



***ABSTRACT BOOK***  
***of the IAGA 11<sup>th</sup> Scientific Assembly***

***(Sopron, 24-29 August, 2009)***

***Please click the title to read the abstract***

## **DIVISION I**

### ***1.01 Planetary Dynamos: theory, models, observation and experiment***

Oral: MON24 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 Auditorium Green

Poster: MON24 17:00-19:00 Aula

08:30	<b>SIMPLE TAYLOR STATES COMPATIBLE WITH PRESENT OBSERVATIONS</b> <i>ANDREW JACKSON, Philip Livermore, Kuan Li, Glenn Ierley</i>	101-MON-O0830-1321
09:00	<b>SCALING THE DIFFERENTIAL ROTATION OF THE EARTH'S INNER CORE</b> <i>JULIEN AUBERT</i>	101-MON-O0900-0826
09:30	<b>INFERENCE OF STRONG MAGNETIC FIELDS INSIDE THE EARTH'S CORE FROM THE DETECTION OF TORSIONAL WAVES WITH A 6-YEAR PERIOD</b> <i>NICOLAS GILLET, Dominique Jault, Elisabeth Canet, Alexandre Fournier</i>	101-MON-O0930-1235
09:45	<b>ON THE RANGE OF GEOMAGNETIC PREDICTABILITY</b> <i>FLORIAN LHULLIER, Gauthier Hulot, Julien Aubert</i>	101-MON-O0945-0855
10:30	<b>VARIATIONAL DATA ASSIMILATION FOR MOSST: A PROGRESS REPORT</b> <i>Gary D. Egbert, Lada Dimitrova, WEIJIA KUANG, Andrew Tangborn</i>	101-MON-O1030-1264
10:45	<b>TORQUE BALANCE EVOLUTION WITHIN THE CORE OVER THE LAST 150 YEARS</b> <i>SEIKI ASARI, Ingo Wardinski, Mioara Manda</i>	101-MON-O1045-0492
11:15	<b>ON DYNAMOS DRIVEN BY TOPOGRAPHIC PRECESSION</b> <i>Cheng-Chin Wu, PAUL H. ROBERTS</i>	101-MON-O1115-0750
11:45	<b>LARGE-SCALE FLOW AND MAGNETIC FIELD STRUCTURES IN LOW-VISCOSITY GEODYNAMO MODELS: THE EFFECT OF THE THERMAL BOUNDARY CONDITION</b> <i>ATARU SAKURABA, Paul H. Roberts</i>	101-MON-O1145-0680
13:30	<b>MAGNETIC FIELD GENERATION IN THE PRESENCE OF DOUBLE DIFFUSIVE CONVECTION IN PARTLY STABLE CORE OF MERCURY</b> <i>AJAI MANGLIK, J. Wicht, U. R. Christensen</i>	101-MON-O1330-0172
14:00	<b>SCALING AND MODELING FOR PLANETARY CONVECTION AND MAGNETISM</b> <i>SERGEY STARCHENKO</i>	101-MON-O1400-0207
14:15	<b>STABILITY OF ALMOST ADIABATIC CONVECTION IN ROTATING PLANETARY SHELLS</b> <i>MARIA KOTELNIKOVA, Sergey Starchenko</i>	101-MON-O1415-0458
14:45	<b>THE PALEOMAGNETIC RECORD OF THE APOLLO SAMPLES</b> <i>MIKE FULLER and Benjamin P. Weiss</i>	101-MON-O1445-0593
15:30	<b>SATURATION MECHANISMS IN DYNAMO IN THE LAYER</b> <i>P. Hejda, MAXIM RESHETNYAK</i>	101-MON-O1530-0408
15:45	<b>MARGINAL STABILITY OF THE PLANAR LAYER IN EQUATORIAL REGIONS WITH ANISOTROPIC DIFFUSIVITIES</b> <i>TOMAS SOLTIS, Jozef Brestensky</i>	101-MON-O1545-0339
16:00	<b>SPHERICAL MAGNETOCONVECTION WITH ANISOTROPIC TURBULENT THERMAL DIFFUSION</b> <i>DAVID IVERS, Collin Phillips</i>	101-MON-O1600-1099
16:15	<b>KINEMATIC DYNAMOS REVISITED</b> <i>David Ivers, RON JAMES</i>	101-MON-O1615-0973

**Poster Session (17:00-19:00)**

<b>KOZYREV'S ASYMMETRICAL FORCE AND ITS POSSIBLE IMPACT ON GEODYNAMO</b> <i>Igor Rokityansky, ARTEM TERESHYN</i>	101-MON-P1700-0115
<b>INFLUENCE OF A VERTICAL HOMOGENEOUS MAGNETIC FIELD ON SHEARED MAGNETIC FIELD STABILITY</b> <i>S. SEVCIK, Alexandra Marsenic</i>	101-MON-P1700-0318
<b>CONVECTION IN ROTATING NON-UNIFORMLY STRATIFIED SPHERICAL FLUID SHELLS: A SYSTEMATIC PARAMETER STUDY</b> <i>JÁN ŠIMKANIN, Pavel Hejda, Dana Jankovičová</i>	101-MON-P1700-0481
<b>TAYLOR STATES AND THE DYNAMICAL INFLUENCE OF THE INNER CORE</b> <i>PHILIP LIVERMORE, Glenn Ierley, Andy Jackson</i>	101-MON-P1700-0712
<b>EQUATOR ASYMMETRIC CONVECTION AND DYNAMO ACTION IN ROTATING FLUID SPHERES</b> <i>MAYLIS LANDEAU and Julien Aubert</i>	101-MON-P1700-0843
<b>EFFECTS OF THERMAL BOUNDARY CONDITION AND INNER CORE SIZE ON DYNAMOS DRIVEN BY SECULAR COOLING</b> <i>KUMIKO HORI, Johannes Wicht, Ulrich R. Christensen</i>	101-MON-P1700-1038
<b>NON-LOCAL MEMORY EFFECTS OF THE ALPHA-EFFECT IN DYNAMO THEORY</b> <i>KUMIKO HORI, Shigeo Yoshida</i>	101-MON-P1700-1249

***I.02 Consequences of ionospheric-magnetospheric processes on magnetotelluric response functions***

Oral: MON24 08:30-10:00, 10:30-12:00 Auditorium Bourdon

Poster: MON24 17:00-19:00 Aula

08:30	<b>INTRODUCTION TO THE SESSION: CONSEQUENCES OF IONOSPHERIC-MAGNETOSPHERIC PROCESSES ON MAGNETOTELLURIC RESPONSE FUNCTIONS</b> <i>MICHEL MENVIELLE, László Szarka, Jan Lastovicka</i>	102-MON-O0830-1365
09:00	<b>TOWARD AN IMPROVED SOURCE MODEL FOR ELECTROMAGNETIC INDUCTION STUDIES</b> <i>GEORGIOS BALASIS, Gary D. Egbert, Ioannis A. Daglis</i>	102-MON-O0900-1330
09:30	<b>LONG PERIOD MODULATION OF THE IMPEDANCE TENSOR AT NAGYCENK GEOPHYSICAL OBSERVATORY AND ITS STATISTICAL RELATION TO MAGNETOSPHERIC PROCESSES AND SOLAR WIND PARAMETERS</b> <i>ISTVÁN LEMPERGER, Michel Menvielle, Viktor Wesztergom, László Szarka</i>	102-MON-O0930-0143
10:30	<b>THE INDUCTION SOUNDINGS OF THE MANTLE IN THE ROTATING EARTH</b> <i>VLADIMIR Yu. SEMENOV, Milan Hvozدارa, Jan Vozar</i>	102-MON-O1030-0777
10:45	<b>REVEALING EFFECTS MODULATED BY EXTERNAL SOURCE BY USING MAGNETOTELLURIC MONITORING</b> <i>GERARDO ROMANO, Marianna Balasco, Vincenzo Lapenna, Agata Siniscalchi and Luciano Telesca</i>	102-MON-O1045-1215
11:00	<b>ELECTROMAGNETIC INDUCTION IN THE EQUATORIAL ELECTROJET REGION: MORPHOLOGICAL FEATURES OF THE TRANSIENT VARIATIONS OF THE EARTH? ELECTROMAGNETIC FIELD IN WEST AFRICA LONGITUDES</b> <i>K. Boka, M. Menvielle, V. DOUMBIA, C. Amory-Mazaudier, E. Guisso, P. Vila, A. T. Koba, J. Vassal and A. S. Achy</i>	102-MON-O1100-0302
11:15	<b>ELECTROMAGNETIC RESPONSE OF THE EUROPEAN UNDERGROUND TO MAGNETOSPHERIC RING CURRENT VARIATIONS</b> <i>VENERA DOBRICA, Crisan Demetrescu</i>	102-MON-P1115-0289
11:20	<b>SYNTHETIC APPROACH TO MT ANALYSIS OF LONG PERIOD DATA</b> <i>FRIEDRICH MAIER, Karsten Bahr</i>	102-MON-P1120-0505
11:25	<b>RESPONSE FUNCTIONS' VARIATIONS OF INTERNAL ORIGIN</b> <i>IGOR ROKITYANSKY, Evgeny Kharin</i>	102-MON-P1125-0224
11:30	<b>IMPEDANCE TENSOR ERROR ESTIMATES VERSUS MAGNETOSPHERIC ACTIVITY</b> <i>WAWRZYNIAK PIERRE, Sailhac Pascal, Guy Marquis, Zlotnicki Jacques, Fernando di Santo</i>	102-MON-P1130-0792

**Poster Session (17:00-19:00)**

<b>ELECTROMAGNETIC RESPONSE OF THE EUROPEAN UNDERGROUND TO MAGNETOSPHERIC RING CURRENT VARIATIONS</b> <i>VENERA DOBRICA, Crisan Demetrescu</i>	102-MON-P1115-0289
<b>SYNTHETIC APPROACH TO MT ANALYSIS OF LONG PERIOD DATA</b> <i>FRIEDRICH MAIER, Karsten Bahr</i>	102-MON-P1120-0505
<b>RESPONSE FUNCTIONS' VARIATIONS OF INTERNAL ORIGIN</b> <i>IGOR ROKITYANSKY, Evgeny Kharin</i>	102-MON-P1125-0224
<b>IMPEDANCE TENSOR ERROR ESTIMATES VERSUS MAGNETOSPHERIC ACTIVITY</b> <i>WAWRZYNIAK PIERRE, Sailhac Pascal, Guy Marquis, Zlotnicki Jacques, Fernando di Santo</i>	102-MON-P1130-0792

### ***I.03 Continental lithospheric formation and deformation***

*In honour of Toni Ádám's 80th anniversary*

Oral: TUE25 08:30-10:00, 10:30-12:00 Auditorium Green

Poster: TUE25 17:00-19:00 Aula

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| 08:30 | <b>PHYSICAL PROPERTIES OF SOUTHERN AFRICA LITHOSPHERE: COMPARISON OF SEISMIC AND ELECTRICAL PARAMETERS</b><br><i>ALAN G JONES, Stewart Fishwick, Mark R. Muller, and the SAMTEX TEAM</i>   | 103-TUE-O0830-1303 |
| 08:45 | <b>THE LITHOSPHERE OF SOUTHERN AFRICA DEDUCED BY THE SAMTEX EXPERIMENT</b><br><i>ALAN G JONES and the SAMTEX TEAM</i>  | 103-TUE-O0845-1305 |
| 09:00 | <b>GEOELECTRIC STRUCTURE OF THE TESZ: PROGRESS REPORT ON THE EMTESZ-POMERANIA PROJECT</b><br><i>H. Brasse, V. Cerv, T. Ernst, W. Jozwiak, N. Palshin, L. Pedersen, Iv. VARENTSOV and EMTESZ-Pomerania WG</i>   | 103-TUE-O0900-0992 |
| 09:15 | <b>MAGNETO-DEFORMATION ANALYSIS OF GREAT CAIRO, EGYPT</b><br><i>M. Abdel-Monem, MAHMOUD MEKKAWI, S. Mahmoud, A. Rayan</i>  | 103-TUE-O0915-0081 |
| 09:30 | <b>SEISMIC ACTIVITY, CRUSTAL HIGH CONDUCTIVITY AND THE ROLE OF CARBON DURING SHEAR DEFORMATION</b><br><i>PAUL W.J. GLOVER, Antal Ádám</i>  | 103-TUE-O0930-0787 |
| 09:45 | <b>JOINT INVERSION OF MAGNETOTELLURIC AND SURFACE WAVE DATA IN AN ANISOTROPIC LAYERED EARTH</b><br><i>Estelle Roux, ALAN G. JONES, Max Moorkamp</i>  | 103-TUE-O0945-1299 |
| 10:30 | <b>CHARACTERISTICS OF THE ELECTRIC CONDUCTORS IN THE LITHOSPHERE OF THE PANNONIAN BASIN</b><br><i>ANTAL ÁDÁM, Attila Novák, László Szarka</i>  | 103-TUE-P1030-0034 |
| 10:35 | <b>MAGNETOVARIATIONAL RESULTS AS A TOOL TO CHECK DISTORTION DIAGNOSTICS IN MAGNETOTELLURIC CURVES. A STUDY IN ARGENTINA</b><br><i>ENRIQUE BORZOTTA</i>   | 103-TUE-P1035-0095 |
| 10:40 | <b>ABOUT CORRELATION BETWEEN MODERN DEFORMATION FIELD AND DEEP GEOELECTRIC STRUCTURE OF THE CENTRAL TIEN SHAN ACCORDING TO GPS AND MT DATA</b><br><i>ANATOLY RYBIN and Alexander Kostuk</i>  | 103-TUE-P1040-0271 |
| 10:45 | <b>STOCHASTIC INVERSION OF THE CONDUCTANCE AT THE EASTERN MARGIN OF THE BOHEMIAN MASSIF</b><br><i>VACLAV. CERV, Michelle Menvielle, Josef Pek</i>  | 103-TUE-P1045-0701 |
| 10:50 | <b>REFERENCE PROFILE AND ELECTRICAL CONDUCTIVITY OF THE UPPER MANTLE BENEATH CRATONS</b><br><i>NIKOLAY PALSHIN and Maxim Smirnov</i>   | 103-TUE-P1050-0786 |
| 10:55 | <b>EMPLACEMENT OF BANKURA ANORTHOSITE WITHIN CHHOTANAGPUR GRANITE GNEISS COMPLEX, EASTERN INDIA: APPLICATION OF AMS STUDY</b><br><i>ALOKESH CHATTERJEE</i>   | 103-TUE-P1055-0799 |
| 11:00 | <b>UPPER MANTLE STRUCTURES BENEATH CENTRAL EUROPE: FROM FIRST ANTAL ADAM'S RESULTS TO RECENT ONES</b><br><i>VLADIMIR SEMENOV, Waldemar Jozwiak</i>   | 103-TUE-P1100-0803 |
| 11:05 | <b>MAGNETOTELLURICS, GRAVITY AND GEOID IN SOUTH SAO FRANCISCO CRATON, BRAZIL: GEOPHYSICAL INDICATORS OF CRATONIC LITHOSPHERE REJUVENATION AND CRUSTAL UNDERPLATING</b><br><i>Luis G.R. Pinto, Marcelo B. Padua, Naomi Ussami, Icaro Vitorello, ANTONIO L. PADILHA, Carla Braitenberg</i> | 103-TUE-P1105-0813 |
| 11:10 | <b>GEOELECTRIC PARAMETERS OF THE EARTH CRUST AT THE SOUTH-WEST MARGIN OF THE EAST-EUROPEAN PLATFORM IN UKRAINE</b><br><i>SVETLANA KOVÁČIKOVÁ, Josef Pek, Igor Logvinov, Victor Tarasov</i>   | 103-TUE-P1110-0828 |

**Poster Session (17:00-19:00)**

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| <b>CHARACTERISTICS OF THE ELECTRIC CONDUCTORS IN THE LITHOSPHERE OF THE PANNONIAN BASIN</b>  | 103-TUE-P1030-0034 |
| <i>ANTAL ÁDÁM, Attila Novák, László Szarka</i>   |                    |
| <b>MAGNETOVARIAIONAL RESULTS AS A TOOL TO CHECK DISTORTION DIAGNOSTICS IN MAGNETOTELLURIC CURVES. A STUDY IN ARGENTINA</b>   | 103-TUE-P1035-0095 |
| <i>ENRIQUE BORZOTTA</i>  |                    |
| <b>ABOUT CORRELATION BETWEEN MODERN DEFORMATION FIELD AND DEEP GEOELECTRIC STRUCTURE OF THE CENTRAL TIEN SHAN ACCORDING TO GPS AND MT DATA</b>                         | 103-TUE-P1040-0271 |
| <i>ANATOLY RYBIN and Alexander Kostuk</i>  |                    |
| <b>STOCHASTIC INVERSION OF THE CONDUCTANCE AT THE EASTERN MARGIN OF THE BOHEMIAN MASSIF</b>  | 103-TUE-P1045-0701 |
| <i>VACLAV. CERV, Michelle Menvielle, Josef Pek</i>   |                    |
| <b>REFERENCE PROFILE AND ELECTRICAL CONDUCTIVITY OF THE UPPER MANTLE BENEATH CRATONS</b>   | 103-TUE-P1050-0786 |
| <i>Nikolay Palshin and Maxim Smirnov</i>   |                    |
| <b>EMPLACEMENT OF BANKURA ANORTHOSITE WITHIN CHHOTANAGPUR GRANITE GNEISS COMPLEX, EASTERN INDIA: APPLICATION OF AMS STUDY</b>  | 103-TUE-P1055-0799 |
| <i>ALOKESH CHATTERJEE</i>  |                    |
| <b>UPPER MANTLE STRUCTURES BENEATH CENTRAL EUROPE: FROM FIRST ANTAL ADAM'S RESULTS TO RECENT ONES</b>  | 103-TUE-P1100-0803 |
| <i>Vladimir Semenov, Waldemar Jozwiak</i>  |                    |
| <b>MAGNETOTELLURICS, GRAVITY AND GEOID IN SOUTH SAO FRANCISCO CRATON, BRAZIL: GEOPHYSICAL INDICATORS OF CRATONIC LITHOSPHERE REJUVENATION AND CRUSTAL UNDERPLATING</b> | 103-TUE-P1105-0813 |
| <i>Luis G.R. Pinto, Marcelo B. Padua, Naomi Ussami, Icaro Vitorello, ANTONIO L. PADILHA, Carla Braitenberg</i>   |                    |
| <b>GEOELECTRIC PARAMETERS OF THE EARTH CRUST AT THE SOUTH-WEST MARGIN OF THE EAST-EUROPEAN PLATFORM IN UKRAINE</b>   | 103-TUE-P1110-0828 |
| <i>SVETLANA KOVÁČIKOVÁ, Josef Pek, Igor Logvinov, Victor Tarasov</i>   |                    |

#### ***I.04 Near surface and environmental studies using electromagnetic induction***

Oral: THU27 10:30-12:00, 13:30-15:00, 15:30-17:00 Auditorium Bourdon

Poster: THU27 17:00-19:00 Aula

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| 10:30 | <b>MAGNETOTELLURIC AND RADIO-MAGNETOTELLURIC, AN EXAMPLE FROM MIDSOMMAR ISLAND, SWEDEN</b><br><i>IDA HOUSHYARI</i>  | 104-THU-O1030-0039 |
| 10:45 | <b>VERY LOW FREQUENCY ELECTROMAGNETIC OBSERVATIONS IN THE HIGH ALTITUDE REGION OF NORTH SIKKIM, INDIA</b><br><i>SHASHI P. SHARMA, K. Anbarasu, S. Gupta and A. Sengupta</i>   | 104-THU-O1045-0191 |
| 11:00 | <b>APPLICATION OF THE MT AND CSAMT METHOD TO GEOTHERMAL EXPLORATION AT WUHAN FIELD</b><br><i>Guiju Wu, Xiangyun Hu, KANGSOP KIM</i>   | 104-THU-O1100-0313 |
| 11:15 | <b>A PILOT STUDY OF UNDERGROUND AUDIO-MAGNETOTELLURIC (AMT) MEASUREMENTS AND ITS APPLICATION FOR THE MINING INDUSTRY</b><br><i>Colin Hogg, ALAN G. JONES, Jessica Spratt and James A. Craven</i>  | 104-THU-O1115-0845 |
| 11:30 | <b>GROUNDING ELECTRICAL SOURCE AIRBORNE TRANSIENT EM (GREATEM) RESPONSE FOR 3D STRUCTURE</b><br><i>TORU MOGI and Elena Fomenko</i>  | 104-THU-O1130-1149 |
| 13:30 | <b>ACIDITY-SALINITY RELATIONSHIP IN GOLD MINE TAILINGS IN NOPIPING PROVINCIAL PARK, MANITOBA, CANADA</b><br><i>IAN FERGUSON, Cassandra Tycholiz, Barbara Sherriff, Marcos Cordeiro, Ranjan Sri Ranjan</i>                               | 104-THU-O1330-1157 |
| 13:45 | <b>EARTHQUAKE-INDUCED LANDSLIDES GEOHAZARD ASSESSMENT (SOUTH SUBCARPATHIANS) BY USING ELECTROMAGNETIC DATA</b><br><i>Dumitru STANICA and Maria STANICA</i>  | 104-THU-O1345-0376 |
| 14:00 | <b>USING MAGNETIC METHOD FOR DETERMINING CHARACTERISTICS OF FAULT ZONE IN ARAK, MARKAZI PROVINCE, IRAN</b><br><i>MOHAMMADALI KARIMI, Mahmoud Mirzaei</i>  | 104-THU-O1400-1344 |
| 14:15 | <b>RECONSTRUCTING THE GEOLOGICAL HISTORY OF THE EGYPTIAN NILE: ASWAN - KOM OMBO PHASE</b><br><i>ELHAMY TARABEES, Leslie Lansbery, Jeff Roden, Gad El-Qady, Abdelaziz El-Haddad, Estella Atekwana, John Hogan and Mohamed Abdelsalam</i> | 104-THU-O1415-0347 |
| 14:30 | <b>THE SEGMENTED RECEIVER SETUP FOR TDEM</b><br><i>NICKLAS SKOVGAARD NYBOE, Kurt Ingvard Sørensen</i>   | 104-THU-O1430-1216 |
| 14:45 | <b>APPLICATION OF MEMBRANE POLARIZATION FOR STUDYING</b><br><i>VALERIYA ZADOROZHNYAYA, Leonie Mare</i>  | 104-THU-O1445-1352 |
| 15:30 | <b>DETERMINATION SITE EFFECT OF ZARQA CITY-JORDAN BASED ON MICROTREMORS FIELD MEASUREMENTS: A MICROZONATION STUDY</b><br><i>WALEED EID OLIMAT</i>   | 104-THU-P1530-0002 |
| 15:35 | <b>Cancelled</b>  |                    |
| 15:40 | <b>FROM THE RESULTS OF THE OTKA PROJECT "NON-CONVENTIONAL GEOELECTRIC ARRAYS, K49604"</b><br><i>SÁNDOR SZALAI, Varga Mihály, Novák Attila, Szarka László</i>  | 104-THU-P1540-0141 |
| 15:45 | <b>Cancelled</b>  |                    |
| 15:50 | <b>STUDY ON APPLICATION OF THE LOW-FREQUENCY ELECTROMAGNETIC SIGNALS IN EARTHQUAKE PREDICTION</b><br><i>GAO Shude, LIU Xiaofeng, LUO Weibin, DU Xuebin, SU Yonggang</i>   | 104-THU-P1550-0212 |
| 15:55 | <b>JOINT INVERSION OF VES AND TEM DATA FOR INVESTIGATION OF GEOTHERMAL RESOURCES AND SEA WATER INTRUSION AT HAMMAM MOUSA HOT SPRING, SINAI, EGYPT</b><br><i>GAD EL-QADY, Usama Massoud, Fernando Santos, El-Said Ragab, Sultan Awad</i> | 104-THU-P1555-0382 |



16:00	<b>MEASUREMENT OF ELECTRIC AND MAGNETIC FIELDS AND GRADIENTS IN THE CONDUCTIVE OCEANIC MEDIUM</b> <i>DAVID CLARK</i>	104-THU-P1600-0402
16:05	<b>FREQUENCY-DOMAIN ELECTROMAGNETIC INDUCTION METHOD FOR PASSIVE ENVIRONMENTAL STUDIES</b> <i>Patricia Martinelli, ANA OSELLA</i>	104-THU-P1605-0534
16:10	<b>LAYER-DISCONTINUITY INDICATIONS IN THE INDUCTION RESPONSE OF EM TRANSILLUMINATION MEASUREMENT</b> <i>ERNŐ TAKÁCS</i>	104-THU-P1610-0540
16:15	<b>AMT EXPERIENCES ON GRANITE ROCK - STUDY OF BÁTAAPÁTI NUCLEAR WASTE DEPOSIT SITE</b> <i>ANDRÁS MADARASI, Balázs Füsi</i>	104-THU-P1615-1162
16:20	<b>AN EVALUATION OF THE SYNTHETIC EMITTER ARRAY METHOD IN GPR PROSPECTING</b> <i>ANA OSELLA, Lorena Cedrina, Néstor Bonomo</i>	104-THU-P1620-0572
16:25	<b>A MAGNETOTELLURIC STUDY TO DETERMINE CONDUCTIVE SALTY WATER STRUCTURES IN THE EAST OF ALAGOL LAKE, GOLESTAN PROVINCE, IRAN</b> <i>BEROOZ OSKOOL, Bibi Rabea Sedaghat</i>	104-THU-P1625-0835
16:30	<b>ELECTRIC FIELD VARIATIONS GENERATED BY GROUND MOTION AND THEIR APPLICATION TO GROUNDWATER RESEARCH</b> <i>YOSHIMORI HONKURA, Masaki Matsushima, Yasuo Ogawa</i>	104-THU-P1630-0984
16:35	<b>EFFECT OF CURRENT ELECTRODE POSITIONS AND OF GAUSSIAN NOISE ON TENSORIAL INVARIANTS</b> <i>ATTILA NOVÁK, László Szarka, Mihály Varga</i>	104-THU-P1635-1113
16:40	<b>RECOGNITION OF SHALLOW STRUCTURE OF OROGENIC AREA WITH APPLICATION OF AMT AND CSAMT SURVEY</b> <i>MAREK WOJDYLA, Elzbieta Maj, Mariusz Slys, Michal Stefaniuk</i>	104-THU-P1640-1194
16:45	<b>MONITORING OF WATER RESOURCES AND THEIR IMPACTS ON HAWARA ARCHEOLOGICAL SITE BY TRANSIENT ELECTROMAGNETIC METHOD</b> <i>USAMA MASSOUD, Abbas M. Abbas, Hany Mesbah, El Said Ragab, Ayman Taha</i>	104-THU-P1645-0383

**Poster Session (17:00-19:00)**

<b>DETERMINATION SITE EFFECT OF ZARQA CITY-JORDAN BASED ON MICROTREMORS FIELD MEASUREMENTS: A MICROZONATION STUDY</b> <i>WALEED EID OLIMAT</i>	104-THU-P1530-0002
<b>FROM THE RESULTS OF THE OTKA PROJECT "NON- CONVENTIONAL GEOELECTRIC ARRAYS, K49604"</b> <i>SÁNDOR SZALAI, Varga Mihály, Novák Attila, Szarka László</i>	104-THU-P1540-0141
<b>STUDY ON APPLICATION OF THE LOW-FREQUENCY ELECTROMAGNETIC SIGNALS IN EARTHQUAKE PREDICTION</b> <i>GAO Shude, LIU Xiaofeng, LUO Weibin, DU Xuebin, SU Yonggang</i>	104-THU-P1550-0212
<b>JOINT INVERSION OF VES AND TEM DATA FOR INVESTIGATION OF GEOTHERMAL RESOURCES AND SEA WATER INTRUSION AT HAMMAM MOUSA HOT SPRING, SINAI, EGYPT</b> <i>Gad El-Qady, USAMA MASSOUD, Fernando Santos, El-Said Ragab, Sultan Awad</i>	104-THU-P1555-0382
<b>MEASUREMENT OF ELECTRIC AND MAGNETIC FIELDS AND GRADIENTS IN THE CONDUCTIVE OCEANIC MEDIUM</b> <i>DAVID CLARK</i>	104-THU-P1600-0402
<b>FREQUENCY-DOMAIN ELECTROMAGNETIC INDUCTION METHOD FOR PASSIVE ENVIRONMENTAL STUDIES</b> <i>Patricia Martinelli, Ana Osella</i>	104-THU-P1605-0534
<b>LAYER-DISCONTINUITY INDICATIONS IN THE INDUCTION RESPONSE OF EM TRANSILLUMINATION MEASUREMENT</b> <i>ERNŐ TAKÁCS</i>	104-THU-P1610-0540
<b>AMT EXPERIENCES ON GRANITE ROCK - STUDY OF BÁTAPÁTI NUCLEAR WASTE DEPOSIT SITE</b> <i>ANDRÁS MADARASI, Balázs Füsi</i>	104-THU-P1615-1162
<b>AN EVALUATION OF THE SYNTHETIC EMITTER ARRAY METHOD IN GPR PROSPECTING</b> <i>Ana Osella, Lorena Cedrina, Néstor Bonomo</i>	104-THU-P1620-0572
<b>A MAGNETOTELLURIC STUDY TO DETERMINE CONDUCTIVE SALTY WATER STRUCTURES IN THE EAST OF ALAGOL LAKE, GOLESTAN PROVINCE, IRAN</b> <i>BEROOZ OSKOOL, Bibi Rabea Sedaghat</i>	104-THU-P1625-0835
<b>ELECTRIC FIELD VARIATIONS GENERATED BY GROUND MOTION AND THEIR APPLICATION TO GROUNDWATER RESEARCH</b> <i>YOSHIMORI HONKURA, Masaki Matsushima, Yasuo Ogawa</i>	104-THU-P1630-0984
<b>EFFECT OF CURRENT ELECTRODE POSITIONS AND OF GAUSSIAN NOISE ON TENSORIAL INVARIANTS</b> <i>Attila Novák, László Szarka, Mihály Varga</i>	104-THU-P1635-1113
<b>RECOGNITION OF SHALLOW STRUCTURE OF OROGENIC AREA WITH APPLICATION OF AMT AND CSAMT SURVEY</b> <i>MAREK WOJDYLA, Elzbieta Maj, Mariusz Slys, Michal Stefaniuk</i>	104-THU-P1640-1194
<b>MONITORING OF WATER RESOURCES AND THEIR IMPACTS ON HAWARA ARCHEOLOGICAL SITE BY TRANSIENT ELECTROMAGNETIC METHOD</b> <i>Usama Massoud, Abbas M. Abbas, Hany Mesbah, El Said Ragab, Ayman Taha</i>	104-THU-P1645-0383

***I.05 Deep mantle structure imaged by electromagnetic observations using long-period MT, cables and satellites.  
EM studies in oceans  
In memory of Ulrich Schmucker (1930-2008)***

Oral: FRI28 08:30-10:00, 10:30-12:00 Auditorium Green

Poster: FRI28 17:00-19:00 Aula

08:30	<b>ULRICH SCHMUCKER, PIONEER OF ELECTROMAGNETIC INDUCTION</b> <i>KARSTEN BAHR</i>	105-FRI-O0830-0453
09:00	<b>LARGE-SCALE EUROPEAN MANTLE ELECTRIC STRUCTURE AS DERIVED FROM RING CURRENT AND GEOMAGNETIC OBSERVATORY DATA</b> <i>VENERA DOBRICA, Crisan Demetrescu</i>	105-FRI-O0900-0288
09:15	<b>GLOBAL EM INDUCTION IN THE EARTH: EFFECTS OF EXTERNAL FIELD GEOMETRY ON THE 1-D INVERSION PROBLEM</b> <i>JAKUB VELIMSKY, Nina Benesova, Hana Cizkova</i>	105-FRI-O0915-0779
10:30	<b>3-D IMAGING OF MID-MANTLE CONDUCTIVITY BASED ON INVERSION OF GROUND-BASED C-RESPONSES</b> <i>ALEXEY SEMENOV, Alexei Kuvshinov</i>	105-FRI-O1030-0780
10:45	<b>USE OF GEOMAGNETIC DEPTH SOUNDING TO RECOVER MAGNETOTELLURIC IMPEDANCE TENSORS FROM INCOMPLETE ELECTROMAGNETIC TIME SERIES</b> <i>LAWRENCE FON, Karsten Bahr, Fiona Simpson</i>	105-FRI-O1045-0460
11:00	<b>DEEP ELECTRICAL CONDUCTIVITY STRUCTURE BENEATH THE NORTHWEST PACIFIC</b> <i>HIROAKI TOH, Tsutomu Motobayashi</i>	105-FRI-O1100-0655
11:15	<b>ANOMALY OF THE GEOMAGNETIC SQ VARIATION IN JAPAN: EFFECT FROM SUBTERRANEAN STRUCTURE OR THE OCEAN EFFECT?</b> <i>ALEXEI KUVSHINOV, Hisashi Utada</i>	105-FRI-O1115-0956
11:30	<b>AMPHIBIOUS MT EXPERIMENT ON COSTA RICAN SUBDUCTION ZONE</b> <i>Tamara Worzevski, MARION JEGEN-KULCSAR, H. Brasse, W.Taylor</i>	105-FRI-O1130-1229

**Poster Session (17:00-19:00)**

- SEISMOELECTROMAGNETIC SIGNALS ABOVE THE OCEAN (ELEMENTS OF THE TSUNAMI PRECURSOR PHYSICS)** 105-FRI-P1700-0243  
OLEG NOVIK
- IMAGING OF THE REGIONAL RESISTIVITY STRUCTURE AROUND A SUBDUCTION ZONE BY USING LONG DIPOLE DATA** 105-FRI-P1700-0272  
MAKI HATA, Naoto OSHIMAN, Ryokei YOSHIMURA, Yoshikazu TANAKA, Makoto UYESHIMA
- LONG-PERIOD MAGNETOTELLURIC SURVEY FROM THE BLACK FOREST THROUGH THE WESTERN ALPS TO THE PO BASIN** 105-FRI-P1700-0523  
DJAMIL AL-HALBOUNI, Karsten Bahr
- ANALYSIS OF LONG PERIOD MAGNETOTELLURIC DATA MEASURED IN REGIONS AFFECTED BY VOLCANISM IN GERMANY** 105-FRI-P1700-0563  
FRIEDMANN SAMROCK, Karsten Bahr, Friedrich Maier
- ON THE POSSIBLE ORIGINS OF NATURAL LOW-FREQUENCY EM NOISE IN SHALLOW BRACKISH WATER BASINS** 105-FRI-P1700-0719  
NIKOLAY PALSHIN, Denis Yakovlev, Andrey Yakovlev and Aleksey Geraskin
- SHALLOW WATER MT TECHNOLOGY** 105-FRI-P1700-0800  
Andrei Yakovlev, Denis Yakovlev, Georgii Trigubovich, Vladimir Lygin, Nikolay Palshin
- THIN SHEET INVERSION OF THE HORIZONTAL MAGNETIC INTER-STATION RESPONSES FROM THE EMTESZ-POMERANIA ARRAY** 105-FRI-P1700-0830  
V. Červ, S. KOVÁČIKOVÁ, M. Menvielle, J. Pek, E. Sokolova, Iv. Varentsov and EMTESZ-Pomerania WG
- COMPARISON OF TECHNIQUES TO EXTRACT GEOMAGNETIC FIELD COMPONENTS FROM ARRAY OF INDUCTION ARROWS USING SPLINES AND HILBERT TRANSFORMS** 105-FRI-P1700-0831  
WALDEMAR JOZWIAK, Svetlana Kovacikova, Krzysztof Nowozynski, Ivan Varentsov
- LONG PERIOD MANGETOVARIAIONAL STUDIES OF CRUSTAL AND MANTLE STRUCTURES RELATED TO VOLCANIC AREAS IN WESTERN AND CENTRAL GERMANY** 105-FRI-P1700-0879  
FELIX HIPPMANN, Karsten Bahr
- DEVELOPMENT OF NEW EXPLORATION TOOLS FOR DEEP SEABED MINERAL RESOURCES BY USING ELECTRICAL AND MAGNETIC METHODS** 105-FRI-P1700-0971  
Keizo Sayanagi, Tada-nori Goto, Takafumi Kasaya, Makoto Harada, Takahiro Nakajima, Takao Sawa, TOSHIYASU NAGAO, Akihiro Takeuchi, Jun Matsuo, and Nobuhiro Isezaki
- EM IMAGING BENEATH THE BACK-ARC REGION OF SOUTHWEST JAPAN: COOPERATIVE SEAFLOOR AND LAND SURFACE EM OBSERVATIONS** 105-FRI-P1700-0982  
Naoto Oshiman, RYOKEI YOSHIMURA, Hiroaki Toh, Takafumi Kasaya, Masashi Shimoizumi, Ichiro Shiozaki, Masafumi Shingai, Ikuko Fujii, Satoru Yamaguchi, Hideki Murakami, Akira Yamazaki, Makoto Uyeshima
- A REFERENCE 1-D MODEL OF ELECTRICAL CONDUCTIVITY FOR THE UPPER MANTLE BENEATH THE PHILIPPINE SEA** 105-FRI-P1700-0983  
Kiyoshi Baba, HISASHI UTADA, Hisayoshi Shimizu
- A REVISED 1-D ELECTRICAL CONDUCTIVITY REFERENCE STRUCTURE BENEATH NORTH PACIFIC OBTAINED BY SEMI-GLOBAL INDUCTION STUDY** 105-FRI-P1700-1068  
HISAYOSHI SHIMIZU, Takao Koyama, Kiyoshi Baba, Hisashi Utada
- GEOELECTRICAL CONSIDERATIONS OF THE CENTRAL BETIC LISTHOSPHERIC STRUCTURE: EXTENDING THE PREVIOUS WORKS TOWARDS WEST** 105-FRI-P1700-1096  
ORIOLE ROSELL, Alex Marcuello, Anna Martí, Juanjo Ledo, Pilar Queralt

## ***1.06 Crustal tectonic processes constrained by electromagnetic observations***

### ***In memory of Mark Berdichevsky***

Oral: TUE25 13:30-15:00, 15:30-17:00 Auditorium Bourdon

Oral: WED26 10:30-12:00 Auditorium Bourdon

Poster: TUE25 17:00-19:00 Aula

- 13:30 **REGIONAL MT SURVEY ACROSS AN ARCHAEOAN CRATON IN SOUTH AUSTRALIA - INFLUENCE OF SEDIMENTARY BASINS AND PLATE BOUNDARIES** 106-TUE-O1330-0595  
*STEPHAN THIEL, Graham Heinson*
- 13:45 **A MAGNETOTELLURIC STUDY OF CONTINENTAL LITHOSPHERE IN THE FINAL STAGES OF BREAK-UP: AFAR, ETHIOPIA** 106-TUE-O1345-1158  
*Mohammednur Desissa, KATHRYN WHALER, Sophie Hautot, Graham Dawes, Shimeles Fisseha, Nicholas Johnson*
- 14:00 **PICASSO PHASE I: MT INVESTIGATION OF SPAIN FROM MADRID TO THE BETICS - PRELIMINARY RESULTS AND MODELS** 106-TUE-O1400-1304  
*Jan-Philipp Schmoldt, ALAN G JONES, Colin Hogg and Oriol Rosell*
- 14:15 **MT TOPOIBERIA: LONG PERIOD MEASUREMENTS IN THE IBERIAN MASSIF (CENTRAL SPAIN)** 106-TUE-O1415-1191  
*JAUME POUS, Jesús Galindo, Ana Ruiz-Constán, Wiebke Heise, Eva Asensio, Pedro Ibarra, Fernando Monteiro Santos, Antonio Pedrera, Farida Anahnah, Jorge Arzate*
- 14:30 **INVESTIGATING THE CENTRAL AMERICAN VOLCANIC ARC WITH LONG-PERIOD AND BROAD-BAND MAGNETOTELLURICS** 106-TUE-O1430-1077  
*HEINRICH BRASSE, Lutz Mütschard, Angelica Muñoz, Guillermo Alvarado, Tamara Worzewski*
- 14:45 **RECOGNITION OF CRUSTAL STRUCTURES OF MID-POLISH THROUGH BASED ON REGIONAL MAGNETOTELLURIC PROFILES** 106-TUE-O1445-1261  
*MICHAL STEFANIUK*
- 15:30 **MAGNETOTELLURIC INVESTIGATION OF THE CENTRAL TIEN SHAN: PROFILE INTERPRETATION AND SPATIAL ANALYSIS** 106-TUE-O1530-0910  
*ELENA SOKOLOVA, Mark Berdichevsky, Nina Golubtsova, Anatoly Rybin, Ivan Varentsov, Natalia Baglaenko, Vladislav Batalev, Vitaly Matukov, NARYN WG*
- 15:45 **THE FEATURES OF GEOELECTRIC STRUCTURE OF THE TECTONOSPHERE OF AVERAGE URAL AND SURROUNDING PLATFORM AREAS** 106-TUE-O1545-0186  
*OLESYA SURINA, Aza D'yakonova*
- 16:00 **INVESTIGATION OF SUMATRA FAULT BASED ON MAGNETOTELLURIC AND GPS MEASUREMENTS** 106-TUE-O1600-1248  
*NURHASAN, D. Sutarno, Y. Ogawa, D. Sugiyanto, M. Irwan, F. Kimata, Takeo Ito, Agustan*
- 16:15 **MAGNETOTELLURIC INVESTIGATION IN THE EASTERN FLANK OF MT ETNA REGION: BASEMENT MORPHOLOGY AND INFERENCES ON THE FLANK INSTABILITY** 106-TUE-O1615-1341  
*SIMONA TRIPALDI, Marianna Balasco, Pierpaolo Moretti, Gerardo Romano, Marco Neri and Agata Siniscalchi*
- 16:30 **TIME-DEPENDENT MODELLING OF THE ELECTRIC AND MAGNETIC FIELDS CAUSED BY FLUID FLOW IN VULCANO, ITALY** 106-TUE-O1630-1008  
*Emilie Walker, PAUL W. J. GLOVER*
- 16:45 **DETECTION OF POSSIBLE TECTONOMAGNETIC SIGNALS BY USING REGIONAL GEOMAGNETIC FIELD MODELS - THE CASE OF 1995 KOBE EARTHQUAKE IN JAPAN** 106-TUE-O1645-0561  
*KEN'ICHI YAMAZAKI, Shin'ya Sakanaka*

10:30	<b>SEISMIC AND MAGNETIC IMAGES AT THE SUMATRA-ANDAMAN MEGA THRUST SUBDUCTION ZONE EARTHQUAKE (M<sub>w</sub> 9.3)</b> <i>JNANA RANJAN KAYAL</i>	106-WED-O1030-0110
10:45	<b>CAN EARTHQUAKE NUCLEATION AND RUPTURE EVOLUTION BE CONSTRAINED WITH EM DATA?</b> <i>MALCOLM JOHNSTON</i>	106-WED-O1045-0475
11:00	<b>SEISMIC ELECTRIC SIGNALS: THE USEFULNESS OF NATURAL TIME IN IDENTIFYING THE OCCURRENCE TIME OF AN IMPENDING EARTHQUAKE</b> <i>PANAYIOTIS A. VAROTSOS, Nicholas V. Sarlis, Efthimios S. Skordas, and Mary S. Lazaridou</i>	106-WED-O1100-0522
11:15	<b>SIGNALS RECORDED BY DEMETER SATELLITE OVER ACTIVE VOLCANOES</b> <i>JACQUES ZLOTNICKI, Feng Li, Michel Parrot</i>	106-WED-O1115-0642
11:30	<b>NATURAL TIME ANALYSIS AS A TOOL FOR SHORT-TERM EARTHQUAKE PREDICTION</b> <i>SEIYA UYEDA, Masashi Kamogawa, and Yuki Tomizawa</i>	106-WED-O1130-0545
11:45	<b>MULTI SENSOR SATELLITE DATA FOR EARLY INFORMATION OF CRUSTAL DEFORMATION</b> <i>RAMESH P. SINGH and Menas Kafatos</i>	106-WED-O1145-1349

**Poster Session (17:00-19:00)**

- ULF MAGNETIC ACTIVITY STUDY IN SICHUAN SEISMO-ACTIVE REGION, CHINA** 106-TUE-P1700-0156  
*Fedir Dudkin, VALERY KOREPANOV, Olha Leontyeva, Qi Li, Dongmei Yang*
- THE STUDY OF RELATION BETWEEN THE GEOMAGNETIC ZERO ISOPORIC ZONE PHENOMENON AND EARTHQUAKES WITH M<sub>s</sub>6.0 IN CHINA** 106-TUE-P1700-0185  
*SUQIN ZHANG, Dongmei Yang, Qi Li*
- CASE STUDY OF THE TEC ANOMALY OBSERVED BEFORE THE NEW ZEALAND EARTHQUAKE OF NOV. 22, 2004 USING NUMERICAL MODELING** 106-TUE-P1700-0199  
*OLEG V. ZOLOTOV, Alexander A. Namgaladze, Oleg V. Martynenko, Boris E. Prokhorov*
- ELECTRICAL RESISTIVITY IMAGING OF SEISMICALLY ACTIVE FRONTAL HIMALAYA** 106-TUE-P1700-0294  
*GAUTAM RAWAT and B.R.Arora*
- 2D GEO-ELECTRIC STRUCTURE ACROSS VOLCANIC PLUGS IN JUNAGADH AREA OF SAURASHTRA USING MAGNETOTELLURICS** 106-TUE-P1700-0321  
*DURBHAKULA N. MURTHY, M. Someswara Rao, K. Veeraswamy, T. Harinarayana*
- MAGNETOTELLURIC DELINEATION OF DEEP GEOELECTRIC STRUCTURE ACROSS SATPURA MOBILE BELT AND ITS TECTONOMAGMATIC IMPLICATIONS** 106-TUE-P1700-0330  
*K. VEERASWAMY, D. N. Murthy, T. Harinarayana*
- SOURCE MODELING OF THE 1999 TAIWAN (CHI CHI) ARTHQUAKE DERIVED FROM GEOMAGNETIC INDUCTION VECTORS** 106-TUEP1700-0365  
*KUANG-JUNG CHEN, Bonbbon Chiu, Cheng-Yu Lee, Cheng-Horng Lin and Kevin Chao*
- ELECTRICAL CONDUCTIVITY IMAGING OF CRUSTAL STRUCTURES IN NORTHERN VICTORIA LAND, ANTARCTICA** 106-TUE-P1700-0409  
*EMANUELE BOZZO, Egidio Armadillo, Marco Gambetta*
- DEEP CRUSTAL STUDIES IN ANTARCTICA USING WIDE BAND MAGNETOTELLURIC METHOD** 106-TUE-P1700-0433  
*S. PRABHAKAR E.RAO, T. Harinarayana and Sharana Basava*
- MAGNETIC AND TOPOGRAPHIC STUDIES ON THE MAIN CRATER LAKE OF TAAL VOLCANO, PHILIPPINES** 106-TUE-P1700-0541  
*Makoto Harada, YOICHI SASAI, Julio P. Sabit, Juan M. Cordon Jr., Jacques Zlotnicki, Jaime Sincioco, Yoshikazu Tanaka, Toshiyasu Nagao*
- MAGNETIC CHANGES PRIOR TO THE SUMMIT COLLAPSE OF MIYAKE-JIMAS VOLCANO (JULY 8, 2000) REVISITED** 106-TUE-P1700-0543  
*YOICHI SASAI, Ikuko Fujii, Jacques Zlotnicki, Makoto Uyeshima*
- DIRECT MAGNETIC SIGNALS FROM EARTHQUAKE FAULTING: IWATE-MIYAGI EATRTHQUAKE OF M 7.2, JAPAN** 106-TUE-P1700-0544  
*Kan Okubo, Nobunao Takeuchi, Mitsuru Utsugi, Kiyofumi Yumoto, YOICHI SASAI*
- MAGNETOTELLURIC MONITORING EXPERIMENT AT THE NORTHERN TIEN SHAN SEISMOGENIC ZONE** 106-TUE-P1700-0600  
*ANATOLY RYBIN, Vladislav Batalev, Elena Bataleva, Vitaly Matukov*
- MAGNETOTELLURIC STUDY OF PARINACOTA AND LASCAR VOLCANOES, CENTRAL ANDES** 106-TUE-P1700-0623  
*DANIEL DIAZ, Dirk Brändlein, Heinrich Brasse*
- ELECTROMAGNETIC, GEOCHEMICAL AND THERMAL ANOMALIES RELATED TO THE HYDROTHERMAL ACTIVITY OF TAAL VOLCANO (PHILIPPINES)** 106-TUE-P1700-0640  
*Jacques Zlotnicki, J. P. Toutain, Y. Sasai, E.U. Villacorte, M. Harada, A. Bernard, P. Yvetot, F. Fauquet, F. Sortino, PHIVOLCS EM Team, T. Nagao, and R. Solidium*

