-11521
Rikke Pedersen
Remote sensing observations of active volcanic and tectonic processes in Iceland

11:30–11:45 EGU2011-814
Riccardo Pozzobon, Andrea Bistacchi, and Matteo Massironi
Association of cone sheets and radial dykes on Ascraeus Mons (Mars): structural analysis and modelling

11:45–12:00 EGU2011-8785
Amanda L. Nahm, Richard A. Schultz, and David A. Kring
Forward mechanical modeling of the Rupes Recta normal fault in eastern Mare Nubium, the Moon

12:00–12:15 **Poster Introductions & Discussion**

PS10.0/GMPV28 – Volcanism and Tectonics in the Solar System (co-organized) – Posters
Convener: Thomas Platz | Co-Conveners: Matteo Massironi, Graziella Caprarelli, Paul K. Byrne, Pascal Allemand, Harald Hiesinger
Hall Z | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: Matteo Massironi, Paul Byrne

Z114 EGU2011-14136
Paul K. Byrne, Benjamin van Wyk de Vries, Eoghan P. Holohan, John B. Murray, and Valentin R. Troll
The Influence of Lithospheric Flexure Upon the Structure of Olympus Mons

Z116 EGU2011-7772
Klaus Gwinner, James W. Head, and Lionel Wilson
Types, morphology, and significance of vent structures on the summit and flanks of Pavonis Mons, Mars

Z117 EGU2011-12975
Thomas Platz, Ernst Hauber, Oryaelle Chevrel, Laetitia Le Deit, Frank Trauthan, Frank Preusker, Ralf Jaumann, and Gerhard Neukum
Preliminary results on lava flow morphology and vent structures: an example from the Western Volcanic Zone, Iceland

Z118 EGU2011-12860
Ernst Hauber, **Thomas Platz**, Laetitia Le Deit, Oryaelle Chevrel, Bernd Hoffmann, Lena Kuhlmann, Frank Trauthan, Frank Preusker, and Ralf Jaumann
Mapping of Postglacial Icelandic Lava Flows as Analogues for Mars

Z119 EGU2011-13166
Thomas Platz and Greg Michael
Eruption history of the Elysium Volcanic Centre, Mars

Z120 EGU2011-8545
Anne Deschamps, Pascal Allemand, and Christophe Delacourt
Comparative study of volcanic landforms on Mars and on the East Pacific Rise using high-resolution AUV and HiRISE data

Z121 EGU2011-6316
Anezina Solomonidou, Georgios Bampasidis, Athena Coustenis, Konstantinos Kyriakopoulos, Karen Seymour, Mathieu Hirtzig, Emmanuel Bratsolis, and Xenophon Moussas
Morphotectonic and cryovolcanic structures on Titan and Enceladus with resemblance to terrestrial morphologies

Z122 EGU2011-165
Munkhtsetseg Oidov and **Hirokazu Fujimaki**
Magmatism in Tsagaandelger, Eastern Mongolian Volcanic belt: Petrological and Isotopic Constraints on Mesozoic Geodynamic Setting

Z123 EGU2011-3480
Glacialle Tiu, Benjamin van Wyk de Vries, and Alfredo Mahar Francisco Lagmay
Volcanic morphology, volcano alignment and basement structure in the Limagne Fault and Chaîne des Puys: perspectives for remote sensing in the solar system

Z124 EGU2011-2451
Clinton Conrad, Todd Bianco, Eugene Smith, and Paul Wessel
Patterns of intraplate volcanism on Earth controlled by asthenospheric shear

EMRP3/PS10.3 – Planetary Magnetism, PlanetMag (co-organized) – Orals
Convener: Matthias Holschneider | Co-Conveners: Mioara Mandea, Hermann Lühr, Johannes Wicht, Doris Breuer, Stuart Gilder
Room: 41
Chairperson: n.n.

15:30–15:45 EGU2011-7730
Andre Giesecke, Frank Stefani, and Gunter Gerbeth
Experimental realisation of homogeneous dynamo action

15:45–16:00 EGU2011-3051
Wieland Dietrich, Johannes Wicht, and Ulrich Christensen
The convective origin of hemispherical dynamos

16:00–16:15 EGU2011-5408
Christian Gerhards
Modeling the Earth's magneticl field by local multiscale methods

16:15–16:30 EGU2011-3530
Emmanuel Chané, Joachim Saur, and Stefaan Poedts
Modelling Jupiter's magnetosphere: Influence of the internal sources

16:30–16:45 EGU2011-9261
Jaime Urrutia-Fucugauchi, Daniel Flores-Gutierrez, Ligia Perez-Cruz, Raquel Diaz-Hernandez, and Carlos Linares-Lopez
Micromagnetic and Microstructural Analyses of Individual Chondrules From the Allende Carbonaceous Chondrite

16:45–17:00 EGU2011-5081
Nico De Koker, Gerd Steinle-Neumann, and Vojt?ch Vl?ek
Thermal Conductivity of Earth's Liquid Outer Core from First-Principles Calculations

17:00–17:15 EGU2011-3223
Jan Dostal, Zdenek Martinec, and Maik Thomas
Simulation of the ocean induced poloidal magnetic field variations by considering the conductivity contrast between ocean and continent

EMRP3/PS10.3 – Planetary Magnetism, PlanetMag (co-organized) – Posters
Convener: Matthias Holschneider | Co-Conveners: Mioara Mandea, Hermann Lühr, Johannes Wicht, Doris Breuer, Stuart Gilder
Hall A | Display Time 08:00–19:30
Author in Attendance: 17:30–19:00
Chairperson: Johannes Wicht

A15 EGU2011-13344
Kevin Lewis and Frederik Simons
Structure and Heterogeneity of the Martian Crustal Magnetic Field

A16 EGU2011-9986
Christoph Egbers and Nicoleta Scurtu
Magnetorotational-type instability in Couette-Taylor flows of viscoelastic polymer liquids

A17 EGU2011-3387
Mario Seufert, Joachim Saur, and Fritz M. Neubauer
Electromagnetic induction at Ganymede

A18 EGU2011-3888
Glenn Sterenborg and John Crowley
Thermal Evolution of Early Solar System Planetesimals and the Possibility of Sustained Dynamos

A19 EGU2011-6502
ludovic Petitdemange and **Hubert Klahr**
Wave generation in rotating and non-rotating MHD Spherical Couette Flow with an applied vertical magnetic field

A20 EGU2011-7562
Julia Ernst-Hullermann, Helmut Harder, and Ulrich Hansen
Finite Volume simulations of dynamos in ellipsoidal planets

A21 EGU2011-8519
Rob Shore, Kathy Whaler, Susan Macmillan, and Ciaran Beggan
Methods for Processing Satellite Constellation Measurements of Earth-External Magnetic Field Sources

A22 EGU2011-3054
Johannes Wicht
Flow and magnetic instabilities in the spherical Couette system

A23 EGU2011-3945
Xing Wei
Kinematic dynamo in spherical Couette flow

A24 EGU2011-6172
ludovic Petitdemange and Emmanuel Dormy
Axisymmetric and non-axisymmetric MagnetoStrophic MRI modes

A25 EGU2011-8518
Céline Guervilly, Philippe Cardin, and **Nathanael Schaeffer**
A dynamo driven by zonal jets at the upper surface in the giant planets

Friday, 08 April

PS2.2 – Lunar Science and Exploration – Orals
Convener: Bernard Foing | Co-Conveners: Harald Hiesinger
Room: 31
Chairperson: n.n.

