
EGU 2008 Meeting Programme

Geosciences Instrumentation & Data Systems

Monday

GI1 Open Session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM, SMP, SSS)

Convener: Korepanov, V.
Co-Convener(s): Svedhem, H., Harri, A.
Lecture Room 2
Chairperson: N.N.

13:30–13:45; EGU2008-A-07246; GI1-1MO3O-001

amighpey, M.; Arabi, S.

Quality assessment of first order precise leveling observation of Iran

13:45–14:00; EGU2008-A-07531; GI1-1MO3O-002

Doufexopoulou, M.G.; Bartha, G.; Massinas, B.A.

Spectral experiments at time series of Jason altimetry at points in closed sea applied to reveal the frequency range of evident deterministic patterns

14:00–14:30; EGU2008-A-11898; GI1-1MO3O-003

Helwig, S. L.; Strack, K.; Hanstein, T.; Yu, G.; Allegar, N.; Krugliak, Z.; Kalish, A.

tCSEM?? instrumentation in oil and gas exploration (solicited)

14:30–14:45; EGU2008-A-00114; GI1-1MO3O-004

Korepanov, V.; Marusenkova, A.; Rasson, J.; Leonov, S.; Prystai, A.

The new INTERMAGNET 1-second standard fluxgate magnetometer (solicited)

14:45–15:15; EGU2008-A-03523; GI1-1MO3O-005

Duma, G.; Freund, F.T.

Geomagnetic monitoring in context with earthquake activity (solicited)

15:15 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-00157; GI1-1MO4O-001

Milyukov, V.; Mironov, A.; Myasnikov, A.; Latinina, L.

Observation of crustal deformations by the long-base wide-band laser interferometer: the problems of global and local geodynamics

15:45–16:00; EGU2008-A-11637; GI1-1MO4O-002

Senesi, G.S. ; De Giacomo, A.; Dell’Aglia, M.; Gaudio, R.; De Pascale, O.; Capitelli, M.

Potential applications of Laser Induced Breakdown Spectroscopy (LIBS) in geoscience: from the environmental analysis to the space exploration

16:00–16:15; EGU2008-A-07679; GI1-1MO4O-003

Cieslik, S.; Mereu, S.; Manes, F.

Water exchange between plants and atmosphere

16:15–16:30; EGU2008-A-05265; GI1-1MO4O-004

Ihrig, D. F.; Licht, M.; Brunert, U. L.; Vach, A.; Egge-mann, J.; Poschmann, M.

Harvesting water from humidity of the air

16:30–16:45; EGU2008-A-09400; GI1-1MO4O-005

Tchistiakov, A.; Ballofet, E.; Hansen, M.; Rotar-Szalkai, A.; Capova, D.; Malik, P.; Palumbo, A.; **Schubert, G.;** Theelen, J.; Rodríguez, J.

eWater – multilingual cross-border access to ground water databases

16:45–17:00; EGU2008-A-10572; GI1-1MO4O-006

Uzodinma, V.N.

Instrumentation for a new Geodetic VLBI observing technique

17:00 COFFEE BREAK

Chairperson: N.N.

17:30–17:45; EGU2008-A-10408; GI1-1MO5O-001

Boedecker, G.

Calibration of GNSS derived accelerations for the SAGS4 airborne gravimeter system

17:45–18:00; EGU2008-A-05565; GI1-1MO5O-002

Orazi, M.; Peluso, R.; Martini, M.; Capello, M.; Caputo, A.; Buonocunto, C

A high resolution, low power datalogger for multiparametric data acquisition in volcanic environments

18:00–18:15; EGU2008-A-01484; GI1-1MO5O-003

Bolduan, M.; Schleisiek, K.; **Büttgenbach, T.**

Electronic gimbaling for low frequency geophones

18:15–18:30; EGU2008-A-05718; GI1-1MO5O-004

Rizhov, V.; Birialtsev, E

The microseism spectral analysis at the range from 1 to 20 Hz for the geology prospecting

18:30–18:45; EGU2008-A-00562; GI1-1MO5O-005

Timashkov, D. A.; Barbashina, N. S.; Borog, V. V.; Kokoulin, R. P.; Mannocchi, G.; Petrukhin, A. A.; Saavedra, O.; Shutenko, V. V.; Trinchero, G.; Yashin, I. I.

A new approach to the Earth’s atmosphere monitoring: muon diagnostics

18:45 END OF SESSION

GI10 Down hole Instrumentation: Technology and Applications (co-listed in GM, GMPV, PS, SSP & SSS)

Convener: Gaillot, P.
Co-Convener(s): Celerier, B.
Lecture Room 14
Chairperson: GAILLOT, P.

17:30–18:00; EGU2008-A-10449; GI10-1MO5O-001

Jurado, M.J.

Geophysical logging in subsurface studies: non standard applications and new trends. (solicited)

18:00–18:15; EGU2008-A-11954; GI10-1MO5O-002

Randall, N.; Claudius, J.; Tubridy, G.; Naville, C.; Cuenot, N.; Gerard, A.; Sotiriou, A.

Analog VSP tools operated in High Temperature wells using gimbal mounted 3C geophones and a hydrophone, for fractured reservoir characterization such as Soultz

18:15–18:30; EGU2008-A-09647; GI10-1MO5O-003
Place, J. A.; Naville, C.; Cox, M.; Schindler, M.; Genter, A.; Cuenot, N.

Illustrations of multi-component VSP efficiency in the characterization of a deep crystalline reservoir (the Soultz-sous-Forêts EGS case study)

18:30–18:45; EGU2008-A-10309; GI10-1MO5O-004

BALLAND, C.; RENAUD, V.