<b>EM STUDIES IN CORINTH GULF SEISMIC GAP (GREECE)</b>	106-TUE-P1700-0641
JACQUES ZLOTNICKI, A. Gvishiani, S. Bogoutdinov, Li Feng, R. Sinha, V. Vargemezis, P. Yvetot, F. Fauquet, P. Bernard, J. L. Le Mouél	
<b>MAGNETOTELLURIC FIELD ANOMALIES AND THE SECOND-ORDER MAGNETIC PHASE TRANSITION</b>	106-TUE-P1700-0646
László Szarka, János Kiss, ERNŐ PRÁCSER, Antal Ádám, Attila Novák, András Madarasi	
<b>ON THE REPORTED MAGNETIC PRECURSOR OF THE 1993 GUAM EARTHQUAKE</b>	106-TUE-P1700-0659
Jeremy N. Thomas, Jeffrey J. Love and MALCOLM J. S. JOHNSTON	
<b>THE APRIL, 6, 2009 EARTHQUAKE AT L'AQUILA: A PRELIMINARY ANALYSIS OF MAGNETIC FIELD MEASUREMENTS</b>	106-TUE-P1700-0684
UMBERTO VILLANTE, Marcello De Lauretis, Chiara De Paulis, Patrizia Francia, Andrea Piancatelli, Ermanno Pietropaolo, Massimo Vellante, Antonio Meloni, Paolo Palangio, Konrad Schwingenschuh, G. Prattes, W. Magnes, Petko Nenovski	
<b>CRUST STRUCTURE INVESTIGATION OF NORTH-WEST ANATOLIA WITH MAGNETOTELLURIC DATA COLLECTED ALONG TWO PARALLEL LINES BY THE HELP OF GRAVITY, MAGNETIC AND SEISMOLOGICAL DATA</b>	106-TUE-P1700-0716
C. Kaya, M. EMİN CANDANSAYAR, Ü. Dikmen, N. Konak, A. R. Kılıç, S. Arslan, A. Güreler, U. Akin, Ö. Hacısalıhoğlu, S. Bostan, A. Adıgüzel, A. Ülçer, Y. K. Kadioğlu, H. Yılmaz, A. T. Başokur, H. Okay, E. Erdoğan, İ. Demirci, Ö. Özyıldırım	
<b>IMAGING THE ELECTRICAL RESISTIVITY STRUCTURE AT THE VICINITY OF DUZCE EARTHQUAKE, TURKEY</b>	106-TUE-P1700-0738
S. Bulent Tank, YASUO OGAWA, Yoshimori Honkura, M. Kemal Tuncer, Tulay Kaya	
<b>IMAGING OF A VAPOR RESERVOIR AT KUSATSU-SHIRANE VOLCANO, JAPAN, BY THREE-DIMENSIONAL MT INVERSION AND MICRO-EARTHQUAKES</b>	106-TUE-P1700-0782
Nurhasan, YASUO OGAWA, S. Bulent Tank, Naoto Ujihara, Yoshimori Honkura, Teruo Yamawaki	
<b>TIME LAPSE MAGNETOTELLURICS : APPLICATION TO VOLCANOLOGICAL DATA</b>	106-TUE-P1700-0794
WAWRZYNIAK PIERRE, Sailhac Pascal, Guy Marquis, Zlotnicki Jacques, Fernando di Santo	
<b>IMAGING OF HYDROTHERMAL SYSTEM IN KUSATSU-SHIRANE VOLCANO, JAPAN, USING THREE DIMENSIONAL MAGNETOTELLURIC INVERSION</b>	106-TUE-P1700-0897
NURHASAN, Y. Ogawa, N. Ujihara, S. B. Tank, Y. Honkura, Teruo Yamawaki	
<b>UPPER CRUSTAL RESISTIVITY STRUCTURE AROUND EARTHQUAKE SWARM DEDUCED FROM DENSE AMT/MT OBSERVATIONS</b>	106-TUE-P1700-0979
RYOKEY YOSHIMURA, Naoto Oshiman, Takafumi Kasaya, Yoshihisa Iio, Tsutomu Miura, Kazuhiro Nishimura, Tomoya Yamazaki, Kentaro Omura	
<b>DEEP STRUCTURE OVER THE EASTERN SYNTAXIS OF THE HIMALAYA</b>	106-TUE-P1700-1027
SANJAY GOKARN	
<b>DEEP CRUSTAL ELECTRICAL CONDUCTIVITY BENEATH NARMADA - SON - LINEAMENT ZONE AND ITS TECTONIC IMPLICATIONS</b>	106-TUE-P1700-1047
K. NAGANJANEYULU, G. Dhanunjay Naidu, M. Someswara Rao, D. N. Murthy, K. Veeraswamy and T. Harinarayana	
<b>NUMERICAL TOOLS FOR THE ISOLATION OF EARTHQUAKE PRECURSORS IN ELECTRICAL / ELECTROMAGNETIC TIME SERIES</b>	106-TUE-P1700-1093
BALDEV R. ARORA and Gautam Rawat	



<b>THREE-DIMENSIONAL RESISTIVITY STRUCTURE IN TARUMAI VOLCANIC AREA INCLUDING THE EFFECTS OF REGIONAL STRUCTURE AND TOPOGRAPHY</b>	106-TUE-P1700-1145
<i>YUSUKE YAMAYA, Toru Mogi, Takeshi Hashimoto</i>	
<b>MT TOPOIBERIA: DEEP STRUCTURE OF A TRANSECT ACROSS THE WESTERN BETIC CORDILLERA (SOUTHERN SPAIN)</b>	106-TUE-P1700-1174
<i>ANA RUIZ-CONSTÁN, Jesús Galindo-Zaldívar, Antonio Pedrera, Farida Anahnah, Jorge A. Arzate, Jaume Pous, Eva Asensio, Carlos Marin-Lechado, Wiebke Heise, Fernando Monteiro-Santos</i>	
<b>CRUSTAL STRUCTURE OF THE WESTERN TRANSECT OF THE RIF CORDILLERA FROM BROADBAND MAGNETOTELLURIC DATA</b>	106-TUE-P1700-1190
<i>FARIDA ANAHNAH, Jesús Galindo-Zaldívar, Ana Ruiz-Constán, Antonio Pedrera, Patricia Ruano, Jaume Pous, Ahmed Chalouan, Mohammed Benmakhlouf, Pedro Ibarra, Eva Asensio, M'fedal Ahmamou</i>	
<b>TWO DIMENSIONAL MODELING OF ELECTRICAL CONDUCTIVITY OF KELUD VOLCANO, INDONESIA USING MAGNETOTELLURIC DATA AFTER 2007 ERUPTION</b>	106-TUE-P1700-1225
<i>NURHASAN, D. Sutarno, U. Fauzi, W. Srigutomo, E. J. Mustopa, Y. Ogawa</i>	
<b>MT SOUNDINGS IN SOUTH SHETLAND ISLANDS AND ANTARCTIC PENINSULA (ANTARCTICA): CONSTRAINTS TO THE CRUSTAL STRUCTURE OF THE BRANSFIELD STRAIT CONJUGATED CONTINENTAL MARGINS</b>	106-TUE-P1700-1233
<i>JESUS GALINDO-ZALDIVAR, Antonio Pedrera, Ana Ruiz-Constán, Nemesio Heredia</i>	
<b>RECOGNITION OF ELEMENTS OF PETROLEUM SYSTEM IN THE EASTERN PART OF POLISH CARPATHIANS USING MAGNETOTELLURICS</b>	106-TUE-P1700-1256
<i>MICHAL STEFANIUK</i>	
<b>SELF POTENTIAL CHANGES AT AKITA-YAKEYAMA VOLCANO IN 20 YEARS</b>	106-TUE-P1700-1272
<i>SHIN'YA SAKANAKA, Yuna Tanaka, Tadashi Nishitani</i>	
<b>REGIONAL GEOMAGNETIC FIELD VARIATIONS AND SEISMIC ACTIVITY OF THE NORTHERN TIEN SHAN</b>	106-TUE-P1700-1279
<i>VICTOR NOVIKOV, Ekaterina Vorontsova, Vitaly Bragin, Nelya Sycheva</i>	
<b>TRIGGERING IMPACT OF GEOMAGNETIC FIELD VARIATIONS ON EARTHQUAKE OCCURRENCE CONSIDERING THE EARTHQUAKE SOURCE MECHANISMS</b>	106-TUE-P1700-1282
<i>Victor Novikov, Ekaterina Vorontsova, ELENA NOVIKOVA, Vitaly Bragin, Nelya Sycheva</i>	
<b>DETECTION OF TECTONIC ACTIVITIES ASSOCIATED WITH EARTHQUAKES BY SATELLITE-BORNE MICROWAVE RADIOMETER</b>	106-TUE-P1700-1319
<i>TAKASHI MAEDA, Tadashi Takano</i>	

### ***1.07 EM modelling and inversion***

*In memory of Peter Weidelt (1938-2009)*

Oral: WED26 13:30-15:00, 15:30-17:00 Auditorium Bourdon

Poster: WED26 17:00-19:00 Aula

13:30	<b>2-D CSAMT FORWARD RESEARCH</b> <i>XIANGYUN HU, Guiju Wu Qiang Gong</i>	107-WED-O1330-0314
13:45	<b>NUMERICAL MODELLING OF CSAMT SOURCE EFFECTS FOR ELONGATED CONDUCTIVITY STRUCTURES</b> <i>GÁBOR PETHŐ</i>	107-WED-O1345-0452
14:00	<b>THE MARINE CSEM RESPONSE OF A RESISTIVE SHEET: STRAIGHTFORWARD BUT NOT TRIVIAL</b> <i>ANDREI SWIDINSKY, Nigel Edwards</i>	107-WED-O1400-0440
14:15	<b>A 3-D MODEL STUDY FOR MARINE EM USING VECTOR FINITE ELEMENTS</b> <i>Christoph Schwarzbach, Ralph-Uwe Börner, KLAUS SPITZER</i>	107-WED-O1415-0648
14:30	<b>MODELING THE EARTH-IONOSPHERE CAVITY USING FDTD</b> <i>ERNST D. SCHMITTER</i>	107-WED-O1430-0003
14:45	<b>THE ADJOINT SENSITIVITY METHOD OF GLOBAL ELECTROMAGNETIC INDUCTION FOR CHAMP MAGNETIC DATA</b> <i>ZDENEK MARTINEC, Jakub Velimsky</i>	107-WED-O1445-0795
15:30	<b>GENERAL FORMALISM FOR THE EFFICIENT CALCULATING THE DERIVATIVES OF EM FREQUENCY-DOMAIN RESPONSES AND THE DERIVATIVES OF THE MISFIT</b> <i>OLEG PANKRATOV, Alexey Kuvshinov</i>	107-WED-O1530-0096
15:45	<b>ON THE STRUCTURE ELECTROMAGNETIC INVERSE PROBLEM</b> <i>PETER MARTYSHKO, Alexey Roublev</i>	107-WED-O1545-0672
16:00	<b>PARAMETERIZATION AND UNCERTAINTY ESTIMATION IN LINEARIZED AND NONLINEAR BAYESIAN MAGNETOTELLURIC INVERSION</b> <i>RONGWEN GUO, Stan E. Dosso, Jianxin Liu, Jan Dettmer, Xiaozhong Tong</i>	107-WED-O1600-0171
16:15	<b>INVERTING MT 3D DATA USING LOCAL COORDINATES AND TAKING DISTORTION PARAMETERS INTO ACCOUNT: PROGRESS AND PRELIMINARY RESULTS</b> <i>Marion P. Miensopust, Colin G. Farquharson, ALAN G. JONES</i>	107-WED-O1615-1300
16:30	<b>SALT DOME OVERHANG DETECTABILITY STUDY FOR MARINE MAGNETOTELLURIC METHOD</b> <i>ANNA AVDEEVA, Romina Gehrman, Marion Jegen</i>	107-WED-O1630-0868
16:45	<b>AN INTEGRATED APPROACH IN GEOPHYSICAL MODELLING USING SEISMIC TRAVEL TIME, MAGNETOTELLURIC AND POTENTIAL FIELD DATA - EXAMPLE FROM THE MILLUNGERA BASIN, NORTH QUEENSLAND, AUSTRALIA</b> <i>INDRAJIT ROY</i>	107-WED-O1645-0656

**Poster Session (17:00-19:00)**

<b>ALGEBRAIC MULTIGRID METHOD FOR 3D DC RESISTIVITY MODELING</b>	107-WED-P1700-0135
<i>JINGJIN LU, Xiaoping Wu, Klaus Spitzer</i>	
<b>GLOBAL OPTIMIZATION FOR THE INTERPRETATION OF MAGNETOTELLURIC SOUNDING DATA USING POLYNOMIAL APPROXIMATION AND ESTIMATION OF STATIC SHIFT</b>	107-WED-P1700-0225
<i>Shashi Prakash SHARMA and Marta KIS</i>	
<b>THREE-DIMENSIONAL CONJUGATE GRADIENTS INVERSION OF MAGNETOTELLURIC IMPEDANCE TENSOR</b>	107-WED-P1700-0520
<i>CHANGHONG LIN, Handong Tan, Tuo Tong</i>	
<b>A REALISTIC 3-D RESISTIVITY MODEL EXPLAINING ANOMALOUS LARGE MAGNETOTELLURIC PHASES</b>	107-WED-P1700-0596
<i>HIROSHI ICHIHARA, Toru Mogi</i>	
<b>PROCESSING OF MAGNETOTELLURIC DATA - A COMPARATIVE STUDY WITH 4 AND 6 ELEMENT IMPEDENCE TENSOR ELEMENTS</b>	107-WED-P1700-0611
<i>MOTHE SHIREESHA and T. Harinarayana</i>	
<b>3D MODELLING OF RANDOMLY DISTRIBUTED MEDIA TO INVESTIGATE EM RESPONSE OF RESISTIVE HETEROGENEOUS TARGETS</b>	107-WED-P1700-0638
<i>REZA A. MIR, R. Nigel Edwards</i>	
<b>MODIFICATIONS ON WSINV3DMT TO APPLY SEAFLOOR MT DATA</b>	107-WED-P1700-0694
<i>NORIKO TADA, Kiyoshi Baba, Weerachai Siripunvaraporn, Makoto Uyeshima, Hisashi Utada</i>	
<b>JOINT 2D MT/MV INVERSION IN HIGH MOUNTAINES: IMITATION STUDIES</b>	107-WED-P1700-0902
<i>ELENA SOKOLOVA, Ivan Varentsov, Natalia Baglaenko, Nina Golubtsova, Pavel Ivanov, Pavel Pushkarev, NARYN WG</i>	
<b>COMBINED NLCG /SBI MAGNETOTELLURIC DATA INVERSION FOR RECOGNITION OF COMPLEX GEOLOGICAL STRUCTURES</b>	107-WED-P1700-1263
<i>MICHAL STEFANIUK</i>	
<b>POSSIBILITY OF THREE-DIMENSIONAL MAGNETOTELLURIC (MT) INVERSION BY USING MT PHASE TENSOR DATA</b>	107-WED-P1700-1278
<i>TAKAO KOYAMA</i>	
<b>BASIC FEATURES AND NOISE SENSITIVITY OF MAGNETOTELLURIC INVARIANT IMAGES</b>	107-WED-P1700-1326
<i>ATTILA NOVÁK, Antal Ádám, László Szarka</i>	

## ***I.11 Developments in magnetic anisotropy***

Oral: TUE25 08:30-10:00, 10:30-12:00 Auditorium Bourdon

Poster: TUE25 17:00-19:00 Aula

- |       |   |                    |
|-------|---|--------------------|
| 08:30 | <b>ANISOTROPY OF MAGNETIC SUSCEPTIBILITY IN VARIABLE LOW-<br/>I FIELDS: A REVIEW</b><br><i>FRANTIŠEK HROUDA</i>   | 111-TUE-O0830-0669 |
| 09:00 | <b>RELIABILITY OF AMS IN A PARAMAGNETIC GRANITE,<br/>COMPARISON WITH IMAGE ANALYSES, QUARTZ CPO AND LT-<br/>AMS (MARIMANHA, PYRENEES)</b><br><i>BELÉN OLIVA-URCIA, Antonio M. Casas, Teresa Román-Berdiel and Elisabetta Mariani</i>        | 111-TUE-O0900-0120 |
| 09:15 | <b>MAGNETIC ANISOTROPY OF TERTIARY GRANITOIDS FROM THE<br/>VARDAR ZONE (KOPAONIK AREA, SERBIA)</b><br><i>VESNA LESIĆ, Emő Márton, Vesna Cvetkov, Dragana Tomić</i>  | 111-TUE-O0915-0112 |
| 09:30 | <b>THE RELATIONSHIP BETWEEN CHEMISTRY, TEXTURE AND<br/>ANISOTROPY OF MAGNETIC SUSCEPTIBILITY FOR A SET OF<br/>CALCITE MYLONITES</b><br><i>BJARNE S. G. ALMQVIST, Marco Herwegh, Volkmar Schmidt, Thomas Pettke, Ann M. Hirt</i>             | 111-TUE-O0930-0675 |
| 09:45 | <b>Discussion</b>   |                    |
| 10:30 | <b>RT-AMS AND LT-AMS OF APTIAN BLACK MARLS IN THE<br/>NORTHPYRENEAN BASIN, FRANCE. REINFORCEMENT OF THE<br/>EXTENSIONAL FABRIC DURING COMPRESSION?</b><br><i>BELÉN OLIVA-URCIA, Teresa Román-Berdiel, Antonio M. Casas, Emilio L. Pueyo</i> | 111-TUE-O1030-0047 |
| 10:45 | <b>VERTICAL VARIATION OF AMS ALONG SELECTED BASALT FLOW<br/>PROFILES, XITLÉ VOLCANO, MEXICO: ZONE-LAYER RECOGNITION<br/>BY MAGNETIC FABRIC</b><br><i>CECILIA I. CABALLERO-MIRANDA, Luis M. Alva-Valdivia, J. Antonio González-R.</i>        | 111-TUE-P1045-0936 |
| 10:50 | <b>USES OF ANISOTROPY OF MAGNETIC SUSCEPTIBILITY IN THE<br/>STUDY OF EMPLACEMENT PROCESSES OF LAVA FLOWS AND<br/>DYKES</b><br><i>EDGARDO CAÑÓN-TAPIA</i>  | 111-TUE-P1050-0874 |
| 10:55 | <b>MAGNETIC ANISOTROPY OF THE ZONE OF TERTIARY<br/>GRANITOIDS AT THE SOUTHERN MARGIN OF THE PANNONIAN<br/>BASIN (SERBIA)</b><br><i>VESNA CVETKOV, Emő Márton, Vesna Lesić, Dragana Tomić</i>  | 111-TUE-P1055-0564 |
| 11:00 | <b>MINERAL TEXTURAL STUDY BY AMS AND ITS APPLICATION ON<br/>TRACK OF PALEO-CIRCULATION IN DOLOMITIZED FORMATION</b><br><i>MOURAD ESSALHI, Stanislas Sizaret, Luc Barbanson And Yan Chen</i>   | 111-TUE-P1100-1353 |
| 11:05 | <b>ANISOTROPY OF MAGNETIC SUSCEPTIBILITY OF TRIASSIC RED<br/>BEDS FROM THE CONRARIA FORMATION, CENTRAL PORTUGAL</b><br><i>Armando L. Gomes, HELENA SANT'OVAIA, Armando L. Rocha</i>   | 111-TUE-P1105-1250 |
| 11:10 | <b>AMS LINEATIONS AND THE ORIENTATION OF STRESS AXES<br/>DURING EARLY AND MIDDLE MIOCENE IN THE<br/>TRANSDANUBIAN RANGE, HUNGARY</b><br><i>MIHÁLY PETHE, Emő Márton, Péter Márton</i>   | 111-TUE-P1110-0867 |
| 11:15 | <b>MAGNETIC FABRICS AND ROCK-MAGNETISM STUDIES OF<br/>EARLY-LATE CRETACEOUS MAFIC DIKE SWARMS FROM<br/>UBATUBA (SAO PAULO STATE, BRAZIL): PRELIMINARY RESULTS</b><br><i>M. IRENE B. RAPOSO, Igor J. S. Mello and Thelma S. Berquó</i>       | 111-TUE-P1115-0743 |
| 11:20 | <b>AMS FABRICS AND FLUID INCUSION PLANES RELATIONS IN<br/>GRANITES FROM NORTHERN PORTUGAL: PRELIMINARY INSIGHT</b><br><i>HELENA SANT'OVAIA, Armanda Dória</i>   | 111-TUE-P1120-1165 |

- 11:25 **MAGNETIC AND AMS PROPERTIES OF THE SEDIMENTARY COVER IN THRUST UNITS COMPARED WITH TECTONIC STRAIN: THE NICE AND CASTELLANE ARCS, SE FRANCE** 111-TUE-P1125-0477  
*LIONEL SONNETTE, Jacques Angelier, Jean-François Stéphan, Pierre Rochette, Jérôme Gattacceca, Teh-Quei Lee, Romain Plateaux, Jean-Baptiste Dussaux*
- 11:30 **LOCAL SCALE DEFORMATION FOR DEVONIAN CARBONATES OF MORAVO-SILESIAN ZONE (CZECH REPUBLIC) DERIVED FROM MAGNETIC FABRICS** 111-TUE-P1130-0773  
*TOMASZ WERNER, Jacek Grabowski, Petr Pruner, Petr Schnabl, Jindrich Hladil, Rostislav Melichar*

**Poster Session (17:00-19:00)**

- VERTICAL VARIATION OF AMS ALONG SELECTED BASALT FLOW PROFILES, XITL VOLCANO, MEXICO: ZONE-LAYER RECOGNITION BY MAGNETIC FABRIC** 111-TUE-P1045-0936  
 CECILIA I. CABALLERO-MIRANDA, Luis M. Alva-Valdivia, J. Antonio González-R.
- USES OF ANISOTROPY OF MAGNETIC SUSCEPTIBILITY IN THE STUDY OF EMPLACEMENT PROCESSES OF LAVA FLOWS AND DYKES** 111-TUE-P1050-0874  
 EDGARDO CAÑÓN-TAPIA
- MAGNETIC ANISOTROPY OF THE ZONE OF TERTIARY GRANITOIDS AT THE SOUTHERN MARGIN OF THE PANNONIAN BASIN (SERBIA)** 111-TUE-P1055-0564  
 VESNA CVETKOV, Emő Márton, Vesna Lesić, Dragana Tomić
- MINERAL TEXTURAL STUDY BY AMS AND ITS APPLICATION ON TRACK OF PALEO-CIRCULATION IN DOLOMITIZED FORMATION** 111-TUE-P1100-1353  
 Mourad ESSALHI, Stanislas SIZARET, Luc BARBANSON and Yan CHEN
- ANISOTROPY OF MAGNETIC SUSCEPTIBILITY OF TRIASSIC RED BEDS FROM THE CONRARIA FORMATION, CENTRAL PORTUGAL** 111-TUE-P1105-1250  
 Armando L. Gomes, HELENA SANT'OVAIA, Armando L. Rocha
- AMS LINEATIONS AND THE ORIENTATION OF STRESS AXES DURING EARLY AND MIDDLE MIOCENE IN THE TRANSDANUBIAN RANGE, HUNGARY** 111-TUE-P1110-0867  
 MIHÁLY PETHE, Emő Márton, Péter Márton
- MAGNETIC FABRICS AND ROCK-MAGNETISM STUDIES OF EARLY-LATE CRETACEOUS MAFIC DIKE SWARMS FROM UBATUBA (SAO PAULO STATE, BRAZIL): PRELIMINARY RESULTS** 111-TUE-P1115-0743  
 M. Irene B. Raposo, Igor J. S. Mello and Thelma S. Berquó
- AMS FABRICS AND FLUID INCUSION PLANES RELATIONS IN GRANITES FROM NORTHERN PORTUGAL: PRELIMINARY INSIGHT** 111-TUE-P1120-1165  
 HELENA SANT'OVAIA, Armanda Dória
- MAGNETIC AND AMS PROPERTIES OF THE SEDIMENTARY COVER IN THRUST UNITS COMPARED WITH TECTONIC STRAIN: THE NICE AND CASTELLANE ARCS, SE FRANCE** 111-TUE-P1125-0477  
 LIONEL SONNETTE, Jacques Angelier, Jean-François Stéphan, Pierre Rochette, Jérôme Gattacceca, Teh-Quei Lee, Romain Plateaux, Jean-Baptiste Dussaux
- LOCAL SCALE DEFORMATION FOR DEVONIAN CARBONATES OF MORAVO-SILESIA ZONE (CZECH REPUBLIC) DERIVED FROM MAGNETIC FABRICS** 111-TUE-P1130-0773  
 TOMASZ WERNER, Jacek Grabowski, Petr Pruner, Petr Schnabl, Jindrich Hladil, Rostislav Melichar
- MAGNETIC ANISOTROPY, ROCK MAGNETIC AND PALEOMAGNETIC STUDIES OF DIKES EMPLACED IN THE WAIANAE, OAHU, HAWAII, USA** 111-TUE-P1700 -0963  
 EMILIO HERRERO-BERVERA, Bernard Henry

***I.12 Palaeointensity and archaeointensity – results and their implications, methodological advances, and open issues***

Oral: SAT29 08:30-10:00, 10:30-12:00 Auditorium Green

Poster: SAT29 13:30-15:00 Aula

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|-------|---|--------------------|
| 08:30 | <b>HIGH TEMPERATURE OXIDATION OF TITANOMAGNETITE GRAINS AND ITS POSSIBLE INFLUENCE TO THELLIER PALEOINTENSITY DETERMINATIONS</b><br><i>YUHI YAMAMOTO</i>  | 112-SAT-O0830-0033 |
| 09:00 | <b>A GUIDE TO MULTIPLE-SPECIMEN PALEOINTENSITY</b><br><i>KARL FABIAN, Roman Leonhardt</i>   | 112-SAT-O0900-1042 |
| 09:15 | <b>TOWARDS A RELIABILITY CHECK FOR THE MULTI-SPECIMEN DIFFERENTIAL PTRM PALEO-INTENSITY METHOD</b><br><i>LENNART V. DE GROOT, Mark Dekkers, Tom A.T. Mullender</i>  | 112-SAT-O0915-1082 |
| 09:30 | <b>PALEOINTENSITY EXPERIMENTS ON THE HAWAII 1960 LAVA FLOW</b><br><i>HARALD BÖHNEL</i>  | 112-SAT-O0930-1170 |
| 09:45 | <b>DETERMINING THE STRENGTH OF THE GEOMAGNETIC FIELD DURING THE CRETACEOUS NORMAL SUPERCHRON</b><br><i>MIMI HILL, Ceri Davies, John Shaw</i>  | 112-SAT-O0945-0722 |
| 10:30 | <b>PALAEOMAGNETIC SECULAR VARIATION AND RELATIVE FIELD INTENSITY IN PLEISTOCENE LACUSTRINE SEDIMENTS IN THE U.S. GREAT BASIN AS CHRONOLOGIC TOOLS FOR DATING CLIMATE IN WESTERN NORTH AMERICA</b><br><i>JOSEPH C. LIDDICOAT</i> | 112-SAT-O1030-0952 |
| 11:00 | <b>NEW ARCHAEOINTENSITY DATA FROM ITALIAN ARCHAEOLOGICAL SITES</b><br><i>EVDOKIA TEMA, Avto Gogutchachvili, Pierre Camps</i>  | 112-SAT-O1100-0387 |
| 11:15 | <b>NEW ARCHAEO-MAGNETIC MEASUREMENTS AND THE GEOMAGNETIC FIELD STRENGTH DURING THE 18TH CENTURY</b><br><i>NEIL SUTTIE, John Shaw, Mimi Hill, Richard Holme, Paul Linford</i>  | 112-SAT-O1115-0730 |
| 11:30 | <b>NEW ARCHEOINTENSITY DATA FROM WESTERN EUROPE AND THE MIDDLE EAST: COMPARING REGIONAL GEOMAGNETIC FIELD INTENSITY VARIATION CURVES SPANNING THE PAST TWO MILLENNIA</b><br><i>AGNES GENEVEY, Yves Gallet, Maxime Le Goff</i>   | 112-SAT-O1130-1063 |

**Poster Session (13:30-15:00)**

- 13:30 **ABSOLUTE PALEOINTENSITY FROM CA. 5 MA JINCHONRI BASALT IN BAEKRYEONGDO ISLAND, THE FURTHEST NORTH PART OF SOUTH KOREA** 112-SAT-P1330-0026  
*YUHI YAMAMOTO, Youn Soo Lee, Kazuto Kodama*
- NEW PALEOMAGNETIC AND PALEOINTENSITY RESULTS FROM LATE PLIOCENE VOLCANIC SEQUENCES FROM SOUTHERN GEORGIA (CAUCASUS)** 112-SAT-P1330-0531  
*Manuel Calvo-Rathert, María-Felicidad Bógalo, ÁNGEL CARRANCHO, Avto Goguichaichvili, Néstor Vegas-Tubía, Jemal Sologashvili, Juan José Villalain*
- PALAEOINTENSITY DETERMINATIONS OF CRETACEOUS ROCKS FROM WESTERN ANTARCTICA** 112-SAT-P1330-0664  
*VALERIY P. SHCHERBAKOV, V. V. Shcherbakova, V. G. Bakhmutov, G. V. Zhidkov*
- WHY ARE THE RESULTS OF MICROWAVE AND THERMAL PALEOINTENSITY EXPERIMENTS SYSTEMATICALLY DIFFERENT?** 112-SAT-P1330-0671  
*ANDREW BIGGIN*
- DIRECT DEMONSTRATION OF MICROWAVE DEMAGNETIZATION OF A WHOLE ROCK SAMPLE WITH MINIMAL HEATING** 112-SAT-P1330-0731  
*NEIL SUTTIE, John Shaw, Mimi Hill*
- PALEOINTENSITY RESULTS FROM THE 1.7 GA OLD HOTING GABBRO, SWEDEN** 112-SAT-P1330-0742  
*FABIO DONADINI, Sten-Åke Elming, and Lisa Tauxe*
- COMPARING THELLIER-THELLIER PALAEOINTENSITY RESULTS WITH A TECHNIQUE BASED ON THE LINEAR FIELD DEPENDENCE OF PARTIAL THERMOREMANENCE** 112-SAT-P1330-1347  
*SIMO SPASSOV, Jozef Hus, Raoul Geeraerts*



***I.13 Paleomagnetic, geomagnetic and rock-magnetic procedures: field tests, instrumentation, statistics***

Oral: MON24 13:30-15:00, 15:30-17:00 Auditorium Bourdon

- 13:30 **REMA6W - MS WINDOWS SOFTWARE FOR CONTROLLING JR-6 SPINNER MAGNETOMETERS** 113-MON-O1330-0832  
*MARTIN CHADIMA, Jiří Pokorný, Miroslav Dušek*
- 14:00 **AUTOMATING THE 2G MAGNETOMETER FOR SINGLE-SOLENOID ALTERNATING FIELD DEMAGNETIZATION** 113-MON-O1400-0751  
*Eli Morris, Walter Schillinger, ROBERT COE, Christopher Pluhar, Nicholas Jarboe*
- 14:30 **END-MEMBER MODELING OF ISOTHERMAL REMANENT I MAGNETIZATION (IRM) ACQUISITION CURVES: A NOVEL APPROACH TO DIAGNOSE REMAGNETIZATION** 113-MON-O1430-0821  
*Zhihong Gong, MARK J. DEKKERS, David Heslop, Tom A. T. Mullender*
- 15:30 **PUZZLING ASPECTS OF DEEP-SEA SEDIMENTS MAGNETISATION I FROM LABORATORY REDEPOSITION EXPERIMENTS** 113-MON-O1530-1101  
*SIMO SPASSOV, Jean-Pierre Valet, Maxime LeGoff*

### ***I.14 Geo- and paleo-magnetic data constraints on geodynamo models***

Oral: FRI28 08:30-10:00, 10:30-12:00 Auditorium Bourdon

Poster: FRI28 17:00-19:00 Aula

08:30	<b>IMPROVING THE ACCURACY AND INTERPRETATION OF PALAEOINTENSITY AND GEOCHRONOLOGY DATA FROM VOLCANIC ROCKS</b> <i>MAXWELL CHRISTOPHER BROWN</i>	114-FRI-O0830-0922
09:00	<b>MILLENNIAL-SCALE CHARACTERISTICS OF THE GEOMAGNETIC FIELD</b> <i>MONIKA KORTE, Catherine Constable and Fabio Donadini</i>	114-FRI-O0900-0986
09:15	<b>EVOLUTON OF THE SOUTH ATLANTIC MAGNETIC ANOMALY OVER 0-3KA</b> <i>CATHERINE CONSTABLE, Monika Korte and Fabio Donadini</i>	114-FRI-O0915-0988
09:30	<b>BEAM-R1: A BAYESIAN EUROPEAN ARCHEOMAGNETIC MODEL FOR THE PAST 2000 YEARS</b> <i>ERWAN THEBAULT, Javier Pavón -Carrasco and Yves Gallet</i>	114-FRI-O0930-1161
09:45	<b>GEOMAGNETIC FIELD HEMISPHERIC ASYMMETRY AND ARCHEOMAGNETIC JERKS</b> <i>Yves Gallet, GAUTHIER HULOT, Arnaud Chulliat, Agnès Genevey</i>	114-FRI-O0945-0873
10:30	<b>MODELLING THE PALEO-EVOLUTION OF THE GEODYNAMO</b> <i>JULIEN AUBERT</i>	114-FRI-O1030-1073
11:00	<b>EDIACARAN PERSPECTIVE ON THE GEOMAGNETIC FIELD AND EVOLUTION OF THE CORE</b> <i>ALEXANDRA ABRAJEVITCH, Rob Van der Voo</i>	114-FRI-O1100-0660
11:15	<b>MAGNETIC SOURCE SEPARATION IN THE OUTER CORE: INTRODUCING THE SCOR-FIELD</b> <i>KENNETH HOFFMAN, Brad Singer</i>	114-FRI-O1115-0935
11:30	<b>STRONG MAGNETIC FLUX SPOTS AND THE CORE FLOW NEAR THE CORE-MANTLE BOUNDARY</b> <i>WEIJIA KUANG, Zigang Wei, Andrew Tangborn</i>	114-FRI-O1130-1117
11:45	<b>SIMULATED GEOMAGNETIC REVERSALS: HOW REALISTIC ARE THEY?</b> <i>JOHANNES WICHT, Art Jonkers</i>	114-FRI-O1145-1000

**Poster Session (17:00-19:00)**

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| <b>GEOMAGNETIC REVERSALS, TECTONICS AND THE CORE<br/>MANTLE BOUNDARY TOPOGRAPHY</b>   | 114-FRI-P1700-0336 |
| <i>BRENO R.F. SILVA, Igor I. G. Pacca</i>   |                    |
| <b>ELEMENTS OF THE NORMAL GEOMAGNETIC FIELD ON THE<br/>TERRITORY OF THE REPUBLIC OF MACEDONIA</b>   | 114-FRI-P1700-0378 |
| <i>MARJAN DELIPERTEV, Todor Delipetrov, Blagica Doneva</i>  |                    |
| <b>QUANTIFYING PALEOSECULAR VARIATION DURING THE<br/>CRETACEOUS NORMAL SUPERCHRON</b>   | 114-FRI-P1700-0764 |
| <i>JULIA LINDER, Stuart A. Gilder</i>   |                    |
| <b>THE AXIAL DIPOLE AND FLOW AT THE CORE SURFACE</b>  | 114-FRI-P1700-1152 |
| <i>KATHRYN WHALER, Christian Lynch</i>  |                    |
| <b>STRONG EVIDENCE FOR GROUPING OF TRANSITIONAL POINTS<br/>IN THE CRETACEOUS VGP TRAJECTORIES REVEALED BY WAVE<br/>COHERENCE</b>  | 114-FRI-P1700-1176 |
| <i>GEORGE CAMINHA-MACIEL FILHO, Marcia Ernesto</i>  |                    |
| <b>A EUROPEAN GEOMAGNETIC FIELD MODEL FROM 6000 BC TO 1000<br/>BC</b>   | 114-FRI-P1700-1198 |
| <i>F. J. PAVÓN-CARRASCO, M. L. Osete, and J. M. Torta</i>   |                    |
| <b>NEW ARCHAEO-MAGNETIC DATA FROM MID-HOLOCENE BURNT<br/>CAVE SEDIMENTS AT NORTHERN IBERIA</b>  | 114-FRI-P1700-1201 |
| <i>ÁNGEL CARRANCHO, Juan José Villalain, Francisco Javier Pavón, Diego E.<br/>Angelucci, José M. Carretero, Manuel R. González-Morales, Ana Isabel Ortega,<br/>Lawrence G. Straus, Josep María Vergès</i> |                    |

### ***I.15 Rock magnetism: theory, experiments and observations***

Oral: WED26 10:30-12:00, 13:30-15:00, 15:30-17:00 Auditorium Green

Poster: WED26 17:00-19:00 Aula

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| 10:30 | <b>ON THE PHYSICS OF ACQUISITION OF DRM</b><br><i>VALERIY P. SHCHERBAKOV</i>  | 115-WED-O1030-0074 |
| 11:00 | <b>ROCK-MAGNETIC PARAMETERS OF SEDIMENT FRACTIONS OBTAINED FROM GRAVITY CORES DRILLED OFF NW AFRICA</b><br><i>SEBASTIAN RAZIK, Cletus Itambi, Tilo von Dobeneck, Mark Dekkers</i>   | 115-WED-O1100-0418 |
| 11:15 | <b>HALL PROBE SCANNER FOR ANALYSIS OF MAGNETIZATION OF POLISHED SECTIONS</b><br><i>GUNTHER KLETETSCHKA, Allen Lunsford, Lisa Petrochilos, and Mike Fuller</i>   | 115-WED-O1115-0592 |
| 11:30 | <b>WHAT WE KNOW ABOUT MAGNETIC AND OTHER PHYSICAL BULK PROPERTIES AT CURIE DEPTH?</b><br><i>JÁNOS KISS, László Szarka, Ernő Prácser, Antal Ádám</i>   | 115-WED-O1130-0645 |
| 11:45 | <b>LOCALIZATION OF PLASTIC DEFORMATIONS AT DIFFERENT HIERARCHY LEVELS AND THEIR CONNECTION WITH MAGNETIC PARAMETERS VARIATIONS OF THE KONDER MASSIF PLATINUM-BEARING DUNITES</b><br><i>PETER MARTYSHKO, Valentin Pyankov</i>                    | 115-WED-O1145-0670 |
| 13:30 | <b>DOMAIN STATE RELATED BIAS IN ABSOLUTE PALEOINTENSITY DETERMINATION</b><br><i>ROMAN LEONHARDT, Annika Ferk, Karl Fabian, Felix W. von Aulock, Kai-Uwe Hess, Donald B. Dingwell</i>  | 115-WED-O1330-0904 |
| 14:00 | <b>RE-VISITING THE COOLING RATE DEPENDENCY OF THERMOREMANENCE ACQUISITION</b><br><i>ADRIAN MUXWORTHY</i>  | 115-WED-O1400-0705 |
| 14:15 | <b>ALTERATION OF OCEANIC BASALTS LEADING TO SELF-REVERSAL: A XMCD STUDY</b><br><i>CLAIRE CARVALLO, Philippe Saintavrit, Yohan Guyodo, Marie-Anne Arrio, Alevtina Smekhova, Andrei Rogalev, Fabrice Wilhelm, Bruce Moskowitz, France Lagroix</i> | 115-WED-O1415-0737 |
| 14:30 | <b>LOW-TEMPERATURE HYSTERESIS PROPERTIES OF HIGH-COERCIVITY TITANOMAGNETITE BEARING ROCKS</b><br><i>KOJI FUKUMA</i>   | 115-WED-O1430-0802 |
| 14:45 | <b>THE MAGNETIC SIGNATURE OF BASAL PLANE ANISOTROPY IN HEMATITE</b><br><i>KARL FABIAN, Peter Robinson, Suzanne A. McEnroe</i>   | 115-WED-O1445-1057 |
| 15:30 | <b>MAGNETIC CHARACTERIZATION OF NON-INTERACTING ULTRAFINE FERRIMAGNETIC NANOPARTICLES</b><br><i>Changqian Cao, YONGXIN PAN</i>  | 115-WED-O1530-1026 |
| 16:00 | <b>FORC DIAGRAMS AS A DIAGNOSTIC TOOL FOR EVALUATING NANOPARTICLE COATING</b><br><i>ANN M. HIRT and Alexandra Teleki</i>  | 115-WED-O1600-0848 |
| 16:15 | <b>EFFECT OF THERMAL FLUCTUATIONS ON HYSTERESIS OF CHAINS OF MAGNETITE CRYSTALS</b><br><i>ANDREW NEWELL</i>   | 115-WED-O1615-1270 |
| 16:30 | <b>EFFECT OF THERMAL FLUCTUATIONS ON FIRST-ORDER REVERSAL CURVES OF SINGLE-DOMAIN PARTICLES</b><br><i>ANDREW NEWELL</i>   | 115-WED-O1630-1277 |
| 16:45 | <b>Discussion</b>   |                    |

**Poster Session (17:00-19:00)**

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| <b>AN ORIGIN OF THE REVERSED REMANENT MAGNETIZATION OF ROCKS</b><br><i>OTO ORLICKÝ</i>  | 115-WED-P1700-0066 |
| <b>MAGNETIC SUSCEPTIBILITY EXPERIMENTAL STUDY OF THE ROCKS FROM NORTH-WESTERN PART OF DNIEPER-DONETS DEPRESSION</b><br><i>VIKTORIIA DRUKARENKO, Mykhailo Orliuk</i>   | 115-WED-P1700-0161 |
| <b>ON UPPER BOUNDS OF IN SITU PIEZOMAGNETIC STRESS SENSITIVITY IN THE EARTH'S CRUST - A CASE OF THE MW6.6 NOTO EARTHQUAKE 2007, JAPAN</b><br><i>KEN'ICHI YAMAZAKI, Makoto Uyeshima, Naoto Oshiman, Ryohei Yoshimura</i> | 115-WED-P1700-0954 |
| <b>ROCK MAGNETIC PROPERTIES OF A HOLOCENE LAMINATED SEQUENCE FROM THE GULF OF CALIFORNIA</b><br><i>JAIME URRUTIA FUCUGAUCHI</i>   | 115-WED-P1700-0741 |
| <b>HALL PROBE SCANNER FOR ANALYSIS OF MAGNETIZATION OF POLISHED SECTIONS</b><br><i>GUNTHER KLETETSCHKA, Allen Lunsford, Lisa Petrochilos, and Mike Fuller</i>   | 115-WED-O1115-0592 |

## ***I.16 Environmental magnetism and biomagnetism***

Oral: THU27 10:30-12:00, 13:30-15:00, 15:30-17:00 Auditorium Green

Poster: THU27 17:00-19:00 Aula

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| 10:30 | <b>PEDOGENIC IRON OXIDES IN SOILS: MAGNETIC CHARACTERIZATION AND LINK TO THE CLIMATE</b><br><i>RAMON EGLI</i>  | 116-THU-O1030-0784 |
| 11:00 | <b>ROCK MAGNETIC AND DRS CHARACTERISTICS OF LOESS-PALAEOSOL SEDIMENTS FROM BULGARIA AND THEIR LINK TO PALAEOENVIRONMENTAL CONDITIONS</b><br><i>DIANA JORDANOVA, Neli Jordanova and Tomas Grygar</i>  | 116-THU-O1100-0824 |
| 11:15 | <b>PALEOCLIMATIC STUDIES ON LAKE SEDIMENTS FROM BUENOS AIRES PROVINCE (ARGENTINA)</b><br><i>ANA M. SINITO, María A. Irurzun, Claudia S. G. Gogorza, Marcos A. E. Chaparro, Ana M. Navas, Aldo Prieto</i>   | 116-THU-O1115-0148 |
| 11:30 | <b>CHARACTERISTIC FINGERPRINTS OF THE LACUSTRINE SEDIMENTARY ENVIRONMENTS RETRIEVED FROM THE MAGNETIC SUSCEPTIBILITY RECORDS IN THE WETLANDS OF SOUTHEASTERN ROMANIA; GEOECOLOGICAL INFERENCES</b><br><i>SORIN-CORNELIU RĂDAN, Silviu Rădan</i>    | 116-THU-O1130-1035 |
| 11:45 | <b>THE APPLICATION OF MAGNETIC SUSCEPTIBILITY TO UNRAVELING SEDIMENTATION HISTORIES IN STREAM VALLEYS OF THE MID-ATLANTIC PIEDMONT, UNITED STATES</b><br><i>Robert C. Walter, Dorothy J. Merritts, ROB STERNBERG, Stacey Sosenko, Isaac Weaver</i> | 116-THU-O1145-1185 |
| 13:30 | <b>MAGNETIC CHARACTERISATION OF SOILS IN A HISTORICAL MINING DISTRICT</b><br><i>ROBERT SCHOLGER, Alexandra Lafner</i>  | 116-THU-O1330-0524 |
| 13:45 | <b>PRESENCE OF TECHNOGENIC MAGNETIC PARTICLES IN FOREST TOPSOIL IN THE VICINITY OF INDUSTRIAL AND URBAN AREAS</b><br><i>TADEUSZ MAGIERA, Mariola Jabłońska, Zygmunt Strzyszc</i>   | 116-THU-O1345-0820 |
| 14:00 | <b>ENVIRONMENTAL MAGNETISM OF SEDIMENTS FROM THE RED SEA: UNDERPINNING THE CHRONOLOGY OF SEA LEVEL CHANGE THROUGH MARINE ISOTOPE STAGE 3</b><br><i>ANDREW P. ROBERTS, Eelco J. Rohling and Katharine Grant</i>                                     | 116-THU-O1400-1268 |
| 14:30 | <b>MILLENNIAL-SCALE QUASI-PERIODICITIES RECORDED AT PERMO-CARBONIFEROUS RHYTHMITES (PARANÁ BASIN, BRAZIL): ARE "BOND CYCLES" A PERMANENT FEATURE THROUGHOUT THE PHANEROZOIC?</b><br><i>DANIEL FRANCO, Marcia Ernesto, Linda Hinnov</i>             | 116-THU-O1430-1223 |
| 14:45 | <b>APPLICATION OF MAGNETIC SUSCEPTIBILITY ON PALAEOZOIC SEDIMENTARY ROCKS</b><br><i>SIMO SPASSOV, Anne-Christine da Silva, Michael T. Whalen, Jindrich Hladil, Daizhao Chen, Frederic Boulvain, Xavier Devleeschouwer</i>                          | 116-THU-O1445-0999 |
| 15:30 | <b>GREIGITE LAYER FORMATION BY NON-STEADY STATE SEDIMENTATION - A CASE STUDY FROM THE GULF OF MEXICO (IODP HOLE U1319A)</b><br><i>TILO VON DOBENECK, Yanzhe Fu, Christine Franke</i>   | 116-THU-O1530-1355 |
| 16:00 | <b>THE MINERALOGY OF MAGNETOSOMES</b><br><i>MIHÁLY PÓSFAL, Ilona Nyíró-Kósa, Dorottya Csákerényi Nagy, Damien Faivre, Takeshi Kasama, Rafal Dunin-Borkowski</i>  | 116-THU-O1600-1242 |
| 16:30 | <b>A GEOMAGNETIC STORM DECREASES COHERENCE OF OSCILLATIONS OF ELECTRIC POTENTIALS OF A HUMAN BRAIN</b><br><i>OLEG NOVIK</i>  | 116-THU-O1630-0245 |