08:30–08:45 EGU2011-6647
Björn Grieger, Jean-Luc Josset, Horst Uwe Keller, Manuel Grande, and Bernard H. Foing
The SMART-1 AMIE, SIR, and D-CIXS data sets in ESA's Planetary Science Archive

08:45–09:00 EGU2011-10352
Yoshifumi Futaana, Charles Lue, Stas Barabash, and Martin Wieser
Global influence of lunar crustal fields on the solar wind flow

09:00–09:15 EGU2011-13033
Gongyou Wu, Ck Shum, Yuchan Yi, Hok Sum Fok, Sander Goossens, Koji Matsumoto, Hiroshi Araki, Chunli Dai, Xiaogong Hu, H. Bâki lz and the Lunar study Team
Lunar Topography and Regional Gravity Field Modeling Using Multiple Platform Laser Altimetry and Crossovers

09:15–09:30 EGU2011-8609
Richard R. Vondrak, **John W. Keller**, Gordon Chin, Noah Petro, James Rice, and James Garvin
The Lunar Reconnaissance Orbiter: Plans for the Science Phase

09:30–09:45 EGU2011-4674
David E Smith, Maria T Zuber, Gregory A Neumann, Erwan Mazarico and the LOLA Science Team
Recent Results from the LOLA Instrument on LRO

09:45–10:00 EGU2011-4459
Maxim Litvak, Igor Mitrofanov, Anton Sanin and the LEND Team
Observation of Moon polar shadow regions from comparative analysis of LEND and LOLA data onboard LRO mission

COFFEE BREAK

Chairperson: B.H. Foing/ H. Hiesinger

10:30–10:45 EGU2011-11798
Ben Bussey and The Mini-RF Team
Mini-RF: Mapping the Moon with Radar

10:45–11:00 EGU2011-12878
Harald Hiesinger, Carolyn H. van der Bogert, Dennis Reiss, and Mark S. Robinson
New Absolute Model Ages of Basalts in Mare Crisium

11:00–11:15 EGU2011-12665
Jeffrey Plescia and Mark Robinson
Locations and Geology of the Soviet Lunar Rover and Sample Return Missions

11:15–11:30 EGU2011-4264
Maria T Zuber, David E Smith, Michael Watkins and the GRAIL Science Team
The GRAIL Discovery Mission for Launch Sept 2011

11:30–11:45 EGU2011-5107
Richard Elphic, Gregory Delory, Anthony Colaprete, Mihaly Horanyi, Paul Mahaffy, Butler Hine, Steven McClard, Joan Salute, Edwin Grayzeck, and Don Boroson
NASA's Lunar Atmosphere and Dust Environment Explorer (LADEE)

11:45–12:00 EGU2011-5027
Igor Mitrofanov, Lev Zelenyi, Vladislav Tretyakov, and Vladimir Dolgopolov
Scientific investigations of lunar poles by LUNA-GLOB and LUNA-RESOURCE missions

12:00–12:15 EGU2011-12161
Gerald Sanders
Incorporation of In-Situ Resource Utilization into Short Duration Human Lunar Exploration Missions

PS2.2 – Lunar Science and Exploration – Posters
Convener: Bernard Foing | Co-Conveners: Harald Hiesinger
Hall Z | Display Time 08:00–17:00
Author in Attendance: 13:30–15:00
Chairperson: B.H. Foing/ H. Hiesinger

Z1 EGU2011-386
Jun Cui, Xiaodong Wang, Jianjun Liu, Xin Ren, Xiaoqian Wang, Fang Wang, Qiang Fu, Chunlai Li, and Ziyuan Ouyang
First Chang'E-2 results of the lunar plasma environment: Observation of a plasma void near the Serenitatis antipode?

Z2 EGU2011-1064
Guerric de Crombrugghe de Looringhe
A research and training expedition preparing for a human mission to the Moon

Z3 EGU2011-4808
Barbara Atamaniuk and Hanna Rothkaehl
Transport of charged grains in Lunar environment.

Z4 EGU2011-5039
Igor Mitrofanov, Maxim Litvak, Anton Sanin and the LEND Team
Lunar Polar Areas of Water-Rich Permafrost According to LEND/LRO Data

Z5 EGU2011-5089
Konstantinos Grigoropoulos, George Stefanopoulos, John Bozovitis, and Konstantinos Dimas
Unusual luminous object transit to moon mass in the locality,of Mare Serenitatis

Z6 EGU2011-6723
Andrei M. Sadovski, **Dmitrii A, Vavilov**, and Alexander A. Skalsky
Magnetization of Moon: origin and relevant physical phenomena

Z7 EGU2011-8905
Ruth Ziethe and Tilman Spohn
Constraints for a solid inner core in the Earth's Moon

Z8 EGU2011-9584
Xiao-Dong Wang, Qiu-Gang Zong, Jing-Song Wang and the Chang'E-1 Ground Research and Application System Team
Ion dynamics in the lunar plasma environment observed by Chang'E-1/SWIDs

Z9 EGU2011-12408
Luis Teodoro, Richard C. Elphic, Vincent R. Eke, Matthew Siegler, and Norbert Schörghofer
Constraining Models of Water Migration in the Lunar Subsurface

Z10 EGU2011-12675
Jeffrey Plescia and Mark Robinson
Constraints on the Youngest Absolute Lunar Crater Chronology

Z11 EGU2011-12692
Ben Bussey, Josh Cahill, Daven Quinn, Andy McGovern, Paul Spudis, Hirotomo Noda, Yoshiaki Ishihara, and Soren Sorensen
Determining Lunar Polar Illumination Conditions using Kaguya & LRO Topography

Z12 EGU2011-13537
Erwan Mazarico, David Rowlands, David Smith, Maria Zuber, Gregory Neumann, and Mark Torrence
Precision Orbit Determination for the Lunar Reconnaissance Orbiter

Z13 EGU2011-4972
Anton Sanin, Igor Mitrofanov, Maxim Litvak and the LEND Team
Global mapping of neutron emission from the Moon according to LEND data.