Development of a tool for high resolution velocity field imaging around a borehole

18:45–19:00; EGU2008-A-09111; GI10-1MO5O-005

Yeh, Y. T.; Liu, T. K.; **Lee, M.;** Gladwin, M. T.

Meteorological effects on the GTSM borehole strain measurement in western foothill, Taiwan

19:00–19:15; EGU2008-A-06156; GI10-1MO5O-006

Widyoningrum, R.; **Tokunaga, T.;** Takano, O.; Tsuji, T.

Sequence Stratigraphy Analysis of Fluvial to Tidal Deposits Using Borehole Images, Well Data And Outcrop Data: The Eocene Ishikari Group, Hokkaido, Japan

19:15 END OF SESSION

Tuesday

GI2 Atmosphere, Ocean, Meteorological Instruments and ocean observatory instrumentation (co-listed in AS, CL, OS, PS & ST)

Convener: Vivekanandan, J.

Co-Convener(s): Rose, M., Parsons, D., Waldmann, C.

Lecture Room 2

Chairperson: N.N.

13:30–13:45; EGU2008-A-04049; GI2-1TU3O-001

Reverdy, M.; Van Baelen, J.; Walpersdorf, A.; Boudevillain, B.

GPS tomography and radar data reflectivity reconstruction fast algorithm

13:45–14:00; EGU2008-A-09377; GI2-1TU3O-002

Bender, M.; Dick, G.; Stosius, R.; Wickert, J.; Rothacher, M.; Raabe, A.

GPS tomography utilising the German GPS network

14:00–14:15; EGU2008-A-05576; GI2-1TU3O-003

Smit, H.; Volz-Thomas, A.; Hoff, A.; Mead, I.

Which hygrometer for automatic and real time measurements from board in-service aircraft?

14:15–14:30; EGU2008-A-04074; GI2-1TU3O-004

Ajtai, T.; Filep, A.; Motika, G.; Bozóki, Z.; Szabó, G.

Novel Multi-Purpose Sensor for Atmospheric Monitoring Using Nd:YAG Laser Based Multi-Wavelength PhotoAcoustic System (MuWaPAS):laboratory and field test.

14:30–14:45; EGU2008-A-02319; GI2-1TU3O-005

Alexandrov, M.; Laxis, A.; Carlson, B.; Cairns, B.

Characterization of atmospheric aerosols and columnar water vapor using MFRSR network measurements (cancelled)

14:45–15:00; EGU2008-A-04741; GI2-1TU3O-006

Jacobs, CAJ

Observing the Earth: A Catalog of Capabilities

15:00 COFFEE BREAK

Chairperson: N.N.

15:30–15:45; EGU2008-A-04111; GI2-1TU4O-001

Lauritsen, K. B.; Gorbunov, M. E.

Error Estimates of Bending Angles obtained from Radio Occultation Data in the Presense of Strong Horizontal Gradients

15:45–16:00; EGU2008-A-10122; GI2-1TU4O-002

Pardé, M.; Zribi, M.; Leroy, P.; Fanise, P.; Zine, S.; Reul, N.; Boutin, J.

Carols campaing: scientific data analysis results

16:00–16:15; EGU2008-A-10315; GI2-1TU4O-003

Anagnostou, M. N.; Nystuen, J.; Anagnostou, E. N.; Nikolopoulos, E.; Amitai, E.; Papadopoulos, A.

Evaluation of Underwater Acoustic Estimates of Rain-drop Size Distribution through Comparison with Dual-Polarization Radar Measurements

16:15–16:30; EGU2008-A-11238; GI2-1TU4O-004

Schween, J.; Kneifel, S.; Crewell, S.; Löhnert, U.

Inhomogeneity of water vapour in the boundary layer from ground based microwave measurements

16:30–16:45; EGU2008-A-06257; GI2-1TU4O-005

van den Kroonenberg, A.C.; Spieß, T.; Bange, J.

Boundary layer research with the Autonomous Mini Aerial Vehicle 'M2AV Carolo' (cancelled)

16:45–17:00; EGU2008-A-10597; GI2-1TU4O-006

Kirchengast, G.; Binder, S.; Kabas, T.; Leuprecht, A.; Bichler, C.

WegenerNet: A new climate station network in Eastern Styria/Austria for monitoring weather and climate at 1 km-scale resolution

17:00 COFFEE BREAK

Chairperson: WALDMANN, C.

17:30–17:45; EGU2008-A-06182; GI2-1TU5O-001

Ross, A.; Pejčić, B.; Eadington, P.; Crooke, E.; Barton, C.S.; Wiczeorek, L.; Raguse, B.; Ogden, M.; Pettersen, J.; Mocerino, M.

The use of chemical sensing technologies for the detection of dissolved hydrocarbons within water

17:45–18:00; EGU2008-A-01602; GI2-1TU5O-002

Roy, E.; Wells, M.; Tripp, C.

Development of a biosensor for measuring dissolved iron in seawater

18:00–18:15; EGU2008-A-03495; GI2-1TU5O-003

Buettgenbach, T.; Han, S.; Munder, J.; Schleisiek, K.

Concept and instrumentation of a cable based tsunami early warning system for South Korea

18:15–18:30; EGU2008-A-07393; GI2-1TU5O-004

Chierici, F.; Embriaco, D.; Pignagnoli, L.; Beranzoli, L.; Favali, P.; Marinaro, G.; Monna, S.; Bruni, F.; Furlan, F.; Gasparoni, F.

An innovative tsunami detector operating on a multiparameter seafloor observatory

18:30–18:45; EGU2008-A-11537; GI2-1TU5O-005

Lintern, G.; Hill, P.; Conway, K.