16:45 **MAGNETOSENSORY STRUCTURES IN THE BEAK OF BIRDS - THEORETICAL ANALYSIS** 116-THU-O1645-1315  
*VALERA SHCHERBAKOV, Michael Winklhofer*

**Poster Session (17:00-19:00)**

**MAGNETIC STUDIES APPLIED TO AN INVESTIGATION OF VEHICLE-DERIVED POLLUTION ON A ROAD FROM ARGENTINA** 116-THU-P1700-0147  
*ANA M. SINITO, Marcos A. E. Chaparro, Débora C. Marie, Claudia S. G. Gogorza, Ana M. Navas*

**MAGNETIC PHASES IN SEWAGE SLUDGE AND COMPOST** 116-THU-P1700-0525  
*ROBERT SCHOLGER, Elisabeth Gaisberger*

**THE RATIO OF GOETHITE VS. HEMATITE AS A PROXY FOR MOISTURE IN ANCIENT SOILS: A PILOT ROCK MAGNETIC STUDY OF NEOGENE PALEOSOLS IN PAKISTAN** 116-THU-P1700-0661  
*ALEXANDRA ABRAJEVITCH, Kazuto Kodama, Anna K. Behrensmeyer, Catherine Badgley*

**ROCK MAGNETIC PROPERTIES OF SOUTHERN MEXICO BEACH SANDS: IMPLICATIONS FOR HOMING AND NESTING OF MARINE BLACK TURTLES** 116-THU-P1700-0739  
*ALMA LILIA FUENTES-FARIAS, Jaime Urrutia-Fucugauchi, Gabriel Gutierrez-Ospina, Ligia Perez-Cruz and Victor Garduno-Monroy*

**MAGNETIC POLLUTANTS IN SETTLED DUST AND PM10 SAMPLES FROM MISKOLC, HUNGARY** 116-THU-P1700-0856  
*EMŐ MÁRTON, Norbert Zajzon, Péter Márton, János Uram*

**MAGNETO-LITHOLOGICAL MODELS FOR RECENT SEDIMENTS: EXAMPLES FROM DELTAIC, LAGOONAL AND LITTORAL LAKES** 116-THU-P1700-1041  
*SORIN-CORNELIU RADAN, Silviu Rădan, Camelia Cazacu, Consuela Milu*

**EMSEAC - ELECTROMAGNETIC SEAFLOOR PROFILER FOR ENVIRONMENTAL MAGNETIC RESEARCH IN COASTAL AND SHELF SEAS** 116-THU-P1700-1175  
*HENDRIK MÜLLER, Tilo von Dobeneck, Thomas Frederichs, Daniel Rey, Belén Rubio*

**THE MODELS OF EXPERIMENTAL MAGNETIC MEASUREMENTS OF VARIOUS BIOLOGICAL SAMPLES** 116-THU-P1700-1311  
*DUŠAN KOJIĆ, DAJANA TODOROVIĆ, Vlado Antić*

### ***I.17 Paleomagnetism and rock magnetism of anomaly source rocks***

Oral: FRI28 13:30-15:00, 15:30-17:00 Auditorium Green

Poster: FRI28 17:00-19:00 Aula

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|-------|--|--------------------|
| 13:30 | <b>PREDICTIVE MAGNETIC EXPLORATION MODELS FOR PORPHYRY COPPER AND IRON-OXIDE COPPER-GOLD DEPOSITS</b>  | 117-FRI-O1330-0400 |
| I     | DAVID CLARK  |                    |
| 14:00 | <b>CHICXULUB MULTIRING IMPACT CRATER: UNDERGROUND STRUCTURE AND MAGNETIC ANOMALY SOURCES</b>   | 117-FRI-O1400-1285 |
|       | JAIME URRUTIA FUCUGAUCHI, Mario Rebolledo Vieyra, Ligia Perez Cruz   |                    |
| 14:15 | <b>ROCK MAGNETIC CHARACTERIZATION THROUGH AN INTACT SEQUENCE OF OCEANIC CRUST, IODP HOLE 1256 D AND COMPARISON WITH DSDP HOLE 504</b>                                    | 117-FRI-O1415-0752 |
|       | EMILIO HERRERO-BERVERA, David Krasa, Gary Acton, Sedelia Rodriguez Durand, Mark Dekkers  |                    |
| 14:30 | <b>REMANENCES OF THE PAST</b>  | 117-FRI-O1430-1040 |
| I     | KARL FABIAN, Suzanne A. McEnroe, Peter Robinson  |                    |
| 15:30 | <b>IMPLICATIONS OF STRONG NATURAL REMANENT MAGNETIZATIONS REGIONS ON THE EARTH FOR THE INTERPRETATIONS OF STRONG AND REGIONALLY EXTENSIVE MAGNETIC ANOMALIES ON MARS</b> | 117-FRI-O1530-0635 |
| I     | DHANANJAY RAVAT  |                    |
| 16:00 | <b>ANORTHOSITES AS SOURCES OF MAGNETIC ANOMALIES</b>   | 117-FRI-O1600-0917 |
|       | LAURIE BROWN, Suzanne McEnroe  |                    |
| 16:15 | <b>MAGNETIC CHARACTERISTICS OF FRACTURE ZONES IN YOUNG VOLCANIC TERRAINS</b>   | 117-FRI-O1615-0740 |
|       | HECTOR LOPEZ-LOERA, Jaime Urrutia-Fucugauchi, Luis Alva-Valdivia   |                    |
| 16:30 | <b>LITHOSPHERE MAGNETIC ANOMALIES IN THE TERRITORY OF RUSSIA</b>   | 117-FRI-O1630-1332 |
|       | TAMARA P. LITVINOVA, O. V. Petrov, Yu. M. Erinchek   |                    |

### ***Poster Session (17:00-19:00)***

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|  | <b>THE MAGNETIC ANOMALY ON THE PERMIAN ALCAPARROSA PORPHYRY (ARGENTINA): A CASE OF PYRRHOTITE-REMANENCE-DOMINATED ANOMALY</b>   | 117-FRI-P1700-0179 |
|  | SILVANA GEUNA, Leonardo Escosteguy  |                    |
|  | <b>NEAR-BOTTOM MAGNETIC FIELD OBSERVATIONS AT THE MARIANA TROUGH BACK-ARC SPREADING CENTER</b>  | 117-FRI-P1700-1001 |
|  | TOSHIYA FUJIWARA, Miho Asada, Susumu Umino, Yuki Koike  |                    |
|  | <b>RED SEDIMENTARY AND COMBUSTION METAMORPHIC ROCKS AS MAGNETIC ANOMALY SOURCES; ROCK MAGNETIC AND PALAEOMAGNETIC SIGNATURES RECOVERED FROM BAUXITES AND PORCELANITES</b> | 117-FRI-P1700-1037 |
|  | SORIN-CORNELIU RĂDAN, Silviu Rădan  |                    |
|  | <b>MAGNETOACTIVE CRUSTAL LAYER OF THE ANTARCTIC COAST OF THE STATION "ACADEMIC VERNADSKY"</b>   | 117-FRI-P1700-1045 |
|  | VALERY KORCHIN, Boris Savenko, Peter Burtny, Elena Karnaukhova  |                    |
|  | <b>HETEROGENEITY OF AN EARTH'S CRUST OF OIL-AND-GAS ZONES</b>   | 117-FRI-P1700-1114 |
|  | TAMARA P. LITVINOVA, A. A. Petrova  |                    |



## ***I.18 Open poster session***

Oral: THU27 15:30-17:00 Council room (opens from Aula)

Poster: THU27 17:00-19:00 Aula

- 15:30 **VERTICAL ELECTRICAL SOUNDINGS OVER WESTERN DECCAN VOLCANIC PROVINCE, INDIA** 118-THU-P1530-0067  
*VINIT ERRAM, Gautam Gupta, B.D. Kadam*
- INTEGRATED GEOPHYSICAL STUDIES OF BARYATINO MAGNETIC ANOMALY AREA** 118-THU-P1530-0072  
*Elena Aleksanova, Victor Kulikov, PAVEL PUSHKAREV, Nikolay Shustov, Maria Vereshchagina, Andrey Yakovlev*
- PALEOMAGNETIC AGE OF IRON-RICH LENSES IN DEVONIAN SANDSTONES, ESTONIA** 118-THU-P1530-0077  
*PREEDEN ULLA, Mertanen Satu, Plado Jüri*
- MAGNETIC SURVEYING IN THE ROMAN AGE TOWN POROLISSUM (NW ROMANIA)** 118-THU-P1530-0252  
*JUDIT PETROVSZKI, Tamás Lipovics, László Lenkey, Mihály Pethe, István Kudó, Gábor Kovács, Lénárd Pál, Donát Raáb, Ádám Domján, Edith Ferencz, Mátyás Herein, István Bajusz*
- A PRELIMINARY SITE RESPONSE IN THE NILE DELTA BASIN (EGYPT) USING MICROTREMOR H/V SPECTRAL RATIO** 118-THU-P1530-0349  
*ELHAMY TARABEES, Adel El-Shahat and Sherief El-Hady*
- LONG-TERM SUPERSENSITIVE MAGNETIC OBSERVATION AT EILAT TEST SITE** 118-THU-P1530-0441  
*BORIS SHIRMAN, Boris Ginzburg, Ivan Hrvoic*
- IMPROVING MAGNETOTELLURIC TRANSFER FUNCTIONS QUALITY BY INCLUDING KNOWN DISTURBING SIGNALS TO THE PROCESSING** 118-THU-P1530-0472  
*ANNE NESKA, Krzysztof Nowozynski, Cathrine Fox Maule, Tamara Worzeński*
- THE EFFECT OF WEATHER ON VLF MEASUREMENTS** 118-THU-P1530-0512  
*BRETT DELPORT, Andrew B. Collier*
- CALCULATION OF PIEZOMAGNETIC FIELDS DUE TO UNIFORM REGIONAL STRESSES IN THE INHOMOGENEOUSLY MAGNETIZED CRUST** 118-THU-P1530-0560  
*KEN'ICHI YAMAZAKI*
- EM INDUCTION INVESTIGATION OF THE LITOSPHERE BASED ON NETWORK MAGNETOMETER DATA IN EUROPE** 118-THU-P1530-0562  
*ISTVAN LEMPERGER, Michel Menvielle, Jean-Louis Pincon, László Szarka, Pascal Tarits, Csaba Ubrankovics*
- EXTENDED HYBRID 3D LBM FOR FLOW DRIVEN CRACK PROBLEM UNDER MULTIPLE COUPLED FIELD IN HIGHLY MACRO-POROUS MATERIALS** 118-THU-P1530-0643  
*BOJING ZHU, M. C. Sukop, Y. L. Shi, L. Florea and K. J. Cunningham*
- EXPERIMENTAL STUDY OF FLY-ASH MIGRATION UNDER CONTROLLED WATER REGIME: TEMPERATURE AND MOISTURE CALIBRATION AND PRELIMINARY RESULTS ON SAND FORMATIONS** 118-THU-P1530-0682  
*Aleš Kapička, Radka Kodešová, Hana Fialová, EDUARD PETROVSKÝ, Jan Kopáč*
- APPLICATION OF A TERRAIN MODEL IN THE INTERPRETATION AND EVALUATION OF A MAGNETIC SURVEY CARRIED OUT FOR ARCHAEOLOGICAL PURPOSES IN POROLISSUM, ROMANIA** 118-THU-P1530-0707  
*Tamás Lipovics, JUDIT PETROVSZKI, István Kudó, Szilámér Pánczél, Alpár Dobos, Lóránt Vass, László Lenkey, István Bajusz*
- MAGNETIC PARTICLES AS SOURCE MARKERS OF STEEL-WORKS CONTRIBUTION TO PM10 IN ATMOSPHERE AT INDUSTRIAL MONITORING SITE** 118-THU-P1530-0774  
*EDUARD PETROVSKÝ, Aleš Kapička, Bohumil Kotlík, Radek Zbořil, Jiří Novák and Hana Fialová*

<b>CHARACTERIZATION OF INDOOR AND OUTDOOR DUST FROM MAJOR CITIES IN BULGARIA - PRELIMINARY RESULTS</b> <i>Neli Jordanova, DIANA JORDANOVA, Petar Petrov, Todor Popov, Rajna Yankova, Tsenka Tsacheva, Dimo Dimov</i>	118-THU-P1530-0825
<b>APPLICATION OF GEOELECTRIC AND ELECTROMAGNETIC SURVEYS IN A DEPRESSION SYSTEM INVESTIGATION NEAR SOPRON</b> <i>TÍMEA HAJNAL PRODÁN</i>	118-THU-P1530-0836
<b>ROCK MAGNETIC PROPERTIES AND MICROSCOPY OF OPHIOLITES: NORTHEASTERN CUBAN REGION</b> <i>LUIS M. ALVA-VALDIVIA, J. A. Batista, M. L. Rivas-Sanchez and J. A. Blanco</i>	118-THU-P1530-0921
<b>GEOMAGNETIC FIELD INCLINATIONS AND ABSOLUTE PALEOINTENSITIES FOR A 350 KYR TIME GAP FROM THE 350 METER CORE OF THE KALIHI SCIENTIFIC DRILLING PROJECT FROM THE KOOLAU VOLCANO, O'AHU, HAWAII, USA</b> <i>EMILIO HERRERO-BERVERA</i>	118-THU-P1530-0942
<b>BROWN-BLACK COLORED OLIVINES IN SOME MARTIAN METEORITES (SNC): LABORATORY SIMULATION OF SHOCK RELATED NEOFORMATION OF STRONGLY MAGNETIC NANO PHASES (NATIVE FE-NI, MAGNETITE)</b> <i>VIKTOR H. HOFFMANN, M. Funaki, M. Torii, T. Mikouchi, T. Kurihara</i>	118-THU-P1530-0997
<b>SURFACE FITTING METHODS - EXAMINATION ON A SYNTHETIC AND A FIELD MAGNETIC DATASET</b> <i>ÁDÁM HERCZEG</i>	118-THU-P1530-1004
<b>COMMON OSCILLATORY MODES IN GEOMAGNETIC ACTIVITY AND CLIMATE VARIABILITY AND THEIR PHASE RELATIONS</b> <i>DAGMAR NOVOTNÁ, Milan Paluš</i>	118-THU-P1530-1009
<b>ROCK MAGNETIC STUDY OF GREIGITE FORMATION AND STABILITY IN ODP HOLE 911A</b> <i>KARL FABIAN, Jochen Knies, Kari Grøsfjeld, Christoph Vogt</i>	118-THU-P1530-1043
<b>APPROXIMATION OF MAGNETIC DATA SURFACE WITH ANN (ARTIFICIAL NEURAL NETWORK) METHOD</b> <i>DÁNIEL SOÓS</i>	118-THU-P1530-1051
<b>MAGNETIC FABRIC OF THE UPPER CARBONIFEROUS MOLASSE SEDIMENTS (UPPER SILESIA COAL BASIN, POLAND)</b> <i>KATARZYNA SOBIEN, Jerzy Nawrocki, Tomasz Werner</i>	118-THU-P1530-1121
<b>INFLUENCE OF EEJ STRENGTH OF Y ON AEJ AND EEJ</b> <i>A. THIAGARAJAN ARUNACHALAM</i>	118-THU-P1530-1123
<b>SP IRON OXIDES IN SOILS DEVELOPED ON LIMESTONES</b> <i>HANA FIALOVÁ, Eduard Petrovský, Aleš Kapička, Neli Jordanova</i>	118-THU-P1530-1189
<b>THE GLOBAL MAPPING OF THE LUNAR CRUSTAL MAGNETIC FIELD USING NEW EXTERNAL INTERNAL SEPARATION FIELD TECHNIQUES</b> <i>M. C. BERGUIG, M. Hamoudi and Y. Cohen</i>	118-THU-P1530-1339
<b>THE DIURNAL AND SEASONAL VARIATIONS OF MAGNETIC FIELD ACTIVITY RECORDED AT NAGYCENK GEOMAGNETIC STATION, AND THE SIMILARITY WITH EARTHQUAKE DISTRIBUTION OCCURRED IN 50KM VICINITY OF THE STATION</b> <i>M. KISZELY MAROTINÉ</i>	118-THU-P1530-1367
<b>METHOD FOR REPAIRING MAGNETOSPHERE</b> <i>TARA AHMADI</i>	118-THU-P1530-0055
<b>LOW LATITUDE OXFORDIAN POSITION OF THE ORAVIC CRUSTAL SEGMENT (PIENINY KLIPPEN BELT, WESTERN CARPATHIANS): WAS IT A SLOW DRIFT OR A BIG JUMP?</b> <i>Maria Jeleńska, IGOR TÚNYI, Roman Aubrecht</i>	118-THU-P1530-1369

**Poster Session (17:00-19:00)**

- VERTICAL ELECTRICAL SOUNDINGS OVER WESTERN DECCAN VOLCANIC PROVINCE, INDIA** 118-THU-P1530-0067  
*VINIT ERRAM, Gautam Gupta, B.D. Kadam*
- INTEGRATED GEOPHYSICAL STUDIES OF BARYATINO MAGNETIC ANOMALY AREA** 118-THU-P1530-0072  
*Elena Aleksanova, Victor Kulikov, PAVEL PUSHKAREV, Nikolay Shustov, Maria Vereshchagina, Andrey Yakovlev*
- PALEOMAGNETIC AGE OF IRON-RICH LENSES IN DEVONIAN SANDSTONES, ESTONIA** 118-THU-P1530-0077  
*PREEDEN ULLA, Mertanen Satu, Plado Jüri*
- MAGNETIC SURVEYING IN THE ROMAN AGE TOWN POROLISSUM (NW ROMANIA)** 118-THU-P1530-0252  
*JUDIT PETROVSZKI, Tamás Lipovics, László Lenkey, Mihály Pethe, István Kudó, Gábor Kovács, Lénárd Pál, Donát Raáb, Ádám Domján, Edith Ferencz, Mátyás Herein, István Bajusz*
- A PRELIMINARY SITE RESPONSE IN THE NILE DELTA BASIN (EGYPT) USING MICROTREMOR H/V SPECTRAL RATIO** 118-THU-P1530-0349  
*ELHAMY TARABEES, Adel El-Shahat and Sherief El-Hady*
- LONG-TERM SUPERSENSITIVE MAGNETIC OBSERVATION AT EILAT TEST SITE** 118-THU-P1530-0441  
*BORIS SHIRMAN, Boris Ginzburg, Ivan Hrvoic*
- IMPROVING MAGNETOTELLURIC TRANSFER FUNCTIONS QUALITY BY INCLUDING KNOWN DISTURBING SIGNALS TO THE PROCESSING** 118-THU-P1530-0472  
*Anne Neska, Krzysztof Nowozynski, Cathrine Fox Maule, Tamara Worzeński*
- THE EFFECT OF WEATHER ON VLF MEASUREMENTS** 118-THU-P1530-0512  
*BRETT DELPORT, Andrew B. Collier*
- CALCULATION OF PIEZOMAGNETIC FIELDS DUE TO UNIFORM REGIONAL STRESSES IN THE INHOMOGENEOUSLY MAGNETIZED CRUST** 118-THU-P1530-0560  
*KEN'ICHI YAMAZAKI*
- EM INDUCTION INVESTIGATION OF THE LITOSPHERE BASED ON NETWORK MAGNETOMETER DATA IN EUROPE** 118-THU-P1530-0562  
*ISTVAN LEMPERGER, Michel Menvielle, Jean-Louis Pincon, László Szarka, Pascal Tarits, Csaba Ubrankovics*
- EXTENDED HYBRID 3D LBM FOR FLOW DRIVEN CRACK PROBLEM UNDER MULTIPLE COUPLED FIELD IN HIGHLY MACRO-POROUS MATERIALS** 118-THU-P1530-0643  
*BoJing Zhu, M. C. Sukop, Y. L. Shi, L. Florea and K. J. Cunningham*
- EXPERIMENTAL STUDY OF FLY-ASH MIGRATION UNDER CONTROLLED WATER REGIME: TEMPERATURE AND MOISTURE CALIBRATION AND PRELIMINARY RESULTS ON SAND FORMATIONS** 118-THU-P1530-0682  
*Aleš Kapička, Radka Kodešová, Hana Fialová, Eduard Petrovský, Jan Kopáč*
- APPLICATION OF A TERRAIN MODEL IN THE INTERPRETATION AND EVALUATION OF A MAGNETIC SURVEY CARRIED OUT FOR ARCHAEOLOGICAL PURPOSES IN POROLISSUM, ROMANIA** 118-THU-P1530-0707  
*Tamás Lipovics, JUDIT PETROVSZKI, István Kudó, Szilámér Pánczél, Alpár Dobos, Lóránt Vass, László Lenkey, István Bajusz*
- MAGNETIC PARTICLES AS SOURCE MARKERS OF STEEL-WORKS CONTRIBUTION TO PM10 IN ATMOSPHERE AT INDUSTRIAL MONITORING SITE** 118-THU-P1530-0774  
*EDUARD PETROVSKÝ, Aleš Kapička, Bohumil Kotlík, Radek Zbořil, Jiří Novák and Hana Fialová*

<b>CHARACTERIZATION OF INDOOR AND OUTDOOR DUST FROM MAJOR CITIES IN BULGARIA - PRELIMINARY RESULTS</b> <i>Neli Jordanova, DIANA JORDANOVA, Petar Petrov, Todor Popov, Rajna Yankova, Tsenka Tsacheva, Dimo Dimov</i>	118-THU-P1530-0825
<b>APPLICATION OF GEOELECTRIC AND ELECTROMAGNETIC SURVEYS IN A DEPRESSION SYSTEM INVESTIGATION NEAR SOPRON</b> <i>TÍMEA HAJNAL PRODÁN</i>	118-THU-P1530-0836
<b>ROCK MAGNETIC PROPERTIES AND MICROSCOPY OF OPHIOLITES: NORTHEASTERN CUBAN REGION</b> <i>LUIS M. ALVA-VALDIVIA, J. A. Batista, M. L. Rivas-Sanchez and J. A. Blanco</i>	118-THU-P1530-0921
<b>GEOMAGNETIC FIELD INCLINATIONS AND ABSOLUTE PALEOINTENSITIES FOR A 350 KYR TIME GAP FROM THE 350 METER CORE OF THE KALIHI SCIENTIFIC DRILLING PROJECT FROM THE KOOLAU VOLCANO, O'AHU, HAWAII, USA</b> <i>EMILIO HERRERO-BERVERA</i>	118-THU-P1530-0942
<b>BROWN-BLACK COLORED OLIVINES IN SOME MARTIAN METEORITES (SNC): LABORATORY SIMULATION OF SHOCK RELATED NEOFORMATION OF STRONGLY MAGNETIC NANO PHASES (NATIVE FE-NI, MAGNETITE)</b> <i>VIKTOR H. HOFFMANN, M. Funaki, M. Torii, T. Mikouchi, T. Kurihara</i>	118-THU-P1530-0997
<b>SURFACE FITTING METHODS - EXAMINATION ON A SYNTHETIC AND A FIELD MAGNETIC DATASET</b> <i>ÁDÁM HERCZEG</i>	118-THU-P1530-1004
<b>COMMON OSCILLATORY MODES IN GEOMAGNETIC ACTIVITY AND CLIMATE VARIABILITY AND THEIR PHASE RELATIONS</b> <i>DAGMAR NOVOTNÁ, Milan Paluš</i>	118-THU-P1530-1009
<b>ROCK MAGNETIC STUDY OF GREIGITE FORMATION AND STABILITY IN ODP HOLE 911A</b> <i>KARL FABIAN, Jochen Knies, Kari Grøsfjeld, Christoph Vogt</i>	118-THU-P1530-1043
<b>APPROXIMATION OF MAGNETIC DATA SURFACE WITH ANN (ARTIFICIAL NEURAL NETWORK) METHOD</b> <i>DÁNIEL SOÓS</i>	118-THU-P1530-1051
<b>MAGNETIC FABRIC OF THE UPPER CARBONIFEROUS MOLASSE SEDIMENTS (UPPER SILESIA COAL BASIN, POLAND)</b> <i>KATARZYNA SOBIEN, Jerzy Nawrocki, Tomasz Werner</i>	118-THU-P1530-1121
<b>INFLUENCE OF EEJ STRENGTH OF Y ON AEJ AND EEJ</b> <i>A. Thiagarajan Arunachalam</i>	118-THU-P1530-1123
<b>SP IRON OXIDES IN SOILS DEVELOPED ON LIMESTONES</b> <i>HANA FIALOVÁ, Eduard Petrovský, Aleš Kapička, Neli Jordanova</i>	118-THU-P1530-1189
<b>THE GLOBAL MAPPING OF THE LUNAR CRUSTAL MAGNETIC FIELD USING NEW EXTERNAL INTERNAL SEPARATION FIELD TECHNIQUES</b> <i>M. C. Berghuijs, M. Hamoudi and Y. Cohen</i>	118-THU-P1530-1339
<b>THE DIURNAL AND SEASONAL VARIATIONS OF MAGNETIC FIELD ACTIVITY RECORDED AT NAGYCENK GEOMAGNETIC STATION, AND THE SIMILARITY WITH EARTHQUAKE DISTRIBUTION OCCURRED IN 50KM VICINITY OF THE STATION</b> <i>M. KISZELY MAROTINÉ</i>	118-THU-P1530-1367
<b>METHOD FOR REPAIRING MAGNETOSPHERE</b> <i>TARA AHMADI</i>	118-THU-P1530-0055
<b>LOW LATITUDE OXFORDIAN POSITION OF THE ORAVIC CRUSTAL SEGMENT (PIENINY KLIPPEN BELT, WESTERN CARPATHIANS): WAS IT A SLOW DRIFT OR A BIG JUMP?</b> <i>Maria Jeleńska, IGOR TÚNYI, Roman Aubrecht</i>	118-THU-P1530-1369

## ***DIVISION II***

### ***II.01 Electrodynamical coupling from the troposphere to the magnetosphere related to thunderstorm electrical activity***

Oral: MON24 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 Theatre

Poster: MON24 17:00-19:00 Gimn. Halls, Level I

- |       |   |                    |
|-------|---|--------------------|
| 08:30 | <b>LIGHTNING EFFECTS IN THE LOWER IONOSPHERE AND RADIATION BELTS</b><br><i>UMRAN INAN</i>   | 201-MON-O0830-1316 |
| 09:00 | <b>VLF OBSERVATIONS OF IONOSPHERIC DISTURBANCES IN ASSOCIATION WITH TLES FROM THE EUROSPRITE-2007 CAMPAIGN</b><br><i>Samir Naitamor, M. A. AlAbloadaim, M. B. Cohen</i>   | 201-MON-O0900-0006 |
| 09:15 | <b>ASSESSING GLOBAL LIGHTNING ACTIVITY WITH ELF/VLF OBSERVATIONS, SCHUMANN RESONANCES AND IONOSPHERIC POTENTIAL</b><br><i>MAREK GOŁKOWSKI, Marek Kubicki, Morris Cohen, Andrzej Kułak, Umran Inan</i>   | 201-MON-O0915-0456 |
| 09:30 | <b>HALOS: A SOLUTION TO THE SPRITE POLARITY PARADOX</b><br><i>EARLE WILLIAMS, József Bór, Cheng-Ling Kuo, Gabriella Satori, Robert Boldi, A. B. Chen, Eric Downes, R.R. Hsu, Walter A. Lyons, M. M. F. Saba and H.T. Su</i>                               | 201-MON-O0930-0789 |
| 09:45 | <b>TRIANGULATION OF SPRITES OBSERVED IN CENTRAL EUROPE IN 2007</b><br><i>JÓZSEF BÓR, Juraj Toth, Gabriella Satori, Hans-Dieter Betz, Bálint Varga and Ferenc Dombai</i>   | 201-MON-O0945-0270 |
| 10:30 | <b>HOW TO SIMULATE SPRITE DISCHARGES IN LABORATORY AND COMPUTER</b><br><i>UTE EBERT</i>   | 201-MON-O1030-0630 |
| 11:00 | <b>THE ALTITUDE DEPENDENCE OF SPRITE INFLUENCE ON THE CHEMICAL BALANCE OF THE MESOSPHERE</b><br><i>ANDREY A. EVTUSHENKO</i>   | 201-MON-O1100-0323 |
| 11:15 | <b>LABORATORY STUDIES OF SPRITES IN GAS MIXTURES REPRESENTING THE VENUSIAN AND JOVIAN ATMOSPHERES</b><br><i>Daria Dubrovin, Sander Nijdam, Edie van Veldhuizen, Ute Ebert, Yoav Yair, COLIN PRICE</i>   | 201-MON-O1115-0679 |
| 11:30 | <b>SATELLITE OBSERVATIONS OF THUNDERSTORM RELATED CHEMICAL CHANGES IN THE MIDDLE ATMOSPHERE</b><br><i>ANTTI KERO, E. Arnone, C.-F. Enell, F. Sao-Sabbas, M. Carlotti, B. M. Dinelli, C. J. Rodger, E. Papandrea, M. Ridolfi, N. F. Arnold, E. Turunen</i> | 201-MON-O1130-0985 |
| 11:45 | <b>A REVIEW OF THE SOUTH AMERICAN TLE PRODUCING CONVECTIVE SYSTEMS OBSERVED UP TO DATE</b><br><i>FERNANDA T SÃO SABBAS, Carlos A Morales Rodriguez, Rosmeri P Rocha, Rodrigo R Azambuja</i>   | 201-MON-O1145-1302 |
| 13:30 | <b>ANALYSIS OF TLES OBSERVED IN THE SOUTHEASTERN U.S.</b><br><i>STEVEN A. CUMMER</i>  | 201-MON-O1330-0651 |
| 14:00 | <b>PRINCIPAL COMPONENT ANALYSIS OF SUB-IONOSPHERIC VLF PROPAGATION CONDITIONS</b><br><i>ANDREW B. COLLIER and J. Lichtenberger</i>  | 201-MON-O1400-0078 |
| 14:15 | <b>IMPROVEMENTS IN THE WWLLN NETWORK: BIGGER DETECTION EFFICIENCIES THROUGH MORE STATIONS AND SMARTER ALGORITHMS</b><br><i>CRAIG J. RODGER, James B. Brundell and Robert H. Holzworth</i>   | 201-MON-O1415-0989 |

- 14:30 **STUDY OF SCHUMANN RESONANCE IN LOW LATITUDE INDIAN REGION** 201-MON-O1430-0417  
*B. M. PATHAN, and A. K. Sinha*
- 14:45 **MODELING THE RELAXATION OF EARLY VLF PERTURBATIONS ASSOCIATED WITH TRANSIENT LUMINOUS EVENTS** 201-MON-O1445-0937  
*CHRISTOS HALDOUPIS, Ágnes Mika and Sergey Shalimov*
- 15:30 **SCOPE AND STRATEGY OF RISING SATELLITE OBSERVATION I WITH GROUND-BASED NETWORK** 201-MON-O1530-0948  
*YUKIHIRO TAKAHASHI, RISING Science Team*
- 16:00 **MODELING AND DIAGNOSTICS OF AEROELECTRIC STRUCTURES IN THE LOWER ATMOSPHERE** 201-MON-O1600-0340  
*MARIA V. SHATALINA, Mareev E.A., S.V. Anisimov and V.V. Klimenko*
- 16:15 **OPTICAL AND ELECTRIC FIELD OBSERVATIONS OF LIGHTNING IN THE LOW LATITUDE IONOSPHERE GATHERED WITH PROBES ON THE C/NOFS SATELLITE** 201-MON-O1615-0574  
*R. H. HOLZWORTH, M. P. McCarthy, A. R. Jacobson, R. F. Pfaff, D. E. Rowland*
- 16:30 **EFFECT OF ACTIVE THUNDERSTORM ON IONOSPHERIC ELECTRON AND ION TEMPERATURES AS MEASURED BY THE SROSS-C2 SATELLITE** 201-MON-O1630-0581  
*D. K. SHARMA, Jagdiah Rai*
- 16:45 **SEASONAL VARIATION OF THE MESOSPHERIC INVERSION LAYER AND THUNDERSTORMS** 201-MON-O1645-0025  
*S. FADNAVIS*
- 17:00 **MODELING OF THUNDERCLOUD SCREENING CHARGES: IMPLICATIONS FOR BLUE AND GIGANTIC JETS** 201-MON-O1700-0244  
*JEREMY A. RIOUSSET, Victor P. Pasko, Paul R. Krehbiel, William Rison, Mark A. Stanley*

**Poster Session (17:15-19:00)**

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|----------|--|--------------------|
|          | <b>UNIFICATION OF LORENTZIAN SPECTRAL METHODS APPLIED IN DIFFERENT SCHUMANN RESONANCE STATIONS TO PREPARE GLOBAL INVERSION FOR SPECIFYING GLOBAL LIGHTNING SOURCES</b> | 201-MON-P1700-0192 |
|          | <i>TAMÁS NAGY, Gabriella Satori, Robert Boldi, Vadim Mushtak, Earle Williams, Mariusz Neska</i>  |                    |
| <b>I</b> | <b>REMOTELY CONTROLLED OBSERVATIONS OF TRANSIENT LUMINOUS EVENTS IN CENTRAL EUROPE FROM SOPRON, HUNGARY IN 2008</b>  | 201-MON-P1700-0226 |
|          | <i>VERONIKA BARTA, József Bór, Gabriella Satori and Hans-Dieter Betz</i>   |                    |
|          | <b>HIGH-SPEED VIDEO OBSERVATIONS OF POSITIVE GROUND FLASHES PRODUCED BY INTRACLOUD LIGHTNING</b>   | 201-MON-P1700-0617 |
|          | <i>Marcelo Saba, LEANDRO CAMPOS, Philip Krider, Osmar Pinto Jr.</i>  |                    |
|          | <b>SURVEY OF SCHUMANN RESONANCE ELECTRIC FIELD COMPONENT MEASUREMENTS AT MODRA OBSERVATORY IN 2006 - 2008</b>  | 201-MON-P1700-1105 |
|          | <i>ADRIENA ONDRÁŠKOVÁ, Sebastián Ševčík, Pavel Kostecký</i>  |                    |
|          | <b>ELF TRANSIENT EVENTS REGISTERED SIMULTANEOUSLY IN OPTICAL AND IN SCHUMANN RESONANCE BANDS</b>   | 201-MON-P1700-1106 |
|          | <i>ADRIENA ONDRÁŠKOVÁ, Juraj Tóth, Sebastián Ševčík, Pavel Kostecký, Robert Kysel</i>  |                    |
|          | <b>DOES TLE FREQUENCY VARY ON THE 11-YEAR SOLAR CYCLE?</b>   | 201-MON-P1700-1293 |
|          | <i>GABRIELLA SÁTORI</i>  |                    |
|          | <b>ELF/VLF SIGNATURES OF SPRITE-PRODUCING LIGHTNING DISCHARGES OBSERVED DURING THE 2005 EUROSRITE CAMPAIGN</b>   | 201-MON-P1700-1345 |
|          | <i>Eran Greenberg, COLIN PRICE, Yoav Yair, Christos Haldoupis, Olivier Chanrion and Torsten Neubert</i>  |                    |

***II.02 New findings concerning the polar summer mesosphere/lower thermosphere/ionosphere region including the role of dusty plasmas***

Oral: THU27 10:30-12:00, 13:30-15:00, 15:30-17:00 Painter's Hall

Poster: THU27 17:00-19:00 Gimn. Halls, Level 1

- |       |   |                    |
|-------|---|--------------------|
| 10:30 | <b>EIGHT YEARS OF PMC OBSERVATIONS FROM ODIN/OSIRIS</b>   | 202-THU-O1030-0152 |
| I     | <i>SVETLANA PETELINA, Edward Llewellyn</i>  |                    |
| 10:45 | <b>STRATOSPHERIC AND SOLAR CYCLE EFFECTS ON LONG TERM VARIABILITY OF MESOSPHERIC ICE CLOUDS</b>   | 202-THU-O1045-0900 |
| I     | <i>FRANZ-JOSEF LÜBKEN, Uwe Berger, Gerd Baumgarten</i>  |                    |
| 11:00 | <b>WATER VAPOR, TEMPERATURE, AND ICE PARTICLES IN POLAR MESOSPHERE AS MEASURED BY SABER/TIMED AND OSIRIS/ODIN INSTRUMENTS</b>   | 202-THU-O1100-0939 |
|       | <i>Artem G. Feofilov, S.V. Petelina, A.A. Kutepov, W.D. Pesnell and R.A. Goldberg</i>   |                    |
| 11:15 | <b>POLAR MESOSPHERIC SUMMER ECHOES ABOVE ANTARCTICA IN SUMMER 2007/2008</b>   | 202-THU-O1115-0386 |
|       | <i>HANS NILSSON, Sheila Kirkwood, Andrew R. Klekociuk, Ray J. Morris, Damian J. Murphy</i>  |                    |
| 11:30 | <b>LONGITUDINAL DIFFERENCES OF THE PMSE STRENGTH AT HIGH ARCTIC LATITUDES</b>   | 202-THU-O1130-0932 |
| I     | <i>WERNER SINGER, N. Swarnalingam, J.M. Wissing, R. Latteck, M.-B. Kallenrode, C. Meek, A.H. Manson, J. Drummond, W.K. Hocking</i>                                      |                    |
| 11:45 | <b>CHARACTERISTICS OF NOCTILUCENT CLOUDS AND THEIR CONSTITUENTS ABOVE ALOMAR</b>  | 202-THU-O1145-1139 |
|       | <i>GERD BAUMGARTEN, Jens Fiedler, Franz-Josef Lübken</i>  |                    |
| 13:30 | <b>THE AERONOMY OF ICE IN THE MESOSPHERE MISSION: SCIENCE RESULTS AFTER FOUR PMC SEASONS</b>  | 202-THU-O1330-0482 |
| I     | <i>James M. Russell III, Scott M. Bailey, Mark E. Hervig, Cora Randall, Larry L. Gordley and the AIM Science Team</i>   |                    |
| 13:45 | <b>MESOSPHERIC AEROSOL PARTICLES STUDIED WITH IN SITU TECHNIQUES: AN OVERVIEW OF RESULTS FROM THE ECOMA-PROJECT</b>   | 202-THU-O1345-0819 |
| I     | <i>Markus Rapp</i>  |                    |
| 14:00 | <b>DISSIPATIVE INSTABILITIES IN MESOSPHERIC DUSTY PLASMA: INFLUENCE OF CHARGING PROCESSES</b>   | 202-THU-O1400-0218 |
|       | <i>VERONIKA S. GRACH</i>  |                    |
| 14:15 | <b>CHARGE STATE OF THE MESOSPHERIC SMOKE PARTICLES</b>  | 202-THU-O1415-1081 |
|       | <i>IRINA STRELNIKOVA, Markus Rapp, Jonas Hedin, Jürgen Röttger, Torsten Köpnick</i>   |                    |
| 14:30 | <b>METEORIC AEROSOLS IN THE MIDDLE ATMOSPHERE</b>   | 202-THU-O1430-0473 |
| I     | <i>LINDA MEGNER, Jörg Gumbel</i>  |                    |
| 14:45 | <b>FIRST SATELLITE OBSERVATIONS OF METEORIC SMOKE IN THE UPPER ATMOSPHERE</b>   | 202-THU-O1445-0504 |
| I     | <i>MARK HERVIG, Larry L. Gordley, Lance E. Deaver, David E. Siskind, Michael H. Stevens, James M. Russell III, Scott M. Bailey, Linda Megner and Charles G. Bardeen</i> |                    |
| 15:30 | <b>NEW METEOR HEAD ECHO OBSERVATIONS FOR IONIZATION PROFILING AND PRECISE ORBIT DETERMINATION WITH THE MU RADAR</b>   | 202-THU-O1530-1274 |
|       | <i>TAKUJI NAKAMURA, Hideaki Miyamoto, Toshio Terasawa, Diego Janches, Johan Kero, Csilla Szasz, Koji Nishimura, Yasunori Fujiwara, Masayoshi Ueda</i>                   |                    |
| 15:45 | <b>RADAR STUDIES OF THE METEOROID INFLUX TO THE EARTH ATMOSPHERE</b>  | 202-THU-O1545-1183 |
|       | <i>CSILLA SZASZ, Johan Kero, Takuji Nakamura, David D. Meisel, Asta Pellinen-Wannberg, Gudmund Wannberg, Assar Westman</i>  |                    |



16:00	<b>I IN SITU MEASUREMENTS OF SMALL-SCALE NEUTRAL AND PLASMA DYNAMICS IN THE POLAR SUMMER MESOSPHERE</b> <i>BORIS STRELNIKOV, Markus Rapp, Ulf-Peter Hoppe and Tom-Arild Blix</i>	202-THU-O1600-0866
16:15	<b>GRAVITY WAVES AND THE MORPHOLOGY OF NOCTILUCENT CLOUDS AND POLAR MESOSPHERE SUMMER ECHOES</b> <i>ULF-PETER HOPPE</i>	202-THU-O1615-1005
16:30	<b>INTERACTIONS OF PLANETARY WAVES AND GRAVITY WAVES OBSERVED BY SABER AND INVESTIGATED BY GLOBAL RAY TRACING MODELING</b> <i>Peter Preusse and Manfred Ern</i>	202-THU-O1630-0981
16:45	<b>I INVESTIGATING GRAVITY WAVE PROPERTIES IN THE SUMMER POLAR REGIONS</b> <i>MICHAEL J. TAYLOR, Y. Zhao, P-D. Pautet, C. E. Randall, S. M. Bailey, J. M. Russell III</i>	202-THU-O1645-0975

**Poster Session (17:00-19:00)**

	<b>MULTI-RADAR STUDIES OF PMSE: IMPLICATIONS FOR MESOSPHERIC LARGE SCALE VARIABILITY AND MICROPHYSICAL PROCESSES</b> <i>Ralph Latteck, WERNER SINGER and Markus Rapp</i>	202-THU-P1700-0391
	<b>REMOTELY MEASURED TEMPERATURE COMPARABILITY</b> <i>FRANCIS J. SCHMIDLIN, Richard A. Goldberg</i>	202-THU-P1700-0549
	<b>RADAR STUDIES OF METEOROID-ATMOSPHERE INTERACTION PROCESSES</b> <i>JOHAN KERO, Csilla Szasz, Takuji Nakamura, Asta Pellinen-Wannberg, David D. Meisel, Gudmund Wannberg, Assar Westman</i>	202-THU-P1700-1186
	<b>A MULTI-WAVELENGTH RESONANCE LIDAR SYSTEM FOR THE ANTARCTIC MIDDLE AND UPPER ATMOSPHERE OVER SYOWA (69S, 39E)</b> <i>TAKUJI NAKAMURA, Makoto Abo, Yasukuni Shibata, Takuya D. Kawahara, Tsukasa Kitahara, Kazuyo Sakanoi, Kaoru Sato, Mitsumu K. Ejiri, Masaki Tsutsumi, Yoshihiro Tomikawa</i>	202-THU-P1700-1265

## **II.03 Long-term changes in the mesosphere, thermosphere and ionosphere**

Oral: TUE25 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 Theatre

Poster: TUE25 17:00-19:00 Gimn. Halls, Level 1

08:30	<b>LONG-TERM TRENDS IN THE UPPER ATMOSPHERE - RECENT I PROGRESS</b> <i>JAN LASTOVICKA</i>	203-TUE-O0830-0027
09:00	<b>EXPECTED TRENDS IN THE GEOMAGNETIC SQ FIELD DUE TO SECULAR CHANGES IN THE EARTH'S MAGNETIC FIELD</b> <i>ANA G. ELIAS, Marta Zossi de Artigas</i>	203-TUE-O0900-0063
09:15	<b>ANALYSIS OF SOLAR CYCLE DEPENDENCE OF CHEMICAL HEATING RATES</b> <i>Catrin Lehmann, Martin Kaufmann, PETER PREUSSE, Martin Riese</i>	203-TUE-O0915-1108
09:30	<b>IMPACT OF NATURAL ATMOSPHERIC VARIABILITY ON VALIDATION</b> <i>VERENA KOPP, Sabine Wüst, Michael Bittner</i>	203-TUE-O0930-0808
09:45	<b>LONG-TERM VARIATIONS OF THE TWEED REFLECTION HEIGHT DURING THE SOLAR CYCLE 21</b> <i>HIROYO OHYA, Kazuo Shiokawa, Yoshizumi Miyoshi</i>	203-TUE-O0945-0503
10:30	<b>SEPARATION OF CHEMICALLY AND DYNAMICALLY INDUCED I OZONE TRENDS IN WINTERLY NORTHERN LATITUDES</b> <i>Michael Bittner, SABINE WÜST</i>	203-TUE-O1030-0893
11:00	<b>TEMPERATURE RESPONSE TO SOLAR ACTIVITY IN THE MLT- I REGION - AN UPDATE</b> <i>GUFRAH BEIG</i>	203-TUE-O1100-0381
11:30	<b>LONG-TERM TRENDS IN MIDDLE ATMOSPHERE DYNAMICS AT NORTHERN MIDDLE LATITUDES</b> <i>Jan LASTOVICKA, Peter Krizan, Michal Kozubek</i>	203-TUE-O1130-0028
13:30	<b>F2-LAYER PARAMETERS AS A SOURCE OF INFORMATION ON TRENDS IN THERMOSPHERIC WINDS</b> <i>ALEXEY DANILOV</i>	203-TUE-O1330-0379
14:00	<b>DEPENDENCE ON SOLAR ACTIVITY LEVEL OF THEORETICAL F2 LAYER TRENDS DUE TO EARTH'S MAGNETIC FIELD VARIATIONS</b> <i>ANA G. ELIAS</i>	203-TUE-O1400-0062
14:15	<b>OZONE AND TEMPERATURE RESPONSE TO DECADEAL SOLAR VARIABILITY OVER TROPICS</b> <i>SUVARNA FADNAVIS</i>	203-TUE-O1415-0023
14:30	<b>CHARACTERISTICS OF SPORADIC SODIUM LAYERS AT 23 °S</b> <i>DALE SIMONICH, Barclay Clemesha and Paulo Prado Batista</i>	203-TUE-O1430-0827
14:45	<b>MODELLING OF LONG-TERM ANTHROPOGENIC CHANGES IN STRATOSPHERIC TEMPERATURE AND THE OZONE LAYER</b> <i>Igor Dyominov and ALEXANDER ZADOROZHNY</i>	203-TUE-O1445-0293
15:30	<b>MESOSPHERIC GRAVITY WAVE ACTIVITY AT MID AND HIGH I LATITUDES AND THE DEPENDENCE ON THE SOLAR CYCLE</b> <i>PETER HOFFMANN, Werner Singer, Jürgen Bremer, Dieter Keuer, Erich Becker, Ralph Latteck</i>	203-TUE-O1530-1062
16:00	<b>PRESENT STATUS OF THE TOTAL OZONE OVER THE BALKAN REGION</b> <i>TSVETANA GOGOSHEVA, Bogdana Mendeva, Dimitar Krastev</i>	203-TUE-O1600-0667
16:15	<b>IMPROVED HEIGHT AND SHARPNESS MEASUREMENTS OF THE LOWEST EDGE OF THE EARTH'S IONOSPHERE</b> <i>NEIL R. THOMSON</i>	203-TUE-O1615-0614
16:30	<b>A NEW APPROACH FOR MONITORING THE 27-DAY SOLAR ROTATION USING VLF RADIO NOISE ON THE EARTH'S SURFACE</b> <i>Yuval Reuveni, Colin Price</i>	203-TUE-O1630-0177