Z14 EGU2011-10125
Karin Bauch, Harald Hiesinger, Mark Robinson, and Frank Scholten
Thermophysical Properties of Selected Lunar Study Regions Determined from LROC and Diviner Data.

Z15 EGU2011-834
Jonathan Besserer, Mathieu Le Feuvre, Gabriel Tobie, Gael Choblet, and Antoine Mocquet
Coupling tidal interactions and internal dynamics of the early Earth-Moon system

Z16 EGU2011-3325
Michael Le Bars, David Cebron, Mark Wieczorek, Ozgur Karatekin, and Matthieu Laneuville
An impact driven dynamo for the early Moon

Z17 EGU2011-5345
Richard Elphic, Luis F. A. Teodoro, Vincent R. Eke, David A. Paige, Matthew A. Siegler, and Anthony Colaprete
Reconciling LCROSS and Orbital Neutron Water Abundance Estimates in Cabeus Crater

PS4.0 – Small bodies and Dust – Orals
Convener: Nicolas Altobelli | Co-Conveners: Gerhard Schwehm
Room: 32
Chairperson: Nicolas Altobelli

13:30–13:45 EGU2011-8865
Carol Raymond, Christopher Russell, Marc Rayman, and Robert Mase
Dawn's Exploration of 4 Vesta in 2011

13:45–14:00 EGU2011-10691
M. Cristina De Sanctis, Angioletta Coradini, Eleonora Ammannito, M. Teresa Capria, Fabrizio Capaccioni, Gianrico Filacchione, Sergio Fonti, Gianfranco Magni, Federico Tosi, and Dawn Team
VIR Experiment onboard of Dawn mission: Vesta spectral investigation

14:00–14:15 EGU2011-2507
Ralf Jaumann and the Dawn Geosciences Team
Geoscientific Mapping of the Asteroid Vesta by NASA's Dawn mission.

14:15–14:30 EGU2011-7602
Frank Postberg and the ISPE Team
Capturing Stardust - Advanced Studies of Interstellar Dust Analogue Tracks in Stardust Flight Spare Aeogel

14:30–14:45 EGU2011-13611
Mihaly Horanyi, Antal Juhasz, David Malaspina, Zoltan Sternovsky, Sascha Kempf, Eberhard Gruen, Ralf Srama, and Frank Postberg
Dust Tomography of the Heliosphere

14:45–15:00 EGU2011-7845
Rachel Halina Soja, Nicolas Altobelli, and Douglas P. Hamilton
Retrograde particles in Galileo Dust Detector Data

15:00–15:15 EGU2011-2547
Martin Rubin, Kenneth C. Hansen, Michael R. Combi, Valeriy M. Tenishev, and Tamas I. Gombosi
Modeled instabilities at the magnetic cavity boundary of comet 67P/Churyumov-Gerasimenko

Chairperson: Frank Postberg

15:30–15:45 EGU2011-9043
Victoria Yaroshenko, Wojciech Miloch, Sergey Vladimirov, and Gregor Morfill
Cassini charging at Saturn insertion orbit

15:45–16:00 EGU2011-6537
Jean-Loup Bertaux, Brigitte Gondet, Jean-Pierre Bibring, Franck Montmessin, and Eric Quémerais
The albedo spectrum of Phobos from UV to IR obtained with SPICAM and OMEGA on Mars Express

16:00–16:15 EGU2011-10432
Mikko Kaasalainen, Matti Viikinkoski, Josef Durech, and Benoit Carry
Maximum compatibility estimate for asteroid models from multiple data sources

16:15–16:30 EGU2011-12933
Anna Mocker, Eberhard Grün, Jonathan Hillier, Sascha Kempf, and Ralf Srama
Calibration methods for in-situ micrometeorite sensors

16:30–16:45 EGU2011-38
Valerio Carruba and Alessandro Morbidelli
On the first Î½6 anti-aligned librating asteroid family of Tina

16:45–17:00 EGU2011-13524
Eliot Young
How to detect Eris' atmosphere: stellar occultations in the diffraction-dominated regime

PS4.0 – Small bodies and Dust – Posters
Convener: Nicolas Altobelli | Co-Conveners: Gerhard Schwehm
Hall Z | Display Time 08:00–17:00
Author in Attendance: 10:30–12:00
Chairperson: Ralf Srama

Z18 EGU2011-1432
Yukihito Kitazawa, Haruhisa Matsumoto, Akira Sakurai, Toshiya Handa, and Sunao Hasegawa
Status Report of Development of In-situ Dust Sensor

Z19 EGU2011-2559
Cecilia Tubiana, Colin Snodgrass, Jean-Baptiste Vincent and the the OSIRIS and P/2010 A2 ground based observing teams Team
The P/2010 A2 asteroid collision confirmed by Rosetta/OSIRIS observation

Z20 EGU2011-2725
Ivana Richterova, Zdenek Nemecek, Jiri Pavlu, Martin Beranek, and Jana Safrankova
Modeling the secondary emission yield of salty ice dust grains

Z21 EGU2011-3736
Oleg Shchuko, Svetlana Shchuko, Daniil Kartashov, and Roberto Orosei
Kuiper Belt objects: interior matter differentiation for different composition of accretion material

Z22 EGU2011-4089
Katrin Krohn, Jaumann Ralf, Russel Christopher T., Raymond Carol A., Pieters Carle M., Wagner Roland, and van Gasselt Stephan
Lunar geological structure catalog for Dawn

Z23 EGU2011-4207
Carla Taricco, Narendra Bhandari, **Paolo Colombetti**, Alberto Romero, Gianna Vivaldo, Neeharika Sinha, Peter Jenniskens, Muawia Shaddad, and G. m. Ballabh
Asteroid 2008 TC3, Almahata Sitta meteorite and cosmogenic radioisotopes

Z24 EGU2011-6182
Wlodek Kofman, Alain Herique, Jean-Pierre Goutail, Sonia Zine, and Consert Team
Consert / Rosetta : status of the experiment

Z25 EGU2011-6702
Ingrid Mann, Johan De Keyser, and Hervé Lamy
Cometary Coma Composition: chemical reactions versus dust-generated gas

Z26 EGU2011-7606
Jeremy Guignard and Mickael Toplis
Textural characterization of iron rich-phases in H-ordinary chondrites: A new parameter to quantify the thermal metamorphism and constrain the thermal history of the parent body

Z27 EGU2011-10045
Claudia Faber, **Martin Knapmeyer**, Julia Hoppe, Hans-Herbert Fischer, and Klaus Seidensticker
On the location of acoustic sources on comet 67P/Churyumov-Gerasimenko