Connecting with the Strait of Georgia – an overview of activities supported by NRCan using the VENUS project

18:45–19:00; EGU2008-A-06397; GI2-1TU5O-006

Puillat-Felix, I.; Person, R.; ESONET partners

Demonstration missions in ESONET NoE

19:00 END OF SESSION

GI4 General System Design, Image Processing and Data Infrastructures

Convener: Schmidt, W.
Co-Convener(s): Josset, J.
Lecture Room 7
Chairperson: N.N.

17:30–17:45; EGU2008-A-10830; GI4-1TU50-001

Yilmazer, M.

Brief History of KOERI Seismic Network and Waveform Data Processing System

17:45–18:00; EGU2008-A-09394; GI4-1TU50-002

Papale, D.; Belli, C.; Calvani, P.; Gioli, B.

A flexible multispectral system (ASPIS) for airborne remote sensing environmental applications

18:00–18:15; EGU2008-A-11221; GI4-1TU50-003

Kristof, D.; Pataki, R.

Increasing the accuracy of MODIS products by novel preprocessing methods

18:15–18:30; EGU2008-A-10070; GI4-1TU50-004

Honeycutt, C.; Plotnick, R.

Applications of wavelet texture analysis and image segmentation to problems of artificial intelligence

18:30–18:45; EGU2008-A-03925; GI4-1TU50-005

Salazar, D.; Hernandez-Pajares, M.; Juan, J.M.; Sanz, J.

Open source Precise Point Positioning with GNSS Data Structures and the GPSTk

18:45–19:00; EGU2008-A-12371; GI4-1TU50-006

Schmidt, W.; Mätkki, A.

Compact sensor-controller for space applications

19:00 END OF SESSION

Wednesday

GI1 Open Session on Geoscience Instrumentation (co-listed in GMPV, G, HS, MPRG, NH, OS & SM, SMP, SSS) – Posters

Convener: Korepanov, V.
Co-Convener(s): Svedhem, H., Harri, A.
Display Time: Wednesday, 08:00–19:30

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

Poster Area Halls X/Y
Chairperson: N.N.

XY0421; EGU2008-A-00563; GI1-1WE5P-0421

Timashkov, D. A.; Barbashina, N. S.; Kokoulin, R. P.; Kompaniets, K. G.; Mannocchi, G.; Petrukhin, A. A.; Saavedra, O.; Shutenko, V. V.; Trinchero, G.; Yashin, I. I.
Cosmic ray detector for diagnostics of the Earth's atmosphere and magnetosphere (URAGAN)

XY0422; EGU2008-A-01825; GI1-1WE5P-0422

Forbriger, T.; **Widmer-Schmidrig, R.;** Wielandt, E.; Hayman, M.; Ackerley, N.
Magnetic field background variations can limit the sensitivity of seismic broad-band sensors

XY0423; EGU2008-A-00029; GI1-1WE5P-0423

Pronenko, V.; Glemba, V.

Super-wide band induction magnetometers - 6x6 and beyond

XY0424; EGU2008-A-02379; GI1-1WE5P-0424

Widmer-Schmidrig, R.; Kurrle, D.; Wielandt, E.

Evaluation of installation methods for STS-2 seismometers

XY0425; EGU2008-A-09300; GI1-1WE5P-0425

Contrucci, I.; Klein, E.; Bigarre, P.; Lizeur, A.; Lomax, A.
Early-warning microseismic systems applied to the management of post-mining large-scale ground failures : calibration by a geophysical field experiment of blast swarms

XY0426; EGU2008-A-04505; GI1-1WE5P-0426

Antsyferov, A.; Tirkel, M.; Kamburova, L.; Glukhov, O.; Antsyferov, V

Reflection seismic-exploration method

XY0427; EGU2008-A-09738; GI1-1WE5P-0427

Shariat-Panahi, S.; Bermudez, A.; Ambros, M.; Manuel, A.; Sallares, V.

An Ocean Bottom Seismometer (OBS) Built for Mid-Term Marine Active Refraction Seismology

XY0428; EGU2008-A-09839; GI1-1WE5P-0428

Pfundner, I.; Tasic, I

Quanterra Q730 Seismic Data Logger Hardware Errors

XY0429; EGU2008-A-03609; GI1-1WE5P-0429

Tasic, I; **Mali, M.;** Pancur, L.; Sincic, P.; Gostincar, M

Influence of Uninterruptible Power Supply on Seismic Data

XY0430; EGU2008-A-03631; GI1-1WE5P-0430

Tasic, I; **Mali, M.;** Pancur, L

Comparing Noise Level of CMG-40T and CMG-3ESPC with STS2 Seismometer at

XY0431; EGU2008-A-10013; GI1-1WE5P-0431

Capello, M.; Buonocunto, C.; Caputo, A.; De Cesare, W; Martini, M; **Orazi, M.;** Peluso, R

New geophysical instrumentation realized at SMRS laboratory (INGV, sezione di Napoli, Osservatorio Vesuviano)

XY0432; EGU2008-A-09461; GI1-1WE5P-0432

Scarpato, G.; De Cesare, W; Peluso, R; Orazi, M; Caputo, A; Capello, M; Borriello, G; Buonocunto, C; Martini, M

WiFi data transmission system for monitoring volcanic areas: an example application on Mt. Vesuvius

XY0433; EGU2008-A-11788; GI1-1WE5P-0433

Hajizadeh, A

New approach for measuring Mean Sea level using Acoustics waves to complete recent methods

XY0434; EGU2008-A-11789; GI1-1WE5P-0434

Hajizadeh, A

Application of underwater positioning systems for offshore and seabed surveying

XY0435; EGU2008-A-08591; GI1-1WE5P-0435

Heyde, I.