**Poster Session (17:00-19:00)**

<b>LONG TERM CHANGES IN THE TOTAL RADIO WAVES ABSORPTION IN THE IONOSPHERE &amp; D- REGION OVER LOW LATITUDE</b>	203-TUE-P1700-0116
<i>Brij M.VYAS and Vimal Saraswat</i>	
<b>LONGITUDINAL BEHAVIOUR OF O<sup>+</sup>/H<sup>+</sup> TRANSITION LEVEL IN THE TOPSIDE IONOSPHERE DURING PERIOD OF LOW SOLAR ACTIVITY 2004-2008</b>	203-TUE-P1700-0231
<i>LUDMIL BANKOV, P. Marinov, A. Vassileva</i>	
<b>GLOBAL MECHANISMS IN ATMOSPHERE MODELS AND A BALANCE OF THE EARTH ANGLE MOMENT: ATMOSPHERE RADIO-WAVEGUIDES AND TELECONNECTION</b>	203-TUE-P1700-0356
<i>ALEXANDER GLUSHKOV</i>	
<b>THE INFRARED COOLING IN THE F-REGION</b>	203-TUE-P1700-0426
<i>VIN P. BHATNAGAR</i>	
<b>NETWORK FOR THE DETECTION OF MESOPAUSE CHANGE (NDMC)</b>	203-TUE-P1700-0891
<i>MICHAEL BITTNER, Patrick Espy, John French, Kathrin Höppner, Jürgen Scheer, Mike Taylor</i>	
<b>A LONG-DURATION STUDY OF TOTAL ELECTRON CONTENT IN THE EQUATORIAL IONOSPHERE</b>	203-TUE-P1700-0958
<i>CHIEN-CHIH LEE</i>	
<b>A LONG-TERM STUDY OF LOW-LATITUDE IONOSPHERIC IRREGULARITIES AT AFRICAN LONGITUDES BY GROUND-BASED GPS OBSERVATIONS</b>	203-TUE-P1700-1137
<i>F.D. Chu, W.S. Chen, C.C. LEE and J.Y. Liu</i>	

## **II.04 Solar and lower atmospheric forcing of the middle atmosphere-ionosphere system**

Oral: WED26 10:30-12:00, 13:30-15:00, 15:30-17:00 Theatre

Oral: THU27 10:30-12:00, 13:30-15:00, 15:30-17:00 Theatre

Poster: WED26 17:00-19:00 Gimn. Halls, Level 1

- |       |   |                     |
|-------|---|---------------------|
| 10:30 | <b>GRAVITY WAVE COUPLING INTO THE TROPICAL MLT</b>  | 204-WED-O1030-0658  |
| I     | ROBERT VINCENT, Sujata Kovalam, M. Joan Alexander   |                     |
| 11:00 | <b>ATMOSPHERIC GRAVITY WAVE ACTIVITY ABOVE HALLEY (76S, 27W) AND ROTHERA (67S, 68W)</b>   | 204-WED-O1100-0727  |
|       | TRACY MOFFAT-GRIFFIN, Robert E Hibbins, Martin J Jarvis   |                     |
| 11:15 | <b>OBSERVATIONS OF NONMIGRATING DIURNAL TIDES IN THE THERMOSPHERE</b>   | 204-WED-O1115-0934  |
| I     | Ruth Lieberman, Elsayed Talaat, Jens Oberheide, Dennis Rigglin  |                     |
| 11:45 | <b>A STUDY OF TIDAL INFLUENCE ON THE TOPSIDE IONOSPHERE AT MIDDLE AND LOW LATITUDES BY MEANS OF DEMETER, DMSP AND TIMED/SABER DATA</b>  | 204-WED-O1145-0228  |
|       | LUDMIL BANKOV, D. Pancheva, Pl. Muhtarov, A. Vassileva  |                     |
| 13:30 | <b>COMPARISONS OF TIDES FROM MODELS AND OBSERVATIONS: RESULTS FROM THE CAUSES GLOBAL TIDAL CAMPAIGNS</b>  | 204-WED-O1330-1259  |
| I     | WILLIAM E. WARD, Jens Oberheide, Larisa Goncharenko, Dan Marsh, Takuji Nakamura, Werner Singer, Anne K. Smith, Ding Yi Wang, Titus Yuan, Jian Du, Michael Gerding, Phillipe Keckhut, Yasunobu Miyoshi, Jurgen Scheer, Hauke Schmidt |                     |
| 14:00 | <b>MEAN WINDS AND ATMOSPHERIC TIDES, MEASURES BY SKIYMET, OVER SANTA MARIA (29.7°S; 53.8°W)</b>   | 204-WED-O1400-0138  |
|       | VANIA FATIMA ANDRIOLI, Paulo Prado Batista, Barclay Robert Clemesha, Nelson Jorge Schuch  |                     |
| 14:45 | <b>MULTI-INSTRUMENT OBSERVATIONS OF NIGHTGLOW INTENSITIES AND TEMPERATURES AND METEOR RADAR WINDS AND TEMPERATURES AT ADELAIDE, AUSTRALIA</b>   | 204-WED-O1415-0765  |
|       | IAIN M REID, Jonathan M. Woithe, Daniel L. McIntosh, Syed M. I. Azeem   |                     |
| 14:30 | <b>DESCENT FROM THE POLAR MESOSPHERE FOLLOWING MID-WINTER STRATOSPHERIC SUDDEN WARMINGS, OBSERVED IN ODIN/SMR WATER VAPOR AND TEMPERATURE</b>   | 204-WED-O1430-1231  |
|       | YVAN J. ORSOLINI, Joachim Urban, Donal P. Murtagh   |                     |
| 14:45 | <b>SEASONAL TIDAL VARIABILITY OF MIDLATITUDE SPORADIC LAYERS AT ARECIBO</b>   | 204-WED-O1445 -1192 |
|       | CHRISTOS HALDOUPIS, N. Christakis, Q. Zhou, C. Meek   |                     |
| 15:30 | <b>TEMPORAL VARIATIONS OF ATOMIC OXYGEN IN THE UPPER MESOSPHERE FROM SABER</b>  | 204-WED-O1530-0579  |
| I     | ANNE K. SMITH, Daniel R. Marsh, Martin G. Mlynchzak, Jeffrey C. Mast  |                     |
| 16:00 | <b>INFRASONIC INDUCED MESOPAUSE TEMPERATURE PERTURBATIONS: AS AN EARLY INDICATOR FOR THE DETECTION OF TSUNAMIS AND OTHER GEO-HAZARDS</b>  | 204-WED-O1600-0889  |
|       | MICHAEL BITTNER, Kathrin Höppner, Christoph Pilger, Carsten Schmidt, Julian Meyer-Arneke  |                     |
| 16:15 | <b>SOLAR ACTIVITY FORCING OF STRATOSPHERE AND TROPOSPHERE</b>   | 204-WED-O1615-0041  |
|       | KESAVAPILLAI MOHANAKUMAR  |                     |
| 16:30 | <b>RAY TRACING FOR VISCOUSLY DAMPED WAVES IN THE THERMOSPHERE</b>   | 204-WED-O1630-0654  |
|       | RICHARD L. WALTERSCHEID, Michael Hickey   |                     |
| 16:45 | <b>THREE YEARS OF CONTINUOUS MEASUREMENTS OF TURBULENCE IN THE MESOSPHERE AND LOWER THERMOSPHERE WITH A 3-MHZ DOPPLER RADAR AT 69°N</b>   | 204-WED-O1645-0859  |
|       | WERNER SINGER, Ralph Latteck, Boris Strelnikov, Peter Hoffmann, Norbert Engler, Markus Rapp   |                     |

- 10:30 **GRAVITY WAVE COUPLING INTO THE THERMOSPHERE AND IONOSPHERE UNDER VARYING SOLAR CONDITIONS** 204-THU-O1030-0918  
DAVE FRITTS
- 11:00 **QBO AND SOLAR INFLUENCES ON POLAR MIDDLE ATMOSPHERE DYNAMICS** 204-THU-O1100-1060  
MARTIN J. JARVIS, Robert E. Hibbins, Hua Lu, Elaina A. K. Ford
- 11:15 **MODELING THE ELECTROMAGNETIC SIGNATURES OF LOWER- THERMOSPHERIC WINDS** 204-THU-O1115-0967  
ARTHUR D. RICHMOND, A. Maute, T.W. Fang, S. Guillas, J. Rougier
- 11:45 **CLIMATOLOGY OF THE STATIONARY PLANETARY WAVES SEEN IN THE SABER/TIMED TEMPERATURES (2002-2007)** 204-THU-O1145-0119  
DORA PANCHEVA, Plamen Mukhtarov, Borislav Andonov
- 13:30 **PLANETARY WAVE TYPE OSCILLATIONS IN THE IONOSPHERE: DISTINGUISHING SOLAR FORCING AND COUPLING FROM BELOW** 204-THU-O1330-0479  
CLAUDIA BORRIES, Norbert Jakowski, Christoph Jacobi, Peter Hoffmann
- 13:45 **IONOSPHERIC DISTURBANCES IN NORTH EASTERN REGION OF ASIA DURING SUDDEN STRATOSPHERIC WARMINGS** 204-THU-O1345-0446  
VLADIMIR KURKIN, Geliy Zhrebtsov, Igor Orlov, Alexander Mikhalev, Alexander Beletsky, Irina Medvedeva, Olga Pirog, Konstantin Ratovsky, Boris Shpynev, Marina Chernigovskaya
- 14:00 **ELECTRODYNAMIC FORCING OF IONOSPHERE FROM ABOVE AND BELOW** 204-THU-O1400-0565  
VYTENIS M. VASYLIŪNAS
- 14:30 **PHOTOELECTRONS AS A TOOL TO EVALUATE SPECTRAL VARIATIONS IN SOLAR EUV IRRADIANCE OVER SOLAR CYCLE TIME SCALES** 204-THU-O1430-0468  
William K. Peterson, E. N. Stavros, P.G. Richards, P.C. Chamberlin, T. N. Woods, S. M. Bailey, S. C. Solomon
- 14:45 **AERONOMY SCIENCE PROJECTS AT SOUTH OF BRAZIL** 204-THU-O1445-0495  
NELSON JORGE SCHUCH, Barclay Robert Clemesha, Kazuo Makita, Jean-Pierre Raulin, Alberto J. Foppiano Bachmann, Ricardo Monreal MacMahon, Julio César Gianibelli, Mangalathayil Ali Abdu, José Humberto Andrade Sobral, Emilia Correia, Clezio Marcos Denardin, Cassio Espindola Antunes, Julianio Moro, Vania Fatima Andrioli, Carlos Pinto da Silva Neto, Claudio Machado Paulo, Lilian Moor, Guilherme Lorensen
- 15:30 **INFLUENCES ON THE DEVELOPMENT OF EQUATORIAL IONOSPHERIC IRREGULARITIES** 204-THU-O1530-1262  
JONATHAN J. MAKELA, Ethan S. Miller
- 16:00 **GPS OBSERVATIONS OF MESOSCALE IONOSPHERE ANOMALIES; EVIDENCE FOR FORCING FROM BELOW?** 204-THU-O1600-0881  
SIEGFRIED J. BAUER, Markus Rieger
- 16:15 **ON THE CHARACTERIZATION OF LONG TERM IONOSPHERIC BEHAVIOR FROM MONITORING VLF SIGNALS** 204-THU-O1615-0639  
EMÍLIA CORREIA, Pierre Kaufmann, Maria Quevedo
- 16:30 **DETECTION OF ACOUSTIC RESONANCE EFFECTS ON THE GROUND AND IN THE IONOSPHERE AT THE TOTAL ECLIPSES** 204-THU-O1630-0768  
TOSHIHIKO IYEMORI, De-Shen Han, Masato Iguchi, Wataru Kanda, Mitsuru Matsumura, James J. Mori, Michi Nishioka, Masahito Nose, Yoko Odagi, Naoto Oshiman, Akinori Saito, Yasuharu Sanoo, Hiroyuki Shinagawa, Kento Taira, Akihiro Takemura, Yoshikazu Tanaka, Hiroaki Toh, Ichiro Tomizawa, Masahiko Takeda, Mitsuru Utsugi
- 16:45 **SAVNET: CURRENT DEVELOPMENTS AND RESULTS** 204-THU-O1645-1204  
FERNANDO C. P. BERTONI, Jean-Pierre Raulin, Hernan Gavilán Rivero, Walter Guevara Day, German Fernandez, Rodolfo Rodriguez

**Poster Session (17:00-19:00)**

- ANALYSIS OF MEAN WINDS AND ATMOSPHERIC TIDES AT MIDDLE AND LOWER LATITUDES IN SOUTH HEMISPHERE** 204-WED-P1700-0132  
*VANIA FATIMA ANDRIOLI, Paulo Prado Batista, Barclay Robert Clemesha, Nelson Jorge Schuch*
- THE VARIABILITY OF THE MID-LATITUDE MLT WINDS RESPONSE ON THE EXTERNAL FORCING** 204-WED-P1701-0004  
*Edward KAZIMIROVSKY, Galina Vergasova*
- TO THEORETICAL MODELING OF ACOUSTIC-GRAVITY WAVES PROPAGATION IN THE NONISOTHERMIC ATMOSPHERE** 204-WED-P1702-0278  
*OLGA SAVINA*
- AN EMISSION LAYER AS A GRAVITY WAVE DETECTOR** 204-WED-P1703-0594  
*ALEXEY BELYAEV*
- SIMULTANEOUS TEMPERATURE MEASUREMENTS OF THE UPPER MESOSPHERE OBTAINED BY LIDAR AND AIRGLOW IN THE BRAZILIAN LOW LATITUDE SECTOR** 204-WED-P1704-0139  
*FERNANDA FERNANDES, Dale Simonich, Alexandre Pimenta, Delano Gobbi, Barclay Clemesha*
- THE SOLAR INFLUENCE ON THE VERTICAL PROPAGATION CONDITION OF THE ANNUAL AND SEMIANNUAL OSCILLATIONS IN THE MIDDLE ATMOSPHERE** 204-WED-P1705-1182  
*GURYANOV VLADIMIR, Antonina Fahrutdinova*
- ADDITIONAL RADIATIVE COOLING OF THE MESOPAUSE REGION DUE TO SMALL-SCALE TEMPERATURE FLUCTUATIONS ASSOCIATED WITH GRAVITY WAVES** 204-WED-P1706-0944  
*ALEXANDER KUTEPOV, Uwe Berger, Artem Feofilov, Alexander Medvedev*
- SODIUM LIDAR MEASUREMENTS OF ZONAL MOMENTUM FLUX IN THE POLAR WINTER MESOPAUSE REGION** 204-WED-P1707-0951  
*BIFFORD P. WILLIAMS, David C. Fritts, Bernd Kaifler, Ulf-Peter Hoppe*
- WAVE ACTIVITY MANIFESTATION DURING WINTER STRATOSPHERIC WARMING ON LIDAR OBSERVATIONS** 204-WED-P1708-0962  
*Semyen V. Nikolashkin, S. V. Titov, V. M. Ignatyev*
- THE CAUSES OF THE ATMOSPHERIC HEATING** 204-WED-P1709-0434  
*CARLOS J. ZAMLUTTI*
- PECULIARITIES OF DYNAMICS OF THE GLOBAL ELECTRIC CIRCUIT ELEMENTS DURING VERY LOW SOLAR ACTIVITY** 204-WED-P1710-0111  
*Makarova Liudmila, Shirochkov Alexander*
- REPRESENTAION OF THE GLOBAL ATMOSPHERIC ELECTRIC CIRCUIT BY "EGATEC"** 204-WED-P1711-0908  
*ANNA ODZIMEK, Mark Lester*
- MODELLING THE EFFECT OF SOLAR AND GEOMAGNETIC ACTIVITY ON THE ELECTRIC CURRENTS IN THE GLOBAL ATMOSPHERIC ELECTRICAL CIRCUIT** 204-WED-P1712-0333  
*PETER TONEV, Peter Velinov*
- THE LOW IONOSPHERE ELECTRON DENSITY CHANGES DURING EVENTS OF THE EXTREME SOLAR ACTIVITY AS DEDUCED FROM VLF MEASUREMENTS** 204-WED-P1713-0341  
*ALEKSANDRA KOLARSKI, Vida Žigman, Davorka Grubor*
- VARIABILITY OF SPORADIC E LAYER IN MIDLATITUDES** 204-WED-P1715-0704  
*PETRA SAULLI, Dan Kouba, Alain Bourdillon, Josef Boska*
- GEONET-TEC OVER JAPAN DURING GEOMAGNETICALLY QUIET AND SEISMICALLY ACTIVE PERIOD** 204-WED-P1716-0298  
*ELVIRA ASTAFYEVA, Kosuke Heki*
- IONOSPHERE WAVE PACKETS EXCITED BY THE SOLAR TERMINATOR: AGW OR MHD ORIGIN?** 204-WED-P1717-0976  
*E. L. Afraimovich, Elvira I. Astafyeva, S. V. Voeykov, I. K. Edemskiy, Yu. V. Yasukevich*

<b>VERTICAL CHARACTERISTICS OF MIDLATITUDE E AND F REGION IONOSPHERIC DRIFTS</b>	204-WED-P1718-1069
<i>JOSEF BOŠKA, Daniel Kouba, Petra Šauli</i>	
<b>QUIET AND STORMY TIME foF2 AND hmF2 VARIABILITY OVER MIDDLE LATITUDES AS IT WAS OBSERVED AND MODELLED</b>	204-WED-P1719-0711
<i>DALIA BURESOVA, Lee-Anne McKinnell, Marta Mosert, Tereza Sindelarova, Jaroslav Chum</i>	
<b>THE OBSERVATION OF IONOSPHERE RESPONSE AT PARTIAL SOLAR ECLIPSES</b>	204-WED-P1720-0307
<i>IURI V. CHERNIAK, V. N. Lysenko</i>	
<b>PROPAGATION OF IONOSPHERIC DISTURBANCES AS MEASURED BY MULTIPOINT CONTINUOUS DOPPLER SOUNDING OVER THE CZECH REPUBLIC: FIRST RESULTS</b>	204-WED-P1721-0769
<i>JAROSLAV CHUM, F. Hruška, J. Laštovička, D. Burešová, T. Šindelářová</i>	
<b>IONOSPHERIC REFLECTION OF THE MAGNETIC ACTIVITY DESCRIBED BY THE NEW INDEX?</b>	204-WED-P1722-0698
<i>BEATA DZIAK-JANKOWSKA, Iwona Stanislawska, Tomasz Ernst</i>	
<b>DOPPLER TYPE OBSERVATIONS OF IONOSPHERIC WAVES EMITTED BY NATURAL SOURCES</b>	204-WED-P1723-0666
<i>TEREZA SINDELAROVA, Jaroslav Chum, Dalia Buresova</i>	
<b>SOME SIGNATURES OF THE STRATOSPHERE/ IONOSPHERE DYNAMICAL COUPLING AT MID-LATITUDES</b>	204-WED-P1724-1331
<i>GALINA GORDIYENKO</i>	
<b>THE PHOTON-PLASMON TRANSITIONS AND DIAGNOSTICS OF THE SPACE PLASMA TURBULENCE</b>	204-WED-P1725-0360
<i>OLGA KHETSELIUS, Alexander Glushkov</i>	
<b>NUMERICAL MODELING OF THE IONOSPHERIC EFFECTS OF SOLAR FLARES</b>	204-WED-P1726-0092
<i>VLADIMIR KLIMENKO, Yury Koren'kov, Maxim Klimenko</i>	
<b>MONITORING E-REGION PLASMA DRIFT MOTION</b>	204-WED-P1727-0683
<i>DANIEL KOUBA, Petra Sauli, Josef Boska, Tereza Sindelarova, Ondrej Santolik</i>	

## **II.05 Energetic particle precipitation into the atmosphere: sources and consequences**

Oral: WED26 10:30-12:00, 13:30-15:00, 15:30-17:00 Painter's Hall

Poster: WED26 17:00-19:00 Gimn. Halls, Level 1

- |       |   |                    |
|-------|---|--------------------|
| 10:30 | <b>MODELING WAVE-PARTICLE SCATTERING AND LOSS FROM THE RADIATION BELTS</b>  | 205-WED-O1030-0946 |
|       | <b>I RICHARD M THORNE</b>   |                    |
| 11:00 | <b>QUANTITATIVE LOSS RATE OF RADIATION BELT ELECTRONS DETERMINED FROM SAMPEX MEASUREMENTS AND MODELING</b><br><i>Xinlin Li, Weichao Tu, Mark Looper, Richard Selesnick</i>  | 205-WED-O1100-0528 |
| 11:15 | <b>SATELLITE AND GROUND BASED OBSERVATIONS OF A LARGE-SCALE ELECTRON PRECIPITATION EVENT</b><br><i>RORY GAMBLE, Craig Rodger, Mark Clilverd, Neil Thomson, Michel Parrot, Jean-Andre Sauvaud, Jean-Jacques Berthelier</i>   | 205-WED-O1115-0255 |
| 11:30 | <b>OBSERVATIONS OF ENERGETIC PARTICLE PRECIPITATION EFFECTS UPON THE MIDDLE ATMOSPHERE</b><br><i>ANNIKA SEPPÄLÄ, Pekka T. Verronen, Mark A. Clilverd, Craig J. Rodger, Cornelia E. Randall, Esa Turunen</i>   | 205-WED-O1130-1159 |
| 11:45 | <b>STATISTICAL EVALUATION OF UPPER MESOSPHERIC AND LOWER THERMOSPHERIC TEMPERATURE EFFECTS CAUSED BY ENERGETIC PARTICLE PRECIPITATION</b><br><i>H. NESSE TYSSØY, Johan Stadsnes, M. Sørbø, C. J. Mertens, D. S. Evans</i>   | 205-WED-O1145-1044 |
| 13:30 | <b>ENERGETIC ELECTRON LOSSES FROM THE RADIATION BELTS</b><br><b>I REINER FRIEDEL, Yue Chen, Tom Cayton</b>  | 205-WED-O1330-1269 |
| 14:00 | <b>POES SEM-2 OBSERVATIONS OF RADIATION BELT DYNAMICS AND ENERGETIC ELECTRON PRECIPITATION IN TO THE ATMOSPHERE</b><br><i>CRAIG J. RODGER, Mark A. Clilverd, Janet C. Green, Mai Mai Lam</i>  | 205-WED-O1400-0538 |
| 14:15 | <b>CORRECTED FLUXES OF MAGNETOSPHERIC ENERGETIC PARTICLES FOR 3 SOLAR CYCLES</b><br><i>TIMO ASIKAINEN, Kalevi Mursula, Ville Maliniemi</i>  | 205-WED-O1415-1085 |
| 14:30 | <b>WILL CLIMATE CHANGE INCREASE OZONE DEPLETION FROM LOW-ENERGY-ELECTRON PRECIPITATION?</b><br><i>ANDREAS J. G. BAUMGAERTNER, Patrick Jöckel</i>  | 205-WED-O1430-0521 |
| 14:45 | <b>PARTICLE PRECIPITATION TIED TO UNUSUAL VLF EMISSIONS</b><br><i>BRETT DELPORT, Andrew B Collier, Pieter H Stoker, Jyrki Manninen</i>  | 205-WED-O1445-0086 |
| 15:30 | <b>BALLOON OBSERVATIONS OF RELATIVISTIC ELECTRON PRECIPITATION AND THE BARREL EXPERIMENT</b><br><b>I ROBYN M. MILLAN, John G. Sample, Michael P. McCarthy, David M. Smith, Leslie A. Woodger, Jessica G. Hewitt, Max Comess, Xinqing Liang, Karl Yando, R. P. Lin, M. K. Hudson</b> | 205-WED-O1530-0872 |
| 16:00 | <b>EFFECTS OF ICMES AND CIRS ON ENERGETIC PARTICLE PRECIPITATION</b><br><i>NICOLA LONGDEN, Michael H. Denton, Farideh Honary</i>  | 205-WED-O1600-0847 |
| 16:15 | <b>THE IMPACT OF A RELATIVISTIC ELECTRON PRECIPITATION EVENT ON THE STRATOSPHERE</b><br><i>MARK A. CLILVERD, Annika Seppälä, Craig J. Rodger, Esa Turunen</i>   | 205-WED-O1615-0720 |
| 16:30 | <b>CORRELATIONS BETWEEN SAMPEX DETECTED RELATIVISTIC ELECTRON PRECIPITATION AND PERTURBATIONS IN GROUND BASED VLF SIGNALS DURING PERIODS OF EXTREME GEOMAGNETIC DISTURBANCE</b><br><i>Sarah L. Dietrich, CRAIG J. RODGER, Mark A. Clilverd, Jacob Bortnik, AARDDVARK team</i>       | 205-WED-O1630-1323 |
| 16:45 | <b>SURVEY OF ENERGETIC PARTICLE PRECIPITATION - AUTOMATIC DETECTION OF ENHANCED TRANSIENT IONISATION IN THE MESOSPHERE USING SUBIONOSPHERIC NARROW BAND VLF SIGNALS</b><br><i>PÉTER STEINBACH, János Lichtenberger, Csaba Ferencz</i>   | 205-WED-O1645-0284 |



**Poster Session (17:00-19:00)**

<b>ENERGETIC SOLAR PARTICLES DURING LAST 3 CYCLES</b> <i>AHMED A. HADY</i>	205-WED-P1700-0005
<b>RESPONSE OF THE ATMOSPHERE ON THE SECOND DAY AFTER PARTICLE PRECIPITATION</b> <i>IRINA A. MIRONOVA</i>	205-WED-P1701-0204
<b>INFLUENCE OF GEOMAGNETIC SUBSTORM ON COSMIC NOISE ABSORPTION AND ATMOSPHERIC ELECTRICITY AT A SUB-AURORAL LOCATION</b> <i>Anand K. Singh, BASHIR M. PATHAN, A. K. Sinha</i>	205-WED-P1702-0416
<b>GENERATION OF COUPLED MAGNETIC AND PARTICLE PC5 PULSATIONS AT THE RECOVERY PHASE OF THE STRONG MAGNETIC STORMS</b> <i>V. A. PILIPENKO, Vladimir B. Belakhovsky</i>	205-WED-P1703-0398
<b>RING CURRENT: AN ADDITIONAL HEAT SOURCE FOR THE NEUTRAL UPPER-ATMOSPHERE</b> <i>ERZSÉBET ILLÉS-ALMÁR</i>	205-WED-P1704-0079
<b>IONIZATION OF LOW-MID ATMOSPHERE DUE TO STRONG SOLAR PARTICLE EVENTS</b> <i>ILYA G. USOSKIN, A. J. Tylka, G. A. Kovaltsov, W. F. Dietrich</i>	205-WED-P1705-0209
<b>GEOMAGNETIC ACTIVITY AND POLAR SURFACE AIR TEMPERATURE VARIABILITY</b> <i>ANNIKA SEPPÄLÄ, Cora E. Randall, Mark A. Clilverd, Eugene Rozanov, Craig J. Rodger</i>	205-WED-P1706-0301
<b>IONOSPHERIC SIGNATURES OF SOLAR FLARES</b> <i>ETIENNE KOEN, Andrew Collier</i>	205-WED-P1707-0508
<b>LONG DISTANCE MONITORING OF THE LOWER IONOSPHERE: THE GLOBAL AARDDVARK SENSORS</b> <i>CRAIG J. RODGER, Mark A. Clilverd, AARDDVARK team</i>	205-WED-P1708-0537
<b>BEAM PATTERN CALIBRATION OF THE HALLEY (76S, 27W) IMAGING RIOMETER</b> <i>TRACY MOFFAT-GRIFFIN, Robert E Hibbins, Martin J Jarvis</i>	205-WED-P1709-0732
<b>VLF RADIO PROPAGATION CONDITIONS: COMPUTATIONAL ANALYSIS TECHNIQUES</b> <i>SHERRY BREMNER, Andrew Collier</i>	205-WED-P1710-0351
<b>ON THE NEAR GROUND LEVEL ELECTRIC FIELD RESPONSE TO FORBUSH DECREASES AT SWIDER OBSERVATORY</b> <i>Z. Kobylinski, M. Kubicki, S. Michnowski</i>	205-WED-P1711-0344
<b>FRACTAL FEATURES IN THE TURBULENT PULSATIONS OF COSMIC PLASMA AND PLANETARY ATMOSPHERE SYSTEM</b> <i>OLGA KHETSELIUS</i>	205-WED-P1713-0358
<b>ROCKET-BASED MEASUREMENTS OF ION VELOCITY, NEUTRAL WIND AND ELECTRIC FIELD IN THE COLLISIONAL TRANSITION REGION OF THE AURORAL IONOSPHERE</b> <i>LAURELINE SANGALLI, D. Knudsen, M. Larsen, T. Zhan, R. Pfaff, D. Rowland</i>	205-WED-P1714-0798
<b>ENHANCED AURORA AND INSTABILITIES IN THIN, DENSE, HEAVY ION IONIZATION LAYERS</b> <i>JAY R. JOHNSON, Edgar Choueiri</i>	205-WED-P1715-0930
<b>PARTICLE ENERGIZATION IN DIAMAGNETIC REGIONS</b> <i>ANTONIUS OTTO, Eric Adamson, Katariina Nykyri</i>	205-WED-P1716-1260

## ***II.06 Equatorial atmosphere-ionosphere interactive processes: vertical and latitudinal coupling and magnetospheric forcing***

Oral: FRI28 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 Theatre

Oral: SAT29 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 Theatre

Poster: FRI28 17:00-19:00 Gimn. Halls, Level 1

- |       |  |                    |
|-------|--|--------------------|
| 08:30 | <b>THE IONOSPHERE UNDER AN EXTREMELY QUIET SUN</b>   | 206-FRI-O0830-0631 |
| I     | ROD A. HEELIS  |                    |
| 09:00 | <b>CURRENT SYSTEM IN THE DAYTIME AND POST-SUNSET IONOSPHERE</b>  | 206-FRI-O0900-0947 |
|       | <i>TZU-WEI FANG, Arthur Richmond, Jann-Yenq Liu, Astrid Maute</i>  |                    |
| 09:15 | <b>EQUATORIAL IONIZATION ANOMALY: THE ROLE OF THERMOSPHERIC WINDS AND THE EFFECTS OF THE GEOMAGNETIC FIELD SECULAR VARIATION</b>   | 206-FRI-O0915-0619 |
| I     | INEZ S. BATISTA, Erica M. Diogo, Jonas R. Souza, M. A. Abdu, G. J. Bailey  |                    |
| 09:45 | <b>GLOBAL OBSERVATIONS OF THE EQUATORIAL IONOSPHERE BY UV REMOTE SENSING</b>   | 206-FRI-O0945-0744 |
|       | <i>LARRY PAXTON, Joseph Comberiate, Hyosub Kil, Robert Schaefer, Brian Wolven, Yongliang Zhang, Daniel Morrison</i>  |                    |
| 10:30 | <b>FAST THERMOSPHERIC WIND JET AT THE EARTH'S DIP EQUATOR</b>  | 206-FRI-O1030-0590 |
|       | <i>SHIGETO WATANABE, Huixin Liu, Tsutomu Kondo</i>   |                    |
| 10:45 | <b>A SOLAR TERMINATOR WAVE IN THERMOSPHERIC WIND AND DENSITY SIMULTANEOUSLY OBSERVED BY CHAMP</b>  | 206-FRI-O1045-0618 |
|       | <i>HUIXIN LIU, HERMANN LUEHR, SHIGETO WATANABE</i>   |                    |
| 11:00 | <b>GLOBAL/SEASONAL/LOCAL-TIME VARIATIONS OF ION DENSITY STRUCTURE AT LOW-LATITUDE IONOSPHERE AND THEIR RELATIONSHIP TO THE POST-SUNSET EQUATORIAL IRREGULARITY OCCURRENCES</b> | 206-FRI-O1100-0022 |
|       | <i>SHIN-YI SU, M. Q. Chen, C. K. Cha, and C. H. Liu</i>  |                    |
| 11:15 | <b>THREE-DIMENSIONAL SIMULATION OF THE COUPLED PERKINS AND ES LAYER INSTABILITIES IN THE NIGHTTIME MIDLATITUDE IONOSPHERE</b>  | 206-FRI-O1115-0916 |
|       | <i>TATSUHIRO YOKOYAMA, David L. Hysell, Yuichi Otsuka, Mamoru Yamamoto</i>   |                    |
| 11:30 | <b>LONGITUDINAL STATISTICS OF THE TOPSIDE HE<sup>+</sup> DENSITY DEPLETIONS AND THE EQUATORIAL F-REGION IRREGULARITIES: COMPARISON STUDY</b>                                   | 206-FRI-O1130-0103 |
|       | <i>LARISSA SIDOROVA</i>  |                    |
| 11:45 | <b>ROLE OF METEORIC DUST IN THE E-REGION DYNAMICS</b>  | 206-FRI-O1145-0536 |
|       | <i>POLINAYA MURALIKRISHNA, V. H. Kulkarni</i>  |                    |
| 13:30 | <b>LONGITUDINAL STRUCTURE OF THE MID- AND LOW-LATITUDE IONOSPHERE OBSERVED BY FORMOSAT-3/COSMIC AND GPS NETWORK</b>  | 206-FRI-O1330-1168 |
| I     | CHARLES LIN, J. Y. Tiger Liu, C. H. Chen, C. H. Liu, H. F. Tsai  |                    |
| 14:00 | <b>THE CAUSAL LINK OF THE DE-3 TIDE, VERTICAL DRIFT, AND PLASMA DENSITY</b>  | 206-FRI-O1400-0714 |
| I     | HYOSUB KIL, Tzu-Wei Fang, Seung-Jun Oh, Elsayed Talaat, Larry Paxton   |                    |
| 14:30 | <b>THE EFFECT OF SOLAR CYCLE ON THE COUPLING BETWEEN THE LOWER ATMOSPHERE AND IONOSPHERE</b>   | 206-FRI-O1430-1333 |
|       | <i>ELSAIED R. TALAAT</i>   |                    |
| 14:45 | <b>EQUATORIAL COUNTER ELECTROJETS AND POLAR STRATOSPHERIC SUDDEN WARMINGS - STUDY OF THE VERTICAL AND LATERAL COUPLING IN THE EQUATORIAL IONOSPHERE</b>                        | 206-FRI-O1445-0195 |
|       | <i>TARUN KUMAR PANT, C. Vineeth, R. Sridharan</i>  |                    |

- 15:30 **LONGITUDINAL DIFFERENCE OF THE MESOSPHERE/LOWER** 206-FRI-O1530-1228  
**I THERMOSPHERE STRUCTURES OBSERVED WITH GROUND-BASED**  
**LIDAR, AIRGLOW AND RADAR MEASUREMENTS BETWEEN JAPAN**  
**(~135E) AND COLORADO (~105W)**  
TAKUJI NAKAMURA, M. K. Ejiri, J. Yue, C.-Y. She, T. D. Kawahara, K.  
Shiokawa, S. Suzuki
- 16:00 **SEISMO-IONOSPHERIC GPS TEC ANOMALIES OBSERVED BEFORE** 206-FRI-O1600-1173  
**THE 12 MAY 2008 MW 7.9 WENCHUAN EARTHQUAKE**  
J. Y. TIGER LIU, Y. I. Chen, K. I. Oyama, K. Hattori, C. H. Lin
- 16:15 **THE IONOSPHERIC DISTURBANCES OBSERVED PRIOR TO** 206-FRI-O1615-0240  
**SUMATRA TSUNAMI AND THEIR POSSIBLE ASSOCIATION WITH**  
**PRE-TSUNAMI ACTIVITY**  
Esfhan Alam Kherani, P. Lognonne, E. R. de Paula, H. Herbert
- 16:30 **ABOUT THE POSSIBLE MECHANISM OF FORMATION OF** 206-FRI-O1630-0175  
**EARTHQUAKE IONOSPHERIC PRECURSORS IN WENCHUAN**  
MAXIM KLIMENKO, Vladimir Klimenko, Biqiang Zhao, Irina Zakharenkova,  
Dimitar Ouzounov
- 16:45 **Discussion**
- 08:30 **GRAVITY WAVE COUPLING FROM LOWER ALTITUDES INTO THE** 206-SAT-O0830-0919  
**I THERMOSPHERE AND IONOSPHERE: ANTICIPATED NEUTRAL**  
**AND PLASMA RESPONSES**  
DAVID FRITTS
- 09:00 **THE RESPONSE OF THE THERMOSPHERE AND IONOSPHERE TO** 206-SAT-O0900-0474  
**THE DISSIPATION OF GRAVITY WAVES GENERATED FROM DEEP**  
**CONVECTION**  
Sharon L. Vadas, H.-Li Liu
- 09:15 **CHARACTERISTICS OF EQUATORIAL GRAVITY WAVES DERIVED** 206-SAT-O0915-1104  
**FROM MESOSPHERIC AIRGLOW IMAGING OBSERVATIONS**  
SHIN SUZUKI, Kazuo Shiokawa, Alan Z. Liu, Yuichi Otsuka, Tadahiko Ogawa,  
Takuji Nakamura
- 09:30 **MESOSPHERE-IONOSPHERE COUPLING LOOKING FROM** 206-SAT-O0930-0420  
**I PENETRATION OF GRAVITY WAVES IN THE EQUATORIAL REGION**  
HISAO TAKAHASHI, C. M. Wrasse, M. J. Taylor, P. D. Pautet, A. F. Medeiros,  
D. Gobbi, M. A. Abdu, I. S. Batista, E. Paula, J.H.A. Sobral, S. L. Vadas, D. Fritts
- 10:30 **THE ROLE OF UPWARD PROPAGATING WAVES IN THE** 206-SAT-O1030-0597  
**EQUATORIAL SPREAD F DAY-TO-DAY VARIABILITY**  
MANGALATHAYIL A. ABDU, E. A. Kherani, C. G. M. Brum, I. S. Batista, J. H.  
A. Sobral
- 10:45 **CLIMATOLOGY OF THE ~5-DAY ROSSBY AND ~6-DAY KELVIN** 206-SAT-O1045-0117  
**I WAVES SEEN IN THE SABER/TIMED TEMPERATURES (2002-2007)**  
DORA PANCHEVA, Plamen Mukhtarov, Borislav Andonov
- 11:15 **PLANETARY WAVE COUPLING OF EQUATORIAL ATMOSPHERE-** 206-SAT-O1115-0279  
**I IONOSPHERE SYSTEM DURING FEBRUARY-APRIL 2008: RESULTS**  
**FROM A CAUSES-INDIA CAMPAIGN**  
GURUBARAN SUBRAMANIAN, R. Dhanya, S. Sathishkumar
- 11:45 **VARIABILITIES OF MESOSPHERIC TIDES AND EQUATORIAL** 206-SAT-O1145-1360  
**ELECTROJET STRENGTH DURING SUDDEN STRATOSPHERIC**  
**WARMING EVENTS**  
S. Sathishkumar, S. Sridharan, S. Gurubaran
- 13:30 **PENETRATION OF MAGNETOSPHERIC ELECTRIC FIELDS TO THE** 206-SAT-O1330-0603  
**I LOW LATITUDE IONOSPHERE DURING GEOMAGNETIC STORMS**  
TAKASHI KIKUCHI, Kumiko K. Hashimoto, Atsuki Shinbori, Yuji Tsuji, Shin-  
Ichi Watari

14:00	<b>EFFECTS OF PROMT PENETRATION ELECTRIC FIELD AND I NEUTRAL WIND DYNAMO ON THE IONOSPHERE AND THERMOSPHERE: A COMPARATIVE STUDY OF OBSERVATIONS AND SIMULATIONS</b> <i>GANG LU</i>	206-SAT-O1400-0591
14:30	<b>F3 LAYER AS AN INDICATOR OF PROMPT PENETRATION ELECTRIC FIELD</b> <i>NANAN BALAN, K. Shiokawa, Y. Otsuka, T. Kikuchi</i>	206-SAT-O1430-0037
14:45	<b>COMPARISON OF SIMULATION RESULTS OF THE IONOSPHERIC EFFECTS OF GEOMAGNETIC STORM SEQUENCE ON SEPTEMBER, 9-14, 2005 WITH EXPERIMENTAL DATA</b> <i>Maxim Klimenko, VLADIMIR KLIMENKO, Konstantin Ratovsky, Larisa Goncharenko</i>	206-SAT-O1445-0176
15:30	<b>EQUATORIAL PLASMA BUBBLE DEVELOPMENT DUE TO I MAGNETOSPHERIC FORCING</b> <i>ARCHANA BHATTACHARYYA, Bharati Kakad, S. Sripathi, Divakar Tiwari</i>	206-SAT-O1530-1052
16:00	<b>SPATIAL AND TEMPORAL DEPENDENCE OF STORM-TIME TEC GRADIENTS AND L-BAND SCINTILLATIONS</b> <i>MARCIO MUELLA, Alam Kherani, Eurico de Paula, Paul Kintner, Ivan Kantor, Cathryn Mitchell, Inez Batista</i>	206-SAT-O1600-0053
16:15	<b>A DETAILED DISCUSSION OF EFFECTS OF GEOMAGNETIC STORMS ON THE DYNAMICS AND ELECTRODYNAMICS OF THE EQUATORIAL UPPER ATMOSPHERE</b> <i>ENIVALDO BONELLI</i>	206-SAT-O1615-1273
16:30	<b>DIRECT RESPONSE TO PROMPT PENETRATION ELECTRIC FIELD IN LOW LATITUDE IONOSPHERE AND COMPLEX INTERPLAY OF TIDS AND FOUNTAIN EFFECT</b> <i>Nirvikar Dashora, R. S. Dabas, S. Alex, R. Pandey</i>	206-SAT-O1630-1179
16:45	<b>UNUSUAL OBSERVATION OF FILAMENTARY STRUCTURES IN OI 557.7 nm EMISSION OVER PANHALA (17° N, 74.2° E GEOGRAPHIC; 8.43° N GEOMAGNETIC LATITUDE) DURING A MODERATE MAGNETIC STORM</b> <i>VISWANATHAN LAKSHMI NARAYANAN, S. Gurubaran, K. Emperumal</i>	206-SAT-O1645-0213

**Poster Session (17:00-19:00)**

- SOLAR FLUX EFFECTS ON THE PREREVERSAL VERTICAL DRIFT FOR SOLAR MINIMUM CONDITIONS: A COMPARISON BETWEEN OBSERVATIONAL DATA AND IRI MODEL** 206-FRI-P1700-0334  
*ÂNGELA M. SANTOS, MANGALATHAYIL A. ABDU, PAULO A. B. NOGUEIRA*
- I A STUDY OF THE EQUATORIAL IONIZATION ANOMALY AND THERMOSPHERIC MERIDIONAL WINDS DURING QUIET AND DISTURBED PERIODS OVER BRAZILIAN LOW LATITUDES** 206-FRI-P1701-0343  
*PAULO A. B. NOGUEIRA, MANGALATHAYIL A. ABDU, INEZ S. BATISTA, ÂNGELA M. SANTOS*
- EFFECTS OF PRESSURE-GRADIENT FORCE AND TEMPERATURE ON THE NONLINEAR COLLISIONAL-INTERCHANGE INSTABILITY IN THE F REGION: ELECTROMAGNETIC EFFECTS** 206-FRI-P1702-0262  
*FRANCISCO C. DE MENESES, E. Alam Kherani, Polinaya Muralikrishna, Eurico R. de Paula*
- IONOSPHERIC CONDITIONS AFFECTING THE MORPHOLOGY OF PLASMA BUBBLES IN THE TROPICAL REGION** 206-FRI-P1703-0146  
*MAÍRA MAESTRI, Alexandre Pimenta*
- SIMULTANEOUS MEASUREMENTS OF DARK BAND STRUCTURES IN THE OI 630 nm EMISSION ALL-SKY IMAGES ASSOCIATED WITH RAYLEIGH-TAYLOR INSTABILITY AND PERKINS INSTABILITY** 206-FRI-P1704-0169  
*LINDALVA LOPES, A. A. Pimenta*
- TOPSIDE PLASMA BUBBLES, SEEN AS HE<sup>+</sup> DENSITY DEPLETIONS, AND THERMOSPHERE MERIDIONAL WIND INFLUENCE** 206-FRI-P1705-0128  
*LARISSA SIDOROVA, Sergey Filippov*
- RELEVANT ASPECTS OF THERMOSPHERIC DARK BAND STRUCTURE RELATED WITH MIDLATITUDES SPREAD F OBSERVED BY ALL-SKY IMAGING SYSTEM IN THE SOUTHERN HEMISPHERE OVER TWO FULL SOLAR CYCLE** 206-FRI-P1706-0133  
*DANIELLE AMORIM, Alexandre Pimenta*
- FORMATION OF LARGE-SCALE LATITUDINAL IRREGULARITIES OF ELECTRON DENSITY IN THE EARTH'S IONOSPHERE** 206-FRI-P1707-0090  
*MAXIM KLIMENKO, Vladimir Klimenko*
- MODELING THE EASTWARD EQUATORIAL ELECTRIC FIELD USING CHAMP MAGNETOMETER DATA** 206-FRI-P1708-0933  
*Patrick Alken, S. Maus, C. Manoj*
- GPS SCINTILLATION AT TWO LOW MAGNETIC LATITUDE STATIONS IN BRAZIL DURING THE 2008-2009 PROLONGED SOLAR MINIMUM** 206-FRI-P1709-1120  
*ENIVALDO BONELLI, R. Y. L. C. Cueva, E. R. de Paula*
- CONJUGATE POINT OBSERVATIONS OF KILOMETER AND METER SCALES IRREGULARITY ZONAL DRIFT VELOCITIES** 206-FRI-P1710-0054  
*MARCIO MUELLA, Eurico de Paula, Jose Humberto Sobral, Keith Groves*
- THE PROPERTIES AND SOURCES OF GRAVITY WAVES DETECTED BY THE TIDDBIT SOUNDER OVER WALLOPS ISLAND ON 30 OCTOBER, 2007** 206-FRI-P1711-0518  
*Sharon L. Vadas, G. Crowley*
- OBSERVATIONAL EVIDENCE FOR MESOSPHERE-IONOSPHERE COUPLING THROUGH LONG-PERIOD OSCILLATIONS** 206-FRI-P1712-1289  
*LOURIVALDO M. LIMA, Inez S. Batista, Mangalathayil A. Abdu, Paulo P. Batista, Barclay R. Clemesha, Hisao Takahashi*
- COMPARISON OF MODEL CALCULATION RESULTS AND DATA OBSERVATION OF IONOSPHERIC PRECURSORS OF STRONG EARTHQUAKE IN VANIMO ON JULY, 16, 1980** 206-FRI-P1713-0091  
*Maxim Klimenko, VLADIMIR KLIMENKO, Sergei Pulnits*