Z28 EGU2011-11327
Joel Poncy
The TNOs in perspective: a two-third majority among the 100 largest bodies of our Solar System

Z29 EGU2011-14012
Oliver Hartman and Gerhard Neukum
A Lunar-like Chronology Model as Estimator for the Mass Depletion of the Asteroid Belt

Z30 EGU2011-13179
Nicolas Altobelli, Sascha Kempf, Veerle Sterken, Ralf Srama, Georg Moragas, and Eberhard Gruen
CASSINI-CDA's hunt for exogenous dust around Saturn: confronting modeling with data

Z31 EGU2011-13427
Veerle Sterken, Nicolas Altobelli, Sascha Kempf, Frank Postberg, Ralf Srama, Gerhard Schwehm, and Eberhard Grün
Modeling the interstellar dust flow through the solar system, implications for Stardust Mission

Z32 EGU2011-13472
Geraint Jones and the Caroline Team
Caroline: A Search for the Source of Earth's Water

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

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
Gérard 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 Fränz, 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 Fränz, 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

PS6.1 – Origin and formation of planets, dynamics and natural processes of Solar system bodies. In Honor of the 60-year Anniversary of Prof. Yury Barkin. – Orals
Convener: Yury Barkin | Co-Conveners: Natalia Petrova, Jose Manuel Ferrandiz, Yann Alibert, Christopher Broeg, Jean Souchay, Jerome Noir
Room: 32
Chairperson: Jose Ferrandiz,Jerome Noir

08:30–08:45 EGU2011-3523
David Cebron, Claire Moutou, Michael Le Bars, and Patrice Le Gal
Tidal instability in exoplanetary systems evolution

08:45–09:00 EGU2011-10798
Frank Sohl, Hauke Hussmann, and Frank W. Wagner
Dissipation of tidal energy in synchronously rotating satellites and super-Earths
09:00–09:15 EGU2011-14067
Ruth Ziethe, Peter Wurz, and Helmut Lammer
The Interior and Surface Environment of Corot-7b
09:15–09:30 EGU2011-1242
Miles Osmaston
What can Triton's retrograde orbit tell us about how the Giant Planets (and others) were constructed?
09:30–09:45 EGU2011-1529
Yurie Khachay and **Vsevolod Anfilogov**
On the temperature and pressure evolution in the forming core and mantle on the stage of Earth's accumulation.
09:45–10:00 EGU2011-3148
Jerome Noir, David Cebron, Michael Le Bars, and Jonathan Aurnou
Libration-driven flows in planetary cores and subsurface oceans

COFFEE BREAK

Chairperson: Yury Barkin, Christopher Broeg

10:30–10:45 EGU2011-2032
Koji Matsumoto, Fuyuhiko Kikuchi, Takahiro Iwata, Yusuke Kono, Seiitsu Tsuruta, Hideo Hanada, Sander Goossens, Yoshiaki Ishihara, Shunichi Kamata, and Sho Sasaki
VLBI radio sources on a lander and an orbiter for study of lunar internal structure proposed for SELENE-2 mission
10:45–11:00 EGU2011-11500
Yury Barkin and Jose Ferrandiz
About the angles of inclination of the rotational axis and the angular momentum of Mercury
11:00–11:15 EGU2011-4336
Matthew Tiscareno, Peter Thomas, and Joseph Burns
Rotation of Janus and Epimetheus, and other moons of Saturn
11:15–11:30 EGU2011-3029
Benoît Noyelles
Theory of the rotation of Janus and Epimetheus
11:30–11:45 EGU2011-2117
Martin Lara, ToShio FukuShima, and Sebastián Ferrer
Ceres' Rotation Solution under the Gravitational Torque of the Sun
11:45–12:00 EGU2011-11280
Nicolas Rambaux, Tim Van Hoolst, and Ozgur Karatekin
Librational response of Europa, Ganymede, and Callisto for a non-Keplerian orbit
12:00–12:15 EGU2011-3081
Rose-Marie Baland, Tim Van Hoolst, Marie Yseboodt, and Özgür Karatekin
The influence of a subsurface ocean on the obliquity of Titan

PS6.1 – Origin and formation of planets, dynamics and natural processes of Solar system bodies. In Honor of the 60-year Anniversary of Prof. Yury Barkin. – Posters
Convener: Yury Barkin | Co-Conveners: Natalia Petrova, Jose Manuel Ferrandiz, Yann Alibert, Christopher Broeg, Jean Souchay, Jerome Noir
Hall Z | Display Time 08:00–17:00
Author in Attendance: 13:30–15:00
Chairperson: Martin Lara, Yury Barkin

Z33 EGU2011-4612
Mikhail Barkin, Daria Novikova, and Alexandra Filippova
Information models of EOP in the study of geophysical processes of the planetary scale
Z34 EGU2011-4624
Leonid Akulenko, Yury Markov, Vadim Perepelkin, and Lidiya Rykhlova
Variations of the Atmosphere Angular Momentum and the Irregularities of The Earth Rotation
Z35 EGU2011-13762
Natalia Bulatova
Spatio-temporal Technology Application for Studing of Earth's Active Processes and Celestial Bodies Oscillation Dynamics

Z36 EGU2011-6457
Christopher Broeg and Willy Benz
Formation of giant planets: episodic impacts vs. gradual core growth

Z37 EGU2011-998
Eva Pajorova
Dynamical Evolution of the Oort Cloud formation - Visualisation

Z38 EGU2011-1355
Vasily Ferronsky
The nature and mechanism of the Solar System bodies creation, separation, and orbiting

Z39 EGU2011-298
Salvatore A. Cimorelli and Charles Samuels
Explanations for Temperature Increases in the Northern and Southern Atlantic Ocean are Proposed

Z40 EGU2011-418
David Cebron, Michael Le Bars, Pierre Maubert, and Patrice Le Gal
Numerical study of tides driven flows in planetary cores and subsurface oceans

Z41 EGU2011-4594
Mikhail Barkin, Valeriy Bondarenko, Yury Markov, and Vadim Perepelkin
Dynamic Analysis of a Model of the Axial Rotation of the Earth

Z42 EGU2011-9008
Yury Barkin
Cassini's angles and periods of free librations of synchronous satellites in Solar system for their rigid nonspherical models

Z43 EGU2011-13342
Tina Rückriemen, Doris Breuer, and Tilman Spohn
Implications of the Fe-snow regime on inner core growth and thermal buoyancy in Ganymede's core

Z44 EGU2011-11342
Miguel de Val-Borro, Gösta Gahm, Eric Stempels, and Adam Peplinski
Modelling Line Emission from T Tauri Binaries