New aerogravity data for the German Bight (North Sea)

XY0436; EGU2008-A-06984; GI1-1WE5P-0436

Hildenbrand, B.; Hoepfner, K.; Bittner, M.; Diepenbroek, M.; Grobe, H.; Klump, J.; Lautenschlager, M.
German Cluster of WDCs for Earth System Research

XY0437; EGU2008-A-04796; GI1-1WE5P-0437

Gleisner, H.; Thejll, P.; Andersen, T.; Petersen, M.-O.
Terrestrial albedo from ground-based earthshine measurements

XY0438; EGU2008-A-08234; GI1-1WE5P-0438

Gharebaghi, A.; Rezaei, M.; Chehreghani, A.

Calibration of Airborne Laser Scanners

XY0439; EGU2008-A-09436; GI1-1WE5P-0439

Hayakawa, H

Using laser range finder for creation of digital elevation model

XY0440; EGU2008-A-08169; GI1-1WE5P-0440

Gharebaghi, A.; Zolfaghari, K.

What is the Gravimeter?

XY0441; EGU2008-A-10332; GI1-1WE5P-0441

Jafari, M.

Study of the orbit accuracy improvement for the satellite SAR Mission using the currently released Geopotential Models

XY0442; EGU2008-A-03727; GI1-1WE5P-0442

Kulenkampff, J.; Gründig, M.; Richter, M.; Wolf, M.; Dietzel, O.

First applications of a small-animal-PET scanner for process monitoring in rocks and soils

XY0443; EGU2008-A-11903; GI1-1WE5P-0443

Rubio, C. M.; Josa, R.; Cobos, D.; Ferrer, F.

Application of Dual Needle Heat Pulse to Obtain the Thermal Properties in a Silty Porous Media under Laboratory Conditions

GI2 Atmosphere, Ocean, Meteorological Instruments and ocean observatory instrumentation (co-listed in AS, CL, OS, PS & ST) – Posters

Convener: Vivekanandan, J.

Co-Convener(s): Rose, M., Parsons, D., Waldmann, C.

Display Time: Wednesday, 08:00–19:30

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

Poster Area Halls X/Y

Chairperson: N.N.

XY0444; EGU2008-A-00698; GI2-1WE5P-0444

Jonassen, M.; Reuder, J.

Determination of temperature and humidity profiles in the atmospheric boundary layer by fast ascending UAVs

XY0445; EGU2008-A-05203; GI2-1WE5P-0445

Devasthale, A.; Grassl, H.

The stability assessment of the AVHRR thermal channels using in-situ temperature measurements at five stations in Antarctica for 25-year period

XY0446; EGU2008-A-05733; GI2-1WE5P-0446

Jock, J.; Molinié, J.; Bade, F.; Petit, R.-H.

Nocturnal pollution in a caribbean island: a new approach of the ftir spectroscopy in tropical strong humidity environment

XY0447; EGU2008-A-06637; GI2-1WE5P-0447

BALIN, I.; Picoulet, G.; Balanici, A.; Ristori, P.; Caian, M.; Ristici, V.; Nicolae, D.; **Balin, D.**

A new MicroLidar for 3D aerosols load, clouds and PBL dynamics observations

XY0448; EGU2008-A-07732; GI2-1WE5P-0448

de Haan, S.; Holleman, I.; Holstag, A.A.M

Validation of Real-time Water Vapour Maps from a GPS Surface Network and the Application for Nowcasting of Thunderstorms

XY0449; EGU2008-A-07782; GI2-1WE5P-0449

Chen, H.; Winderlich, J.; Kuebler, K.; Sweeney, C.; Gerbig, C.

Development of a high accuracy continuous CO2 analyzer system for deployment on commercial aircraft

XY0450; EGU2008-A-08150; GI2-1WE5P-0450

Geibel, M. C.; Feist, D. G.; Heimann, M.

A fully automated ground based FTIR system for high-accuracy measurements of atmospheric CO2 and CH4 columns in the tropic

XY0451; EGU2008-A-08174; GI2-1WE5P-0451

Steinbach, J.; Kübler, K.; Leppert, R.; Voigt, F.; Schlöfel, B.; Gerbig, C.

ICON – a new In-situ Capability for O2/N2 Measurements from airborne Platforms

XY0452; EGU2008-A-08773; GI2-1WE5P-0452

Thompson, R.L.; Heimann, M.; Seifert, T.; Hänsel, F.; Schultz, U.

A new observational system for remote in-situ measurements of atmospheric trace gases in Namibia

XY0453; EGU2008-A-10046; GI2-1WE5P-0453

Feist, D. G.; Popa, E.; Gerbig, C.; Heimann, M.

Determination of mixing layer height with a ceilometer at a tall-tower site near Bialystok, Poland

XY0454; EGU2008-A-11350; GI2-1WE5P-0454

Drüe, C.; Hoff, A.; Hauf, T

Profiling the planetary boundary layer at an airport: Comparison of AMDAR aircraft data to a wind profiler

XY0455; EGU2008-A-11761; GI2-1WE5P-0455

Wyche, K. P.; Ellis, A. M.; Monks, P. S.; Whyte, C.

Development of a Chemical Ionisation Reaction Hadamard Transform Time-of-Flight Mass Spectrometer

XY0456; EGU2008-A-03744; GI2-1WE5P-0456

Person, R.; ESONET Team

The European deep sea observatories network of excellence ESONET after one year activity

XY0457; EGU2008-A-07794; GI2-1WE5P-0457

Sarda-Estève, R.; Gros, V.; Bonsang, B.

Real-time measurement of carbon monoxide (CO) in seawater: Refinement of a continuous extractor system and application in the Southern Atlantic Ocean

XY0458; EGU2008-A-08726; GI2-1WE5P-0458

Fiekas, V.; Prandke, H.