<b>STUDIES OF THE SPACE WEATHER EFFECTS ON THE IONOSPHERIC ENVIRONMENT AT THE BRAZILIAN SECTOR DURING DISTURBED PERIODS AS SEEN IN THE E-REGION PARAMETERS</b> <i>LAYSA C. A. RESENDE, Clezio M. Denardini, Lais M. Guizelli, Pedro S. C. Almeida, Henrique C. Aveiro</i>	206-FRI-P1714-0332
<b>INTERPLANETARY MAGNETIC AND ELECTRIC FIELDS: DETERMINANTS FOR THE DEVELOPMENT OF IONOSPHERE SUPERSTORMS?</b> <i>ELVIRA ASTAFYEVA, Pavel Tatarinov</i>	206-FRI-P1716-0304
<b>MONITORING OF IONOSPHERIC WEATHER OVER CYPRUS AND EGYPT: FIRST RESULTS</b> <i>HARIS HARALAMBOUS, A. Mahrous, P. Vryonides, A. Shemis</i>	206-FRI-P1717-1230

## ***II.07 Forcing of the middle and high latitude thermosphere from above and below***

Oral: MON24 09:30-10:00, 10:30-12:00 Painter's Hall

Poster: MON24 17:00-19:00 Gimn. Halls, Level 1

- 09:30 **MODELING THE COUPLED THERMOSPHERE-IONOSPHERE** 207-MON-O0930-0359  
**I SYSTEM RESPONSE TO EXTERNAL FORCING**  
*Naomi Maruyama, T. Fuller-Rowell, M. Codrescu, M. Fedrizzi, G. Millward*
- 10:30 **NONMIGRATING TIDAL SIGNALS IN THE THERMOSPHERIC** 207-MON-O1030-0159  
**I ZONAL WIND AS SEEN BY CHAMP AND TIME-GCM**  
*KATHRIN HÄUSLER, Hermann Lühr, Maura Hagan, Astrid Maute, Ray Roble*
- 11:00 **TRISTATIC OBSERVATIONS OF THERMOSPHERIC WIND** 207-MON-O1100-1280  
**DIVERGENCE AND VORTICITY IN ALASKA**  
*JOHN W. MERIWETHER, M. F. Larsen*
- 11:15 **POLAR CAP THERMOSPHERE DURING SOLAR MINIMUM** 207-MON-O1115-0390  
**CONDITION**  
*QIAN WU*
- 11:30 **COORDINATED MEASUREMENTS OF MESOSPHERIC GRAVITY** 207-MON-O1130-1109  
**WAVES DURING A MULTI-INSTRUMENT/-STATION**  
**OBSERVATION CAMPAIGN IN JAPAN**  
*SHIN SUZUKI, Takuji Nakamura, Mitsumu K. Ejiri, Masaki Tsutsumi, Kazuo Shiokawa, Taku D. Kawahara*
- 11:45 **SEASONAL DEPENDENCE OF THE NORTH-SOUTH ASYMMETRY IN** 207-MON-P1145-0080  
**THE NEUTRAL UPPER-ATMOSPHERE**  
*ERZSÉBET ILLÉS-ALMÁR*
- 11:50 **ATMOSPHERIC AND GEOMAGNETIC INFLUENCE ON** 207-MON-P1150-0996  
**THERMOSPHERIC ELECTRON DENSITIES INVESTIGATED BY**  
**OBLIQUE RADIO SOUNDING**  
*D. Neudegg, M. Layoun, S. Hutchinson, M. Hyde, C. Thomson, RICHARD MARSHALL*

### ***Poster Session (17:00-19:00)***

- SEASONAL DEPENDENCE OF THE NORTH-SOUTH ASYMMETRY IN** 207-MON-P1145-0080  
**THE NEUTRAL UPPER-ATMOSPHERE**  
*ERZSÉBET ILLÉS-ALMÁR*
- ATMOSPHERIC AND GEOMAGNETIC INFLUENCE ON** 207-MON-P1150-0996  
**THERMOSPHERIC ELECTRON DENSITIES INVESTIGATED BY**  
**OBLIQUE RADIO SOUNDING**  
*D. Neudegg, M. Layoun, S. Hutchinson, M. Hyde, C. Thomson, RICHARD MARSHALL*

## **II.08 Remote sensing of the plasmasphere, and coupling to the ionosphere**

Oral: FRI28 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 Painter's Hall

Poster: FRI28 17:00-19:00 Gimn. Halls, Level 1

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| 08:30 | <b>EMPIRICAL ELECTRON DENSITY MODELS FOR THE INNER I MAGNETOSPHERE</b>   | 208-FRI-O0830-0839 |
|       | <i>BODO REINISCH, Patrick Nsumei, Xueqin Huang, Jiannan Tu</i>   |                    |
| 09:00 | <b>REVIEW OF RECENT RESULTS ON THE PLASMASPHERE BY THE CLUSTER AND IMAGE MISSION</b>   | 208-FRI-O0900-1091 |
|       | <i>Fabien Darrouzet, JOHAN DE KEYSER, Viviane Pierrard</i>   |                    |
| 09:15 | <b>SIMULTANEOUS OBSERVATION OF PLASMASPHERIC REFILLING USING ULF AND HE+ IMAGING DATA</b>  | 208-FRI-O0915-0875 |
|       | <i>YUKI OBANA, Frederick W. Menk, Ichiro Yoshikawa</i>   |                    |
| 09:30 | <b>IONOSPHERIC CONTROL OF INTERNAL PLASMASPHERIC DENSITY DURING MAGNETIC STORMS</b>  | 208-FRI-O0930-1283 |
|       | <i>PETER J. CHI, J. Tu, M. Spasojevic</i>  |                    |
| 10:30 | <b>RECENT RESULTS FROM SPECTROGRAPHIC CORRELATION OF I WHISTLER-MODE SIGNALS AT DUNEDIN, NZ</b>  | 208-FRI-O1030-0149 |
|       | <i>NEIL R. THOMSON, Mark A. Clilverd, Keith H. Yearby</i>  |                    |
| 11:00 | <b>MONITORING OF THE COLD ELECTRON DENSITY OF THE PLASMASPHERE BY AUTOMATIC WHISTLER DETECTOR AND ANALYZER SYSTEMS? NETWORK (AWDANET)</b>                | 208-FRI-O1100-0201 |
|       | <i>JÁNOS LICHTENBERGER, AWDANet Team</i>   |                    |
| 11:15 | <b>THE AUTOMATIC WHISTLER DETECTOR: PRELIMINARY RESULTS FROM ROTHERA (ANTARCTICA)</b>  | 208-FRI-O1115-0718 |
|       | <i>MARK A. CLILVERD, János Lichtenberger, Neil Cobbett</i>   |                    |
| 11:30 | <b>CORRELATION ANALYSIS OF DUNEDIN WHISTLERS AND GLOBAL LIGHTNING</b>  | 208-FRI-O1130-0380 |
|       | <i>ANDREW B. COLLIER, J. Lichtenberger, A. R. W. Hughes, C. J. Rodger, G. McDowell, J. R. Downs</i>  |                    |
| 11:45 | <b>Discussion</b>  |                    |
| 13:30 | <b>REMOTE SENSING OF THE PLASMASPHERE MASS DENSITY BY I GEOMAGNETIC FIELD LINE RESONANCES DETECTED AT SEGMA ARRAY DURING THE LAST SOLAR CYCLE</b>        | 208-FRI-O1330-1033 |
|       | <i>MASSIMO VELLANTE, Matthias Förster, Michael Pezzopane, Lee-Anne McKinnell, Norbert Jakowski</i>   |                    |
| 14:00 | <b>THE LONGITUDINAL AND SEASONAL VARIATION IN PLASMASPHERIC DENSITY</b>  | 208-FRI-O1400-0816 |
|       | <i>FREDERICK MENK, Sean Ables, Mark Clilverd, Russell Grew</i>   |                    |
| 14:15 | <b>SOLAR CYCLE AND SEASONAL VARIATION OF PLASMA MASS DENSITY INFERRED FROM ULF AND VLF OBSERVATIONS AT LOW LATITUDES</b>                                 | 208-FRI-O1415-0319 |
|       | <i>BALÁZS HEILIG, János Lichtenberger, Peter Sutcliffe, József Verő, Pál Bencze, László Merényi, András Csontos, Péter Kovács, Christopher Ndiitwani</i> |                    |
| 14:30 | <b>MODULATION OF NTC FREQUENCIES BY PC5 ULF PULSATIONS: EXPERIMENTAL TEST OF THE GENERATION MECHANISM AND MAGNETOSEISMOLOGY OF THE EMITTING SURFACE</b>  | 208-FRI-O1430-1221 |
|       | <i>Sandrine Grimald, CLAIRE FOULLON, P. M. E. Décréau, G. Lerouzac, X. Surraud, X. Vallières</i>   |                    |



- 15:30 **COMPARISON THE HYPERFINE STRUCTURE OF WHISTLERS MEASURED SIMULTANEOUSLY ON GROUND STATION AND ON BOARD OF DEMETER SATELLITE** 208-FRI-O1530-0233  
*DÁNIEL HAMAR, Cs. Ferencz, P. Steinbach, J. Lichtenberger, O. E. Ferencz, M. Parrot*
- 15:45 **VLF REMOTE SENSING OF LOWER IONOSPHERE DISTURBANCES AT A MEDIUM LATITUDE SITE AND THEIR CORRELATION WITH HIGH ENERGY ELECTRON FLUX** 208-FRI-O1545-0405  
*ERNST D. SCHMITTER*
- 16:00 **SIMULATIONS OF SELF-CONSISTENT RADIOWAVE DAMPING BY AN ARTIFICIAL IONOSPHERE TURBULENCE** 208-FRI-O1600-0710  
*ANDREY V. KOCHETOV*
- 16:15 **THE PLASMASPHERE AS A SOURCE OF THE MAINTENANCE OF THE NIGHT-TIME IONOSPHERIC F2-LAYER: MATHEMATICAL MODELING** 208-FRI-P1615-0217  
*MARIA A. KNYAZEVA, Alexander A. Namgaladze, Oleg V. Martynenko*
- 16:20 **CHARACTERISTICS OF VLF ATMOSPHERICS NEAR THE RESONANCE FREQUENCY OF EARTH-IONOSPHERE WAVEGUIDE 1.6-2.3 kHz BY OBSERVATIONS IN THE AURORAL REGION** 208-FRI-P1620-0616  
*Alexander Ostapenko, Elena Titova, Tauno Turunen, JYRKI MANNINEN, Tero Raita*
- 16:25 **GLOBAL IMAGES OF THE PLASMASPHERE FROM THE MERIDIAN PERSPECTIVE OBSERVED BY KAGUYA** 208-FRI-P1625-0621  
*GO MURAKAMI, Ichiro Yoshikawa, Yuki Obana, Kazuo Yoshioka, Gentaro Ogawa, Atsushi Yamazaki, Masato Kagitani, Makoto Taguchi, Masayuki Kikuchi*
- 16:30 **Discussion**

**Poster Session (17:00-19:00)**

- THE PLASMASPHERE AS A SOURCE OF THE MAINTENANCE OF THE NIGHT-TIME IONOSPHERIC F2-LAYER: MATHEMATICAL MODELING** 208-FRI-P1615-0217  
*MARIA A. KNYAZEVA, Alexander A. Namgaladze, Oleg V. Martynenko*
- CHARACTERISTICS OF VLF ATMOSPHERICS NEAR THE RESONANCE FREQUENCY OF EARTH-IONOSPHERE WAVEGUIDE 1.6-2.3 kHz BY OBSERVATIONS IN THE AURORAL REGION** 208-FRI-P1620-0616  
*Alexander Ostapenko, Elena Titova, Tauno Turunen, JYRKI MANNINEN, Tero Raita*
- GLOBAL IMAGES OF THE PLASMASPHERE FROM THE MERIDIAN PERSPECTIVE OBSERVED BY KAGUYA** 208-FRI-P1625-0621  
*GO MURAKAMI, Ichiro Yoshikawa, Yuki Obana, Kazuo Yoshioka, Gentaro Ogawa, Atsushi Yamazaki, Masato Kagitani, Makoto Taguchi, Masayuki Kikuchi*

## **DIVISION III**

### **III.01 Magnetopause and magnetosheath processes: reconnection, diffusion and boundary dynamics**

Oral: MON24 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 LFCCC Petőfi

Poster: MON24 17:00-19:00 Gimn. Halls, Level 0

- |       |   |                    |
|-------|---|--------------------|
| 08:30 | <b>MAGNETIC TOPOLOGY OF THE MAGNETOPAUSE AND LOW-LATITUDE BOUNDARY LAYER DEDUCED FROM THEMIS HIGH-RESOLUTION ELECTRON AND ION MEASUREMENTS</b><br><i>MARIT ØIEROSET, Tai Phan, Masaki Fujimoto, Vassilis Angelopoulos, Jim McFadden, Davin Larson, Karl-Heinz Glassmeier</i>  | 301-MON-O0830-0884 |
| 09:00 | <b>IMF ORIENTATION AND REFORMATION OF MAGNETOPAUSE LAYERS</b><br><i>OKSANA TKACHENKO, Jana Šafránková, Zdeněk Němeček</i>   | 301-MON-O0900-1050 |
| 09:15 | <b>TOWARDS LOCATING STABLE RECONNECTION AT THE DAYSIDE MAGNETOPAUSE DURING SOUTHWARD IMF</b><br><i>STEVEN PETRINEC, Karlheinz Trattner, and Stephen Fuselier</i>  | 301-MON-O0915-0924 |
| 09:30 | <b>INTERACTION OF INTERPLANATARY SHOCKS WITH THE MAGNETOSPHERE IN OBSERVATIONS AND MHD MODELS</b><br><i>Zdenek Nemecek, Jana Safrankova, Andrei Samsonov</i>  | 301-MON-O0930-0585 |
| 09:45 | <b>MAGNETOPAUSE PRESSURE BALANCE IN SUBSOLAR POINT DURING NORTHWARD IMF ORIENTATION AND HIGH LEVEL OF TURBULENCE IN MAGNETOSHEATH IN ACCORDANCE WITH THEMIS DATA</b><br><i>SVETLANA ROSSOLENKO, Elizabeth Antonova, Igor Kirpichev</i>  | 301-MON-O0945-0031 |
| 10:30 | <b>SOLAR WIND PLASMA ENTRY INTO THE EARTH'S PLASMA SHEET FOR NORTHWARD IMF</b><br><i>ANTINIUS OTTO</i>  | 301-MON-O1030-1254 |
| 11:00 | <b>FORMATION OF A BROAD PLASMA MIXING LAYER BY FORWARD AND INVERSE CASCADES OF THE KELVIN-HELMHOLTZ INSTABILITY</b><br><i>YOSUKE MATSUMOTO, Kanako Seki</i>   | 301-MON-O1100-1164 |
| 11:15 | <b>DAYSIDE MAGNETOPAUSE BOUNDARY LAYERS UNDER NORTHWARD IMF: RESULTS FROM THEMIS AND MHD SIMULATIONS</b><br><i>Wenhui Li, JOACHIM RAEDER, Marit Øieroset, Tai Phan</i>  | 301-MON-O1115-0627 |
| 11:30 | <b>INFERRING GLOBAL RECONNECTION TOPOLOGY FROM KINETIC SIGNATURES INSIDE KELVIN-HELMHOLTZ VORTICES</b><br><i>M. B. BAVASSANO CATTANEO, M. F. Marcucci, Y. V. Bogdanova, H. Rème, I. Dandouras, L. M. Kistler, E. Lucek</i>  | 301-MON-O1130-0673 |
| 11:45 | <b>HEAVY ION EFFECTS ON MAGNETOPAUSE TRANSPORT PROCESSES</b><br><i>JAY R. JOHNSON, Simon Wing, Yu Lin, and Eun-Hwa Kim</i>  | 301-MON-O1145-0927 |
| 13:30 | <b>THE MICROPHYSICS OF MAGNETIC RECONNECTION IN SPACE PLASMAS: IN-SITU OBSERVATIONS AT THE TERRESTRIAL MAGNETOPAUSE AND MAGNETOSHEATH</b><br><i>ALESSANDRO RETINÒ, A. Vaivads, Y. Khotyaintsev, M. André, G. Stenberg, F. S. Mozer, D. Sundkvist, K. Tanaka, H. Hasegawa, M. Fujimoto, R. Nakamura, W. Baumjohann</i> | 301-MON-O1330-0622 |
| 14:00 | <b>ELECTRON ACOUSTIC DOUBLE LAYERS IN A FOUR COMPONENT MAGNETIZED PLASMA</b><br><i>SUKTISAMA S. GHOSH, J. S. Pickett, G. S. Lakhina</i>   | 301-MON-O1400-0311 |
| 14:15 | <b>MIRROR WAVES NONLINEAR DYNAMICS: THEMIS OBSERVATIONS</b><br><i>MICHAEL BALIKHIN</i>  | 301-MON-O1415-0993 |

- 14:30 **LOCAL INFLUENCE OF MIRROR MODE FLUCTUATIONS ON  
MAGNETOPAUSE RECONNECTION** 301-MON-O1430-0480  
*TIERA V. LAITINEN, Mats André, Andris Vaivads, Nick Omid, Yuri V.  
Khotyaintsev, Elizabeth A. Lucek, Henri Rème*
- 14:45 **RELATIONSHIP BETWEEN BZ MAGNETIC FIELD COMPONENTS IN  
THE SOLAR WIND AND MAGNETOSHEATH: STATISTICAL STUDY** 301-MON-O1445-0584  
*JANA SAFRANKOVA, Mykhaylo Hayosh, Olga Gutynska, Zdenek Nemecek*
- 15:30 **CONTINUOUS VERSUS PULSED RECONNECTION AT THE** 301-MON-O1530-0374  
**I MAGNETOPAUSE**  
*KARLHEINZ J. TRATTNER, S. M. Petrinec and S. A. Fuselier*
- 16:00 **RECONNECTION RATE AND ENERGY CONVERSION AT THE** 301-MON-O1600-0178  
**MAGNETOPAUSE: MULTIPOINT MEASUREMENTS AND**  
**SIMULATIONS**  
*LISA ROSENQVIST, A. Vaivads, A. Retinò, T. Phan, H. J. Opgenoorth, L.  
Rastaetter, I. Dandouras, and S. Buchert*
- 16:15 **THEMIS BURST-MODE OBSERVATIONS OF RECONNECTION AT** 301-MON-O1615-0735  
**THE DAYSIDE MAGNETOPAUSE**  
*CHRIS PASMA, Tai Phan, Goetz Paschmann, and Vassilis Angelopoulos*
- 16:30 **ESCAPE OF HIGH-ENERGY OXYGEN IONS THROUGH** 301-MON-O1630-0369  
**MAGNETOPAUSE RECONNECTION UNDER NORTHWARD IMF**  
*SATOSHI KASAHARA, Hiroshi Hasegawa, Kunihiro Keika, Yukinaga Miyashita,  
Masaki N. Nishino, Yoshifumi Saito, and Toshifumi Mukai*
- 16:45 **ANTI-PARALLEL RECONNECTION: DYNAMICS AND** 301-MON-O1645-0454  
**RECONNECTION RATE**  
*STEPHEN A. FUSELIER, Steven M. Petrinec, Karlheinz J. Trattner*

**Poster Session (17:00-19:00)**

- VARIATIONS OF THE CORRELATION LENGTH OF** 301-MON-P1700-1097  
**MAGNETOSHEATH MAGNETIC FIELD FLUCTUATIONS**  
*OLGA GUTYNSKA, Jana Šafránková, Zdeněk Němeček*
- EVOLUTION OF KELVIN-HELMHOLTZ ACTIVITY ON THE DUSK** 301-MON-P1700-1128  
**FLANK MAGNETOPAUSE**  
*CLAIRE FOULLON, C. J. Farrugia, A. N. Fazakerley, C. J. Owen, F. T. Gratton,  
R. B. Torbert*
- MOMENTUM TRANSFER ON OLD OPEN FIELD LINES AND THE** 301-MON-P1700-1351  
**ROLES OF THE IMF EAST-WEST COMPONENT (BY) AND**  
**CONDUCTIVITY GRADIENTS**  
*Per Even Sandhøolt, Charles J. Farrugia*

### **III.02 Advances in substorm research from multi-point observations in the magnetosphere**

Oral: MON24 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-1700 LFCCC Széchenyi

Poster: MON24 17:00-19:00 Gimn. Halls, Level 0

- 08:30 **RECENT GROUND-BASED AND IN-SITU OBSERVATIONS OF SUBSTORM EXPANSION PHASE ONSET** 302-MON-O0830-0264  
**I** IAIN J. RAE, I. R. Mann, K. R. Murphy, D. K. Milling, C. E. J. Watt, V. Angelopoulos, H. U. Frey, K.-H. Glassmeier, H.-U. Auster, D. G. Sibeck, H. Singer
- 09:00 **ISOLATED SUBSTORM EXPANSION PHASE ONSET AND THE MECHANISM OF AURORAL BRIGHTENING** 302-MON-O0900-0044  
 ELIZAVETA E. ANTONOVA, Ilya A. Kornilov, Tatiana A. Kornilova, Maria S. Pulnits, Svetlana S. Rossolenko, Marina V. Stepanova
- 09:15 **COMPARISON BETWEEN GROUND OBSERVED SUBSTORM ONSET TIMING AND THEMIS SATELLITE OBSERVATIONS** 302-MON-O0915-0912  
 STEPHEN MENDE, Vassilis Angelopoulos, Harald U. Frey, Eric Donovan, Brian Jackel, Karl-Heinz Glassmeier, James P. McFadden, Davin Larson, Charles W. Carlson
- 09:30 **DIAGNOSIS OF MAGNETOTAIL DRIVERS FOR IONOSPHERIC ELECTRODYNAMICS USING NETWORKS OF GROUND-BASED MAGNETOMETERS** 302-MON-O0930-1266  
 IAN MANN, I. Jonathan Rae, K. Murphy, D. K. Milling, C. T Russell, V. Angelopoulos
- 09:45 **FLOW, AURORA AND PI2 ASSOCIATIONS OBSERVED BY THEMIS** 302-MON-O0945-0865  
 LARRY KEPKO, Emma Spanswick, Eric Donovan, Vassilis Angelopoulos, Joachim Raeder, Jim McFadden, K.-H. Glassmeier
- 10:30 **PLASMA STRUCTURE OF THE DIPOLARIZATIONS AND PLASMA INJECTIONS: RECENT THEMIS RESULTS** 302-MON-O1030-0511  
**I** VICTOR SERGEEV, V. Angelopoulos, A. Runov, S. Apatenkov, S. Dubyagin, R. Nakamura, K.-H. Glassmeier, J. McFadden, D. Larson, J. Bonnell
- 11:00 **ANALYSIS OF A SUBSTORM DIPOLARIZATION EVENT WITH IMPLICATIONS ON THE PHYSICAL PROCESS FOR DIPOLARIZATION** 302-MON-O1100-0372  
 ANTHONY T. Y. LUI
- 11:15 **PRESSURE CHANGE ASSOCIATED WITH DIPOLARIZATION IN THE NEAR-EARTH PLASMA SHEET** 302-MON-O1115-0838  
**I** YUKINAGA MIYASHITA, S. Machida, A. Ieda, M. H. Saito, Y. Kamide, D. Nagata, M. Nosé, K. Liou, C. T. Russell, I. Shinohara, M. Fujimoto, T. Mukai, Y. Saito, H. U. Frey, S. P. Christon
- 11:45 **PLASMA SHEET PRESSURE EVOLUTION RELATED TO SUBSTORMS** 302-MON-O1145-0428  
 X. Xing, LARRY R. LYONS, V. Angelopoulos, D. Larson, J. McFadden, C. Carlson, A. Runov, and U. Auster
- 13:30 **RECENT SUBSTORM RESULTS FROM COMBINED CLUSTER AND DOUBLE STAR MEASUREMENTS** 302-MON-O1330-1080  
**I** ANDREW P. WALSH, A. N. Fazakerley, M. W. Dunlop, C. Forsyth, A. Grocott, L. M. Kistler, M. Lester, A. T. Y. Lui, C. Mouikis, Z. Pu, C. Shen, J. K. Shi, M. G. G. T. Taylor, M. Volwerk
- 14:00 **A MAGNETOSEISMIC INVESTIGATION OF SUBSTORM ONSETS AND ITS VALIDATION BY SATELLITE OBSERVATIONS** 302-MON-O1400-1133  
 PETER J. CHI, S. Ohtani, C. T. Russell, V. Angelopoulos, K.-H. Glassmeier
- 14:15 **THE PENETRATION OF PLASMA SHEET INTO THE INNER PLASMASPHERE OBSERVED BY DSP SPACECRAFT** 302-MON-O1415-0957  
**I** JINBIN CAO, Weizhen Ding
- 14:45 **WAVE GENERATION AND ELECTRON ACCELERATION DURING SUBSTORMS** 302-MON-O1445-0756  
 MAHA ASHOUR-ABDALLA, Xiaohua Deng, Meng Zhou, David Schriver, Mostafa El-Alaoui and Raymond Walker

15:30	<b>STATISTICAL STUDY OF SUBSTORM TIMING SEQUENCE</b> NAIGUO LIN, Harald U. Frey, Stephen B. Mende, Forrest S. Mozer, Robert L. Lysak, Yan Song, Vassilis Angelopoulos	302-MON-O1530-0955
15:45	<b>GLOBAL ALFVENIC INTERACTION</b> YAN SONG, Robert L. Lysak	302-MON-O1545-1247
16:00	<b>SUBSTORM CONVECTION AND CURRENT SYSTEM DEDUCED FROM THE GLOBAL SIMULATION</b> TAKASHI TANAKA	302-MON-O1600-0106
16:15	<b>OPENGCM SIMULATIONS OF SUBSTORMS OBSERVED BY THEMIS</b> JOACHIM RAEDER, Larry Kepko, Yasong Ge, Alexander Vapirev, Mei-Ching Fok, Bei Hu, Frank Toffoletto, Douglas Larson	302-MON-O1615-0625
16:30	<b>Discussion</b> led by Larry Kepko and Ian Mann	

**Poster Session (17:00-19:00)**

	<b>CHARACTERISING THE ULF RESPONSE TO THE SUBSTORM EXPANSION PHASE ONSET</b> KYLE R. MURPHY, I. Jonathan Rae, Ian R. Mann, David K. Milling, Clare E. J. Watt, Vassilis Angelopoulos, Harald U. Frey	302-MON-P1700-0362
I	<b>CONSTRAINING SUBSTORM ONSET FROM COMBINED SPACE AND GROUND BASED OBSERVATIONS</b> A. P. WALSH, I. J. Rae, I. R. Mann, A. N. Fazakerley, K. Murphy, M. Volwerk	302-MON-P1701-1084
	<b>ENERGETIC ELECTRON PRECIPITATION DURING SUBSTORM INJECTION EVENTS: HIGH-LATITUDE FLUXES AND AN UNEXPECTED MIDLATITUDE SIGNATURE</b> MARK A. CLILVERD, Craig J. Rodger, James Brundell, John Bähr, Neil Cobbett, Tracy Moffat-Griffin, Andrew J. Kavanagh, Annika Seppälä, Neil. R. Thomson, Reiner H. W. Friedel, and Frederick W. Menk	302-MON-P1702-0724
	<b>VARIATIONS OF THE AURORAL EMISSIONS AND THE ELECTRON PRECIPITATION DURING SUBSTORMS</b> VENETA GUINEVA, Irina Despirak, Rolf Werner, Espen Trondsen, Farideh Honary, Steve Marple, Kolbjørn Dahle, Peter Stauning	302-MON-P1703-0232
	<b>MHD TRAVEL TIME IN THE MAGNETOTAIL AND ITS IMPLICATIONS FOR TIMING OF SUBSTORM PROCESSES</b> PETER J. CHI, M. G. Kivelson	302-MON-P1704-1240
	<b>ON THE RELATIONSHIPS BETWEEN DOUBLE-ONSET SUBSTORMS, BURSTY BULK FLOWS, AND IMF VARIATIONS</b> CHING-CHANG CHENG, C. T. Russell, V. Angelopoulos, I. R. Mann, K. H. Glassmeier, W. Baumjohann	302-MON-P1705-0587
	<b>WAVES, PLASMA FLOWS AND MAGNETIC FIELD DIPOLARIZATIONS IN THE COURSE OF MAGNETOSPHERIC SUBSTORMS OBSERVED BY THEMIS</b> OLGA E. MALANDRAKI, Ioannis. I. Vogiatzis, Qiugang-G. Zong, Anthony T. Lui, Emmanuel T. Sarris, Theodore A. Fritz, Xuzhi-Z. Zhou	302-MON-P1706-1163
	<b>PRESSURE AND ENTROPY CHANGES DURING A DIPOLARIZATION IN THE PLASMA SHEET</b> STEPAN DUBYAGIN, Alexander Nikolaev, Victor Sergeev, Sergey Apatenkov, Rumi Nakamura, Vassilis Angelopoulos	302-MON-P1707-1196
	<b>CLUSTER MULTI-POINT, MULTI-SCALE OBSERVATIONS OF FLOW-INDUCED DIPOLARIZATION IN THE NEAR TAIL REGION</b> Rumi Nakamura, A. Retino, M. Volwerk, W. Baumjohann, E. A. Lucek, I. Dandouras, B. Klecker, Y. Khotyaintsev	302-MON-P1708-0931
	<b>TAILWARD AND EARTHWARD FLOW ONSETS OBSERVED BY CLUSTER IN A THIN CURRENT SHEET</b> ANATOLIA. PETRUKOVICH, Wolfgang Baumjohann, Rumi Nakamura, Henri Rème	302-MON-P1709-1294

<b>ENERGETIC ELECTRON ACCELERATION WITHIN THE FLOW BRAKING REGION IN THE NEAR-EARTH MAGNETOTAIL: CLUSTER SPACECRAFT MULTI-SCALE OBSERVATIONS</b>	302-MON-P1710-1014
<i>ALESSANDRO RETINÒ, R. Nakamura, K. Keika, Y. Asano, S. Kasahara, A. Vaivads, Y. Khotyaintsev, W. Baumjohann, M. Volwerk, E. Panov, M. André, E. Kronberg, P. W. Daly, Y. Dandouras, C. J. Owen, E. A. Lucek, N. Cornilleau-Wehrlin, O. LeContel</i>	
<b>ELECTRON BEAM OBSERVATIONS IN THE NEAR-EARTH PLASMA SHEET BOUNDARY LAYER DURING ACTIVE PERIODS</b>	302-MON-P1711-1018
<i>CHRISTIAN KOGLER, R. Nakamura, A. Retino, W. Baumjohann, R. B. Torbert, H. Vaith, M. Chutter, E. Georgescu, A. Fazakerley, Y. Khotyaintsev</i>	
<b>THEMIS EVENT STUDY OF THE GEOMETRY AND PLASMA PROPERTIES OF THE FLAPPING WAVE</b>	302-MON-P1712-0049
<i>DMITRY A. SORMAKOV, V. A. Sergeev, V. S. Semenov, V. Angelopoulos, N. V. Erkaev</i>	
<b>THEMIS MULTI-POINT OBSERVATIONS OF FLUX ROPES AND TRAVELLING COMPRESSION REGIONS: FIRST TAIL SEASON RESULTS</b>	302-MON-P1713-0864
<i>SUZANNE M. IMBER, J. A. Slavin, K.-H. Glassmeier, J. P. McFadden and V. Angelopoulos</i>	
<b>SPECTRAL CHARACTERISTICS OF IONS IN THE EARTH'S PLASMASHEET: STATISTICAL RESULTS FROM CLUSTER CIS AND RAPID</b>	302-MON-P1714-1056
<i>Elena A. Kronberg, Stein HAALAND, P. Daly, M. Fraenz, L. Degener, A. Aasnes, E. Georgescu, A. Korth, I. Dandouras</i>	
<b>MAGNETOSPHERIC SOLITARY STRUCTURE MAINTAINED BY 3000 KM/S IONS AND ITS RELATION TO AURORAL BULGE AFTER A SUBTORM</b>	302-MON-P1715-0570
<i>M. Yamauchi, HANS NILSSON, I. Dandouras, P. W. Daly, G. Stenberg, H. U. Frey, P.-A. Lindqvist, Y. Ebihara, R. Lundin, H. Rème, M. André, E. A. Kronberg, A. Balogh and M. Henderson</i>	
<b>INVESTIGATING THE RELATIONSHIP BETWEEN THE OPEN MAGNETIC FLUX AT THE TIME OF SUBSTORM ONSET AND SUBSTORM PARTICLE INJECTION SIGNATURES</b>	302-MON-P1716-0674
<i>P. D. BOAKES, S. E. Milan, G. A. Abel, M. P. Freeman, G. Chisham and B. Hubert</i>	
<b>ISOTROPIC BOUNDARY AS A PROXY FOR TAIL CURRENT CONTRIBUTION TO THE DST/DCX INDEX</b>	302-MON-P1717-1087
<i>TIMO ASIKAINEN, Ville Maliniemi and Kalevi Mursula</i>	
<b>DEVELOPMENT OF SUBSTORM BULGES DURING STORMS OF DIFFERENT INTERPLANETARY ORIGINS</b>	302-MON-P1718-0187
<i>IRINA DESPIRAK, Andris Lubchich, Veneta Guineva</i>	

### III.03 Magnetosphere-ionosphere interactions and auroral processes

Oral: THU27 10:30-12:00, 13:30-15:00, 15:30-17:00 LFCCC Petőfi

Oral: FRI28 13:30-15:00, 15:30-17:00 Educator's Hall

Poster: THU27 17:00-19:00 Gimn. Halls, Level 0

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| 10:30 | <b>CHALLENGES FOR MODELS OF MAGNETOSPHERE-IONOSPHERE INTERACTIONS</b><br><i>JOACHIM VOGT</i>  | 303-THU-O1030-0422 |
| 11:00 | <b>POLAR CAP IONOSPHERIC CONVECTION AND FIELD-ALIGNED AURORAL CURRENTS DURING RECURRENT BAY EVENTS</b><br><i>PETER STAUNING, Oleg Troshichev, Alexander Janzhura</i>  | 303-THU-O1100-1372 |
| 11:15 | <b>IONOSPHERIC CONTROL OF AURORAL OCCURRENCE</b><br><i>KAN LIOU, Yongliang, Zhang, Patrick Newell, and Larry Paxton</i>   | 303-THU-O1115-1227 |
| 11:30 | <b>REDUCING NUMERICAL DIFFUSION AND ITS EFFECTS ON THE MAGNETOSPHERE-IONOSPHERE COUPLING IN GLOBAL MAGNETOSPHERE SIMULATIONS</b><br><i>GABOR TOTH, Xing Meng, Tamas Gombosi</i>   | 303-THU-O1130-0624 |
| 13:30 | <b>ELECTROMAGNETIC COUPLING BETWEEN THE REGION-1 AND -2 FIELD-ALIGNED CURRENTS AND THE EQUATORIAL IONOSPHERE</b><br><i>TAKASHI KIKUCHI, Yusuke Ebihara, Kumiko K. Hashimoto, Tomoaki Hori, Ryuho Kataoka, Shin-Ichi Watari, and Nozomu Nishitani</i>                  | 303-THU-O1330-0610 |
| 14:00 | <b>A TIGHT LINKAGE BETWEEN STORM-TIME RING CURRENT AND SUBAUROAL FLOW</b><br><i>YUSUKE EBIHARA, Nishitani Nozomu, Mei-Ching Fok</i>   | 303-THU-O1400-1125 |
| 14:15 | <b>A MODEL FOR WESTWARD AND EASTWARD SUBAUROAL ION DRIFTS</b><br><i>JOHAN DE KEYSER, Mirela Voiculescu, Michel Roth, Marius Echm</i>  | 303-THU-O1415-0995 |
| 14:30 | <b>THE SOLAR WIND ORIGIN OF THE EQUATORIAL IONOSPHERE PARAMETERS VARIATION DURING GEOMAGNETIC STORMS</b><br><i>LILIA BIKTASH and T. MARUYAMA</i>  | 303-THU-O1430-0310 |
| 14:45 | <b>INTERPLANETARY ALFVÉN WAVES INDUCING IONOSPHERIC DISTURBANCES OBSERVED BY GPS DATA</b><br><i>FERNANDO L. GUARNIERI, R. de Jesus, Y. Sahai, C. Brunini, M. Gende</i>  | 303-THU-O1445-1181 |
| 15:30 | <b>DIFFUSE, MONOENERGETIC, AND BROADBAND AURORA: THE GLOBAL PRECIPITATION BUDGET</b><br><i>PATRICK T. NEWELL, T. Sotirelis, and S. Wing</i>   | 303-THU-O1530-0102 |
| 16:00 | <b>ION UPFLOWS IN THE POLAR MAGNETOSPHERE DURING GEOMAGNETIC STORMS</b><br><i>NARITOSHI KITAMURA, Yukitoshi Nishimura, Yusuke Ebihara, Atsuki Shinbori, Naoki Terada, Takayuki Ono, Atsushi Kumamoto, Takumi Abe, Manabu Yamada, Shigeto Watanabe, and Andrew Yau</i> | 303-THU-O1600-0569 |
| 16:15 | <b>STORMTIME MAGNETOSPHERE-IONOSPHERE INTERACTION IN GLOBAL SIMULATIONS</b><br><i>WILLIAM LOTKO, Peter Damiano, Oliver Brambles, Binzheng Zhang</i>   | 303-THU-O1615-1136 |
| 16:30 | <b>STATISTICAL STUDY OF THE TRANSPOLAR POTENTIAL UNDER STEADY AND VARIABLE SOLAR WIND DYNAMIC PRESSURE</b><br><i>ATHANASIOS BOUDOURIDIS, Larry Lyons, Eftyhia Zesta, James Weygand, Phillip Anderson</i>  | 303-THU-O1630-0763 |
| 16:45 | <b>STATISTICAL ANALYSIS OF INFLUENCE OF THE SOLAR-WIND PRESSURE ENHANCEMENT ON THE REGION-2 FIELD-ALIGNED CURRENTS</b><br><i>SHINYA NAKANO, Genta Ueno, Shin-ichi Ohtani, Tomoyuki Higuchi</i>  | 303-THU-O1645-0966 |

13:30	<b>HEAVY ION ENERGIZATION, TRANSPORT AND LOSS IN THE EARTH'S MAGNETOSPHERE</b>	303-FRI-O1330-0385
	<i>HANS NILSSON, Martin Waara, Sachiko Arvelius, Masatoshi Yamauchi, Octav Marghitu</i>	
14:00	<b>OBSERVATION OF LOCALLY ACCELERATED OUTFLOWING ION BEAMS ABOVE THE POLAR CAP WITH CLUSTER: STATISTICAL RESULTS</b>	303-FRI-O1400-1031
	<i>ROMAIN MAGGIOLO, M. Echim, D. Fontaine, A. Teste, J. De Keyser and C. Jacquey</i>	
14:15	<b>ION DISTRIBUTION FUNCTION CHARACTERISTICS OF THE POLAR WIND ON ~20000 KM ALTITUDES</b>	303-FRI-O1415-0202
	<i>DMITRY CHUNGUNIN</i>	
14:30	<b>CROSS-FIELD ION ACCELERATION BY KINETIC ALFVEN TURBULENCE IN AURORAL ZONES</b>	303-FRI-O1430-1258
	<i>YURIY VOITENKO, Johan De Keyser</i>	
14:45	<b>EVIDENCE FOR QUASISTATIONARY ACCELERATION OF AURORAL ELECTRONS AND IONS FROM CLUSTER-DMSP OBSERVATIONS AND KINETIC MODELING OF THE AURORAL GENERATOR</b>	303-FRI-O1445-0337
	<i>MARIUS . M. ECHIM, R. Maggiolo, M. Roth, and J. De Keyser</i>	
15:30	<b>M-I COUPLING AND AURORAL STRUCTURING ON SMALL SCALES</b>	303-FRI-O1530-1172
	<i>CHRISTOPHER C. CHASTON, FAST Team, Reimei Team</i>	
16:00	<b>TWO-FLUID MODELING OF KINETIC ALFVEN WAVES</b>	303-FRI-O1600-0749
	<i>ROBERT L. LYSAK and Yan Song</i>	
16:15	<b>SMALL-SCALE AURORAL STRUCTURES OBSERVED SIMULTANEOUSLY AT THE TOP AND BOTTOM OF THE IONOSPHERE</b>	303-FRI-O1615-0676
	<i>JURGEN WATERMANN, Thierry Dudok de Wit, Vladimir Krasnoselskikh, Scott R. Bounds, Guillaume Jannet, Michel Chabassière</i>	
16:30	<b>AURORAL ARC STUDIES USING GROUND-BASED OPTICAL IMAGING</b>	303-FRI-O1630-0529
	<i>INGRIS SANDAHL, Urban Brändström, Tima Sergienko, Björn Gustavsson</i>	
16:45	<b>GENERAL CHARACTERISTICS OF NEW, FULL WAVE MODELING METHODS IN THE MAGNETOSPHERIC PROPAGATION</b>	303-FRI-O1645-0223
	<i>CSABA FERENCZ</i>	



**Poster Session (17:00-19:00)**

- PHASE RELATION BETWEEN PI2-ASSOCIATED IONOSPHERIC DOPPLER VELOCITY AND MAGNETIC PULSATION AT MID-LATITUDE MAGDAS STATION** 303-THU-P1700-1017  
*Akihiro Ikeda, Kiyohumi Yumoto, Teiji Uozumi, Manabu Shinohara, Kenro Nozaki, Akimasa Yoshikawa, V.V. Bychkov, B. M. Shevtsov*
- COORDINATED OBSERVATIONS OF AURORAL ARCS WITH ALIS AND THE EUROPEAN INCOHERENT SCATTER RADAR** 303-THU-P1700-1153  
*Hervé Lamy, Cyril Simon, Tima Sergienko, Björn Gustavsson, JOHAN DE KEYSER, Marius Echim, Ingrid Sandahl, Urban Brandström*
- ION TEMPERATURE DISTRIBUTION IN THE HIGH-LATITUDE THERMOSPHERE-IONOSPHERE REGION PRODUCED BY FIELD ALIGNED CURRENTS - EISCAT OBSERVATIONS** 303-THU-P1700-1200  
*DIMITAR TEODOSIEV, Emilia Yordanova, Petko Nenovski, Dimitar Danov, Geoff Crowley, Lisa Baddeley, Stephan Buchert*
- VARIATIONS OF THE MID-LATITUDE IONOSPHERE DURING STRONG GEOMAGNETIC STORMS: OBSERVATIONAL RESULTS** 303-THU-P1700-1325  
*GALINA GORDIYENKO*
- CHAMP OBSERVATIONS OF MULTIPLE FIELD-ALIGNED CURRENT (FAC) UNDER QUIET GEOMAGNETIC CONDITIONS** 303-THU-P1700-0220  
*DIMITAR DANOV, Patricia Ritter, Petko Nenovski, Hermann Luehr*
- GEOMAGNETIC FIELD VARIATIONS AT MIDDLE LATITUDE FROM MAGNETOSPHERIC AND IONOSPHERIC SOURCES DURING STRONG MAGNETIC STORMS** 303-THU-P1700-0273  
*YURI SUMARUK, Taras Sumaruk*
- POLAR THERMOSPHERIC HEATING UNDER PROTON PRECIPITATION** 303-THU-P1700-0032  
*VIR SINGH and M.V.Sunil Krishna*
- PENETRATION DYNAMICS OF THE RING CURRENT INTO THE PLASMASPHERE DURING SUBSTORMS BY THE OBSERVATION OF DIFFUSE AURORA AND SAR ARC** 303-THU-P1700-0431  
*IGOR IEVENKO*
- PHOTOMETRIC STUDY OF PULSATING PRECIPITATIONS OF THE RING CURRENT ENERGETIC PARTICLES AT LATITUDES OF THE OUTER PLASMASPHERE** 303-THU-P1700-0432  
*IGOR IEVENKO, Stanislav Parnikov and Valery Alexeyev*
- MORFOLOGY OF THE IONOSPHERIC DISTURBANCES OVER NORTH- EASTERN REGION OF RUSSIA** 303-THU-P1700-0442  
*GELIY ZHEREBTSOV, Vladimir Kurkin, Olga Pirog, Nelya Polekh*
- SEASONAL VARIATIONS OF THE ELECTRON DENSITY DISTRIBUTION IN THE POLAR MAGNETOSPHERE DURING GEOMAGNETICALLY QUIET PERIODS** 303-THU-P1700-0568  
*NARITOSHI KITAMURA, Atsuki Shinbori, Yukitoshi Nishimura, Naoki Terada, Takayuki Ono, Atsushi Kumamoto, and Masahide Iizima*
- ON A POSSIBILITY OF EXISTENCE OF TWO AND MORE SOURCES PI2- PULSATIONS IN THE MAGNETOSPHERE** 303-THU-P1700-0588  
*RAVIL RAKHMATULIN*
- SECULAR VARIATIONS OF THE GEOMAGNETIC FIELD AND SOLAR ACTIVITY** 303-THU-P1700-0775  
*YURI SUMARUK, Jan Reda*
- APPEARANCE OF AURORAL ROAR AND MF BURST** 303-THU-P1700-0844  
*YUKA SATO, Takayuki Ono, Natsuo Sato, Ryoichi Fujii, Kadokura Akira, Yasunobu Ogawa, Satonori Nozawa*
- PULSATING AURORAS OBSERVED BY A 30-HZ ALL SKY IMAGER DURING THE THEMIS-GROUND CAMPAIGN** 303-THU-P1700-0974  
*AKIMITSU NAKAJIMA, Kazuo Shiokawa, Akimasa Ieda, Kaori Sakaguchi, Reiko Nomura, Erick Donovan, James P. McFadden, Karl-Heinrich Fornacon, Vassilis Angelopoulos*

### **III.04 New perspectives of the magnetosphere-ionosphere system from global models, synoptic observations, and data assimilation**