Z45 EGU2011-3364
Alban Sauret, David Cebron, Stéphane Le Dizès, and **Michael Le Bars**
Libration-driven zonal flows in planetary fluid cores

SSS2.2/EMRP15/GM10.2/PS7.0 – Modeling the Experiment, Experimenting the Models (co-organized) – Orals
Convener: Manuel Seeger | Co-Conveners: Luigi Colangeli, Javier Martin-Torres, Nikolaus J. Kuhn, Karsten Seiferlin, Markus Casper, Derek W. G. Sears, Ulrike Scherer, Ruth Ziethe, Tobias Heckmann, Sandra Schumacher
Room: 9
Chairperson: Manuel Seeger

08:30–08:45 EGU2011-2476
Mike Kirkby
Modelling overland flow generation on a rough hillslope

08:45–09:00 EGU2011-2012
Afshin Ghahramani and Yoshiharu Ishikawa
Rain splash transport over steep hillslope; modeling of transport

09:00–09:15 EGU2011-629
Stefan Wirtz, Manuel Seeger, and Johannes B. Ries
Experimental validation of basic model assumptions

09:15–09:30 EGU2011-5410
Zhengyao Nie, Gavan McGrath, and **Christoph Hinz**
Rock particle fragmentation, as an alternative to fluvial transport, explains size sorting on arid hillslopes

09:30–09:45 EGU2011-10118
Olivier Dewitte, Claudio Bosco, Miet Van Den Eeckhaut, and Mohamed Daoudi
A statistical approach to predict gully initiation susceptibility with common spatial data

09:45–10:00 EGU2011-1025
Aleksey Sidorchuk
Stochastic theory of soil erosion: the novel approach to modelling and experimentation

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COFFEE BREAK

Chairperson: Ulrike Scherer, Luigi Colangeli

10:30–10:45 EGU2011-1311
Michael Dietze and Arno Kleber
Orientation patterns of stone pavements: from field experiments to a physically-based model and towards laboratory experiments

10:45–11:00 EGU2011-7977
An Van den Putte, Gerard Govers, Jan Diels, Annemie Leys, Christoph Langhans, and Wim Clymans
Can rainfall simulation data be used to parameterize a dynamic infiltration model?

11:00–11:15 EGU2011-2287
Willem Maetens, Jean Poesen, and Matthias Vanmaercke
Confrontation of the PESERA map with measured soil loss rates at plot scale

11:15–11:30 EGU2011-2938
Jonathan Merrison, Haraldur Gunnlaugsson, Christina Holstein-Rathlou, Svend Knak Jensen, Per Nørnberg, and Keld Rasmussen
Granular Electrification, Sand Transport and Mineralogy.

11:30–11:45 EGU2011-6606
Gregor Golabek, Tobias Keller, **Taras Gerya**, Paul Tackley, Guizhi Zhu, and James Connolly
Core and early crust formation on Mars

11:45–12:00 EGU2011-8070
Rafael Escribano, Oscar Gálvez, Belén Maté, Miguel A. Moreno, Víctor J. Herrero, and F. Javier Martín-Torres
Anomalies in the spectra of planetary ice particles

LUNCH BREAK

Chairperson: Javier Martin Torres

13:30–13:45 EGU2011-10584
Ha Tran, Jean-Michel Hartmann, and Geoffrey Toon
Line-mixing effects on spectral shape and consequences for laboratory and atmospheric spectra analyses

13:45–14:00 EGU2011-8929
Ludmilla Kolokolova
Remote Sensing of Aggregated Aerosols Using Photopolarimetry

14:00–14:15 EGU2011-13452
Enric Palle
Earthshine measurements and extrasolar planet spectral retrieval

14:15–14:30 EGU2011-10233
Séverine Robert, Arnaud Mahieux, Valérie Wilquet, Rachel Drummond, Ann Carine Vandaele, Jean Vander Auwera, Yuri Borkov, Valery I. Perevalov, Sergei A. Tashkun, and Jean-Loup Bertaux
Analysis of new Absorption Bands of the Carbon Dioxide Isotopologues in Venus Spectra

14:30–14:45 EGU2011-2366
David Jacquemart
Recent progress in acetylene laboratory measurements for astrophysical applications

14:45–15:00 EGU2011-12177
Wladimir Neumann, Doris Breuer, and Tilman Spohn
The efficiency of magma heat transport in accreting planetesimals

SSS2.2/EMRP15/GM10.2/PS7.0 – Modeling the Experiment, Experimenting the Models (co-organized) – Posters
Convener: Manuel Seeger | Co-Conveners: Luigi Colangeli, Javier Martin-Torres, Nikolaus J. Kuhn, Karsten Seiferlin, Markus Casper, Derek W. G. Sears, Ulrike Scherer, Ruth Ziethe, Tobias Heckmann, Sandra Schumacher
Hall Z | Display Time 08:00–17:00
Author in Attendance: 15:30–17:00
Chairperson: Nikolaus Kuhn

Z58 EGU2011-8109
Pelin Aklik and Wei Wu
Centrifuge modeling of geotextile reinforced slopes

Z59 EGU2011-13632
Constance Bornkampf and Jürgen Schmidt
Experimental research and modelling macropore flow in soils

Z60 EGU2011-870
Tom Coulthard, Greg Hancock, and John Lowry
Modelling soil erosion with a downscaled landscape evolution model

Z61 EGU2011-1433
Stefan Strohmeier and Andreas Klik
Erosion Plot Monitoring: Impact of different Tillage Systems on average annual Soil Erosion and the Significance of Extreme Rainfall Events

Z62 EGU2011-1625
Nikolaus J. Kuhn and Elizabeth K. Armstrong
Organic Matter erosion from sandy soils: solving the mass balance

Z63 EGU2011-4123
Ulrike Scherer, Erwin Zehe, Klaus Traebing, and Kai Gerlinger
Parameterisation of a soil detachment model using rainfall simulation experiments

Z64 EGU2011-5740
Claude Mügler, Olivier Planchon, Jérémy Patin, Sylvain Weill, Norbert Silvera, Patricia Richard, and Emmanuel Mouche
Modelling of overland flow and tracer transport experiments under simulated rainfall at plot scale

Z65 EGU2011-7541
Verena Butzen, Manuel Seeger, Markus Casper, and Johannes B. Ries
Parameterization of the process-based soil erosion model LISEM by means of experimental measurements

Z66 EGU2011-7857
Mazhar Ali, Geert Sterk, and Piet Peters
Influence of hydraulic parameters on sediment transport in shallow flows

Z67 EGU2011-888
Mazhar Ali, Geert Sterk, Manuel Seeger, and Leo Stroosnijder
Experimental Estimation of Mean Flow Velocity under Overland Flow