Towed Instrument for Microstructure Ocean Soundings (TIMOS)

XY0459; EGU2008-A-10489; GI2-1WE5P-0459

Geissler, W.H.

Seismological studies within the frame of the EU project NEAREST

GI10 Down hole Instrumentation: Technology and Applications (co-listed in GM, GMPV, PS, SSP & SSS) – Posters

Convener: Gaillot, P.

Co-Convener(s): Celerier, B.

Display Time: Wednesday, 08:00–19:30

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

Poster Area Halls X/Y

Chairperson: GAILLOT, P.

XY0460; EGU2008-A-01255; GI10-1WE5P-0460

Rabinowitz, P.; Zhou, Z.

Array processing – a new method to detect and correct errors on array resistivity logging tool measurements

XY0461; EGU2008-A-09065; GI10-1WE5P-0461

Sakamoto, T.; Iijima, K.; Sugisaki, S.

TATSCAN-X1, non-destructive transparent X-ray 2-D imaging scanner of sediment/rock cores

XY0462; EGU2008-A-02155; GI10-1WE5P-0462

Lipaev, S.; **Lipaev, A**

Experimental research on thermal properties of rock formations

XY0463; EGU2008-A-03230; GI10-1WE5P-0463

Zimmer, M.; Erzinger, J.

Development and Application of a Gas Membrane Sensor for In-Situ Down Hole Observation of Gases During Geological Storage of Carbon Dioxide

XY0464; EGU2008-A-08079; GI10-1WE5P-0464
Conin, M.; Chang, C.; Bourlange, S.; Henry, P.; Nantroseize Shipboard Science Party (Exp. 314), The Estimation of the horizontal stresses from breakouts data collected at Site C0002 of the Nankai accretionary wedge during IODP Leg 314

XY0465; EGU2008-A-11823; GI10-1WE5P-0465
Gaillot, P.; Henry, P.; Conin, M.; Bourlange, S.; Nantroseize shipboard Scientific party
X-ray computed tomography images of the Nankai Trough Seismological Experiment (NanTroSEIZE) cores: preliminary results from IODP Expeditions 314 and 315

Thursday

GI6 Space Instrumentation (co-listed in G, AS, OS, PS & ST)

Convener: Leese, M.
Co-Convener(s): Kargl, G., Falkner, P.
Lecture Room 2
Chairperson: LEESE, M.

8:30–8:45; EGU2008-A-00916; GI6-1TH1O-001
Delcourt, D.; Saito, Y.; Illiano, J.M.; Bertheliet, J.J.; Fontaine, D.; Krupp, N.; Fraenz, M.; Godefroy, M.; Fischer, H.; Yokota, S.; THE MMO MSA TEAM (continued)
The Mass Spectrum Analyzer onboard Bepi Colombo MMO : scientific objectives and prototype results

8:45–9:00; EGU2008-A-09097; GI6-1TH1O-002
Huenerbein, A.; Preusker, R
Study on a Radiometric and spectral requirements of a Post-EPS Visible/Infrared Imager

9:00–9:15; EGU2008-A-06768; GI6-1TH1O-003
Pirard, B.; Bravar, U.; Flueckiger, E. O.; Macri, J. R.; Mallik, P.; McConnell, M. L.; MacKinnon, A.; Moser, M.; Ryan, J. M.; Woolf, R.
Simulation of a solar neutron spectrometer for future space missions in the inner heliosphere, from prototype calibrations to flight instrument performances

9:15–9:30; EGU2008-A-10333; GI6-1TH1O-004
Moutoussamy, J.; Coillot, C.; **Chanteur, G.M.;** Alvès, F.
Feasibility of a Giant Magneto-Impedance sandwich magnetometer for space applications

9:30–9:45; EGU2008-A-03209; GI6-1TH1O-005
Oswald, T.H.; Macher, W.; Rucker, H.O.
Inclusion of plasma effects in numerical spacecraft antenna calibration

9:45–10:00; EGU2008-A-05102; GI6-1TH1O-006
Ulamec, S.; Biele, J.
Strategies for Landing on small Bodies

11:00 COFFEE BREAK

Chairperson: KARGL, G.

10:30–10:45; EGU2008-A-07337; GI6-1TH2O-001
Paar, G.; Oberst, J.; Barnes, D.P.; Griffiths, A.D.; Jauermann, R.; Coates, A.J.; Muller, J.-P.; Gao, Y.; Li, R.
ExoMars Panoramic Camera 3D Vision: Expected Quality of Rover Surroundings Description

10:45–11:00; EGU2008-A-03294; GI6-1TH2O-002
Kaufmann, E.; Kömle, N.I.; Kargl, G.; Steller, M.; Tatschl, F.; Schwarzl, H.; Romstedt, J.
Melting probe prototype: new results

11:00–11:15; EGU2008-A-10686; GI6-1TH2O-003
Richter, L.; Brucks, A.; Dalcolmo, J.; Grott, M.; Kargl, G.; Mehls, C.; Nadalini, R.; Roesner, K.; Spohn, T.
Engineering Challenges of the Heat Flow and Physical Properties Package (HP3) on ExoMars

11:15–11:30; EGU2008-A-11606; GI6-1TH2O-004
Klingelhöfer, G.; Rodionov, D.; Blumers, M.; Strüder, L.; Lechner, P.; Bernhardt, B.; Henkel, H.; Girones Lopez, J.; d'Uston, C.; Studlek, G.
The advanced miniaturized Mössbauer Spectrometer MI-MOS IIA

11:30–11:45; EGU2008-A-01732; GI6-1TH2O-005
Wilcox, J.; Urgiles, E.; Toda, R.; Crisp, J.
Electron Induced Excitation of XRF to determine Elemental Composition of Samples in Planetary Atmosphere

11:45 END OF SESSION

GI8 Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS)

Convener: Rose, M.
Co-Convener(s): Meldrum, D.
Lecture Room 2
Chairperson: ROSE, M.