Oral: FRI28 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 LFCCC Petöfi

Poster: FRI28 17:00-19:00 Gimn. Halls, Level 0

- |       |   |                    |
|-------|---|--------------------|
| 08:30 | <b>THE SPACE WEATHER MODELING FRAMEWORK: PROGRESS AND CHALLENGES</b>  | 304-FRI-O0830-0516 |
|       | <i>TAMAS I. GOMBOSI, Darren L. De Zeeuw, Ward (Chip) B. Manchester, Aaron J. Ridley, Igor V. Sokolov, Gabor Tóth, Bart van der Holst</i>  |                    |
| 09:00 | <b>BOW SHOCK CONTRIBUTIONS TO REGION 1 FAC AND CROSS-TAIL CURRENT: RESULTS FROM GLOBAL MHD SIMULATIONS</b>  | 304-FRI-O0900-0154 |
|       | <i>CHI WANG, X. C. Guo, B. B. Tang</i>  |                    |
| 09:30 | <b>GENERATION OF THE TRANSPOLAR POTENTIAL</b>   | 304-FRI-O0930-0747 |
|       | <i>RAMON LOPEZ, Robert Bruntz, Elizabeth Mitchell, Michael Wiltberger</i>   |                    |
| 09:45 | <b>THE EFFECT OF IONOSPHERIC PEDERSEN CONDUCTANCE ON THE FORMATION OF VORTICES IN THE MAGNETOTAIL</b>   | 304-FRI-O0945-0662 |
|       | <i>RAYMOND J. WALKER, Maha Ashour Abdalla and Mostafa El-Alaoui</i>   |                    |
| 10:30 | <b>QUANTIFYING ENERGY CIRCULATION IN THE NEAR-EARTH SPACE</b>   | 304-FRI-O1030-0668 |
|       | <i>MINNA PALMROTH, Chandrasekhar Anekallu, Tiera Laitinen, Ilja Honkonen, Hannu Koskinen, and Tuija Pulkkinen</i>   |                    |
| 11:00 | <b>THEMIS MULTI-SPACECRAFT OBSERVATIONS OF MAGNETOSHEATH PLASMA PENETRATION DEEP INTO THE LOW-LATITUDE DAYSIDE MAGNETOSPHERE DURING NORTHWARD IMF</b>   | 304-FRI-O1100-0899 |
|       | <i>MARIT ØIEROSET, Tai Phan, Vassilis Angelopoulos, Wenhui Li, Jimmy Raeder, Jonathan Eastwood, Jim McFadden, Davin Larson, Chuck Carlson, Karl-Heinz Glassmeier</i>  |                    |
| 11:30 | <b>DUAL REVERSED CONVECTION UNDER NORTHWARD IMF: A COMPREHENSIVE OBSERVATIONAL AND NUMERICAL INVESTIGATION</b>  | 304-FRI-O1130-0850 |
|       | <i>GANG LU, Yue Deng, Joachim Raeder, and Doug Larson</i>   |                    |
| 11:45 | <b>MASS TRANSPORT IN THE MAGNETOTAIL LOBES</b>  | 304-FRI-O1145-1016 |
|       | <i>STEIN HAALAND, B. Lybekk, K. Svenes, A. Pedersen, M. Foerster, H. Vaith, R. Torbert</i>  |                    |
| 13:30 | <b>INSIGHTS ON RADIATION BELT PHYSICS FROM THE DYNAMIC RADIATION ENVIRONMENT ASSIMILATION MODEL, DREAM</b>  | 304-FRI-O1330-0950 |
|       | <i>Geoffrey D. Reeves, REINER H. W. FRIEDEL, Josef Koller, Yue Chen, and Michael G. Henderson</i>   |                    |
| 14:00 | <b>THE VIRTUAL RADIATION BELT OBSERVATORY (ViRBO) AND THE FUTURE OF THE VxO ENVIRONMENT</b>   | 304-FRI-O1400-0964 |
|       | <i>Robert S. Weigel, E. A. Kihn, D. N. Baker, R. Friedel, J. Green, S. Bourdarie, J. Faden, M. Zhizhin, D. Mishin</i>   |                    |
| 14:30 | <b>ON THE OUTWARD DRIFT OF PLASMASPHERIC IONS DURING MAGNETIC STORMS AS A REASON FOR TEMPERATURE DECREASING</b>   | 304-FRI-O1430-0219 |
|       | <i>GALINA A. KOTOVA, M. I. Verigin, V. V. Bezrukikh, V. V. Bogdanov</i>   |                    |
| 14:45 | <b>EVIDENCE FOR ENHANCED SOLAR WIND DRIVING OF THE MAGNETOSPHERE-IONOSPHERE SYSTEM DURING PERIODS OF ALFVÉNIC IMF</b>   | 304-FRI-O1445-0430 |
|       | <i>Heejeong Kim, LARRY LYONS, Xiaoyan Xing, Shasha Zou, Thanasis Boudourdis, Craig Heinselman, Michael Nicolls, Mary McCready, Dae-Young-Lee, Vassilis Angelopoulos, D. Larson, J. McFadden, A. Runov, K.-H. Fornacon</i> |                    |

15:30	<b>THE USU GAIM PHYSICS-BASED DATA ASSIMILATION MODEL: RECENT DEVELOPMENTS AND RESULTS</b>	304-FRI-O1530-0980
I	<i>LUDGER SCHERLIESS, Robert W. Schunk, Donald C. Thompson</i>	
16:00	<b>ADVANCES IN DERIVATION OF BIRKELAND CURRENTS FROM IRIDIUM: INITIAL RESULTS FROM AMPERE DEVELOPMENT</b>	304-FRI-O1600-1180
I	<i>Brian J. Anderson, Haje Korth, and COLIN L. WATERS</i>	
16:30	<b>NEW OBSERVATIONAL PERSPECTIVES ON AURORAL ARCS</b>	304-FRI-O1630-1202
I	<i>ERIC DONOVAN</i>	

**Poster Session (17:00-19:00)**

	<b>COMPARISON OF ELECTRON PLASMA FREQUENCIES COMPUTED FROM NEQUICK_2_0_1 WITH MEASUREMENTS ON APEX AND CORONAS-I SATELLITES</b>	304-FRI-P1700-1354
	<i>AREK KIRAGA</i>	
	<b>MODELLING OF THE GLOBAL IONOSPHERE BEHAVIOUR DURING MAJOR MAGNETIC STORMS USING THE NUMERICAL UPPER ATMOSPHERE MODEL</b>	304-FRI-P1700-0215
	<i>YULIA V. ZUBOVA, Alexander A. Namgaladze</i>	
	<b>LARGE-SCALE FIELD-ALIGNED CURRENTS DISTRIBUTION MODELLED AS NONLINEAR MODES GENERATED BY SOLAR WIND AND INTERPLANETARY MAGNETIC FIELD VARIATIONS</b>	304-FRI-P1700-0281
	<i>PETKO NENOVSKI</i>	
	<b>MODELLING OF DST FOR MAGNETIC STORMS USING INTERPLANETARY PARAMETERS - CHARACTERISTICS OF GROWTH AND DECAY</b>	304-FRI-P1700-0377
	<i>Sugadha Arumugam and Nandini Nagarajan</i>	
	<b>MAPPING GROUND LEVEL GEOMAGNETIC PERTURBATIONS AS A FUNCTION OF SOLAR WIND/IMF CONDITIONS</b>	304-FRI-P1700-0483
	<i>DANIEL R. WEIMER, C. Robert Clauer</i>	
	<b>POLAR CAP ELECTRIC FIELD SATURATION DURING IMF BZ NORTH AND SOUTH CONDITIONS</b>	304-FRI-P1700-0527
	<i>Frederick D. Wilder, C. ROBERT CLAUER, Joseph B. H. Baker</i>	
	<b>THE EFFECTS OF LARGE Y-COMPONENT INTERPLANETARY MAGNETIC FIELD ON THE TRANSPOLAR POTENTIAL</b>	304-FRI-P1700-0586
	<i>ELIZABETH J. MITCHELL, Ramon E. Lopez</i>	
	<b>DYNAMIC BEHAVIOR OF THE MAGNETOSPHERE UNDER THE STATIONARY IMF CONDITION</b>	304-FRI-P1700-0772
	<i>SHIGERU FUJITA and Takashi Tanaka</i>	
	<b>GLOBAL ENERGY PARTITIONING: COMPARISON OF SPACECRAFT OBSERVATIONS AND A MHD SIMULATION</b>	304-FRI-P1700-0785
	<i>ILJA HONKONEN, Minna Palmroth, Pekka Janhunen, Tuija Pulkkinen</i>	
	<b>DETERMINING THE LOCATION OF THE OPEN-CLOSED MAGNETIC FIELD LINE BOUNDARY FROM AURORAL IMAGES</b>	304-FRI-P1700-0846
	<i>NICOLA LONGDEN, Gareth Chisham, Gary Abel, Mervyn Freeman</i>	
	<b>AN INTERCOMPARISON STUDY OF THE PLASMAPAUSE BETWEEN IMAGE-EUV SELENE-UI, AND CROSS-PHASE MEASUREMENTS</b>	304-FRI-P1700-0876
	<i>YUKI OBANA, Fukuhiro Ezawa, Go Murakami, and Ichiro Yoshikawa</i>	
	<b>DEVELOPMENT OF AN EUV DATA ASSIMILATION TECHNIQUE FOR PLASMASPHERE MODELING</b>	304-FRI-P1700-0968
	<i>SHINYA NAKANO, Mei-Ching Fok, Pontus C:son Brandt, Tomoyuki Higuchi</i>	
	<b>COLD DENSE PLASMA SHEET ENTRY IN THE INNER MAGNETOSPHERE FOLLOWING DUAL LOBE RECONNECTION</b>	304-FRI-P1700-0806
	<i>ANNA MILILLO, Maria Federica Marcucci, Ermanno Amata, Stefano Orsini, Pontus C:son Brandt and Dominique Delcourt</i>	

### III.05 The plasma sheet-ionosphere, a coupled system: Sinks, sources, transport and the role of Region 2 currents

Oral: MON24 10:30-12:00 Educator's Hall

Oral: TUE25 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 Educator's Hall

Poster: TUE25 17:00-19:00 Gimn. Halls, Level 0

- |       |   |                    |
|-------|---|--------------------|
| 10:30 | <b>IONOSPHERIC PROMPT PENETRATION ELECTRIC FIELDS</b>   | 305-MON-O1030-1147 |
| I     | BELA G. FEJER   |                    |
| 11:00 | <b>INVESTIGATING DYNAMICAL COMPLEXITY IN THE MAGNETOSPHERE USING VARIOUS ENTROPY MEASURES</b>   | 305-MON-O1100-0699 |
|       | GEORGIOS BALASIS, Ioannis A. Daglis, Constantinos Papadimitriou, Maria Kalimeri, Anastasios Anastasiadis, Konstantinos Eftaxias   |                    |
| 11:15 | <b>RAM-SCB SIMULATIONS OF THE NEAR-EARTH MAGNETOSPHERE: EFFECT OF PLASMA SHEET CONDITIONS AND MAGNETIC COUPLING ON THE RING CURRENT/REGION 2 FIELD-ALIGNED CURRENTS</b> | 305-MON-O1115-0892 |
|       | SORIN G. ZAHARIA, Vania K. Jordanova and Daniel T. Welling  |                    |
| 11:30 | <b>STRUCTURE OF HIGH LATITUDE MAGNETOSPHERIC PLASMA DOMAINS AND THE PROBLEM OF LARGE-SCALE MAGNETOSPHERE-IONOSPHERE INTERACTIONS</b>                                    | 305-MON-O1130-0043 |
| I     | ELIZAVETA E. ANTONOVA, Igor P. Kirpichev, Ksenia G. Orlova, Ilya L. Ovchinnikov, Maria S. Pulinetz, Svetlana S. Rossolenko, Marina V. Stepanova                         |                    |
| 08:30 | <b>GEOMAGNETIC ACTIVITY DEPENDENCE OF O<sup>+</sup> IN TRANSIT FROM THE IONOSPHERE</b>  | 305-TUE-O0830-0414 |
| I     | WILLIAM K. PETERSON and S.R. Elkington  |                    |
| 09:00 | <b>SUBSTORM ENTROPIES</b>   | 305-TUE-O0900-0083 |
|       | SIMON WING  |                    |
| 09:15 | <b>THE ROLE OF ENTROPY IN PLASMA SHEET TRANSPORT</b>  | 305-TUE-O0915-1208 |
| I     | JOACHIM BIRN, Karl Schindler, Michael Hesse   |                    |
| 09:45 | <b>NORTHWARD IMF PLASMA SHEET ENTROPIES</b>   | 305-TUE-O0945-0928 |
|       | JAY R. JOHNSON and Simon Wing   |                    |
| 10:30 | <b>TRANSPORT PROCESSES OF PLASMA SHEET PROTONS OF DIFFERENT ENERGIES AND THE RESULTING DISTRIBUTIONS OF ENTROPY AND PARTICLE CONTENT</b>                                | 305-TUE-O1030-0573 |
| I     | CHIH-PING WANG, Larry R. Lyons, Richard A. Wolf, Tsugunobu Nagai, James M. Weygand, A. T. Y. Lui  |                    |
| 11:00 | <b>PHYSICS OF REGION-2 CURRENTS</b>   | 305-TUE-O1100-0869 |
| I     | RICHARD WOLF  |                    |
| 11:30 | <b>EFFECT OF THE TAIL PLASMA SHEET CONDITIONS ON THE PENETRATION OF THE CONVECTION ELECTRIC FIELD IN THE INNER MAGNETOSPHERE: THE RCM SIMULATIONS</b>                   | 305-TUE-O1130-0184 |
|       | GKIOULIDOU MATINA, Chih-Ping Wang, Larry R. Lyons, Richard A. Wolf  |                    |
| 11:45 | <b>PFISR OBSERVATIONS OF THE MAGNETOSPHERE-IONOSPHERE COUPLING ELECTRODYNAMICS OF THE EARTHWARD PENETRATING PLASMA SHEET FOLLOWING CONVECTION ENHANCEMENTS</b>          | 305-TUE-O1145-0429 |
|       | LARRY LYONS, Sha Zou, Chih-Ping Wang, Matina Gkioulidou, Craig Heinselman, Mike Nicolls and Phil Anderson   |                    |

- 13:30 **GEOTAIL OBSERVATIONS OF PLASMA SHEET ION COMPOSITION OVER 16 YEARS: ON VARIATIONS OF AVERAGE PLASMA ION MASS AND SUBSTORM TRIGGERING** 305-TUE-O1330-0969  
*MASAHITO NOSÉ, A. IEDA, S. P. CHRISTON*
- 13:45 **OVERSHIELDING AT SUBAURORAL - EQUATORIAL LATITUDES AT THE ONSET OF SUBSTORM** 305-TUE-O1345-0754  
*KUMIKO K. HASHIMOTO, Takashi Kikuchi, Shin-ichi Watari*
- 14:00 **NEAR-EARTH MAGNETIC SIGNATURE OF MAGNETOSPHERIC SUBSTORMS AND AN IMPROVED SUBSTORM CURRENT MODEL** 305-TUE-O1400-0486  
**I** *PATRICIA RITTER and Hermann Lühr*
- 14:30 **RESPONSE OF ELECTRIC FIELDS AND REGION 2 FACS IN THE INNER MAGNETOSPHERE ASSOCIATED WITH SUBSTORM ONSET** 305-TUE-O1430-0757  
**I** *YUKITOSHI NISHIMURA, Larry Lyons, Shasha Zou, Takashi Kikuchi, Vassilis Angelopoulos, and John Bonnell*
- 15:30 **RELATION BETWEEN THE HARANG DISCONTINUITY AND SUBSTORM ONSET** 305-TUE-O1530-0860  
*HERMANN LÜHR, Hui Wang and Patricia Ritter*
- 15:45 **EVOLUTION OF HIGH LATITUDE IONOSPHERIC CONVECTION ASSOCIATED WITH SUBSTORMS: SUPERDARN AND PFISR OBSERVATIONS** 305-TUE-O1545-0762  
**I** *Shasha Zou, Larry Lyons, Chih-Ping Wang, Athanasios Boudouridis, Mike Ruohoniemi, Michael Nicolls, Craig Heinselman, Philip Anderson, Stephen Mende, Peter Dyson, John Devlin*
- 16:15 **P12 PULSATIONS: IONOSPHERE/GROUND SIGNATURES OF DYNAMIC PROCESSES IN THE PLASMA SHEET** 305-TUE-O1615-0778  
**I** *PETER SUTCLIFFE*
- 16:45 **THE ROLE OF REGION 2 FAC IN THE SUBSTORM CURRENT SYSTEM AT THE ONSET** 305-TUE-O1645-0105  
*TAKASHI TANAKA*

**Poster Session (17:00-19:00)**

- 17:00 **SPATIAL DISTRIBUTION OF THE AURORAL PRECIPITATIONS ZONES DEPENDING ON DIFFERENT SOLAR WIND STREAMS** 305-TUE-P1700-0210  
*Oksana Yagodkina, IRINA DESPIRAK, Veneta Guineva*
- MODELING OF A SUBSTORM EVENT USING THE RICE CONVECTION MODEL WITH AN EQUILIBRIUM MAGNETIC FIELD** 305-TUE-P1701-1135  
*Jian Yang, Frank Toffoletto, RICHARD WOLF, Gary Erickson*
- ION PRESSURE NON-GYROTROPICITY AND GEOMAGNETIC TAIL CURRENT SPLITTING** 305-TUE-P1702-0407  
*PETER ISRAELEVICH, Alexander Ershkovich*
- GENERATION OF THE SUBSTORM-FAC BY SLOW MODE DISTURBANCES IN THE NEAR EARTH PLASMA SHEET** 305-TUE-P1703-0602  
*AOI NAKAMIZO*
- MAGNETOSPHERIC CONVECTION MANIFESTATIONS AT SUBAURORAL LATITUDES BY OBSERVATIONS OF THE DIFFUSE AURORA, SAR ARC AND IONOSPHERIC DRIFT** 305-TUE-P1704-0513  
*IGOR IEVENKO, Alexander Stepanov, Valery Alexeyev*
- STORM-TIME ELECTRIC FIELDS IN THE MID-LATITUDE IONOSPHERE OBSERVED BY GROUND MAGNETOMETERS AND THE AKEBONO SATELLITE** 305-TUE-P1705-0801  
*YUJI TSUJI, Yukitoshi Nishimura, Atsuki Shinbori, Takashi Kikuchi, Tomoaki Hori, Ayako Matsuoka, Tsutomu Nagatsuma*

### III.06 Techniques and instrumentation in space plasma physics

Oral: THU27 10:30-12:00, 13:30-15:00, 15:30-17:00 Educator's Hall

Poster: THU27 17:00-19:00

- |       |  |                    |
|-------|--|--------------------|
| 10:30 | <b>DIAGNOSTICS OF HEIGHT DISTRIBUTION OF THE IONOSPHERE ELECTRON DENSITY ON THE BASE OF FORMOSAT 3 / COSMIC MEASUREMENTS</b><br><i>IRINA ZAKHARENKOVA, Irk Shagimuratov, Andrzej Krankowski, Anna Krypiak-Gregorczyk, Anatoly Lagovsky</i>   | 306-THU-O1030-0194 |
| 10:45 | <b>PLASMASPHERE/IONOSPHERE DENSITY MODELS DERIVED FROM RADIO SOUNDING OBSERVATIONS</b><br><i>BODO W. REINISCH</i>  | 306-THU-O1045-0437 |
| 11:00 | <b>EISCAT_3D - NEW GENERATION LARGE SCALE INCOHERENT SCATTER RADAR FACILITY IN NORTHERN SCANDINAVIA</b><br><i>ESA TURUNEN</i>  | 306-THU-O1100-1267 |
| 11:15 | <b>THE MEASUREMENTS OF IONOSPHERE PLASMA ELECTRON DENSITY BY THE KHARKIV INCOHERENT SCATTER RADAR</b><br><i>IURI CHERNIAK, Valery Lysenko</i>  | 306-THU-O1115-0206 |
| 11:30 | <b>THE INFLUENCE OF THE LOSS ON THE SIGNAL-FORM IN THE INTERPLANETARY/EARTH'S ATMOSPHERE</b><br><i>ORSOLYA E. FERENCZ</i>  | 306-THU-O1130-0285 |
| 11:45 | <b>LOW COST FLUXGATE MAGNETOMETER DEVELOPMENT USING PROGRAMABLE LOGIC CONTROLLER FOR SAMA MONITORING IN SOUTH OF BRAZIL</b><br><i>CASSIO ESPINDOLA ANTUNES, Alexandre Campos, Nalin Babulal Trivedi, Nelson Jorge Schuch, Fernando de Souza Savian, Josemar Siqueira</i>                 | 306-THU-O1145-0346 |
| 13:30 | <b>NEW OPERATIONAL SPACE WEATHER SENSORS</b><br><i>WILLIAM F. DENIG, Thomas Sotirelis, Vince Grano</i>   | 306-THU-O1330-1112 |
| 13:45 | <b>SOME NOVEL FEATURES OF CASSIOPE/EPOP INSTRUMENTS AND EXPERIMENTS</b><br><i>GORDON JAMES, Andrew Yau</i>   | 306-THU-O1345-0403 |
| 14:00 | <b>MEASURING ELECTRON TEMPERATURE USING A PLANAR LANGMUIR PROBE</b><br><i>DAVID L. COOKE, John S. Machuzak</i>   | 306-THU-O1400-0578 |
| 14:15 | <b>ELECTRON OPTICAL SIMULATIONS OF VARIABLE SENSITIVITY SYSTEMS FOR TOP HAT ELECTROSTATIC PLASMA ANALYSERS</b><br><i>GLYN COLLINSON and Dhiren Kataria</i>   | 306-THU-O1415-1049 |
| 14:30 | <b>TOP HAT ELECTROSTATIC ANALYSER WITH ENHANCED FEATURES FOR IN-SITU PLASMA STUDIES</b><br><i>DHIREN KATARIA, Glyn Collinson, Louisa Bradley</i>   | 306-THU-O1430-1095 |
| 14:45 | <b>RECENT ADVANCES IN AVALANCHE PHOTODIODES FOR PARTICLE DETECTION</b><br><i>KEIICHI OGASAWARA, Stefano A. Livi, David J. McComas</i>  | 306-THU-O1445-0940 |
| 15:30 | <b>UNFOLDING ESA STANDARD RADIATION ENVIRONMENT MONITOR DATA USING AN ITERATIVE REGULARISATION METHOD BASED ON SINGULAR VALUE DECOMPOSITION</b><br><i>INGMAR SANDBERG, Anastasios Anastasiadis, Ioannis Daglis, Konstantinos Tziotziou, Petteri Nieminen, Alexis Glover, Paul Bühler</i> | 306-THU-O1530-1089 |
| 15:45 | <b>THREE-SPACECRAFT SPATIAL GRADIENT ESTIMATION: ACCURACY STUDIES AND VORTICITY CALCULATIONS</b><br><i>ADRIAN ALBERT, Joachim Vogt, Octav Marghitu</i>   | 306-THU-O1545-1007 |
| 16:00 | <b>LEAST-SQUARES MULTI-SPACECRAFT GRADIENT COMPUTATION</b><br><i>JOHAN DE KEYSER, Fabien Darrouzet, Emmanuel Gamby</i>   | 306-THU-O1600-0994 |

- 16:15 **NEW TOOLS FOR MULTI-SPACECRAFT DATA ANALYSIS: THE WAVE SURVEYOR TECHNIQUE AND PLANAR RECIPROCAL VECTORS** 306-THU-O1615-0887  
*JOACHIM VOGT, Adrian Albert, Dragos Constantinescu, Octav Marghitu, Yasuhito Narita*
- 16:30 **SCIENTIFIC VISUALIZATION IN MAGNETOSPHERIC RESEARCH AT THE COMMUNITY COORDINATED MODELING CENTER** 306-THU-O1630-1143  
*LUTZ RASTAETTER, Maria M. Kuznetsova, David Berrios, Marlo Maddox, Michael Hesse*
- 16:45 **Discussion**

**Poster Session (17:00-19:00)**

- LANGMUIR PROBES FOR THE INTERNATIONAL SPACE STATION** 306-THU-P1700-0316  
*BOIAN KIROV, Ditchko Batchvarov, Rumiana Krasteva, Ani Boneva, Rumen Nedkov, Stanislav Klimov, Valery Grushin*
- INVERSION OF ROCKET-BORNE PHOTOMETER MEASUREMENTS BY AN ARTIFICIAL NEURAL NETWORK TECHNIQUE** 306-THU-P1701-0554  
*FRANCISCO C. DE MENESES, E. H. Shiguemori, P. Muralikrishna, B. R. Clemesha, and E. Alam Kherani*
- AIRGLOW STUDY OF IONOSPHERIC PLASMA IRREGULARITIES** 306-THU-P1702-0840  
*Aline A. Almeida, ALEXANDRE PIMENTA*
- SHORT ELECTRIC-FIELD ANTENNAE AS DIAGNOSTIC TOOLS FOR SPACE PLASMAS** 306-THU-P1703-0042  
*JEAN GABRIEL TROTIGNON, Jean Louis Rauch, Mikhail Mogilevsky, and Tatiana Burinskaya*
- AMPLIFICATION OF THE ELECTRON GYROHARMONIC RESONANCE AS A RELATION TO THE PLASMA FREQUENCY IN THE WHISPER/CLUSTER ACTIVE MODE** 306-THU-P1704-0914  
*JEAN LOUIS RAUCH, Jean Gabriel Trotignon, Mikhail Mogilevsky, Tatiana Burinskaya, Farida Lemdani-Mazouz*
- EUV OBSERVATION OF THE INNER MAGNETOSPHERE OF JUPITER FROM THE EARTH-ORBITING SATELLITE** 306-THU-P1705-0583  
*KAZUO YOSHIOKA, Ichiro Yoshikawa, Go Murakami, Munetaka Ueno, Atsushi Yamazaki, and Kazunori Uemizu*
- TIME DOMAIN ECHO CLUSTERING OF MST RADAR** 306-THU-P1706-1048  
*KANG-YING CHEN and C. H. Liu*
- HF PROPAGATION VIA THE IONOSPHERE OVER AFRICA : SCIENCE OR ART?** 306-THU-P1707-0030  
*MPHO TSHISAPHUNGO, Lee-Anne McKinnell, and Lindsay Magnus*

### **III.07 Wave and particle dynamics in the ring current and radiation belts/geomagnetic storms**

Oral: TUE25 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 LFCCC Petőfi

Poster: TUE25 17:00-19:00 Gimn. Halls Level 0

- 08:30 **RELATIONSHIP OF THE VAN ALLEN RADIATION BELTS TO SOLAR WIND DRIVERS** 307-TUE-O0830-1357  
I  
*Mary Hudson, Brian Kress, Hans Mueller, Thiago Brito, Feifei Chu, Yuri Shprits*
- 09:00 **SOLAR WIND DENSITY INFLUENCE ON THE EFFICIENCY OF RING CURRENT RESPONSE TO A GIVEN SOLAR WIND ELECTRIC FIELD** 307-TUE-O0900-1241  
*ROBERT WEIGEL*
- 09:15 **OBSERVED VARIATIONS OF EARTH'S RADIATION BELT INTENSITIES ON ANNUAL AND SOLAR CYCLE TIME SCALES** 307-TUE-O0915-0457  
*DANIEL N. Baker and S.G. Kanekal*
- 09:30 **ENERGETIC ELECTRON PRECIPITATIONS NEAR THE OUTER BOUNDARY OF ELECTRON RADIATION BELT DURING MINIMUM OF SOLAR ACTIVITY: FIRST RESULTS OF CORONAS-FOTON SATELLITE OBSERVATIONS** 307-TUE-O0930-0257  
*Irina Myagkova, E. E. Antonova, Yu. I. Denisov, A. V. Bogomolov, L. I. Starostin*
- 09:45 **POST STORM TRAPPED ENERGETIC ELECTRON FLUX ENHANCEMENT AND DECAY** 307-TUE-O0945-0552  
*J. F. Fennell, S. Kanekal, and J. L. Roeder*
- 10:30 **SELF-CONSISTENT SIMULATIONS OF PLASMA WAVE INSTABILITIES IN THE RING CURRENT** 307-TUE-O1030-0553  
I  
*VANIA K. JORDANOVA*
- 11:00 **GAP-FILLING OF SOLAR WIND DATA BY SINGULAR SPECTRUM ANALYSIS** 307-TUE-O1100-0797  
*DMIRTI KONDRASHOV, Yuri Shprits*
- 11:15 **SPATIAL PROFILES OF RELATIVISTIC ELECTRON PHASE SPACE DENSITY: SCATHA OBSERVATIONS AT CONSTANT FIRST AND SECOND ADIABATIC INVARIANT** 307-TUE-O1115-0556  
*JAMES L. ROEDER, and J. F. Fennell*
- 11:30 **DYNAMIC EVOLUTION OF THE OUTER RADIATION BELT PHASE SPACE DENSITY** 307-TUE-O1130-0736  
*YURI SHPRITS, Bibin Ni, Reiner Friedel, Yue Chen, Dmitri Kondrashov, Dmitri Subbotin, Geoff Reeves, Michael Ghil, Richard Thorne, Tsugunobu Nagai*
- 11:45 **THREE-DIMENSIONAL DIFFUSION SIMULATION OF OUTER RADIATION BELT ELECTRONS DURING THE OCTOBER 9, 1990, MAGNETIC STORM** 307-TUE-O1145-0580  
*JAY ALBERT*
- 13:30 **SPATIOTEMPORAL DISTRIBUTION OF WHISTLER MODE CHORUS AND EQUATORIAL NOISE** 307-TUE-O1330-0990  
I  
*O. SANTOLIK, E. Macusova, Hrbakova, D. A. Gurnett, J. S. Pickett, N. Cornilleau-Wehrlin*
- 14:00 **ELECTRONICAL RADIATION BELTS DYNAMIC DETERMINE BY THE HYDROMAGNETIC WAVE** 307-TUE-O1400-0276  
*PETER BESPALOV*
- 14:15 **NONLINEAR MECHANISMS OF LOWER BAND AND UPPER BAND VLF CHORUS EMISSIONS IN THE MAGNETOSPHERE** 307-TUE-O1415-0758  
*YOSHIHARU OMURA, Mitsuru Hikishima, Yuto Katoh, Danny Summers, Satoshi Yagitani*
- 14:30 **FIRST OBSERVATION LINKING THE ORIGIN OF PLASMASPHERIC HISS TO DISCRETE CHORUS EMISSIONS** 307-TUE-O1430-1275  
*JACOB BORTNIK, Wen Li, Richard M. Thorne, Vassilis Angelopoulos, Chris Cully, John Bonnell, Olivier Le Contel, Alain Roux*
- 14:45 **RELATIVISTIC ELECTRON LOSS TIMESCALES IN THE SLOT REGION** 307-TUE-O1445-0688  
*NIGEL P. MEREDITH, Richard B. Horne, Sarah A. Glauert, Daniel N. Baker, Shrikanth G. Kanekal, Jay M. Albert*



- 15:30 **ELECTROMAGNETIC ION CYCLOTRON WAVES ASSOCIATED WITH PLASMA DRAINAGE PLUME GRADIENTS AND GEOMAGNETIC STORMS** 307-TUE-O1530-0085  
*BRIAN J. FRASER, R. S. Grew, H. J. Singer, J. C. Green, M. F. Thomsen, R. R. Anderson*
- 15:45 **RADIATION BELT LOSSES DUE TO EMIC WAVES** 307-TUE-O1545-1199  
*ALEKSANDR UKHORSKIY, Brian Anderson, Yuriy Shprits, Richard Thorne*
- 16:00 **RELATIVISTIC ELECTRON LOSSES RELATED TO PROTON PRECIPITATION AND EMIC WAVES** 307-TUE-O1600-0938  
*FINN SØRAAS, Marit Sandanger, Kjell Aarsnes and Kjellmar Oksavik*
- 16:15 **PROBING THE RELATIONSHIP BETWEEN EMIC WAVES AND PLASMASPHERIC DRAINAGE PLUMES NEAR GEOSYNCHRONOUS ORBIT** 307-TUE-O1615-0913  
*MARK ENGBRETSON, Jennifer Posch, Michael Murphy, Marc Lessard, Michael Denton, Richard Horne*
- 16:30 **RADIATION BELT PRECIPITATION DUE TO MAN-MADE VLF TRANSMISSIONS: SATELLITE OBSERVATIONS** 307-TUE-O1630-0256  
*RORY GAMBLE, Craig Rodger, Bonar Carson, Mark Clilverd, Neil Thomson, Simon Stewart, Robert McCormick, Michel Parrot, Jean-Andre Sauvaud, Jean-Jacques Berthelier*
- 16:45 **CONTROLLED MAGNETOSPHERIC WAVE INJECTION USING THE HAARP IONOSPHERIC HEATER** 307-TUE-O1645-0455  
*MAREK GOŁKOWSKI, Umran S. Inan, Morris. B. Cohen*

**Poster Session (17:00-19:00)**

<b>RCM-VERB COUPLED SIMULATIONS OF THE DYNAMICS OF THE RADIATION BELTS DURING STORMS</b> <i>DMITRIY SUBBOTIN, Yuri Shprits, Matina Gkioulidou, Viacheslav Merkin, Frank Toffoletto, Richard Thorne, Chih-Ping Wang, Larry Lyons</i>	307-TUE-P1700-0073
<b>THE MAGNETOSPHERIC RING CURRENT DECAY MECHANISMS</b> <i>LILIA BIKTASH</i>	307-TUE-P1700-0303
<b>NONLINEAR DYNAMICS OF A MAGNETOSPHERIC VLF BACKWARD-WAVE OSCILLATOR: POSSIBLE INFLUENCE OF BOUNCE OSCILLATIONS OF ENERGETIC ELECTRONS</b> <i>ANDREI DEMEKHOV</i>	307-TUE-P1700-0327
<b>DYNAMICS OF RELATIVISTIC ELECTRON FLUX IN THE OUTER EARTH'S RADIATION BELT DURING MINIMUM OF SOLAR ACTIVITY - THE FIRST EXPERIMENTAL DATA OF CORONAS-FOTON SATELLITE</b> <i>I. N. Myagkova, M. I. Panasyuk, Yu. I. Denisov, A. V. Bogomolov, V. V. Kalegaev, L. I. Starostin</i>	307-TUE-P1700-0317
<b>LANL* V1.0: RADIATION BELT DRIFT SHELL MODELING FOR REAL-TIME AND REANALYSIS APPLICATIONS</b> <i>JOSEF KOLLER, Geoffrey D. Reeves, Reiner H. W. Friedel</i>	307-TUE-P1700-0576
<b>RELATIONSHIP BETWEEN ULF ACTIVITY AND RELATIVISTIC ELECTRON FLUX IN THE MAGNETOSPHERE</b> <i>NATALIA ROMANOVA, Viacheslav Pilipenko</i>	307-TUE-P1700-0746
<b>PC 5 PULSATIONS AT ULTIMA STATIONS DURING THE RELATIVISTIC ELECTRON ENHANCEMENT</b> <i>AKIKO FUJIMOTO, Terumasa Tokunaga, Shuji Abe, Teiji Uozumi, Akimasa Yoshikawa, Ian R. Mann, Peter Chi, Mark Engebreston, Archana Bhattacharya, Daniel McNamara, Ronald Woodman Pollitt, Severino L. G. Dutra, Babatunde A. Rabi, Kiyohumi Yumoto, MAGDAS/CPMN Group</i>	307-TUE-P1700-0890
<b>COMPARISON BETWEEN HIGH-ENERGY ELECTRON FLUX AT GEOSYNCHRONOUS ORBIT AND ULF PULSATIONS ON THE GROUND</b> <i>KENTAROU KITAMURA, Shinichi Watari, Manabu Kunitake, Takahiro Obara, Hideki Koshiishi, Satoko Saita</i>	307-TUE-P1700-0960
<b>STUDY OF PITCH ANGLE DISTRIBUTION DURING A GEOMAGNETIC STORM</b> <i>SERGEY SMOLIN</i>	307-TUE-P1700-1290
<b>INVESTIGATION OF PARAMETERS OF CHORUS WAVE PACKETS MEASURED BY THE CLUSTER SPACECRAFT</b> <i>E. MACUSOVA, O. Santolik, P. Decreau, D.A. Gurnett, J. S. Pickett, D. Nunn, A. G. Demekhov, E. E. Titova</i>	307-TUE-P1700-1364

### ***III.08 Other magnetospheric worlds***

Oral: FRI28 08:30-10:00, 10:30-12:00 Educator's Hall

08:30	<b>MOONS AND RINGS AND THE PLASMAS OF THEIR ENVIRONMENTS</b>	308-FRI-O0830-1306
I	MARGARET KIVELSON	
08:45	<b>GLOBAL STRUCTURE AND DYNAMICS IN THE MAGNETOSPHERES OF JUPITER AND SATURN</b>	308-FRI-O0845-1078
I	CHRIS ARRIDGE	
09:00	<b>THE DRIPPING FAUCET MODEL OF THE MASS-LOADED KRONIAN MAGNETOSPHERE</b>	308-FRI-O0900-0748
	BERTALAN ZIEGER, Kenneth C. Hansen, Tamas I. Gombosi	
09:15	<b>ROTATIONAL PERIODICITIES IN SATURN'S MAGNETOSPHERE</b>	308-FRI-O0915-1239
	PONTUS C. BRANDT, D. G. Mitchell, K. K. Khurana, B. Zieger, K. C. Hansen, C. P. Paranicas, J. F. Carbary	
09:30	<b>ELECTROSTATIC WAVES IN THE DOUBLE-KAPPA PLASMA OF SATURN'S MAGNETOSPHERE</b>	308-FRI-O0930-0535
	MANFRED A. HELLBERG, Thomas K. Baluku, Richard L. Mace	
10:30	<b>AURORA AT EARTH, JUPITER AND SATURN: A COMPARATIVE VIEW</b>	308-FRI-O1030-1132
I	JEAN-CLAUDE GERARD	
11:15	<b>SOURCES AND SINKS OF NEUTRALS AND PLASMA IN THE JOVIAN AND SATURNIAN MAGNETOSPHERES</b>	308-FRI-O1115-0637
	JOHN D RICHARDSON	
11:30	<b>RESONANT ABSORPTION AT MERCURY'S MULTI ION PLASMAS</b>	308-FRI-O1130-0926
	EUN-HWA KIM, Jay R. Johnson	
11:45	<b>Discussion</b>	

**III.09 Conjugate and inter-hemispheric studies of polar geophysical phenomena: Results from the International Polar and Heliophysical Years (IPY/IHY)**

Oral: SAT29 08:30-10:00 LFCCC Petőfi

Poster: SAT29 17:00-19:00 Gimn. Halls, Level 0

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| 08:30 | <b>DEVELOPMENT OF TEC FLUCTUATIONS AT POLAR IONOSPHERE: NORTHERN AND SOUTHERN HEMISPHERES</b><br><i>IRK SHAGIMURATOV, Andrzej Krankowski, Irina Zakharenkova, Yuriy Ruzhin, Ivan Ephishov</i>   | 309-SAT-O0830-0193 |
| 08:45 | <b>ASYMMETRIC AURORA DETECTED IN THE TWO HEMISPHERES SIMULTANEOUSLY</b><br><i>NIKOLAI OSTGAARD and Karl Magnus Launda</i>   | 309-SAT-O0845-1021 |
| 09:00 | <b>CONJUGATE AURORA OBSERVATIONS OF SUBSTORMS</b><br><i>KARL M. LAUNDAL and N. Østgaard</i>   | 309-SAT-O0900-1193 |
| 09:15 | <b>GLOBAL ASYMMETRY IN FIELD-ALIGNED CURRENT AND CONVECTION ASSOCIATED WITH THE IMF CLOCK ANGLE AND SOLAR ZENITH ANGLE</b><br><i>RENATA LUKIANOVA, Alexander Kozlovsky, Freddy Christiansen</i> | 309-SAT-O0915-0450 |
| 09:30 | <b>COMPARING GEOMAGNETIC MEASUREMENTS IN BOTH HEMISPHERES FOR SIMILAR IMF CONDITIONS</b><br><i>DANIEL R. WEIMER, C. Robert Clauer</i>   | 309-SAT-O0930-0517 |
| 09:45 | <b>CONJUGATE OBSERVATIONS OF DAYSIDE MAGNETIC IMPULSE EVENTS</b><br><i>David Murr, S. Shepherd</i>  | 309-SAT-O0945-1257 |

**Poster Session (17:00-19:00)**

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| <b>INTER-HEMISPHERE ASYMMETRY OF HIGH-LATITUDE ULF GEOMAGNETIC PULSATION IN THE INITIAL PHASE OF MAGNETIC STORM</b><br><i>Natalia Kleimenova, OLGA KOZYREVA</i> | 309-SAT-P1700-0423 |
| <b>MONITORING THE LOWER IONOSPHERE AT BOTH POLES: THE GLOBAL AARDDVARK NETWORK</b><br><i>MARK A. CLILVERD, Craig J. Rodger, and the AARDDVARK Team</i>          | 309-SAT-P1700-0721 |

### III.10 ULF Waves as magnetospheric probes

Oral: SAT29 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 Educator's Hall

Poster: SAT29 17:00-19:00 Gimn. Halls, Level 0

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| 08:30 | <b>APPLICATIONS OF ULF WAVES AS DIAGNOSTICS OF THE<br/>I MAGNETOSPHERE AND EFFECTS IN THE IONOSPHERE</b><br><i>COLIN L. WATERS</i>   | 310-SAT-O0830-1291 |
| 09:00 | <b>FIELD LINE RESONANCE SOUNDING OF 2D MAGNETOSPHERIC<br/>DENSITY BY MULTIPLE MAGNETOMETER NETWORKS</b><br><i>PETER J. CHI, K. Takahashi, F. K. Chun, M. Connors, C. T. Russell, I. R. Mann,<br/>E. W. Worthington</i>   | 310-SAT-O0900-1237 |
| 09:15 | <b>PROBING MAGNETOSPHERIC MASS DENSITY USING ULF WAVES<br/>I OBSERVED FROM SPACECRAFT</b><br><i>KAZUE TAKAHASHI</i>  | 310-SAT-O0915-0633 |
| 09:45 | <b>HIGH LATITUDE OBSERVATIONS OF ULF WAVES</b><br><i>TIMOTHY K. YEOMAN</i>   | 310-SAT-O0945-0851 |
| 10:30 | <b>GEOMAGNETIC TOPOLOGICAL EFFECTS ON HIGH LATITUDE<br/>FIELD LINE RESONANCES</b><br><i>M. D. Sciffer, C. L. WATERS, S. T. Ables, E. K. Inness and B. J. Fraser</i>  | 310-SAT-O1030-1286 |
| 10:45 | <b>ULF WAVES DRIVEN BY SOLAR WIND DISTURBANCES</b><br><b>I</b> <i>SHIGERU FUJITA, Tetsuro Motoba, and Takashi Tanaka</i>   | 310-SAT-O1045-0771 |
| 11:15 | <b>CONE ANGLE CONTROL OF GLOBAL PC3 ACTIVITY: A NEW<br/>INDEX TO CHARACTERIZE UPSTREAM WAVE RELATED<br/>PULSATION ACTIVITY</b><br><i>BALÁZS HEILIG, József Verő, Alan Berarducci, Bill Worthington, Jan Reda, Kari<br/>Pajunpää, Tero Raita, Péter Kovács, András Csontos</i>  | 310-SAT-O1115-0998 |
| 11:30 | <b>THREE-DIMENSIONAL MAGNETOHYDRODYNAMIC<br/>SIMULATIONS OF NONLINEAR FIELD LINE RESONANCES</b><br><i>KYUNG-IM KIM, Dong-Hun Lee, Dongsu Ryu</i>   | 310-SAT-O1130-0692 |
| 11:45 | <b>ULF WAVES IN THE UPPER IONOSPHERE AND ON THE GROUND:<br/>I OBSERVATIONS AND MODEL</b><br><i>VIACHESLAV PILIPENKO</i>  | 310-SAT-O1145-0361 |
| 13:30 | <b>ULF GEOMAGNETIC PULSATIONS AT DIFFERENT LATITUDES IN<br/>THE SOUTHERN POLAR CAP</b><br><i>PATRIZIA FRANCA, M. De Lauretis, M. Vellante, U. Villante, A. Piancatelli</i>   | 310-SAT-O1330-0888 |
| 13:45 | <b>NEW SUBSTORM INDEX, WP INDEX, DERIVED FROM HIGH-<br/>RESOLUTION GEOMAGNETIC FIELD DATA AT LOW LATITUDE<br/>AND ITS COMPARISON WITH AE AND ASY INDICES</b><br><i>MASAHITO NOSÉ, T. Iyemori, M. Takeda, H. Toh, T. Ookawa, G. Cifuentes-<br/>Nava, J. Matzka, J. J. Love, H. McCreadie, M. K. Tunçer, K. Koga, H. Matsumoto<br/>and J. J. Curto</i> | 310-SAT-O1345-0965 |
| 14:00 | <b>INITIAL OBSERVATIONS OF ULF WAVES USING GPS TEC</b><br><i>DAVID MURR, G. Bust, L. Dyrud, V. Pilipenko, M. Engebretson, S. Shepherd</i>  | 310-SAT-O1400-0920 |
| 14:15 | <b>NEW ULF-INDEX AS A PROXY OF MAGNETIC STORM WAVE<br/>SIGNATURE</b><br><i>OLGA KOZYREVA, Natalia Kleimenova</i>   | 310-SAT-O1415-0164 |
| 14:30 | <b>TRANSVERSE SCALE SIZE OF PC3 ULF WAVES NEAR THE<br/>EXTERIOR CUSP</b><br><i>YONGHUA H. LIU, B. J. FRASER, S. T. Ables, B. C. Zhang, R. Y. Liu, M. W.<br/>Dunlop, J. Waterman</i>  | 310-SAT-O1430-0781 |
| 14:45 | <b>THE INTERACTION BETWEEN SHEAR ALFVÉN WAVES AND WARM<br/>I ELECTRONS IN THE EARTHS MAGNETOSPHERE</b><br><i>CLARE E. J. WATT, R. Rankin and I. J. Rae</i>   | 310-SAT-O1445-0248 |

- 15:30 **A CONJUNCTION STUDY OF PLASMASPHERIC DRAINAGE  
PLUMES IN JUNE 2001 USING IMAGE-EUV AND CROSS-PHASE  
MEASUREMENTS** 310-SAT-O1530-0877  
*Yuki Obana, Frederick W. Menk and Ichiro Yoshikawa*
- 15:45 **MULTIPLE-HARMONIC ULF WAVES IN THE PLASMA SHEET  
BOUNDARY LAYER OBSERVED BY CLUSTER** 310-SAT-O1545-0854  
*MARK ENGBRETSON, Carl Kahlstorf, Jennifer Posch, Matthew Broughton,  
Karl-Heinz Glassmeier, Karl-Heinz Fornacon, Andreas Keiling, Henri Rème*
- 16:00 **MONOCHROMATIC ULF WAVE BURST AS A SIGNATURE OF ION  
TEMPERATURE ANISOTROPY IN THE CUSP REGION** 310-SAT-O1600-0883  
*BENJAMIN GRISON, Ondrej Santolik, Jean-Michel Bosqued, Nicole Cornilleau-  
Wehrlin, Elisabeth Lucek, Mats André, Iannis Dandouras and Andrew Fazakerley*
- 16:15 **EIGENMODES OF LINEAR POLARIZED EMIC WAVES IN THE  
I MANGETOSPHERE** 310-SAT-O1615-0925  
*EUN-HWA KIM, Jay R. Johnson*
- 16:45 **COMPARISON OF ULTRA-LOW-FREQUENCY WAVES AT MERCURY  
I UNDER NORTHWARD AND SOUTHWARD IMF** 310-SAT-O1645-0507  
*SCOTT A. BOARDSEN, James A. Slavin, Brian J. Anderson, Mario H. Acuna,  
Haje Korth, and Sean C. Solomon*