Z68 EGU2011-12811
Lucy Clarke, Timothy Quine, and Andrew Nicholas
Experimental study of flow width dynamics on alluvial fans

Z69 EGU2011-12945
Marc Biancheri - Astier, Valérie Ciarletti, and Alain Reineix
3D characterization of the deep sub-surface by a bistatic HF GPR operating from the surface

Z70 EGU2011-4665
María J. García-Algaba, **Encarnación V. Taguas**, Luciano Mateos, and José A. Gómez
Describing and modelling the rainfall-runoff pattern of an olive orchard large catchment in Southern Spain

Z71 EGU2011-875
Mary Elise Rumpf, Sarah Fagents, Christopher Hamilton, and Ian Crawford
The Search for a Solar Record in Lunar Paleoregoliths through Numerical Modeling and Analogous Experiments

Z72 EGU2011-2006
Hiroko Nagahara and Kazuhito Ozawa
Phyllosilicate and its role on the evolution of organic materials in the early solar nebula

Z73 EGU2011-2378
Attila Császár, Csaba Fábri, and Edit Mátyus
Toward a Line List for Methane

Z74 EGU2011-2728
Jiri Pavlu, Martin Beranek, Jakub Vaverka, Ivana Richterova, Zdenek Nemecek, and Jana Safrankova
Lunar dust simulants (LHT, JSC, MLS) compared in the frame of secondary emission

Z75 EGU2011-3601
Juris Freimanis
Polarized radiative transfer equation in some special curvilinear coordinate systems

Z76 EGU2011-13174
Erwan Tréguier, Albrecht Schmidt, Frédéric Schmidt, Alejandro Cardesín, Stéphane Erard, Patrick Martin, Patrick Pinet, Saïd Moussaoui, and Nicolas Dobigeon
Analysis of a collection of planetary hyperspectral images through non-negative source separation

Z77 EGU2011-4899
Marie-Claire Gazeau, Yves Benilan, Et-Touhami Es-Sebbar, Antoine Jolly, Emmanuel Arzoumanian, Nicolas Fray, and Hervé Cottin
Characterization of continuous vacuum ultraviolet lamps - Implication on the study of methane photolysis at Lyman alpha (121.6 nm)

Z78 EGU2011-7729
Jeremy Guignard, Misha Bystricky, and Mickael Toplis
Grain Growth in Experimental Forsterite ± Metal ± Silicate Melt Systems: Analogues of Chondritic and Achondritic Parent Bodies.

Z79 EGU2011-9862
Alexander Stiegler and Günter Kargl
A broadband frequency characterisation of Martian analogue dielectric behaviour

Z80 EGU2011-11540
Olivia Golle, **Caroline Dumoulin**, Ondrej Cadek, and Gael Choblet
A method to compute topography and geoid from viscous convection overlaid by an elastic lithosphere

Z81 EGU2011-12375
Javier Martin-Torres, Alejandro Soto, Mark Richardson, Ian McEwan, and Javier Gómez-Elvira
Radiative Transfer Calculations for the REMS/Mars Science Laboratory Ground Temperature Sensors

Z82 EGU2011-12284
Javier Martin-Torres
Calculation of Refraction Indices of Mars and Terrestrial Atmospheres Using Spectroscopic Databases

Z83 EGU2011-2972
Jonathan Merrison, Line Drube, Haraldur Gunnlaugsson, Christina Holstein-Rathlou, Svend Knak Jensen, Jon Mason, Morten Bo Madsen, Per Nørnberg, and Manish Patel
Research Using the European Mars Simulation Wind Tunnel Facility

Z84 EGU2011-2727
Jakub Vaverka, Jiri Pavlu, Martin Beranek, Ivana Richterova, Jana Safrankova, and Zdenek Nemecek
Secondary emission from Martian soil simulant

PS8.0 – Habitability in the Solar System: Mars, early Earth, and the outer Solar System – Orals
Convener: Helmut Lammer | Co-Conveners: Jorge L. Vago, Marc Chaussidon, François Raulin, Olga Prieto-Ballesteros
Room: 29
Chairperson: Helmut Lammer, Jorge L. Vago,

15:30–15:45 EGU2011-3508
Jean-Pierre Paul de Vera, Andreas Lorek, and Alexander Koncz
Recent Mars: a habitable planet?

15:45–16:00 EGU2011-1453
Victor Parro and the ATACAMARS2009 Team
A new hypersaline habitat in the Atacama subsurface boosts options for life on Mars

16:00–16:15 EGU2011-6374
Anke Hamann-Reinus, Markus Kunze, Ulrike Langematz, Mareike Godolt, John Lee Grenfell, Heike Rauer, and Patrick Jöckel
A parameter study of the atmosphere with a reduced continental distribution with the EMAC-model

16:15–16:30 EGU2011-9151
Samuel Kounaves
The Expected Dominance of Biotic and Abiotic L-Chirality on Mars and in the Solar System

16:30–16:45 EGU2011-13365
Jean-Luc Josset and the CLUPI Science Team
CLUPI: the High-Performance Close-up Camera System on board the 2018 ExoMars Rover.

16:45–17:00 EGU2011-1219
Julian Chela Flores
Evolutionary biomarkers on the icy galilean satellites: from bacteria to metazoans

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PS8.0 – Habitability in the Solar System: Mars, early Earth, and the outer Solar System – Posters
Convener: Helmut Lammer | Co-Conveners: Jorge L. Vago, Marc Chaussidon, François Raulin, Olga Prieto-Ballesteros
Hall Z | Display Time 08:00–17:00
Author in Attendance: 13:30–15:00
Chairperson: François Raulin, Olga Prieto-Ballesteros

Z46 EGU2011-9690
Max Coleman, Harel Gal, Zeev Ronen, and Noam Weisbrod
Remarkable habitability of a low water, low organic matter environment fueled by perchlorate

Z47 EGU2011-10246
Amaranta Pucci, Sergio Branciamore, Luigi Paolo D'Acqui, and Enzo Gallori
Mineral matrix complexity during prebiotic evolution

Z48 EGU2011-11352
Claude Geffroy, Neil –Yohan Musadj, Claude Fontaine, and Robert Sternberg
Possible preservation of amino acids in calcium carbonates

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 Omidi, 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 Voitcu, 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 mecanisms 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 Lembege, 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 Lembege
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 exited 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

GM2.2/NH10.3/PS10.2 – Digital Landscapes: From Laser Scanning and High-resolution Measurement Technologies to Quantitative Interrogation of Geomorphic Processes (co-organized) – Orals
Convener: John K. Hillier | Co-Conveners: Sanjeev Gupta, Lara Kalnins, David Mason, Paolo Tarolli, Paola Passalacqua, Dirk Rieke-Zapp, Balázs Székely, Bernhard Höfle, Norbert Pfeifer, Jim Chandler, Alexander Reiterer
Room: 21
Chairperson: n.n.