15:30–15:45; EGU2008-A-04896; GI8-1TH4O-001
Stearns, C.; Weidner, G.; Keller, L.; Thom, J.; Lazzara, M.; **Knuth, S.**
An Overview of the Antarctic Automatic Weather Stations Project

15:45–16:00; EGU2008-A-12430; GI8-1TH4O-002
Ashley, M.C.B.; The PLATO Team
The PLATO remote observatory for the Antarctic plateau

16:00–16:15; EGU2008-A-06923; GI8-1TH4O-003
Meldrum, D.; Wilkinson, J.; James, A
Autonomous CTD and ice mass balance stations for IPY

16:15–16:30; EGU2008-A-11487; GI8-1TH4O-004
Lee, C.M.; Gobat, J.I.
Acoustic Navigation and Communications for Autonomous Platforms in the Arctic Ocean

16:30–16:45; EGU2008-A-08427; GI8-1TH4O-005
Vivier, F.; Lourenco, A.; Guillot, A.; Alessandrini, B.; Bouruet-Aubertot, P.; Cuyper, Y.; Gascard, J.-C.; Legoff, H.; Monglon, T.
Ice-T: an autonomous float for real-time measurement of ice thickness and thermal exchanges at the ocean-ice-atmosphere interface

16:45–17:00; EGU2008-A-07622; GI8-1TH4O-006
Anderson, R.; Gudmundsson, G.H.
Real-time GPS monitoring of Brunt Ice Shelf, Antarctica

17:00 COFFEE BREAK

Chairperson: MELDRUM, D.

17:30–17:45; EGU2008-A-05670; GI8-1TH5O-001
Bauguitte, S. JB.; Maxfield, D.J.; Jones, A.E.; Roscoe, H.K.; Wolff, E.W.; Rankin, A.; Birks, J.
A new surface ozone monitoring network deployed in Antarctica during the IPY

17:45–18:00; EGU2008-A-11155; GI8-1TH5O-002
Burkett, P.; Long, B.; Varadhan, V.; Anandakrishnan, S
GeoPebble: A wireless seismic and GPS sensor for monitoring of fast-flowing glaciers

18:00–18:15; EGU2008-A-02304; GI8-1TH5O-003
Friedt, J.-M; Martin, G.; Ferrandez, C.; Moreau, L.;
Griselin, M.
Automated high resolution image acquisition in polar regions

18:15–18:30; EGU2008-A-11701; GI8-1TH5O-004
Gallet, JC; Domine, F; Zender, C
The accurate determination of the specific surface area of
snow by IR reflectance

18:30–18:45; EGU2008-A-00191; GI8-1TH5O-005
Parker, T.; **Beaudoin, B.;** Bonnett, B.; Fowler, J.; Ander-
son, K.
Design and implementation of cold-hardened seismic sta-
tions

18:45–19:00; EGU2008-A-01942; GI8-1TH5O-006
Robinson, C; Ferraccioli, F; Corr, H; Jordan, T
The British Antarctic Survey airborne geophysical platform:
a tool to explore the polar regions

19:00 END OF SESSION

GI11 Geophysical monitoring of near-surface: past, present and future (co-listed in G & GM)

Convener: Eppelbaum, L.
Co-Convener(s): Soldovieri, F.
Lecture Room 2
Chairperson: SOLDOVIERI, F

13:30–13:45; EGU2008-A-05469; GI11-1TH3O-001
Eppelbaum, L.V.
Near-surface geophysical monitoring: From the past to
future

13:45–14:00; EGU2008-A-06075; GI11-1TH3O-002
Orlando, L.O
Advanced 3-dimensional GPR image acquisition to detect
an early Christian remains in Perugia (Italy)

14:00–14:15; EGU2008-A-04110; GI11-1TH3O-003
Hill, I; Challis, K; Jeffrey, C; Linford, N; Knight, D;
Smith, B; Wardrop, D
Testing the effectiveness of combining airborne remote
sensing and ground geophysics for assessment of sand and
gravel deposits and overlying archaeology.

14:15–14:30; EGU2008-A-10395; GI11-1TH3O-004
Giocoli, A.; Burrato, P.; Ferranti, L.; Lapenna, V.;
Piscitelli, S.; Rizzo, E.; Siniscalchi, A.; Souplos, P.; Val-
lianatos, F.; Vannoli, P.
The ERT method to investigate tectonically active areas:
examples from Agri and Ufita Basin (Southern Italy) and
Kastelli Region (Crete island, Greece)

14:30 END OF SESSION

Friday

GI4 General System Design, Image Processing and Data Infrastructures – Posters

Convener: Schmidt, W.
Co-Convener(s): Josset, J.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0259; EGU2008-A-06732; GI4-1FR2P-0259
TSAGARATOS, P.
Development of a graphical user interface (GUI) application
for the management of borehole data

XY0260; EGU2008-A-08554; GI4-1FR2P-0260
Becker, R.
Monitoring vegetation state using polar orbiting imagery

XY0261; EGU2008-A-11530; GI4-1FR2P-0261
Cook, A
Local remote sensing opportunities with a lunar robotic
telescope

XY0262; EGU2008-A-08146; GI4-1FR2P-0262
Schmidt, F.; Douté, S.; Schmitt, B.; Moussaoui, S.; Jut-
ten, C.
Blind source separation for remote sensing hyperspectral
data

XY0263; EGU2008-A-04943; GI4-1FR2P-0263
Shojaee, K.; AKAM
A newly developed soft ware for offshore surveying support
of constructional marine spreads

XY0264; EGU2008-A-06563; GI4-1FR2P-0264
Ameri, F; Mobaraki, A.M.; Valadan Zoej, M.J.
Semi-automatic extraction of different-shaped road center-
line from MS and pansharp IKONOS images

GI6 Space Instrumentation (co-listed in G, AS, OS, PS & ST) – Posters

Convener: Leese, M.
Co-Convener(s): Kargl, G., Falkner, P.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: LEESE, M.