**Poster Session (17:00-19:00)**

<b>WORLD MAP OF MAGNETIC OBSERVATORIES: 2009</b> <i>PETER J. CHI</i>	310-SAT-P1700-1284
<b>FIELD LINE RESONANCE SIGNATURES ASSOCIATED WITH LOW LATITUDE PC3-4 PULSATIONS</b> <i>KAZUE TAKAHASHI, Peter J. Chi</i>	310-SAT-P1701-0733
<b>PC3-4 EVENTS IN THE SOUTHERN POLAR CAP AND AT LOW LATITUDE: RELATIONSHIP WITH UPSTREAM WAVES</b> <i>MARCELLO DE LAURETIS, Umberto Villante, Mauro Regi, Patrizia Francia, Massimo Vellante, Andrea Piancatelli</i>	310-SAT-P1702-0882
<b>PC2-3 GEOMAGNETIC PULSATIONS ON THE GROUND AND IN SPACE. RESULTS OF COMPARATIVE ANALYSIS OF MM100 AND CHAMP DATA</b> <i>NADEZDA YAGOVA, Balázs Heilig, Evgeny Fedorov, Péter Kovács, Hermann Lühr, Jan Reda, Kari Pajunpää, Tero Raita</i>	310-SAT-P1703-1002
<b>IMPROVED HODOGRAPH METHOD TO ESTIMATE THE LATITUDE DEPENDENCIES OF THE FREQUENCY AND WIDTH OF THE FIELD-LINE RESONANCE FROM GROUND MAGNETOMETER DATA</b> <i>HIDEAKI KAWANO, V. Pilipenko, S. Saita, K. Yumoto, I. Mann</i>	310-SAT-P1704-0685
<b>MAGNETIC LATITUDE AND LOCAL TIME DEPENDENCE OF THE AMPLITUDE OF GEOMAGNETIC SUDDEN COMMENCEMENTS</b> <i>ATSUKI SHINBORI, Yuji Tsuji, Takashi Kikuchi, Tohru Araki, Shinichi Watari, Teiji Uozumi and Kiyohumi Yumoto</i>	310-SAT-P1705-0726
<b>SPATIAL AND TEMPORAL STRUCTURES IN P13 PULSATIONS USING SINGULAR SPECTRUM ANALYSIS: A CASE STUDY</b> <i>ANAND K. SINGH, A. K. Sinha, and B. M. Pathan</i>	310-SAT-P1706-0269
<b>POLAR LATITUDE ULF BURSTS ASSOCIATED WITH ENERGETIC (300-600 KEV) ELECTRON PRECIPITATION AND VISUAL AURORAS</b> <i>OLGA KOZYREVA, Irina Myagkova, Elizaveta Antonova, Natalia Kleimenova</i>	310-SAT-P1707-0165
<b>A STUDY OF L-DEPENDENT PC3 PULSATIONS OBSERVED BY LOW EARTH ORBITING CHAMP SATELLITE</b> <i>DZIVHULUWANI NDIITWANI and Peter Sutcliffe</i>	310-SAT-P1708-0858
<b>FRACTAL ANALYSIS OF ULF GEOMAGNETIC FIELDS IN RELATION TO THE SOLAR ECLIPSE ON 26 JANUARY 2009</b> <i>FERRY IRAWAN TANJUNG</i>	310-SAT-P1709-0412
<b>NEURAL NETWORK MODEL OF SOLAR WIND - PC3 PULSATION RELATIONSHIP</b> <i>STEFAN I. LOTZ, P. R. Sutcliffe, L. McKinnell</i>	310-SAT-P1710-0837
<b>THE SPECTRAL STRUCTURE OF PC3 PULSATIONS</b> <i>P. R. SUTCLIFFE, B. Heilig, D. C. Ndiitwani, and L. Merényi</i>	310-SAT-P1711-0861
<b>CONJUGATE ASYMMETRY IN ULF PC3 WAVE BEHAVIOUR AND ITS VARIATION THROUGH THE SOLAR CYCLE</b> <i>BALÁZS HEILIG, Peter Sutcliffe, József Verő</i>	310-SAT-P1712-0770
<b>SIMULTANEOUS OBSERVATION OF DIFFUSE IONS AND ULF WAVES IN THE FORESHOCK, AND GROUND SURFACE GEOMAGNETIC PULSATIONS WITH UPSTREAM ORIGIN</b> <i>BALÁZS HEILIG, Árpád Kis</i>	310-SAT-P1713-1219

### ***III.11 Reporter reviews***

Oral: WED26 10:30-12:00, 13:30-15:00, 15:30-17:00 LFCCC Petőfi

10:30	<b>REPORTER REVIEW: MAGNETOPAUSE AND BOUNDARY LAYER</b>	311-WED-O1030-0703
I	<i>BENOIT LAVRAUD</i>	
11:00	<b>AURORAL PHENOMENA</b>	311-WED-O1100-0250
I	<i>CLARE E. J. WATT</i>	
11:30	<b>REPORTER REVIEW: ULF WAVES</b>	311-WED-O1130-0811
I	<i>FREDERICK W MENK</i>	
13:30	<b>MAGNETOTAIL DYNAMICS</b>	311-WED-O1330-0723
I	<i>JOACHIM BIRN</i>	
14:00	<b>INNER MAGNETOSPHERE: REPORTER REVIEW</b>	311-WED-O1400-1122
I	<i>YUSUKE EBIHARA</i>	
14:30	<b>WAVE-PARTICLE INTERACTIONS IN THE INNER</b>	311-WED-O1430-0686
I	<b>MAGNETOSPHERE</b>	
	<i>NIGEL P. MEREDITH</i>	
15:30	<b>REPORTER REVIEW: GLOBAL DYNAMICS OF THE</b>	311-WED-O1530-0509
I	<b>MAGNETOSPHERE</b>	
	<i>MICHAEL WILTBERGER</i>	
16:00	<b>MAGNETOSPHERES OF SOLAR SYSTEM BODIES OTHER THAN</b>	311-WED-O1600-1023
I	<b>EARTH: RESEARCH 2007-2009</b>	
	<i>EMMA BUNCE</i>	



## ***DIVISION IV***

### ***IV.01 New solar and interplanetary results***

Oral: MON24 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 LFCCC Liszt

Oral: TUE25 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 LFCCC Liszt

Poster: MON24 17:00-19:00 Gimn. Halls, Level 0

08:30	<b>LOCAL HELIOSEISMOLOGY</b>	401-MON-O0830-1224
I	<i>LAURENT GIZON</i>	
09:15	<b>WEAKENING SOLAR ACTIVITY: END OF AN EXCEPTIONALLY ACTIVE PERIOD?</b>	401-MON-O0915-1094
	<i>KALEVI MURSULA</i>	
09:30	<b>THE UNPRECEDENTED SOLAR MAGNETIC FIELDS AND THEIR IMPLICATION</b>	401-MON-O0930-0502
	<i>YU YI, Su Yeon Oh</i>	
09:45	<b>NORHT-SOUTH ASYMMETRIES IN SOLAR CYCLES</b>	401-MON-O0945-1252
	<i>Judit Muraközy, ANDRÁS LUDMÁNY</i>	
10:30	<b>SOLAR INTERIOR DYNAMICS</b>	401-MON-O1030-0268
I	<i>MATTHIAS REMPEL</i>	
11:00	<b>DISCOVERY OF THE VORTEX FLOWS PREDICTED BY THE MODELS OF SOLAR CONVECTION</b>	401-MON-O1100-0895
	<i>J. SÁNCHEZ ALMEIDA, J. A. Bonet, I. Márquez, I. Cabello, V. Domingo</i>	
11:15	<b>FORMATION AND PROPAGATION OF CORONAL SHOCKS</b>	401-MON-O1115-0406
I	<i>BOJAN VRSNAK</i>	
11:45	<b>THE SOLAR MORETON WAVE OF 6 DECEMBER 2006: EVIDENCE FOR A CME DRIVER</b>	401-MON-O1145-0547
	<i>EDWARD W. CLIVER</i>	
13:30	<b>CONSTRAINTS ON CME INITIATION AND EARLY EVOLUTION FROM SECCHI ON STEREO</b>	401-MON-O1330-1320
I	<i>SPIROS PATSOURAKOS</i>	
14:00	<b>THE CME-FLARE RELATION REVISITED WITH STEREO OBSERVATIONS</b>	401-MON-O1400-1010
	<i>NARIAKI V. NITTA, Markus J. Aschwarden, James R. Lemen, Jean-Pierre Wuelser and Dominic M. Zarro</i>	
14:15	<b>3D MHD NUMERICAL SIMULATION OF ACTIVE REGIONS ON THE SOLAR ATMOSPHERE</b>	401-MON-O1415-0315
	<i>JEAN CARLO SANTOS, Jörg Büchner</i>	
14:30	<b>HEMISPHERIC AND LONGITUDINAL ASYMMETRIES IN CME OCCURRENCE</b>	401-MON-O1430-1088
	<i>Timo Asikainen, Kalevi Mursula, Eva Robbrecht and David Berghmans</i>	
14:45	<b>ULTRA-LONG-PERIOD OSCILLATIONS IN EUV FILAMENTS NEAR TO ERUPTION: TWO-WAVELENGTH CORRELATION AND SEISMOLOGY</b>	401-MON-O1445-1210
	<i>CLAIRE FOULLON, E. Verwichte, V. M. Nakariakov</i>	

15:30	<b>MHD SIMULATIONS OF THE GLOBAL SOLAR CORONA AND THE SOLAR WIND</b> I ROBERTO LIONELLO	401-MON-O1530-0443
16:00	<b>TEMPERATURE DEPENDENT PLASMA UPFLOWS IN THE SOLAR ATMOSPHERE AND THE CORONAL TEMPERATURE</b> KIYOTO SHIBASAKI	401-MON-O1600-0018
16:15	<b>DIRECT RADIO PROBING AND INTERPRETATION OF THE SUN'S DENSITY PROFILE</b> IVER H. CAIRNS, Vasili V. Lobzin, Alexander Warmuth, Bo Li, Peter A. Robinson, and Gottfried Mann	401-MON-O1615-0181
16:30	<b>NEW MODELS OF CORONAL STREAMERS WITH HEAVY IONS</b> LEON OFMAN	401-MON-O1630-1053
16:45	<b>MODELLING FORMATION AND EVOLUTION DYNAMICS OF THE LOOP PROMINENCES AND SUBSTANCE MOTION IN MAGNETIC FIELD</b> ALEXANDER GLUSHKOV	401-MON-O1645-0355
08:30	<b>THREE-DIMENSIONAL MAGNETIC RECONNECTION</b> CLARE PARNELL	401-TUE-O0830-0532
09:00	<b>POLAR CORONAL JETS IN THE FAST SOLAR WIND</b> MARI PAZ MIRALLES	401-TUE-O0900-1307
09:15	<b>MAGNETIC RECONNECTION IN SOLAR ATMOSPHERE OBSERVED BY HINODE</b> I SHINSUKE IMADA, <i>Hinode Team</i>	401-TUE-O0915-0871
09:45	<b>MODELING UV EMISSION AND ION CHARGE STATES IN THE POST-CME CURRENT SHEET</b> Yuan-Kuen Ko, John C. Raymond, Bojan Vrsnak	401-TUE-O0945-0555
10:30	<b>INTERPLANETARY CORONAL MASS EJECTIONS AT SOLAR MINIMUM: STEREO OBSERVATIONS</b> I EMILIA KILPUA	401-TUE-O1030-0449
11:00	<b>EVALUATION AND EVOLUTION OF SPEED FOR HALO AND PARTIAL HALO CMES</b> GUADALUPE MUÑOZ MARTINEZ	401-TUE-O1100-1218
11:15	<b>INFLUENCE OF EXPANSION ON MAGNETIC CLOUD FITS</b> A. LYNKY, M. Vandas	401-TUE-O1115-1058
11:30	<b>THE JANUARY 2007 CME OBSERVED WITH STEREO/SECCHI AND SOHO/LASCO AND ITS ARRIVAL AT VENUS</b> Alisson Dal Lago, Bernd Inhester, Luis Eduardo Antunes Vieira	401-TUE-O1130-1203
13:30	<b>SOLAR WIND OBSERVATIONS FROM THE STEREO PERSPECTIVE (2007-2009)</b> I ANTOINETTE B. GALVIN	401-TUE-O1330-0823
14:00	<b>A NEW FORECASTING INDEX FOR SOLAR WIND VELOCITY BASED ON EIT 284 OBSERVATIONS</b> BINGXIAN LUO, Qiuzhen Zhong, Siqing Liu, Jiancun Gong	401-TUE-O1400-0663
14:15	<b>POWER DISSIPATION THROUGH ALFVEN WAVES IN SOLAR WIND</b> ZUBIA KIRAN	401-TUE-O1415-0035
14:30	<b>MULTI-SPACECRAFT STUDY OF THE GEOMETRY OF INTERPLANETARY MAGNETIC FIELD DEPRESSIONS</b> GÉZA ERDŐS and Mariella Tótrallyay	401-TUE-O1430-1238

- 15:30 **FIRST RESULTS FROM THE INTERSTELLAR BOUNDARY EXPLORER (IBEX)** 401-TUE-O1530-0725  
**I**  
 DAVID J. MCCOMAS
- 16:00 **GROUND-BASED THERMAL NEUTRONS OBSERVATIONS** 401-TUE-O1600-0331  
 EKATERINA SIGAEVA, Oleg Nechaev, Artem Barkov
- 16:15 **OSCILLATIONS OF SOLAR AND LUNAR ORIGIN IN SPACED MEASUREMENTS OF THE SOLAR WIND PARAMETERS AT NEAR EARTH ORBIT** 401-TUE-O1615-0234  
 TAMARA KUZNETSOVA
- 16:30 **MONITORING OF TURBULENCE UPSTREAM AND DOWNSTREAM OF THE BOW SHOCK USING THE CLUSTER OBSERVATIONS** 401-TUE-O1630-0338  
 PÉTER KOVÁCS, Balázs Heilig, András Csontos
- 16:45 **DIFFUSE ION E-FOLDING DISTANCE AND DIFFUSION COEFFICIENT DEPENDENCE ON DIFFERENT SOLAR WIND PLASMA CONDITIONS: NEW RESULTS** 401-TUE-O1645-0326  
 ARPAD KIS, M. Scholer, B. Klecker, E. A. Lucek, H. Rème

**Poster Session (17:00-19:00)**

- MERGING AND GROWTH OF CELLULAR MAGNETIC STRUCTURES LEADING TO SOLAR ERUPTION** 401-MON-P1700-0251  
 GWANG SON CHOE, C. Z. Cheng, K. S. Kim
- STATISTICAL EVIDENCE OF THE REALITY OF GLOBALLY NON-SIMULTANEOUS FORBUSH DECREASE EVENTS** 401-MON-P1700-0501  
 SU YEON OH, Yu Yi, Yong Kyun Kim, John Bieber
- THE DISTRIBUTION OF PHOTOSPHERIC FLUXES** 401-MON-P1700-0533  
 Clare E. Parnell, Craig E. Deforest, Hermance J. Hagenaar, Derek Lamb and Brian Welsch
- SIGNAL THEORY AS A TOOL TO STUDY EFFECTS OF COSMIC RAYS, SOLAR ACTIVITY AND AFRICAN DUST ON NORTH ATLANTIC HURRICANES** 401-MON-P1700-0759  
 JORGE PÉREZ-PERAZA and Victor Velasco-Herrera
- THE THREE-DECADAL COSMIC RAYS CYCLE** 401-MON-P1700-0760  
 JORGE PÉREZ-PERAZA and Victor Velasco-Herrera
- ASYMMETRY OF THE HELIOSPHERIC CURRENT SHEET DURING THE THREE ULYSSES FAST LATITUDE SCANS** 401-MON-P1700-1071  
 ILPO VIRTANEN, Kalevi Mursula
- CORRELATION FUNCTIONS OF SMALL-SCALE FLUCTUATIONS OF THE INTERPLANETARY MAGNETIC FIELD** 401-MON-P1700-1188  
 ZOLTÁN NÉMETH, Gábor Facskó, Elisabeth Lucek
- IMPROVED ANALYSIS OF DIFFERENTIAL ROTATION PARAMETERS OF ACTIVE LONGITUDES OF SOLAR X-RAY FLARES** 401-MON-P1700-1245  
 L. ZHANG, Kalevi Mursula and I. Usoskin

#### IV.02 From micro- to macro-scales in the heliosphere and magnetospheres

Oral: TUE25 08:30-10:00, 10:30-12:00, 13:45-15:00, 15:30-17:00 LFCCC Széchenyi

08:30	<b>COUPLING BETWEEN EXTERNAL AND INTERNAL SCALES IN THE POWER LAW TURBULENCE OF THE SOLAR ATMOSPHERE AND THE HELIOSPHERE</b>	402-TUE-O0830-0136
I	IGOR S. VESELOVSKY	
09:00	<b>THE INTERACTIONS BETWEEN ALFVEN WAVES AND PERPENDICULAR SHOCKS</b>	402-TUE-O0900-0076
I	Quanming Lu, Qiang Hu and Gary P. Zank	
09:30	<b>CROSS-SCALE COUPLING AT A COLLISIONLESS SHOCK</b>	402-TUE-O0930-0604
	TAKAYUKI UMEDA, Masahiro Yamao, and Ryo Yamazaki	
09:45	<b>PARTICLE ACCELERATION AT PERPENDICULAR SHOCKS: THE ROLE OF FIELD LINE TOPOLOGY</b>	402-TUE-O0945-0734
	JÓZSEF KÓTA	
10:30	<b>REVIEW OF RADIO EMISSIONS FROM CORONAL AND INTERPLANETARY SHOCK WAVES</b>	402-TUE-O1030-0183
I	IVER H. CAIRNS	
11:00	<b>SPATIAL-TEMPORAL STUDY OF HOT FLOW ANOMALIES USING CLUSTER MEASUREMENTS</b>	402-TUE-O1100-0087
	GÁBOR FACSKÓ, Péter Kovács, Jean-Gabriel Trotignon, Adrian Blagau, Iannis Dandouras, Elisabeth Lucek	
11:15	<b>IMAGING THE INTERSTELLAR NEUTRAL GAS FLOW IN EARTH'S ORBIT WITH IBEX</b>	402-TUE-O1115-0745
I	EBERHARD MÖBIUS on behalf of the entire IBEX Team	
11:45	<b>INFLUENCE OF THE HELIOSPHERIC INTERFACE ON THE DISTRIBUTION OF INTERSTELLAR H ATOMS INSIDE THE HELIOSPHERE</b>	402-TUE-O1145-0862
	OLGA KATUSHKINA, Vladislav Izmodenov	
13:45	<b>TOWARDS OPENGCM 4.0: SIMULATING THE GLOBAL MAGNETOSPHERE WITH RING CURRENT, RADIATION BELTS, PLASMASPHERE, AND HALL MHD</b>	402-TUE-O1345-0626
I	JOACHIM RAEDER, Kai Germaschewski, Amitava Bhattacharjee, Douglas Larson, Wenhui Li, Alexander Vapirev, Mei-Ching Fok, Alexander Gloer, Frank Toffoletto, Bei Hu, Anthony Chan, Timothy Fuller-Rowell, Naomi Maruyama, Arthur Richmond, Astrid Maute	
14:15	<b>AN INITIAL RESULT OF 3D FULL PARTICLE SIMULATION OF QUASI-PERPENDICULAR SHOCK</b>	402-TUE-O1415-1055
	IKU SHINOHARA and M. Fujimoto	
14:30	<b>3D DISTRIBUTION OF INTERSTELLAR OXYGEN ATOMS IN THE HELIOSPHERE</b>	402-TUE-O1430-1115
	VLADISLAV IZMODENOV, Dmitry Aleksashov, Olga Katushkina	
14:45	<b>INVESTIGATION OF STRONGLY PERTURBED HELIOSPHERIC PARAMETERS IN THE PAST BASED ON GEOMAGNETIC DATA</b>	402-TUE-O1445-1155
	OLESYA YAKOVCHOUK, Kalevi Mursula, Igor Veselovsky	
15:30	<b>Discussion</b>	
16:00	<b>POSSIBLE NEW SOURCE OF THE HELIOSPHERIC ENAS: INTERSTELLAR PICKUP PROTONS</b>	402-TUE-P1600-1126
	Yury Malama, VLADISLAV IZMODENOV, Sergey Chalov	

#### Poster Session (17:00-19:00)

16:00	<b>POSSIBLE NEW SOURCE OF THE HELIOSPHERIC ENAS: INTERSTELLAR PICKUP PROTONS</b>	402-TUE-P1600-1126
	Yury Malama, VLADISLAV IZMODENOV, Sergey Chalov	

### IV.03 Universal heliophysical processes

Oral: FRI28 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 LFCCC Liszt  
Oral: SAT29 08:30-10:00, 10:30-12:00, 13:45-15:00, 15:30-17:00 LFCCC Liszt  
Poster: FRI28 17:00-19:00 Gimn. Halls, Level 0

08:30	<b>INTERNATIONAL SPACE WEATHER INITIATIVE (ISWI)</b>	403-FRI-O0830-1338
I	JOSEPH DAVILA, Nat Gopalswamy, Barbara Thompson, Tom Bogdan, Mike Hapgood	
09:00	<b>SOLAR OSCILLATIONS: CURRENT TRENDS</b>	403-FRI-O0900-1253
I	SEBASTIEN COUVIDAT	
09:30	<b>FORECASTS FOR THE NEXT SOLAR ACTIVITY CYCLE AND DYNAMO THEORY</b>	403-FRI-O0930-1046
	KRISTOF PETROVAY	
10:30	<b>SOLAR DYNAMO, INTERPLANETARY MAGNETIC FIELD, AND TERRESTRIAL CLIMATE</b>	403-FRI-O1030-0324
	KATYA GEORGIEVA	
10:45	<b>SIGNATURE OF HALE AND GLEISSBERG SOLAR CYCLES IN THE HELIOSPHERE - MAGNETOSPHERE ENVIRONMENT</b>	403-FRI-O1045-0292
	CRISAN DEMETRESCU, Venera Dobrica, Georgeta Maris	
11:00	<b>AN IMPROVED PREDICTION FOR THE SOLAR CYCLE 24</b>	403-FRI-O1100-1025
	GIULI VERBANAC, Roman Brajsa, Edward Cliver, Leif Svalgaard, Hubertus Woehl, Markus Roth, Arnold Hanslmeier	
11:15	<b>FLUX ROPES IN THE HELIOSPHERE</b>	403-FRI-O1115-0470
I	MARK LINTON	
11:45	<b>ROTATION OF ERUPTING MAGNETIC FLUX ROPES IN CORONAL MASS EJECTIONS</b>	403-FRI-O1145-0274
	TIBOR TÖRÖK, Bernhard Kliem, Mitchell A. Berger, Pascal Démoulin, Lidia van Driel-Gesztelyi	
13:30	<b>MAGNETIC FLUX AND HELICITY OF ACTIVE REGIONS IN THE SUN EARTH SYSTEM</b>	403-FRI-O1330-0496
	BRIGITTE SCHMIEDER, E. Pariat	
13:45	<b>LARGE-SCALE CORONAL WAVES ASSOCIATED WITH FLARES AND CMES</b>	403-FRI-O1345-0277
I	ASTRID M. VERONIG	
14:15	<b>WHITE-LIGHT OBSERVATIONS OF RADIO-QUIET AND RADIO-LOUD INTERPLANETARY SHOCKS</b>	403-FRI-O1415-1318
	NAT GOPALSWAMY, P. Mäkelä, H. Xie, S. Yashiro	
14:30	<b>CURRENT SHEETS IN THE SOLAR ATMOSPHERE</b>	403-FRI-O1430-0419
I	GIANNINA POLETTTO	

15:30	<b>THE SOLAR WIND</b>	403-FRI-O1530-1024
I	OYSTEIN LIE-SVENDSEN	
16:00	<b>SOLAR WIND PROPERTIES THROUGHOUT THE HELIOSPHERE BY MULTI-SPACECRAFT ANALYSIS</b>	403-FRI-O1600-1334
	ANDREA OPITZ, Jean-Andre Sauvaud, Peter Wurz, Karoly Szego, Andrei Fedorov, Janet Luhmann, Paul Kellogg, Christopher T. Russell, Antoinette B. Galvin, Stas Barabash, Reto Karrer	
16:15	<b>ENCORE OF THE BASHFUL BALLERINA IN SOLAR CYCLE 23</b>	403-FRI-O1615-1107
	KALEVI MURSULA, I. I. Virtanen	
16:30	<b>GEOMAGNETIC STORM WITH MAIN PHASE DURING NORTHWARD IMF AND TRANSFER OF ELECTROMAGNETIC ENERGY TO MAGNETOSPHERE</b>	403-FRI-O1630-0236
	TAMARA KUZNETSOVA, Alex Laptukhov, Valery Petrov	
16:45	<b>OBSERVATION OF A COMPLEX SOLAR WIND RECONNECTION EXHAUST FROM SPACECRAFT SEPARATED BY OVER 1800 RE</b>	403-FRI-O1645-0702
	BENOIT LAVRAUD, J. T. Gosling, A. P. Rouillard, A. Fedorov, A. Opitz, J.-A. Sauvaud, C. Foullon, I. Dandouras, V. Génot, C. Jacquy, P. Louarn, C. Mazelle, E. Penou, T. D. Phan, D. E. Larson, J. G. Luhmann, P. Schroeder, R. M. Skoug, J. T. Steinberg and C. T. Russell	
08:30	<b>MHD TURBULENCE IN THE HELIOSPHERE</b>	403-SAT-O0830-0189
I	BRUNO BAVASSANO	
09:00	<b>MAGNETIC TURBULENCE IS NOT OMNIPRESENT IN THE SOLAR WIND</b>	403-SAT-O0900-0793
	ZOLTÁN VÖRÖS, Manfred Leubner	
09:15	<b>SHORT-WAVELENGTH SOLAR WIND TURBULENCE: THE ROLE OF WHISTLER FLUCTUATIONS</b>	403-SAT-O0915-1144
	S. PETER GARY	
09:30	<b>RADIO EMISSION PROCESSES AS TRACERS OF HELIOSPHERIC WEATHER</b>	403-SAT-O0930-1059
I	MAURO MESSEROTTI	
10:30	<b>SOLAR INFLUENCE ON THE MAGNETOSPHERE: INFORMATIONS BY COSMIC RAYS</b>	403-SAT-O1030-0397
I	Karel Kudela, L. Lazutin	
11:00	<b>SOLAR INFLUENCE ON EARTH'S IONOSPHERE</b>	403-SAT-O1100-0065
I	NANAN BALAN, K. Shiokawa, Y. Otsuka and T. Kikuchi	
11:30	<b>INSTANTANEOUS DEVELOPMENT OF GLOBAL IONOSPHERIC CURRENTS DURING GEOMAGNETIC SUDDEN COMMENCEMENTS</b>	403-SAT-O1130-0601
I	TAKASHI KIKUCHI, Atsuki Shinbori, Yuji Tsuji, Kumiko K. Hashimoto, Shin-Ichi Watari, Tohru Araki, Mangalathayil A. Abdu, and S.-Y. Su	
13:45	<b>SHOCKS IN THE HELIOSPHERE</b>	403-SAT-O1345-0650
I	TOSHIO TERASAWA	
14:15	<b>SOLAR ENERGETIC PARTICLES</b>	403-SAT-O1415-0804
I	EINO VALTONEN	
14:45	<b>SOLAR ENERGETIC PARTICLE OBSERVATIONS AND PROPAGATION IN THE 3-D HELIOSPHERE IN DECEMBER 2006</b>	403-SAT-O1445-0335
	OLGA E. MALANDRAKI, Richard G. Marsden, David Lario, Cecil Tranquille, Bernd Heber, Richard A. Mewaldt, Christina M. S. Cohen, Louis J. Lanzerotti, Robert B. Forsyth, Heather A. Elliott, Athanasios Geranios	
15:30	<b>SOLAR WIND AND MEV ENERGY PROTONS</b>	403-SAT-O1530-0530
	Károly Kecskeméty, Elena Daibog, Mariya Zeldovich, Yuri Logachev	
16:00	<b>PHYSICS OF THE OUTER HELIOSPHERE</b>	403-SAT-O1600-0153
	CHI WANG, John. D. Richardson	
16:30	<b>COSMIC RAYS AND SOLAR ACTIVITY</b>	403-SAT-O1630-0842
	STEFAN FERREIRA	

**Poster Session (17:00-19:00)**

**MHD WAVES AND INSTABILITIES IN ANISOTROPIC SOLAR WIND PLASMA** 403-FRI-P1700-0099

*Vladimir Kuznetsov, Namig Dzhililov*

**EXTENSION OF MAGNETIC CLOUDS IN THE INNER HELIOSPHERE AS OBSERVATIONS BY MULTI-SPACECRAFTS** 403-FRI-P1700-0296

*ALINE DE LUCAS*

**A HIDRODYNAMICAL MODEL FOR CORONAL MASS EJECTIONS IN THE INTERPLANETARY MEDIUM AND SOME DATA COMPARISON** 403-FRI-P1700-0945

*Andrea I. Borgazzi, M. VIRGINIA ALVES, Alejandro Lara, Ezequiel Echer*

**THE APPARENT LAYERED STRUCTURE OF THE HELIOSPHERIC CURRENT SHEET: MULTI-SPACECRAFT OBSERVATIONS** 403-FRI-P1700-1217

*CLAIRE FOULLON, B. Lavraud, N. C. Wardle, C. J. Owen, H. Kucharek, A. N. Fazakerley, D. E. Larson, E. Lucek, J. G. Luhmann, A. Opitz, J.-A. Sauvaud, R. M. Skoug*

**MECHANISMS OF SOLAR FLARES** 403-FRI-P1700-1371

*SUBHON IBADOV, Firuz S. Ibodov, Samvel S. Grigorian*

#### IV.04 Advances in coordinated Sun-Earth system science through CAWSES and ILWS

Oral: FRI28 08:45-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 LFCCC Széchenyi

Poster: FRI28 17:00-19:00 Gimn. Halls, Level 0

- 08:45 **ORBIT SYNCHRONIZATION ENABLING TWO-POINT IN-SITU MEASUREMENTS FROM SOLAR PROBE+ AND SOLAR ORBITER** 404-FRI-O0845-0168  
**I** Adam Szabo, G. Marr and J. Downing
- 09:15 **SOLAR ORBITER: LINKING THE SUN AND INNER HELIOSPHERE** 404-FRI-O0915-0188  
**I** RICHARD MARSDEN, Daniel Mueller
- 09:45 **ANALOGY BETWEEN SOLAR FLARES AND AURORA** 404-FRI-O0945-0497  
BRIGITTE SCHMIEDER, G. Aulanier, P. Démoulin, and E. Pariat
- 10:30 **CROSS SCALE: A MISSION TO STUDY MULTI-SCALE COUPLING IN PLASMAS** 404-FRI-O1030-0923  
**I** RUMI NAKAMURA, S. J. Schwartz, M. Taylor, S. D. Bale, M. Fujimoto, P. Hellinger, W. Liu, P. Louarn, I. R. Mann, A. Masson, H. Opgenoorth, C. J. Owen, J.-L. Pincon, L. Sorriso-Valvo, A. Vaivads, R. F. Wimmer-Schweingruber
- 11:00 **SCIENTIFIC OBJECTIVES OF THE CANADIAN CASSIOPE ENHANCED POLAR OUTFLOW PROBE (E-POP) SMALL SATELLITE MISSION** 404-FRI-O1100-0415  
**I** ANDREW YAU, Gordon James
- 11:30 **LONG-TERM GEOMAGNETIC ACTIVITY: RECENT PROBLEMS, DEVELOPMENTS AND CONSEQUENCES FOR SPACE CLIMATE** 404-FRI-O1130-1222  
KALEVI MURSULA
- 11:45 **TEMPORAL CHANGES OF SOLAR ACTIVITY AND GLOBAL GEOPHYSICAL PARAMETERS OF THE EARTH ON DIFFERENT TIME SCALES** 404-FRI-O1145-0237  
TAMARA KUZNETSOVA
- 13:30 **COSMOGENIC ISOTOPES: SOLAR ACTIVITY AND CLIMATE** 404-FRI-O1330-1359  
**I** JUERG BEER, Friedhelm Steinhilber, Jose Abreu
- 14:00 **CAWSES: PAST, PRESENT, AND FUTURE** 404-FRI-O1400-1358  
**I** SUSAN K. AVERY, Alan Rodger
- 14:30 **THE PICARD MISSION** 404-FRI-O1430-0366  
**I** GERARD THUILLIER, Steven Dewitte, Werner Schmutz, and the PICARD team
- 15:30 **HIGHLIGHTS OF THE CAWSES PRIORITY PROGRAM IN GERMANY** 404-FRI-O1530-0905  
**I** FRANZ-JOSEF LÜBKEN
- 16:00 **ON THE REMARKABLE STRATOSPHERIC WARMING IN THE WINTER 2008/2009** 404-FRI-O1600-0499  
**I** KARIN LABITZKE, Markus Kunze
- 16:30 **VARIATIONS IN THE SOLAR FLUX DEPENDENCE OF MESOPAUSE TEMPERATURES OVER TWO SOLAR CYCLES** 404-FRI-O1630-1065  
JENS OBERHEIDE, D. Offermann, P. Knieling, R. Koppmann, W. Steinbrecht, K. Höppner

#### Poster Session (17:00-19:00)

- VARIATIONS OF AURORA EMISSIONS DURING SUBSTORMS CONNECTED WITH DIFFERENT SOLAR WIND STREAMS** 404-FRI-P1700-0196  
VENETA GUINEVA, Zhanna Dashkevich, Irina Despirak
- CONTRIBUTION OF NATURAL SOURCES INTO SURFACE TEMPERATURE CHANGES OF NORTH HEMISPHERE FOR THE LAST 1000 YEARS** 404-FRI-P1700-0238  
TAMARA KUZNETSOVA



#### ***IV.05 Neutral-plasma interactions for planets, moons, asteroids, and comets***

Oral: WED26 10:30-12:00, 13:30-15:00, 15:30-17:00 LFCCC Széchenyi

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|-------|---|--------------------|
| 10:30 | <b>SIMULATED SOLAR WIND INTERACTION WITH THE MARTIAN ENVIRONMENT</b><br><i>Ronan Modolo, GERARD M. CHANTEUR, Eduard Dubinin</i>   | 405-WED-O1030-1342 |
| 11:00 | <b>THE STRUCTURE OF TITAN'S INDUCED MAGNETOSPHERE</b><br><i>Cesar Bertucci, R. Modolo, K. Szego, N. Sergis, J-E. Wahlund, D. T. Young, S. Krimigis</i>  | 405-WED-O1100-1361 |
| 11:30 | <b>PROTON CYCLOTRON WAVE GENERATION MECHANISMS UPSTREAM OF VENUS</b><br><i>MAGDA DELVA, C. Mazelle, C. Bertucci, M. Volwerk, T. L. Zhang, Z. Vörös</i>  | 405-WED-O1130-1092 |
| 13:30 | <b>THE VARIABILITY, MORPHOLOGY AND OUTFLOW OF MARTIAN IONOSPHERIC PLASMA</b><br><i>RICKARD LUNDIN, S. Barabash, M. Holmström, H. Nilsson, M Yamauchi, M. Hamrin, D. Winningham, R. Frahm, H. Perez de-Tejada</i>  | 405-WED-O1330-0216 |
| 14:00 | <b>RESPONSE OF THE MARTIAN ENVIRONMENT TO A ROTATION OF THE IMF</b><br><i>GERARD M. CHANTEUR, Ronan Modolo, Eduard Dubinin</i>  | 405-WED-O1400-1343 |
| 14:30 | <b>NEW CHALLENGES FOR SIMULATIONS FROM THE CASSINI MISSION</b><br><i>Cesar Bertucci, R. Modolo, K. Szego, S. Simo</i>   | 405-WED-O1430-1362 |
| 14:45 | <b>A RE-EXAMINATION ON THE MASS BUDGET OF THE SATURN'S RING ATMOSPHERE AND IONOSPHERE AT EQUINOX</b><br><i>Wei-Ling Tseng and Wing-Huen Ip</i>  | 405-WED-O1445-1013 |
| 15:30 | <b>BOUNDARY LAYER IN THE VENUS IONOSHEATH: EVIDENCE FROM THE VENUS EXPRESS PLASMA DATA</b><br><i>HECTOR PÉREZ-DE-TEJADA, R. Lundin, S. Barabash, J. A. Sauvaud, A. Contes</i>   | 405-WED-O1530-0260 |
| 16:00 | <b>IONOSPHERIC PHOTOELECTRONS AT VENUS: A STATISTICAL REVIEW COVERING THE FIRST YEAR OF THE VEX MISSION</b><br><i>SHARON TSANG, Andrew Coates, Geraint Jones, Rudy Frahm, J. David Winningham, Stas Barabash, Rickard Lundin, Andrei Fedorov</i>                      | 405-WED-O1600-1029 |
| 16:30 | <b>COMPARATIVE ANALYSIS OF CASSINI'S TITAN FLYBYS T25-T33 ACCORDING TO THE MEASUREMENTS OF CASSINI-MIMI AND CAPS</b><br><i>ZSOFIA BEBESI, Norbert Krupp, Stamatios Krimigis, Markus Fränz, Donald G. Mitchell, Karoly Szegö, David T. Young, Michele K. Dougherty</i> | 405-WED-O1630-1070 |
| 16:45 | <b>THE NEUTRAL CLOUD ENVIRONMENT IN THE SATURNIAN MAGNETOSPHERE</b><br><i>Wei-Ling Tseng and Wing-Huen Ip</i>   | 405-WED-O1645-1015 |

#### **IV.06 Solar and interplanetary radio emissions**

Oral: WED26 10:30-12:00, 13:30-15:00, 15:30-17:00 LFCCC Liszt

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|-------------------|---|--------------------|
| 10:30<br><b>I</b> | <b>CONTRIBUTIONS OF RADIOHELIOGRAPH OBSERVATIONS TO THE UNDERSTANDING OF SOLAR FLARES, CORONAL MASS EJECTIONS AND SUN-EARTH CONNECTION</b><br><i>NICOLE VILMER</i>  | 406-WED-O1030-1066 |
| 11:00             | <b>SIMULATIONS OF EFFECTS OF ELECTRON ACCELERATION AND CORONAL PARAMTERS ON CORONAL TYPE III BURSTS</b><br><i>BO LI, Iver H. Cairns, Peter A. Robinson</i>  | 406-WED-O1100-0392 |
| 11:15             | <b>AUTOMATIC RECOGNITION OF TYPE III SOLAR RADIO BURSTS: AUTOMATED RADIO BURST IDENTIFICATION SYSTEM METHOD AND FIRST OBSERVATIONS</b><br><i>Vasili V. Lobzin, IVER H. CAIRNS, Peter A. Robinson, Graham Steward, and Garth Patterson</i> | 406-WED-O1115-0064 |
| 11:30<br><b>I</b> | <b>HIGH FREQUENCY SOLAR RADIO EMISSIONS</b><br><i>YIHUA YAN</i>   | 406-WED-O1130-0345 |
| 13:30             | <b>SOLAR RADIO EMISSION IN THE DECAMETER WAVELENGTHS BAND</b><br><i>V. N. Melnik, A. A. Konovalenko, Vladimir V. Dorovskyy, H. O. Rucker, E. P. Abranin</i>   | 406-WED-O1330-1098 |
| 13:45             | <b>TYPE III RADIO BURSTS OBSERVED BY STEREO/WAVES</b><br><i>VRATISLAV KRUPAR, Baptiste Cecconi, Ondrej Santolik, Milan Maksimovic</i>   | 406-WED-O1345-0898 |
| 14:00<br><b>I</b> | <b>RADIATION IN THE SOLAR SYSTEM THROUGH CONVERTED ELECTROSTATIC WAVES</b><br><i>PAUL J. KELLOGG</i>  | 406-WED-O1400-1317 |
| 14:30             | <b>1D MODEL FOR BEAM PLASMA INTERACTION IN THE PRESENCE OF EXTERNAL DENSITY FLUCTUATIONS</b><br><i>Arnaud Zaslavsky, Alexander S. Volokitin, Milan Maksimovic, Vladimir V. Krasnoselskikh, Stuart D. Bale</i>                             | 406-WED-O1430-0880 |
| 14:45             | <b>LANGMUIR WAVES AND TYPE III BURSTS OBSERVED BY THE WIND SPACECRAFT</b><br><i>SONJA VIDOJEVIC, Arnaud Zaslavsky, Milan Maksimovic, Olga Atanackovic, Sang Hoang, Q. N. Nguyen</i>   | 406-WED-O1445-1236 |
| 15:30<br><b>I</b> | <b>REVIEW OF THE 2-3 kHz RADIO EMISSIONS OBSERVED IN THE OUTER HELIOSPHERE</b><br><i>IVER H. CAIRNS and Jeremy J. Mitchell</i>  | 406-WED-O1530-0180 |
| 16:00             | <b>"PRIMING" MECHANISM FOR THE 2-3 kHz HELIOSPHERIC RADIATION BY MAGNETIC FIELD RECONNECTION IN THE HELIOSHEATH</b><br><i>Stan Grzedzielski, Andrzej Czechowski, MAREK STRUMIK</i>  | 406-WED-O1600-1368 |

#### ***IV.07 Reporter reviews***

Oral: THU27 13:30-15:00, 15:30-17:00 LFCCC Liszt

13:30	<b>MAGNETOHYDRODYNAMICS OF THE SOLAR CONVECTION ZONE</b>	407-THU-O1330-0097
I	<i>HENDRIK C. SPRUIT</i>	
14:15	<b>THE NEW SOLAR COMPOSITION AND THE SOLAR METALLICITY</b>	407-THU-O1415-0109
I	<i>NICOLAS GREVESSE</i>	
15:30	<b>FUNNELS AND THE ORIGIN OF THE SOLAR WIND</b>	407-THU-O1530-0681
I	<i>Ruth Esser</i>	
16:15	<b>VOYAGER RESULTS ON THE TERMINATION SHOCK AND</b>	407-THU-O1615-0636
I	<b>HELIOSHEATH</b>	
	<i>JOHN D. RICHARDSON</i>	

## ***DIVISION V***

### ***V.01 Connecting space and ground-based magnetic data for scientific benefit***

Oral: FRI28 08:30-10:00, 10:30-12:00 Pannonia

Poster: FRI28 17:00-19:00 Gimn. Halls Level 1

08:30	<b>COMBINING GROUND-BASED AND SATELLITE MAGNETIC MEASUREMENTS IN INTERPRETATION OF MAGNETIC FIELD DISTURBANCES</b> <i>S. VENNERSTROM, T. Moretto, G. Lu, L. Rastätter</i>	501-FRI-O0830-1232
08:45	<b>GLOBAL MODELING OF THE GEOMAGNETIC SQ FIELD FROM GROUND-BASED AND SATELLITE DATA</b> <i>ARNAUD CHULLIAT, Virginie Penquerc'h</i>	501-FRI-O0845-1234
09:00	<b>REMOVAL OF EXTERNAL FIELD CONTRIBUTIONS IN GROUND OBSERVATORY DATA: REVISED OBSERVATORY MONTHLY MEANS</b> <i>NILS OLSEN</i>	501-FRI-O0900-1011
09:15	<b>SUDDEN IMPULSES AT GEOSYNCHRONOUS ORBIT AND AT GROUND</b> <i>U. Villante and MIRKO PIERSANTI</i>	501-FRI-O0915-0815
09:30	<b>LATITUDINAL SHIFT AND TILT OF THE RING CURRENT DURING MAGNETIC STORMS</b> <i>BO CHEN</i>	501-FRI-O0930-1314
09:45	<b>A SOLAR-TERRESTRIAL MAGNETIC EFFECT WITH SEISMIC IMPLICATIONS</b> <i>GERALD DUMA</i>	501-FRI-O0945-0461
10:30	<b>TECTONIC PROCESSES AND LITHOSPHERIC MAGNETIZATION: IMPROVED INTERPRETATION USING SPACE AND GROUND-BASED OBSERVATIONS</b> <i>MICHAEL PURUCKER</i>	501-FRI-O1030-0833
10:45	<b>ELECTRICAL CONDUCTIVITY IN THE EARTH'S MANTLE INFERRED FROM OBSERVATORY AND SATELLITE DATA</b> <i>JAKUB VELIMSKY</i>	501-FRI-O1045-0776
11:00	<b>STUDY OF GEOMAGNETIC INDUCED CURRENT EFFECT ON POWER GRID USING DIFFERENT VARIABLES</b> <i>E. O. FALAYI and N. Beloff</i>	501-FRI-O1100-0009
11:15	<b>A TIME-DEPENDENT MODEL OF THE EARTH'S MAGNETIC FIELD AND ITS TEMPORAL CHANGE FOR THE PERIOD 1957 TO 2007</b> <i>INGO WARDINSKI, Vincent Lesur</i>	501-FRI-O1115-1072
11:30	<b>A GEOMAGNETIC REFERENCE MODEL FOR ALBANIA, SOUTH-EAST ITALY AND IONIAN SEA FROM 1990 TO 2008 WITH PREDICTION TO 2010</b> <i>ENKELEJDA QAMILI, Angelo De Santis, Bejo Duka, Niko Hyka</i>	501-FRI-O1130-0166
11:45	<b>MODELLING THE EARTH'S MAGNETIC FIELD WITH SATELLITE AND OBSERVATORY DATA</b> <i>SUSAN MACMILLAN, Brian Hamilton, Alan Thomson, Sarah Reay</i>	501-FRI-O1145-1154

**Poster Session (17:00-19:00)**

- COMPARISON BETWEEN TWO DIFFERENT WAYS OF ATTITUDE DETERMINATION IN THE NANOSATC-BR CUBESAT** 501-FRI-P1700-0170  
*FERNANDO DE SOUZA SAVIAN, Roberto Vieira da Fonseca Lopes, Nelson Jorge Schuch, Otávio Santos Cupertino Durão, Cassio Espindola Antunes, Josemar Siqueira*
- CORRESPONDING RELATIONSHIP BETWEEN GEOMAGNETIC LOW POINT DISPLACEMENT AND SPACE IONOSPHERIC VARIATIONS** 501-FRI-P1700-0657  
*XUEMIN ZHANG, Jianhai Ding, Yali Wang*
- COMBINED ELECTROMAGNETIC AND TOPOGRAPHIC CORE-MANTLE COUPLING AND THEIR INFLUENCE ON THE EARTH'S ROTATION** 501-FRI-P1700-0691  
*LUDWIG BALLANI, Hans Greiner-Mai, Jan M. Hagedoorn*
- ANALYSIS OF THE EXTERNAL PART OF VERTICAL GEOMAGNETIC COMPONENT VARIATIONS (Z) RECORDED IN EUROPEAN INTERMAGNET OBSERVATORIES** 501-FRI-P1700-0807  
*TOMASZ ERNST, Jerzy Jankowski, Beata Dziak – Jankowska, Krzysztof Nowożyński*
- COMBINING GROUND-BASED AND SPACE MAGNETIC MEASUREMENTS FOR STUDYING THE EARTH'S MAGNETOSPHERE** 501-FRI-P1700-0829  
*Ioannis A. Daglis, GEORGIOS BALASIS, Panayiotis Kapiris, Boris Di Fiore, Anastasios Anastasiadis, Marina Georgiou*
- DATABASE TECHNIQUES FOR SCIENTIFIC INVESTIGATIONS** 501-FRI-P1700-1054  
*GUSTAV PRATTES, Hans Eichelberger, Manfred Stachel, Konrad Schwingenschuh, Ute Nischelwitzer-Fennes, Tielong Zhang, Magda Delva, Werner Magnes, Özer Aydogar*
- WAVELET ANALYSIS OF IONOSPHERIC DISTURBANCES AND SEISMIC ACTIVITY** 501-FRI-P1700-1197  
*M. HAMOUDI, N. Zaourar, R. Mebarki, L. Briquet and M. Parrot*