10:30–10:45 EGU2011-633
Elina Kasvi, Hannu Hyyppä, Anttoni Jaakkola, Joni Mäkinen, Juha Hyyppä, and Petteri Alho
Estimating sediment features and hydraulic parameters on a sand bedded point bar using LiDAR height and intensity and high resolution UAV-based images

10:45–11:00 EGU2011-9479
Sarah Derouin and Lucille Piety
Seeing faults through the trees: A case study on using LiDAR in highly vegetated areas to determine fault activity and geomorphology

11:00–11:15 EGU2011-4647
Francesco Zucca, Fabio Remondino, Giorgio Agugiaro, Marco Franceschi, Davide Zizioli, and Christian Peloso
Mapping the vertical: Oblique LIDAR acquisition for mapping Dolomites cliff (NE Italy)

11:15–11:30 EGU2011-11858
Christoph Siart, Markus Forbriger, and Matthieu Ghilardi
Fusing surface and subsurface geodata: a case study on Cretan karst landforms

11:30–11:45 EGU2011-10198
Robert Barneveld
Measuring microtopography with Terrestrial Laser Scanning: Aspects of data quality

11:45–12:00 EGU2011-7933
Gottfried Mandlburger, Johannes Otepka, Wilfried Karel, Markus Hollaus, Camillo Ressl, Alexander Haring, Christian Briese, Gabor Molnar, and Bernhard Höfle
OPALS - a comprehensive laser scanning software for geomorphological analysis

LUNCH BREAK

Chairperson: n.n.

13:30–13:45 EGU2011-11459
Jean-Stephane Bailly and Carole Delenne
Riverbed image simulation for a better exploration of coarse-grained sediment sizing image analysis methods

13:45–14:00 EGU2011-3631
Thomas Dewez, Christian Mathon, Hiromi Kobayashi, Aude Nachbaur, Olivier Sedan, Frederic Berger, Emilie Nowak, and Emmanuel Des Garets
Real-size rockfall trajectory and derived mechanical quantities from close-range stereo video experiment in Tahiti, French Polynesia

14:00–14:15 EGU2011-1329
Dirk Rieke-Zapp
In situ measurement of bedrock erosion

14:15–14:30 EGU2011-4479
Rafael Caduff, Fritz Schlunegger, Andrew Kos, Charles Werner, and Andreas Wiesmann
Assessment of precise spatial and temporal slope deformation with the GAMMA Portable Radar Interferometer in the Illgraben debris flow catchment, Central Swiss Alps

14:30–14:45 EGU2011-5193
Chih-Ming Tseng, Ching Weei Lin, and Jin King Liu
Application of High-resolution LiDAR-derived DEM in Landslide Volume Estimation

14:45–15:00 EGU2011-4065
David Hodgetts
Quantitative geology from digital outcrop data for the characterisation of hydrocarbon reservoirs.

Chairperson: Paola Passalacqua

15:30–15:45 EGU2011-10133
Tim Le Bas, Aaron Micallef, and Philippe Blondel
Use of texture analysis techniques for digital mapping of underwater environments: The case of a submerged karstic landscape offshore Malta.

15:45–16:00 EGU2011-5594
Paolo Tarolli and Paola Passalacqua
The statistical signature of Earth-Surface Processes

16:00–16:15 EGU2011-2980
Giulia Sofia, Paolo Tarolli, Federico Cazorzi, and Giancarlo Dalla Fontana
Channel network identification from high-resolution DTM: a statistical approach.

16:15–16:30 EGU2011-7484
John Hillier and Mike Smith
Testing Quantification Methods with Synthetic Drumlins in a real DEM

16:30–16:45 EGU2011-2646
Florent Levavasseur, Jean-Stéphane Bailly, Philippe Lagacherie, Colin François, and Rabotin Michaël
Uncertainties of water flow-pathes in digital cultivated landscape : consequences on overland flows and channel run-off

16:45–17:00 EGU2011-9831
Jungrack Kim, ShiYuan Lin, JeongWoo Hong, SangYoon Yun, YougHwi Kim, and HeaWoon Yun
Very high resolution Martian topographic data processing and its application for virtual reality implementation

GM2.2/NH10.3/PS10.2 – Digital Landscapes: From Laser Scanning and High-resolution Measurement Technologies to Quantitative Interrogation of Geomorphic Processes (co-organized) – Posters
Convener: John K. Hillier | Co-Conveners: Sanjeev Gupta, Lara Kalnins, David Mason, Paolo Tarolli, Paola Passalacqua, Dirk Rieke-Zapp, Balázs Székely, Bernhard Höfle, Norbert Pfeifer, Jim Chandler, Alexander Reiterer
Hall A | Display Time 08:00–17:00
Author in Attendance: 08:30–10:00
Chairperson: n.n.

A94 EGU2011-923
Susanne Schnitzer
Estimation of mass loss due to soil erosion in the Loess Plateau in China: A comparison of the erosion model RUSLE, multi-temporal DEMs and GRACE satellite gravimetry.

A95 EGU2011-12089
Maximilian Sproß, Erik Bollmann, Andrea Fischer, Lorenzo Rieg, Rudolf Sailer, and Johann Stötter
Spatial statistical analysis on glacier surface elevation change based on ALS data

A96 EGU2011-1147
Stefan Harnischmacher and Harald Zepp
Detection and Quantification of Mining Subsidence in the Ruhr District (Germany) Using Historic Maps and Digital Elevation Models

A97 EGU2011-12173
Alberto Guarnieri, Nicola Milan, Antonio Vettore, and Paolo Tarolli
A prototipe of landslide observatory in the eastern italian alps

A98 EGU2011-12225
Alice Ciulli, Gianluca Chessa, Leonardo Disperati, Simone Gadenz, and Massimo Perna
Topographic units mapping from DEM analysis: evaluation of the Upslope Position Index (UPI) in two Tuscany (Italy) study areas

A99 EGU2011-12557
Vincenzo D'Agostino and Gabriele Bertoldi
Hazard hierarchization of debris flow sediment source areas

A100 EGU2011-5309
Paola Passalacqua, Colin P. Stark, Yuichi S. Hayakawa, Zhou Lin, Takashi Oguchi, and Tsuyoshi Hattanji
The obective mapping of channel initiation and landsliding on lidar DTMs in Japan and their interaction with vegetation

A101 EGU2011-8188
Marco Cavalli, Sebastiano Trevisani, and Lorenzo Marchi
Geomorphometric assessment of spatial sediment connectivity in small alpine catchments