XY0265; EGU2008-A-01941; GI6-1FR2P-0265
Eriksson, A. I.; Khotyaintsev, Y.; Lindqvist, P.-A.
Spacecraft wakes in the solar wind

XY0266; EGU2008-A-02641; GI6-1FR2P-0266
Fortes, A. D.; Wood, I. G.; Dobson, D. P.
The proposed icy mineralogy package (XRD/XRF) for
TandEM.

XY0267; EGU2008-A-02905; GI6-1FR2P-0267
Ho, G.C.; Allegrini, F.; Desai, M.I.; Livi, S.A.; McComas, D.J.; Nelson, K.; Posner, McCa.
A high-temporal resolution SupraThermal Ion Spectrometer concept for future Heliospheric (STISH) missions

XY0268; EGU2008-A-06634; GI6-1FR2P-0268
Yoshioka, K.; Murakami, G.; Toyota, T.; Yoshikawa, I.; Saito, A
Development of the EUV imager onboard the ISS

XY0269; EGU2008-A-07328; GI6-1FR2P-0269
Ramos-Bosch, P.; Hernandez-Pajares, M.; Juan, J.M.; Sanz, J.; Aragon-Angel, A.
Autonomous LEO navigation with single-frequency GPS receivers: Application of multipath mitigation techniques

XY0270; EGU2008-A-07540; GI6-1FR2P-0270
Coldewey-Egbers, M.; Slijkhuis, S.; Aberle, B.; Loyola, D.
Analysis of GOME instrument stability using 11 years of in-flight calibration data

XY0271; EGU2008-A-07859; GI6-1FR2P-0271
Collinson, G.A.; Kataria, D.O.; Coates, A.J.; Tsang, S.M.E.; Frahm, R.; Winningham, J.D.; Barabash, S.
Electron optical study of the Venus Express ASPERA- ELS Top-Hat Electrostatic Analyser

XY0272; EGU2008-A-09021; GI6-1FR2P-0272
Knollenberg, J.; Solbrig, M.; Helbert, J.; Walter, I.; Kessler, E.; Baier, V.
Measuring Mercury's surface temperature - the MERTIS Microradiometer

XY0273; EGU2008-A-09049; GI6-1FR2P-0273
Eichelberger, H. U.; Schwingenschuh, K.; Prattes, G.; Besser, B. P.; Aydogar, Ö.; Jernej, I.; Lichtenegger, H.; Hofe, R.; Falkner, P.; Tokano, T.
Acoustics of planetary atmospheres with active multi-microphone techniques, probing Titan

XY0274; EGU2008-A-09704; GI6-1FR2P-0274
Krause, C.; Seidensticker, K. J.
Soil Properties Determination with Acoustic Sounding

XY0275; EGU2008-A-10222; GI6-1FR2P-0275
Coillot, C.; Moutoussamy, J.; **Chanteur, G.M.**
The dual-band search coil magnetometer: a new instrument for investigating wide band magnetic field fluctuations in space

XY0276; EGU2008-A-10243; GI6-1FR2P-0276
Orsini, S.; **Di Lellis, AM.;** Milillo, A.; Selci, S.; Leoni, R.; Dandouras, I.; THE ELENA TEAM
Low energy high angular resolution neutral atom detection by means of micro-shuttering techniques: the BepiColombo SERENA/ELENA sensor

XY0277; EGU2008-A-10351; GI6-1FR2P-0277
Scheer, J.A.; Saul, L.; Wurz, P.; Moebius, E.; Hertzberg, E.; Fuselier, S.A.; McComas, D.J.
Calibration of Instruments for Detection of Energetic Neutral Atoms (ENA)

XY0278; EGU2008-A-10773; GI6-1FR2P-0278
Richter, L.; Brucks, A.; Witte, L.
A New Facility for Lander Touchdown and Rover Mobility Testing at DLR

XY0279; EGU2008-A-11337; GI6-1FR2P-0279
Fazakerley, A.; Lahiff, A
Moments of the electron velocity distribution from Cluster-PEACE: how good are they?

GI8 Instrumentation related to polar regions and the IPY (co-listed in AS, BG, CR & OS) – Posters

Convener: Rose, M.
Co-Convener(s): Meldrum, D.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: N.N.

XY0280; EGU2008-A-01188; GI8-1FR2P-0280
Leveque, JJ.; Maggi, A.; Delladio, A.; Burdin, J.; Thore, JY; Morelli, A
ConCorDia : a new, permanent seismological station in Antarctica

XY0281; EGU2008-A-01652; GI8-1FR2P-0281
Beylich, A.A.; Lamoureux, S.F.; Decaulne, A.
Quantitative analysis of source-to-sink-fluxes and sediment budgets in changing cold environments - the global SED-IBUD program

XY0282; EGU2008-A-03314; GI8-1FR2P-0282
Rabe, B.; Schauer, U.; Pisarev, S
Simultaneous observations of velocity, temperature and salinity in the central Arctic by two ice-tethered platforms