A102 EGU2011-8286
Marco Cavalli, Sebastiano Trevisani, Beatrice Goldin, Elena Mion, and Lorenzo Marchi
Derivation of channel network of an alpine region from high-resolution DTM: the example of the Autonomous Province of Trento (Italy)

A103 EGU2011-10449
Markus Thiel, Tobias Heckmann, Florian Haas, and Michael Becht
Quantification of coarse sediment connectivity in alpine geosystems

A104 EGU2011-3804
Federico Cazorzi, Paolo Tarolli, Giulia Sofia, Alberto De Luca, and Giancarlo Dalla Fontana
Surface water storage in alluvial and urbanized plains: the effectiveness of high resolution topography

A105 EGU2011-12442
Bastiaan Notebaert, Piégay Hervé, and Alber Adrien
Structural properties of floodplain width in the Rhone catchment: methodology and results

A106 EGU2011-12580
Svetlana Samsonova and Aleksandr Koshkarev
Eco-geomorphological digital model of Moscow city

A107 EGU2011-11648
Wolfgang Schwanghart, Geoff Groom, Nikolaus J. Kuhn, and Goswin Heckrath
Automatic identification of water-logged agricultural areas using LiDAR DEMs

A108 EGU2011-398
pradeep Lodha
GIS based critical watershed analysis for soil conservation management using SWAT model

A109 EGU2011-14048
Domenica Costantino and Maria Giuseppa Angelini
Production of checked DTM by Terrestrial Laser Scanner (TLS)

A110 EGU2011-4886
Roderick OHara and Gerhard Neukum
Refined elevation models and reflectance for HRSC images

A111 EGU2011-10908
Luigi Perotti, **Massimo Lanfranco**, Marco Giardino, and Paolo Zamparutti
Creation and test of a mobile GIS application to support field data collection and mapping activities

A112 EGU2011-1555
Lorenzo Picco, Paolo Vitti, Luca Mao, Diego Ravazzolo, **Emanuel Rigon**, Johnny Moretto, and Mario Aristide Lenzi
Large Woody Debris measurements, in a gravel bed braided river environment, using Terrestrial Laser Scanner: the Piave River study case.

A113 EGU2011-3570
Thomas Dewez, Aude Nachbaur, Olivier Sedan, Emilie Nowak, and Emmanuel Des Garets
Monitoring the degradation of weathered volcanic man-made escarpments by close-range photogrammetry in Tahiti, French Polynesia

A114 EGU2011-4378
Greg Hancock and **Garry Willgoose**
Rapid erosion assessment on disturbed site: Quantification of erosion rates using laser scanning and modelling on a mine waste rock dump

A115 EGU2011-10667
Dave Favis-Mortlock
The role of high-resolution microtopographic grids in validating the RillGrow model

A116 EGU2011-12718
Michael Winkler, W. Tad Pfeffer, Klaus Hanke, and Georg Kaser
Close range photogrammetry reveals recession pattern of Kilimanjaro ice cliffs

A117 EGU2011-12931
Muhammad Anggri Setiawan
Evaluation of interpolation methods in tillage surface area

A118 EGU2011-13663
Inna Stepanova
On the finding of the earth's surface topography with the help of toda-hierachy

A119 EGU2011-14050
Sierd de Vries, Roderik Lindenbergh, Sylvie Soudarissanane, and Matthieu de Schipper
Monitoring short term aeolian beach sand transport using terrestrial laser scanning

A120 EGU2011-410
Tanja Vicovac, Alexander Reiterer, and Dirk Rieke-Zapp
Change Detection of Geological Surfaces by Image-Based Sensor Systems

A121 EGU2011-6204
Luca Carturan, Simone Calligaro, Alberto Guarnieri, Nicola Milan, Paolo Tarolli, Daniele Moro, Giovanni Baldassi, Federico Cazorzi, Antonio Vettore, and Giancarlo Dalla Fontana
Terrestrial Laser Scanner survey of two small glacial formations in the Eastern Italian Alps

A122 EGU2011-11627
Hubert Lehner, Christian Briese, and Rudolf Sailer
Radiometric calibration of airborne laser scanning data: case study rockglaciers

A123 EGU2011-6847
Rudolf Sailer, Erik Bollmann, Johann Stötter, Susanna Hoinkes, Lorenzo Rieg, and Maximilian Spross
Quantification of morphodynamic processes in glaciated and recently deglaciated terrain

A124 EGU2011-10541
Ekaterina Vsemirnova, Richard Jones, Jiulin Guo, and Kenneth McCaffrey
Quantitative characterization of fracture networks using terrestrial lidar data, an example from high porosity sandstones at Appleby, UK

A125 EGU2011-10815
Luigi Perotti, Marco Bacenetti, Marco Giardino, and Stefano Marta
Geomorphological and geostructural characterisation of Veny Valley (Courmayeur, Italy) using an integrated field-based, Lidar and Remote Sensing techniques

A126 EGU2011-8362
Petteri Alho, Matti Vaaja, Elina Kasvi, Antero Kukko, Hannu Hyyyppä, Juha Hyyppä, Harri Kaartine, Matti Kurkela, and Claude Flener
Multitemporal MLS data and terrestrial photogrammetry in a change detection of point bars

A127 EGU2011-12268
Markus Forbriger, Karsten Schittek, Christoph Siart, and Bernhard Höfle
New approaches in vegetation mapping - use of terrestrial laser scanning on high Andean cushion peatlands

A128 EGU2011-13847
Andreas Roncat, Balázs Székely, Gábor Molnár, András Zámolyi, Angelika Pocsai, and Camillo Ressl
High-resolution terrestrial laser scanning of temporary small-scale terraces in a dynamic landscape - a pilot study at the Doren landslide

A129 EGU2011-14039
Andreas Roncat, Yuri Dublyansky, Christoph Spötl, Peter Dorninger, and Norbert Pfeifer
A full-3D laser-scan mapping of a hypogene cave: a morphogenetic study of Märchenhöhle, Austria

A130 EGU2011-10670
Markus Hollaus, Norbert Pfeifer, Andreas Roncat, and Hieu Van Duong
Analyzing ICESat/GLAS derived terrain roughness parameter using airborne LiDAR data

A131 EGU2011-8673
Martin Rutzinger, Bernhard Höfle, and Korbinian Kringer
Quality of geomorphological breaklines extracted from airborne laser scanning

A132 EGU2011-8512
Cristina Castagnetti, Eleonora Bertacchini, **Alessandro Capra**, Marco Dubbini, Riccardo Rivola, and Alessandro Corsini
Integrating LIDAR and terrestrial laser scanning for a detailed description of landslides geomorphology