XY0283; EGU2008-A-03617; GI8-1FR2P-0283
Alfonsi, L.; Aquino, M.; De Franceschi, G.; Dodson, A.; Mitchell, C.N.; Romano, V.; Wernik, A.W.
GPS ionospheric scintillations monitoring: bipolar capabilities during IPY

XY0284; EGU2008-A-08937; GI8-1FR2P-0284
Hubbard, B.; Roberson, S.; Samyn, D.
Application of digital optical televiewing to ice-mass boreholes

XY0285; EGU2008-A-09722; GI8-1FR2P-0285
Kunz-Pirrung, M.; Biebow, N.; Lembke-Jene, L.; Egerton, P.; Thiede, J.
Technical design of AURORA BOREALIS - icebreaker, drilling platform and multi-purpose research vessel

XY0286; EGU2008-A-10504; GI8-1FR2P-0286
Darby, L.; Burkhart, J.; Dlugokencky, E.; Drummond, J.; Fogal, P.; Makstas, A.; Martyschenko, V.; Schnell, R.; Uttal, T.; Vasel, B.
International Arctic Systems for Observing the Atmosphere (IASOA): Recent and planned observatory upgrades in Canada, Greenland, Russia, and the United States

XY0287; EGU2008-A-11665; GI8-1FR2P-0287
Rose, M.; Hindmarsh, R.; Ivins, E.; Mulvaney, R
Measuring isostatic rebound in ice covered areas

GI11 Geophysical monitoring of near-surface: past, present and future (co-listed in G & GM) – Posters

Convener: Eppelbaum, L.
Co-Convener(s): Soldovieri, F.
Display Time: Friday, 08:00–19:30
Authors in Attendance: Friday, 10:30–12:00
Poster Area Halls X/Y
Chairperson: EPPELBAUM, L.

XY0288; EGU2008-A-00330; GI11-1FR2P-0288
Aivazpour, S.; Oskooi, B.
1D and 2D interpretation of the CSTMT data to detect the fracture zone of Talkhab fault in Haftad Ghole, Arak, Iran

- XY0289**; EGU2008-A-00105; GI11-1FR2P-0289
Osman, S. Sh; Mohamed, A. K.; Ghazala, H. H.; Mesbah, H. S.
 Application Of Shallow Seismic Refraction And DC Resistivity Imaging Methods Around El Giza- Pyramid Area, Egypt
- XY0290**; EGU2008-A-02268; GI11-1FR2P-0290
 Caorsi, S.; Stasolla, M.
 A knowledge based ANN approach for geophysical monitoring of sub-surface layers by means of GPR data
- XY0291**; EGU2008-A-04877; GI11-1FR2P-0291
 Brancaccio, A; Laganà, A; **Leone, G**
 A Kirchhoff based reconstruction algorithm for the multi-static configuration
- XY0292**; EGU2008-A-08410; GI11-1FR2P-0292
Doanh, D; Hans, H; Boutin, B; Tensay, T; Wu, W
 Ambient noise site investigation of landfill in Central Aisa
- XY0293**; EGU2008-A-09868; GI11-1FR2P-0293
Scozzari, A.; Raco, B.; Lippo, G.
 Near-surface environmental studies: non-invasive methods applied to the case of Municipal Solid Waste landfills
- XY0294**; EGU2008-A-10392; GI11-1FR2P-0294
Forstenaicher, G.; Hofmann, U.; Leopold, M.; Ploekel, T.; Voelkel, J.
 The Roman Park Sorviodurum at Straubing, Germany – Combining different geophysical prospection methods as planning criteria of a touristic park
- XY0295**; EGU2008-A-07840; GI11-1FR2P-0295
 Masini, N.; Tancredi, C.; **Persico, R.**
 Integrated and Multi-Scale NDT Tests for the Study of Artifacts and Architectural Heritage
- XY0296**; EGU2008-A-10717; GI11-1FR2P-0296
Eppelbaum, L.V.; Ezersky, M.G.; Al-Zoubi, A.S.
 Estimation of the dissolution karst volume based on 3D microgravity modeling in the Dead Sea sinkhole hazards problem
- XY0297**; EGU2008-A-11729; GI11-1FR2P-0297
Zadorozhnaya, VY; Hauger, ME
 Resistivity measured by direct and alternating current: why are they different?
- XY0298**; EGU2008-A-07048; GI11-1FR2P-0298
Slepak, Z. M.
 Geophysics for urban preservation
- XY0299**; EGU2008-A-11726; GI11-1FR2P-0299
Shabani, E; Haghshenas, E; Eskandari, M; Mirzaei, N
 Estimating the velocity model based on spatial autocorrelation (SPAC) method at a site in south of Tehran
- XY0300**; EGU2008-A-04923; GI11-1FR2P-0300
Hoareau, J.; Vouillamoz, J.M.; Grammare, M.; Descloîtres, M.; Kumar, C.; Nandagiri, L.
 Freshwater mapping and quantification in coastal aquifers using Magnetic Resonance Soundings and Time Domain Electro-Magnetism
- XY0301**; EGU2008-A-05374; GI11-1FR2P-0301
Soldovieri, F.; Prisco, G.
 Microwave tomography for GPR data processing in near surface and structures diagnostics
- XY0302**; EGU2008-A-01095; GI11-1FR2P-0302
Sh. Osman, Salah; A. Abd Alla, Moham; H. Seisa, Hamde; A. Shaaban, Fathy
 Electrical and GPR tomographies for archaeological investigations at Mit-Rahena village, Giza, Egypt
- XY0303**; EGU2008-A-05241; GI11-1FR2P-0303
RECH, R.M.; STRIEDER, A.; BUFFON, S.
 GPR geophysical investigations to guide archaeological research in the Santo Ângelo Custódio Jesuitic ruins (RS, Brazil)
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