## V.02 Geomagnetic observatory practice, instrumentation and network

Oral: MON24 08:30-10:00, 10:30-12:00, 13:30-15:00 Pannonia

Poster: MON24 17:00-19:00 Gimn. Halls Level 1

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|-------|--|--------------------|
| 08:30 | <b>EXPERIENCES IN THE OPERATION OF LOW-COST CONSTRUCTED OBSERVATORIES</b><br><i>HANS-JOACHIM LINTHE, Pieter Kotzé, Errol Julies</i>  | 502-MON-O0830-0485 |
| 08:45 | <b>PERMANENT GEOMAGNETIC FIELD OBSERVATIONS AT CONCORDIA STATION, DOME C, ANTARCTICA</b><br><i>DOMENICO DI MAURO, Aude Chambodut, Lili Cafarella, Stefania Lepidi S., Jean-Jacques Schott, Jean-François Vanacker, Jonathan Zaccaria</i> | 502-MON-O0845-1328 |
| 09:00 | <b>USGS MAGNETIC OBSERVATORY OPERATIONS: STATUS AND PLANNED IMPROVEMENTS</b><br><i>CAROL A. FINN, Alan M. Berarducci</i>   | 502-MON-O0900-0653 |
| 09:15 | <b>SURLARI OBSERVATORY: WHERE WE HAVE BEEN AND WHERE WE ARE</b><br><i>ANCA ISAC, Mioara Manda, Hans Joachim Linthe</i>   | 502-MON-O0915-0906 |
| 09:30 | <b>REPORTING QUASI-DEFINITIVE OBSERVATORY DATA IN NEAR REAL TIME</b><br><i>ORSOLYA BAILLIE, Ellen Clarke, Simon Flower, Sarah Reay, Christopher Turbitt</i>  | 502-MON-O0930-1130 |
| 09:45 | <b>PROPOSAL FOR A NEW OBSERVATORY DATA PRODUCT: QUASI-DEFINITIVE DATA</b><br><i>ARNAUD CHULLIAT, Aline Peltier, François Truong, Danielle Fouassier</i>  | 502-MON-O0945-1255 |
| 10:30 | <b>NEAR REAL-TIME GEOMAGNETIC DATA FROM AN AUSTRALIAN REGION SPACE WEATHER NETWORK: DATA ACQUISITION TO SERVICE DELIVERY</b><br><i>RICHARD MARSHALL, Garth Patterson, Campbell Thomson, Colin Yuile</i>                                  | 502-MON-O1030-1322 |
| 10:45 | <b>TOWARDS A METADATA STANDARD FOR GEOMAGNETIC OBSERVATORY DATA</b><br><i>SARAH REAY, Ewan Dawson, Simon Flower, Susan Macmillan, Don Herzog</i>   | 502-MON-O1045-1169 |
| 11:00 | <b>EMD, EEMD, JTFA APPLIED TO GEOMAGNETIC TIME SERIES</b><br><i>ALPÁR KÖRMENDI</i>   | 502-MON-O1100-0015 |
| 11:15 | <b>ON THE DERIVATION OF HOURLY MEAN VALUES WITH INCOMPLETE DATA</b><br><i>PAVEL HEJDA, Don Herzog, Hans-Joachim Linthe, Mioara Manda, Jean-Jaques Schott, Leif Svalgaard</i>   | 502-MON-O1115-1140 |
| 11:30 | <b>EVALUATION OF 1-HZ DATA FROM USGS GEOMAGNETIC OBSERVATORIES</b><br><i>E. WILLIAM WORTHINGTON, Tim White, Edward A. Sauter, Duff C. Stewart</i>  | 502-MON-O1130-0915 |
| 11:45 | <b>1-SECOND INTERMAGNET STANDARD MAGNETOMETER - 1-YEAR OPERATION</b><br><i>VALERY KOREPANOV, Andriy Marusenko, Jean Rasson</i>   | 502-MON-O1145-0155 |
| 13:30 | <b>CORRECTING GEOMAGNETIC OBSERVATIONS FROM BRORFELDE, DENMARK, FOR DISTURBANCES CAUSED BY NEARBY POWER LINES</b><br><i>CATHRINE FOX MAULE, Jürgen Matzka, Lars W. Pedersen</i>  | 502-MON-O1330-0108 |
| 13:45 | <b>ON THE PROBLEM OF NOISE IN GEOMAGNETIC OBSERVATORY DATA</b><br><i>GERHARD SCHWARZ, Patrik Johansson</i>   | 502-MON-O1345-1276 |
| 14:00 | <b>GEOMAGNETISM SCIENCE AT SOUTH OF BRAZIL</b><br><i>NELSON JORGE SCHUCH, Nalin Babulal Trivedi, Severino Luiz Guimarães Dutra, Cassio Espindola Antunes, Fernando de Souza Savian, Josemar Siqueira</i>                                 | 502-MON-O1400-0493 |

**Poster Session (17:00-19:00)**

<b>SHIFTING OF KARACHI GEOMAGNETIC OBSERVATORY TO SONMIANI &amp; COMPARISON OF DATA</b>	502-MON-P1700-0150
<i>GHULAM MURTAZA, Madeeha Ashfaq, Jean. L. Rasson</i>	
<b>ESTABLISHMENT OF GEOMAGNETIC OBSERVATORY AT ISLAMABAD AND REPEAT STATION RESULTS FROM NORTHERN PART OF PAKISTAN</b>	502-MON-P1700-0151
<i>MADEEHA ASHFAQ, Ghulam Murtaza, Jean L. Rasson</i>	
<b>INDIGO: BETTER GEOMAGNETIC OBSERVATORIES WHERE WE NEED THEM</b>	502-MON-P1700-0162
<i>Ayyaz Ameen, Madeeha Ashfaq, Pavel Borodin, Jorge Luis Brenes, Elias Daudi, Noor Efendi, Simon Flower, Muhammad Hidayat, Muhammad Husni, Manuel Kampine, Oleg Kusonski, Artur Langa, Iván Monge, Antonio Mucussete, Malik Ghulam Murtaza, Armino Nhatsave, I Kadek Oca Santika, JEAN L RASSON, John Riddick, Didik Suharyadi, Christopher Turbitt and Mahmud Yusuf</i>	
<b>GEOMAGNETIC OBSERVATORIES OF UKRAINE: EQUIPMENT, MEASUREMENT PRACTICE AND DATA INTERPRETATION</b>	502-MON-P1700-0280
<i>MYKHAILO ORLIUK, Yuri Sumaruk, Taras Sumaruk, Andriy Romenets, Igor Melnychuk</i>	
<b>EXPERIENCES WITH NEW OBSERVATORY PRAXES MONITORING THE ORTHOGONALITY AND ORIENTATION OF THE DIDD</b>	502-MON-P1700-0300
<i>ANDRÁS CSONTOS, Balázs Heilig, László Hegymegi and Alan Berarducci</i>	
<b>MONITORING THE ORTHOGONALITY OF THE DIDD</b>	502-MON-P1700-0320
<i>BALÁZS HEILIG, András Csontos</i>	
<b>MEXICO MAGNETIC CHART EPOCH 2010.0, FIRST MEASUREMENTS</b>	502-MON-P1700-0353
<i>MARÍA TERESA VELÁZQUEZ-JIMÉNEZ, Gerardo Cifuentes-Nava, Esteban Hernández-Quintero</i>	
<b>GEOPHYSICAL SURVEY IN THE NEW MAGNETIC OBSERVATORY SITE IN COENEO, MICHOACAN (MÉXICO)</b>	502-MON-P1700-0354
<i>GERARDO CIFUENTES-NAVA, Maria Teresa Velázquez-Jiménez, Esteban Hernández-Quintero</i>	
<b>MULTI-STATION MAGNETIC OBSERVATIONS AS A BASE FOR THE NEW ULF INDEX</b>	502-MON-P1700-0424
<i>OLGA KOZYREVA, Natalia Kleimenova</i>	
<b>EARTHQUAKE OBSERVED AT THE MAGNETIC OBSERVATORY AT BRORFELDE, DENMARK</b>	502-MON-P1700-0447
<i>CATHRINE FOX MAULE, Lars W. Pedersen, Peter Voss, Jürgen Matzka, Anna Nilsson, Søren Gregersen</i>	
<b>DETECTION OF HARDWARE FAILURES AT INTERMAGNET STATIONS: APPLICATION OF ARTIFICIAL INTELLIGENCE TECHNIQUES TO GEOMAGNETIC RECORDS STUDY</b>	502-MON-P1700-0459
<i>ANATOLY SOLOVIEV, Shamil Bogoutdinov, Sergey Agayan, Alexei Gvishiani, Eric Kihn</i>	
<b>BEHAVIOUR OF THE QUIET DAY GEOMAGNETIC VARIATION AT LIVINGSTON ISLAND AND VARIABILITY OF THE SQ FOCUS POSITION IN THE SOUTH AMERICAN-ANTARCTIC PENINSULA REGION</b>	502-MON-P1700-0487
<i>J. MIQUEL TORTA, Santiago Marsal, Juan J. Curto, Luis R. Gaya-Piqué</i>	
<b>MODERNIZATION OF GEOPHYSICAL COMPLEX OF ISTP RAS SB FOR MONITORING OF ELECTROMAGNETIC FIELDS AT HIGH AND MIDDLE LATITUDES</b>	502-MON-P1700-0589
<i>RAVIL A. RAKHMATULIN</i>	
<b>THE MAGNETIC OBSERVATORY OF COIMBRA (COI): INSTRUMENTATION, OBSERVATORY PRACTICE AND DATA QUALITY EVALUATION</b>	502-MON-P1700-0628
<i>PAULO RIBEIRO</i>	

<b>THE DIGITISATION OF OBSERVATORY MAGNETOGRAMS</b> <i>ELLEN CLARKE, Simon Flower, Thomas Humphries, Robert McIntosh, Fergus MacTaggart, Brian McIntyre, Nicola Owenson, Keith Henderson, Elizabeth Mann, Kenneth MacKenzie, Simon Piper, Louise Wilson and Richard Gillanders</i>	502-MON-P1700-0715
<b>MORPHOLOGICAL ANALYSIS OF GEOMAGNETIC FIELD THROUGH WAVELET PROCESSING</b> <i>LAURENTIU ASIMOPOLOS, Agata Monica Pestina</i>	502-MON-P1700-0791
<b>ONE EIGHTH OF THE GLOBE - THE NEW ZEALAND GEOMAGNETIC PROGRAMME</b> <i>TONY HURST</i>	502-MON-P1700-0753
<b>COMPARISON OF MAGNETOMETER SYSTEMS AT THE NCK OBSERVATORY</b> <i>Viktor Wesztergom, ANDRÁS KOPPÁN</i>	502-MON-P1700-0812
<b>STUDY OF THE PRACTICAL TECHNOLOGY ABOUT GEOMAGNETIC ABNORMAL PHENOMENA TRACKING</b> <i>WANG XIAOMEI, Teng Yuntian, Wang Xizhen, Wang Chen, Wu Qiong</i>	502-MON-P1700-0817
<b>A NEW APPROACH TO THE HOURLY MEAN COMPUTATION PROBLEM WHEN DEALING WITH MISSING DATA</b> <i>S. Marsal, JUAN JOSÉ CURTO</i>	502-MON-P1700-0788
<b>THE PLAN OF THE SECOND PHASE OF MERIDIAN PROJECT</b> <i>X.Z. WANG, Y.T. Teng, D.M. Yang, X.M. Wang</i>	502-MON-P1700-0959
<b>NEW GEOMAGNETIC OBSERVATORY INSTALLATION IN CHEONGYANG BY KOREA METEOROLOGICAL ADMINISTRATION</b> <i>PO GYU PARK, Wan-Seop Kim, Myeong Son Yu, Bok Su Jang, June Chune Park, Hyeon Lee, Mutaek Lim, Byungwook Kwak</i>	502-MON-P1700-0977
<b>QUALITY CONTROL PROCEDURES AT THE WORLD DATA FOR GEOMAGNETISM (EDINBURGH)</b> <i>Ewan Dawson, SARAH REAY, Susan Macmillan, Simon Flower, Tom Shanahan</i>	502-MON-P1700-1167
<b>THE PERMANENT MAGNETIC OBSERVATORY OF CONCORDIA STATION (DOMEC, ANTARCTICA)</b> <i>AUDE CHAMBODUT, Domenico di Mauro, Jean-Jacques Schott, Lili Cafarella, Stefania Lepidi</i>	502-MON-P1700-1156
<b>THE OPERATION OF THE CHINESE DIGITAL MAGNETIC NETWORK AND SOME NEW FINDS</b> <i>YANG DONGMEI, Zhu Rong, Yang Fuxi</i>	502-MON-P1730-0766



### V.03 Geomagnetic jerks and rapid core field variations

Oral: TUE25 13:30-15:00, 15:30-17:00 Pannonia

Poster: TUE25 17:00-19:00 Gimn. Halls Level 1

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| 13:30 | <b>GEOMAGNETIC JERKS - WHERE DO WE STAND?</b><br><i>MIOARA MANDEA</i>   | 503-TUE-O1330-0464 |
| 13:45 | <b>GRIMM-2: A CORE MAGNETIC FIELD MODEL DERIVED UNDER FLOW CONSTRAINTS</b><br><i>VINCENT LESUR, Ingo Wardinski, Mioara Mandea</i>                       | 503-TUE-O1345-1020 |
| 14:00 | <b>STUDY OF SHORT PERIOD GEOMAGNETIC VARIATIONS ON BASE OF MAGNETIC SATELLITE SURVEY DATA</b><br><i>SVETLANA YAKOVLEVA, V. Golovkov and T. Zvereva</i>  | 503-TUE-O1400-0100 |
| 14:15 | <b>SPECTRAL ANALYSIS OF THE GEOMAGNETIC FIELD TEMPORAL VARIATIONS</b><br><i>BEJO DUKA</i>   | 503-TUE-O1415-0084 |
| 14:30 | <b>RECENT GEOMAGNETIC SECULAR VARIATION CHANGES OBSERVED IN SOUTHERN AFRICA</b><br><i>PIETER B KOTZÉ, M Mandea and M Korte</i>                          | 503-TUE-O1430-0297 |
| 14:45 | <b>REGIONAL MODELING OF THE SOUTHERN AFRICAN SECULAR VARIATION</b><br><i>ANNE HEMSHORN, Mioara Mandea, Vincent Lesur</i>                                | 503-TUE-O1445-0852 |
| 15:30 | <b>GEOMAGNETIC JERKS SEEN IN HISTORICAL DECLINATION AT MUNICH</b><br><i>MONIKA KORTE, Mioara Mandea and Jürgen Matzka</i>                               | 503-TUE-O1530-0717 |
| 15:45 | <b>GEOMAGNETIC SECULAR VARIATION VIOLATING THE FROZEN-FLUX CONDITION AT THE CORE SURFACE</b><br><i>SEIKI ASARI, Vincent Lesur, Mioara Mandea</i>        | 503-TUE-O1545-0491 |
| 16:00 | <b>ACCOUNTING FOR RAPID SV CHANGES WITH QUASI-GEOSTROPHIC CORE FLOWS</b><br><i>DOMINIQUE JAULT, Nathanael Schaeffer, Nicolas Gillet, Alexandra Pais</i> | 503-TUE-O1600-1346 |
| 16:15 | <b>FLUID FLOW NEAR THE EARTH'S CORE SURFACE DERIVED FROM GEOMAGNETIC FIELD MODELS</b><br><i>MASAKI MATSUSHIMA, Futoshi Takahashi, Yoshimori Honkura</i> | 503-TUE-O1615-0970 |
| 16:30 | <b>MANTLE ELECTRICAL CONDUCTIVITY AND GEOMAGNETIC JERKS: DATA ANALYSIS, FORWARD AND INVERSE PROBLEMS</b><br><i>K. PINHEIRO, A. Jackson, J. Velimský</i> | 503-TUE-O1630-0350 |
| 16:45 | <b>NEW INSIGHTS FOR GEOMAGNETIC JERKS FROM ANALYSIS OF VARIATIONS IN LENGTH OF DAY</b><br><i>RICHARD HOLME, Olivier de Viron</i>                        | 503-TUE-O1645-1148 |

**Poster Session (17:00-19:00)**

<b>JERKS: THE MISCONSTRUCTION OF EARTH'S MAGNETISM</b> <i>ALPÁR KÖRMENDI</i>	503-TUE-P1700-0014
<b>REGIONAL FEATURES OF THE GEOMAGNETIC FIELD SECULAR VARIATIONS</b> <i>TATIANA N. BONDAR, Vadim P.Golovkov, Svetlana V.Yakovleva</i>	503-TUE-P1700-0068
<b>EQUIVALENT MONOPOLE SOURCE OF THE GEOMAGNETIC SOUTH ATLANTIC ANOMALY</b> <i>ANGELO DE SANTIS, Enkelejda Qamili</i>	503-TUE-P1700 -0620
<b>CONSTRUCTION OF THE SPATIAL-TEMPORAL MODEL OF THE MAIN GEOMAGNETIC FIELD USING SATELLITE DATA</b> <i>TATIANA ZVEREVA, Vadim Golovkov, Tatiana Chernova</i>	503-TUE-P1700-0129
<b>RAPID FLUCTUATIONS OF THE EARTH'S MAGNETIC FIELD OVER EUROPE (1960-2001)</b> <i>GIULI VERBANAC, Monika Korte and Mioara Manda</i>	503-TUE-P1700-0190
<b>GEOMAGNETIC JERK DETECTION IN THE POGO SCALAR DATA</b> <i>Yasmina Yahiat, MOHAMED HAMOUDI, Mioara Manda</i>	503-TUE-P1700-0253
<b>HIGH DYNAMICS OF THE GEOMAGNETIC FIELD SOURCES: REALITY OR EFFECT OF MANTLE CONDUCTIVITY</b> <i>PAVEL BATALOV, Irina Demina, Tatiana Koroleva</i>	503-TUE-P1700-0615
<b>SEPARATING THE INFLUENCE OF MANTLE CONDUCTIVITY AND CORE-SURFACE FLOW ON JERK EVENTS</b> <i>LUDWIG BALLANI, Dietrich Stromeyer, Hans Greiner-Mai, Ingo Wardinski, Jan M. Hagedoorn</i>	503-TUE-P1700-0689
<b>REDUCTION OF EXTERNAL FIELD CONTRIBUTIONS TO MAIN FIELD VARIATION</b> <i>INGO WARDINSKI, Richard Holme</i>	503-TUE-P1700-0849
<b>THE APPLICATION OF THE INVESTIGATIONS OF SOLAR - GEOMAGNETIC DISTURBANCES</b> <i>Spomenko J. Mihajlović, Rudi Čop, DAŠA FABIJAN, Jernej Kocen, Pavel Kosovac</i>	503-TUE-P1700-1310

#### **V.04 Application, history and evolution of geomagnetic indices**

Oral: THU27 10:30-12:00, 13:30-15:00, 15:30-17:30 Pannonia

Poster: THU27 17:30-19:00 Gimn. Halls Level 1

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| 10:30 | <b>MAGNETIC SOLAR FLARE EFFECTS (SFES), X-RAY FLARES AND THE CARRINGTON FLARE REVISITED</b><br><i>ELLEN CLARKE, Craig Rodger, Orsolya Baillie, Mark Clilverd and Alan Thomson</i>              | 504-THU-O1030-0713 |
| 10:45 | <b>THE POLAR CAP (PC) INDEX. PRESENT (UNIFIED) AND PAST INDEX I CALCULATIONS</b><br><i>PETER STAUNING, Oleg Troshichev, Alexander Janzhura</i>   | 504-THU-O1045-1083 |
| 11:15 | <b>AVAILABILITY OF THE PLANETARY GEOMAGNETIC INDICES Kp, ap, Ap, Cp AND C9</b><br><i>HANS-JOACHIM LINTHE</i>   | 504-THU-O1115-0445 |
| 11:30 | <b>THE CALM DAYS IN THE TRELEW MAGNETIC OBSERVATORY</b><br><i>JULIO CESAR GLANBELLI, y Nicolás Quaglini</i>  | 504-THU-O1130-1308 |
| 11:45 | <b>THE AA DATA SERIES REVISITED</b><br><i>MICHEL MENVIELLE</i>   | 504-THU-O1145-1335 |
| 13:30 | <b>THIRTY YEARS OF DERIVATION OF GEOMAGNETIC INDICES AT THE WDC FOR GEOMAGNETISM, KYOTO AND LESSONS LEARNT I</b><br><i>TOSHIHIKO IYEMORI, Masahito Nose, Hiroaki Toh and Masahiko Takeda</i>   | 504-THU-O1330-1363 |
| 14:00 | <b>INCREASED LOCAL TIME ACCURACY OF THE CORRECTED DST INDEX</b><br><i>KALEVI MURSULA, L. Holappa and V. Jordanova</i>  | 504-THU-O1400-1206 |
| 14:15 | <b>A GUIDE FOR GEOMAGNETIC INDICES DERIVED FROM EARTH SURFACE DATA</b><br><i>HEATHER MCCREADIE and Michel Menvielle</i>  | 504-THU-O1415-1313 |
| 14:30 | <b>ON THE USE OF MAGNETIC INDICES FOR GEOPHYSICS STUDIES I</b><br><i>AMORY-MAZAUDIER CHRISTINE</i>   | 504-THU-O1430-0388 |
| 15:30 | <b>DEVELOPMENT AND APPLICATION OF GEOMAGNETIC INDICES AT THE AUSTRALIAN SPACE FORECAST CENTER</b><br><i>RICHARD MARSHALL, Garth Patterson, John Kennewell, Colin Waters, Murray Sciffer</i>    | 504-THU-O1530-1061 |
| 15:45 | <b>ON THE LONG TERM VARIATION IN THE GEOMAGNETIC AND SOLAR ACTIVITIES</b><br><i>MICHEL MENVIELLE</i>   | 504-THU-O1545-1337 |
| 16:15 | <b>ABOUT CLIMATOLOGY OF AURORAL GEOMAGNETIC VARIATIONS IN 1983-2008</b><br><i>ARI VILJANEN, Eija Tanskanen</i>   | 504-THU-O1615-0107 |
| 16:30 | <b>SIGNIFICANT DECREASES OF GEOMAGNETIC INDICES IN THE ASCENDING PHASE OF SOLAR CYCLE 24</b><br><i>YASUHIRO MINAMOTO, Yosuke Taguchi</i>   | 504-THU-O1630-1030 |
| 16:45 | <b>THE SOLAR WIND ENERGY INPUT RATE AND RECOVERY OF THE MAGNETOSPHERIC RING CURRENT DURING THE TWO LAST SOLAR CYCLES IN COMPARISON WITH THE 20 AND 21 SOLAR CYCLES</b><br><i>LILIA BIKTASH</i> | 504-THU-O1645-0308 |
| 17:00 | <b>MONTHLY-SCALE VARIATION OF THE DST INDEX AND ITS RELATIONSHIP WITH SOLAR-WIND CONDITIONS</b><br><i>Shinya Nakano, TOMOYUKI HIGUCHI</i>  | 504-THU-O1700-1019 |
| 17:15 | <b>DETECTING CAUSALITY IN MAGNETOSPHERIC DYNAMICS USING TRANSFER ENTROPY</b><br><i>JAY R. JOHNSON, Simon Wing</i>  | 504-THU-O1715-0929 |

**Poster Session (17:30-19:00)**

<b>GEOMAGNETIC DST INDEX FORECAST USING A MULTILAYER PERCEPTRONS ARTIFICIAL NEURAL NETWORK</b> <i>AMITA MURALIKRISHNA, Alisson Dal Lago, José Demísio Simões da Silva</i>	504-THU-P1730-1370
<b>DEVELOPMENT OF LOCAL MAGNETIC INDICES FROM GLOBAL MAGNETIC INDICES USING NEURAL NETWORKS: AN APPLICATION TO ANTARCTICA</b> <i>A. Segarra, JUAN JOSEF CURTO</i>	504-THU-P1730-0790
<b>FUZZY LOGIC METHODS FOR GEOMAGNETIC EVENTS DETECTIONS AND ANALYSIS</b> <i>ALEXEI GVISHIANI, Ruslan Kulchinskiy, Eugene Kharin, Igor Shestopalov, Sergey Agayan, Shamil Bogoutdinov</i>	504-THU-P1730-0514
<b>GEOMAGNETIC INDICES FOR PREDICTION OF IONOSPHERIC IRREGULARITIES PRODUCING VLF SCINTILLATIONS</b> <i>LILIA BIKTASH</i>	504-THU-P1730-0312
<b>NEW RMS-BASED PLANETARY GEOMAGNETIC ACTIVITY INDICES</b> <i>MICHEL MENVIELLE, Jean-Jacques Valette, Mathieu Pau, Chantal Lathuillère</i>	504-THU-P1730-1327
<b>EFFECTS OF STATION RELOCATION IN THE AA INDEX</b> <i>RENATA LUKIANOVA, Kalevi Mursula</i>	504-THU-P1730-0451
<b>PREDICTING GEOMAGNETIC ACTIVITY INDICES</b> <i>SIMON WING, Jay Johnson</i>	504-THU-P1730-0644
<b>A COMPARISON BETWEEN QUICK LOOK, PROVISIONAL AND DEFINITIVE AM AND AA VALUES</b> <i>MICHEL MENVIELLE</i>	504-THU-P1730-1336
<b>EXTRACTING LONG-TERM TRENDS IN GEOMAGNETIC DAILY-VARIATIONS AND INDICES</b> <i>Brian Hamilton, SUSAN MACMILLAN</i>	504-THU-P1730-1187
<b>GEOMAGNETIC EXTREME STATISTICS FOR EUROPE</b> <i>ALAN THOMSON, Sarah Reay, Ewan Dawson</i>	504-THU-P1730-0567
<b>POLAR MAGNETIC INDICES: A NEW KEY TO CORRELATE MAGNETIC VARIATIONS IN THE EARTH'S HEMISPHERES</b> <i>Wladislaw Lyatsky, George V. Khanazov, Sonya Lyatskaya, DOMENICO DI MAURO, Stefania Lepidi, Lili Cafarella, Aude Chambodut, Jean-Jacques Schott</i>	504-THU-P1730-1329
<b>MULTIFRACTAL AND CONTINUOUS WAVELET ANALYSIS OF GEOMAGNETIC ACTIVITY</b> <i>N. ZAOURAR, S. A. Ouadfeul and M. Hamoudi</i>	504-THU-P1730-1195

### ***V.05 Improve modelling of the lithospheric magnetic field***

Oral: TUE25 08:30-10:00, 10:30-12:00 Pannonia

Poster: TUE25 17:00-19:00 Gimn. Halls Level 1

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| 08:30 | <b>COMPARISON OF DATA SETS OF WDMAM 2007</b><br><i>JUHA KORHONEN</i>  | 505-TUE-O0830-1211 |
| 08:45 | <b>A SPACE-TIME CONSISTENT NATIONAL AIRBORNE<br/>GEOMAGNETIC MAP OF ROMANIA</b><br><i>LUCIAN BESUTIU, Luminita Zlăgnea, Ligia Atanasiu, Valentin Sgârciu,<br/>Mădălin Vlad, Ioan Stelea, Gabriela Cucu, Andrei Soare, Marian Ivan, Bogdan<br/>Niculescu</i> | 505-TUE-O0845-0241 |
| 09:00 | <b>REVISION OF GLOBAL MARINE MAGNETIC DATA SET</b><br><i>TAKEMI ISHIHARA, Manuel Catalán</i>  | 505-TUE-O0900-0526 |
| 09:15 | <b>FIRST RESULTS FROM THE AEROMAGNETIC SURVEY OF THE<br/>ARCTIC</b><br><i>JOSE M. G. MERAYO, Thorbjørn H. Christensen, Peter Brauer, Rene Forsberg,<br/>Fritz Primdahl, Jens Emil Nielsen, Arne Vestergaard Olesen</i>                                      | 505-TUE-O0915-0943 |
| 09:30 | <b>IMAGING EARTH'S CRUSTAL MAGNETIC FIELD WITH SATELLITE<br/>DATA: A REGULARISED SPHERICAL TRIANGLE TESSELLATION<br/>APPROACH</b><br><i>CHRIS FINLAY, Reto Stockmann and Andrew Jackson</i>   | 505-TUE-O0930-1006 |
| 10:30 | <b>STRUCTURE AND TECTONICS OF THE SEISMICALLY ACTIVE<br/>KUTCH REGION, INDIA USING HIGH RESOLUTION<br/>AEROMAGNETIC DATA</b><br><i>MITA RAJARAM and Anand S. P.</i>   | 505-TUE-O1030-0121 |
| 10:45 | <b>INTERPRETATION OF CHAMP MAGNETIC ANOMALY DATA OVER<br/>THE PANNONIAN BASIN REGION USING LOWER ALTITUDE AND<br/>GRADIENT DATA</b><br><i>PATRICK T. TAYLOR, Károly I. Kis, Sándor Pusztai, Géza Wittmann, Hyung Rae<br/>Kim</i>                            | 505-TUE-O1045-1086 |
| 11:00 | <b>IMPROVED METHODS FOR INTERPRETING MAGNETIC<br/>GRADIENT TENSOR DATA</b><br><i>DAVID CLARK</i>  | 505-TUE-O1100-0404 |
| 11:15 | <b>AN INDUCTION - BASED MAGNETIC MODEL OF THE EUROPEAN<br/>LITOSPHERE</b><br><i>CRISAN DEMETRESCU, Venera Dobrica</i>   | 505-TUE-O1115-0290 |
| 11:30 | <b>MAGNETIZATION MODELS DERIVED FROM HIGH RESOLUTION<br/>SATELLITE LITHOSPHERIC ANOMALY FIELDS</b><br><i>KATHRYN WHALER, Michael E. Purucker</i>  | 505-TUE-O1130-1151 |

### ***Poster Session (17:00-19:00)***

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| <b>RESEARCH OF GEOMAGNETIC ANOMALIES OF CHINA IN 2000.0</b><br><i>FENG Yan, An Zhen-Chang, Sun Han, Mao Fei, Liu Shi-Jun</i>   | 505-TUE-P1700-0011 |
| <b>GEOMAGNETIC SURVEY OVER THE TERRITORY OF SLOVAKIA<br/>FOR THE 2007.5 EPOCH</b><br><i>Peter Dolinský, Fridrich Valach, MAGDALÉNA VÁČZYOVÁ, Milan Hvoždara</i>            | 505-TUE-P1700-0411 |
| <b>RECONSTRUCTION OF BANDWIDTH-LIMITED DATA ON A<br/>SPHERE USING SLEPIAN FUNCTIONS: APPLICATIONS TO<br/>CRUSTAL MODELLING</b><br><i>CIARAN BEGGAN and Frederik Simons</i> | 505-TUE-P1700-0728 |

**V.06 Tectonic interpretation of satellite, air-borne, ground and marine geomagnetic data**

Oral: SAT29 08:30-10:00, 10:30-12:00, 13:30-15:00 Pannonia

Poster: SAT29 15:30-17:00 Gimn. Halls Level 1

- 08:30 **EMAG2: A 2-ARC-MINUTE RESOLUTION EARTH MAGNETIC ANOMALY GRID COMPILED FROM SATELLITE, AIRBORNE AND MARINE MAGNETIC MEASUREMENTS** 506-SAT-O0830-1246  
*STEFAN MAUS, U. Barckhausen, H. Berkenbosch, N. Bournas, J. Brozena, V. Childers, F. Dostaler, J. D. Fairhead, C. Finn, R. R. B. von Frese, C. Gaina, S. Golynsky, R. Kucks, H. Luhr, P. Milligan, S. Mogren, D. Muller, O. Olesen, M. Pilkington, R. Saltus, B. Schreckenberger, E. Thebault, F. Caratori Tontini*
- 09:00 **MANIFESTATION OF COLLISION TECTONICS ON GEOPOTENTIAL DATA OVER NE INDIA** 506-SAT-O0900-0122  
*MITA RAJARAM and Anand S. P.*
- 09:15 **SPACE-TIME ANALYSIS ON THE GEOMAGNETIC FIELD** 506-SAT-O0915-0259  
*BIN CHEN*
- 09:30 **THE ACCURACY PROBLEM ON THE ANALYSIS RESULTS OBTAINED FROM THE GEOMAGNETIC TOTAL INTENSITY ANOMALIES** 506-SAT-O0930-1244  
*NOBUHIRO ISEZAKI, Keizo Sayanagi, Jun Matsuo*
- 09:45 **A FULL SPECTRUM MAGNETIC ANOMALY DATABASE OF THE UNITED STATES WITH IMPROVED LONG WAVELENGTHS FOR STUDYING CONTINENTAL DYNAMICS** 506-SAT-O0945-0542  
*DHANANJAY RAVAT, T. Sabaka, A. Elshayat, A. Aref, E. Elawadi, R. Kucks, P. Hill*
- 10:30 **DEPTH TO CRUSTAL MAGNETIC BOTTOM - EXAMPLES USING AEROMAGNETIC DATA ACROSS NORTH QUEENSLAND, AUSTRALIA** 506-SAT-O1030-0972  
*INDRAJIT ROY, Peter R. Milligan and Dhananjay Ravat*
- 11:00 **THE PREDICTION OF LITHOSPHERIC MAGNETIC ANOMALIES USING THE INVERSION OF MAGNETISATION DATA FOR VECTOR SPHERICAL HARMONICS** 506-SAT-O1100-1103  
*SHEONA MASTERTON, David Gubbins, Kumar Hemant, David Ivers, Dietmar Müller, Dennis Winch*
- 11:15 **NEW EVIDENCES ON THE STRUCTURE OF TENERIFE (CANARY ISLANDS) FROM AEROMAGNETIC DATA: IMPLICATIONS FOR THE GROWTH OF OCEAN ISLAND VOLCANOES** 506-SAT-O1115-1166  
*Isabel Blanco-Montenegro, Iacopo Nicolosi, Alessandro Pignatelli, MASSIMO CHIAPPINI, Alicia García*
- 11:30 **TECTONIC INTERPRETATION OF OBSERVED TOTAL MAGNETIC ANOMALIES OVER THE NORTH EASTERN PART OF DECCAN TRAPS AND ADJOINING AREAS OF CENTRAL INDIA** 506-SAT-O1130-0017  
*DAYA SHANKER, O. P. Singh, V. P. Singh*
- 11:45 **TECTONIC INTERPRETATION OF AEROMAGNETIC ANOMALIES OF TURKEY** 506-SAT-O1145-0021  
*ABDULLAH ATES, Tuncay Taymaz, Funda Bilim, Aydin Buyuksarac, Attila Aydemir, Seda Yolsal, Yesim Cubuk, Ozcan Bektas*

13:30	<b>LARGE-SCALE CRUSTAL FEATURES ON THE ROMANIAN TERRITORY AS INFERRED FROM THE GEOMAGNETIC DATA</b> <i>LUCIAN BESUTIU, Luminita Zlăgnea</i>	506-SAT-O1330-0242
13:45	<b>THE 150-70 MA APW FOR STABLE ADRIA FROM DIRECT PALAEOMAGNETIC DATA OBTAINED FROM BIOSTRATIGRAPHICALLY CONTROLLED AND CORRELATED BASIN (ADIGE EMBAYMENT) AND PLATFORM (ISTRIA) CARBONATES</b> <i>EMŐ MÁRTON, Dario Zampieri, Paolo Grandesso, Vlasta Čosović, Alan Moro</i>	506-SAT-O1345-0167
14:00	<b>MAGNETIC DATA TO PROBE THE TECTONICS OF GUJARAT, INDIA</b> <i>VINIT C ERRAM, Anand. S. P., Mita Rajaram and B.N. Shinde</i>	506-SAT-P1400-0075
14:05	<b>SUBSURFACE TECTONIC STRUCTURE AND CRUSTAL DEFORMATION AT KALABSHA FAULT, ASWAN-EGYPT</b> <i>MAHMOUD MEKKAWI, M. Abdel-Moneim, A. Taleab, A. Rayan, A. Saleh, S. Moustafa, S. Salah</i>	506-SAT-P1405-0082
14:10	<b>STRUCTURE OF THE SOUTHERN AND SOUTH- WESTERN SUTURE ZONES OF THE EAST EUROPEAN CRATON FROM 3D MAGNETIC MODELING BASED ON NEAR-SURFACE AND SATELLITE DATA</b> <i>MYKHAILO ORLIUK, Inna Pashkevich, Andriy Marchenko</i>	506-SAT-P1410-0163
14:15	<b>IMAGING GEOLOGICAL STRUCTURES OF THE RED SEA FROM THERMAL AND AEROMAGNETIC DATA</b> <i>KUMAR HEMANT SINGH, Ahmed Salem</i>	506-SAT-P1415-0322
14:20	<b>MAGNETIC CRUST CONCEPT AND MAGNETIC ANOMALIES OF SLOVAKIA</b> <i>Kamil Rozimant, Aydin Buyuksarac, OZCAN BEKTAS</i>	506-SAT-P1420-0384
14:25	<b>THE SIMILARITY BETWEEN ELECTRIC AND SEISMIC SIGNALS</b> <i>A. D. Gvishiani, S. R. Bogoutdinov, M. D. Kovalenko, P. Bernar, Z. Zlotniki</i>	506-SAT-P1425-0467
14:30	<b>NEW PALEOMAGNETIC AND ANISOTROPY OF MAGNETIC SUSCEPTIBILITY RESULTS HIGHLIGHT THE STRUCTURAL EVOLUTION OF SOUTHERN TAIWAN WITHIN THE FRAME OF OBLIQUE COLLISION</b> <i>LIONEL SONNETTE, Jacques Angelier, Teh-Quei Lee, Chung-Pai Chang, Stawomir Jack Giletycz</i>	506-SAT-P1430-0478
14:35	<b>LANDSLIDE MONITORING WITH ALOS/PALSAR OBSERVATION</b> <i>Noriyuki Kawano</i>	506-SAT-P1435-0582
14:40	<b>MARINE MAGNETIC MAPPING OFFSHORE DECEPTION ISLAND: A TWO DECADE PERSPECTIVE</b> <i>MANUEL CATALÁN, Alfonso Muñoz, Yasmína Martos, José Martín Davila</i>	506-SAT-P1440-0678
14:45	<b>INTERPRETATION OF MAGNETIC FIELD DATA COLLECTED IN MAHALAT AREA AND ITS FAULT ZONE</b> <i>Mahmoud Mirzaei, FARZANEH FARAHANI, Behrooz Oskooi</i>	506-SAT-P1445-0809
14:50	<b>REMAGNETIZATIONS IN THE VARISCAN OROGEN AND FORELAND IN CZECH REPUBLIC AND POLAND: TIMING, ORIGIN AND LINKS WITH OROGENIC PROCESSES</b> <i>JACEK GRABOWSKI, Ondrej Babek, Jindrich Hladil, Marek Narkiewicz, Petr Pruner, Petr Schnabl</i>	506-SAT-P1450-1102
14:55	<b>A PILOT PALEOMAGNETIC AND AMS STUDY ON LATE CRETACEOUS RED MARLS FROM THE PIENINY KLIPPEN BELT (POLAND AND SLOVAKIA)</b> <i>EMŐ MÁRTON, Dusan Plašienka, Jacek Grabowski, Michał Krobicki, Igor Túnyi, János Haas</i>	506-SAT-P1455-1150
15:00	<b>PALEOMAGNETIC VIEW ON LITHOSPHERE KINEMATICS: THE EXAMPLE OF SOUTHERN TIBET AND THE HIGHER HIMALAYAN CRYSTALLINE</b> <i>RACHIDA EL BAY, Erwin Appel, István Dunkl, Lalu Paudel, Chiara Montomoli and Ding Lin</i>	506-SAT-P1500-1348

**Poster Session (15:30-17:00)**

- 15:30 **MAGNETIC DATA TO PROBE THE TECTONICS OF GUJARAT, INDIA** 506-SAT-P1400-0075  
*VINIT C ERRAM, Anand.S.P., Mita Rajaram and B.N. Shinde*
- SUBSURFACE TECTONIC STRUCTURE AND CRUSTAL DEFORMATION AT KALABSHA FAULT, ASWAN-EGYPT** 506-SAT-P1405-0082  
*MAHMOUD MEKKAWI, M. Abdel-Moneim, A. Taleab, A. Rayan, A. Saleh, S. Moustafa, S. Salah*
- STRUCTURE OF THE SOUTHERN AND SOUTH- WESTERN SUTURE ZONES OF THE EAST EUROPEAN CRATON FROM 3D MAGNETIC MODELING BASED ON NEAR-SURFACE AND SATELLITE DATA** 506-SAT-P1410-0163  
*MYKHAILO ORLIUK, Inna Pashkevich, Andriy Marchenko*
- IMAGING GEOLOGICAL STRUCTURES OF THE RED SEA FROM THERMAL AND AEROMAGNETIC DATA** 506-SAT-P1415-0322  
*KUMAR HEMANT SINGH, Ahmed Salem*
- MAGNETIC CRUST CONCEPT AND MAGNETIC ANOMALIES OF SLOVAKIA** 506-SAT-P1420-0384  
*Kamil Rozimant, Aydin Buyuksarac, OZCAN BEKTAS*
- THE SIMILARITY BETWEEN ELECTRIC AND SEISMIC SIGNALS** 506-SAT-P1425-0467  
*A. D. Gvishiani, S. R. Bogoutdinov, M. D. Kovalenko, P. Bernar, Z. Zlotniki*
- NEW PALEOMAGNETIC AND ANISOTROPY OF MAGNETIC SUSCEPTIBILITY RESULTS HIGHLIGHT THE STRUCTURAL EVOLUTION OF SOUTHERN TAIWAN WITHIN THE FRAME OF OBLIQUE COLLISION** 506-SAT-P1430-0478  
*LIONEL SONNETTE, Jacques Angelier, Teh-Quei Lee, Chung-Pai Chang, Stawomir Jack Giletycz*
- LANDSLIDE MONITORING WITH ALOS/PALSAR OBSERVATION** 506-SAT-P1435-0582  
*Noriyuki Kawano*
- MARINE MAGNETIC MAPPING OFFSHORE DECEPTION ISLAND: A TWO DECADE PERSPECTIVE** 506-SAT-P1440-0678  
*MANUEL CATALÁN, Alfonso Muñoz, Yasmina Martos, José Martín Davila*
- INTERPRETATION OF MAGNETIC FIELD DATA COLLECTED IN MAHALAT AREA AND ITS FAULT ZONE** 506-SAT-P1445-0809  
*FARZANEH FARAHANI, Mahmoud Mirzaei, Behrooz Oskooi*
- REMAGNETIZATIONS IN THE VARISCAN OROGEN AND FORELAND IN CZECH REPUBLIC AND POLAND: TIMING, ORIGIN AND LINKS WITH OROGENIC PROCESSES** 506-SAT-P1450-1102  
*JACEK GRABOWSKI, Ondrej Babek, Jindrich Hladil, Marek Narkiewicz, Petr Pruner, Petr Schnabl*
- A PILOT PALEOMAGNETIC AND AMS STUDY ON LATE CRETACEOUS RED MARLS FROM THE PIENINY KLIPPEN BELT (POLAND AND SLOVAKIA)** 506-SAT-P1455-1150  
*EMŐ MÁRTON, Dusan Plašienka, Jacek Grabowski, Michał Krobicki, Igor Túnyi, János Haas*
- PALEOMAGNETIC VIEW ON LITHOSPHERE KINEMATICS: THE EXAMPLE OF SOUTHERN TIBET AND THE HIGHER HIMALAYAN CRYSTALLINE** 506-SAT-P1500-1348  
*RACHIDA EL BAY, Erwin Appel, István Dunkl, Lalu Paudel, Chiara Montomoli and Ding Lin*



# **V.07 Results from the decade of geopotential research and future prospects**

Oral: WED26 10:30-11:30, 13:30-14:30, 15:30-17:00 Pannonia

Poster: WED26 17:00-19:00 Gimn. Halls Level 1

10:30	<b>ESAS MAGNETIC FIELD MISSION SWARM</b>	507-WED-O1030-0613
I	ROGER HAAGMANS, Michael Kern, Gernot Plank, Yvon Menard	
11:00	<b>FORECASTING CHANGE OF THE MAGNETIC FIELD USING CORE SURFACE FLOWS AND ENSEMBLE KALMAN FILTERING</b>	507-WED-O1100-0729
	CIARAN BEGGAN and Kathy Whaler	
11:15	<b>GEOMAGNETISM MISSION CONCEPTS AFTER SWARM</b>	507-WED-O1115-0834
	MICHAEL PURUCKER, Nils Olsen, Terence J. Sabaka, Richard Holme	
11:30	<b>TOWARDS MONITORING MAGNETIC SIGNALS GENERATED BY OCEAN TIDES</b>	507-WED-O1130-0857
I	INGO WARDINSKI, Jan Dostal, Mioara Manda, Maik Thomas	
13:30	<b>RECENT ACHIEVEMENTS IN CHARACTERISING IONOSPHERIC AND MAGNETOSPHERIC FIELDS</b>	507-WED-O1330-0863
I	HERMANN LÜHR, Claudia Stolle, Stefan Maus	
14:00	<b>THE SWARM MAGNETOMETRY PACKAGE</b>	507-WED-O1400-0941
I	JOSE M. G. MERAYO, John L. Jørgensen, Eigil Friis-Christensen, Peter Brauer, Fritz Primdahl, Peter S. Jørgensen and Troelz Denver	
14:30	<b>ASSIMILATION OF GEOMAGNETIC OBSERVATIONS IN DYNAMICAL MODELS OF THE SECULAR VARIATION</b>	507-WED-O1430-1177
I	Elisabeth Canet, Alexandre Fournier, DOMINIQUE JAULT, Nicolas Gillet	
15:30	<b>PREDICTION OF GEOMAGNETIC SECULAR VARIATION USING DATA ASSIMILATION TECHNIQUES</b>	507-WED-O1530-1131
I	WEIJIA KUANG, Richard Holme, Zigang Wei and Andrew Tangborn	
15:45	<b>FIELD MODELLING FROM SCALAR-ONLY DATA FROM DIFFERENT HEIGHTS</b>	507-WED-O1545-1141
	RICHARD HOLME, Gemma Kelly	
16:00	<b>HIGH-DEGREE MODELING OF THE EARTH'S INTERNAL MAGNETIC FIELD</b>	507-WED-O1600-1075
I	STEFAN MAUS and Hermann Luhr	
16:30	<b>PREDICTING CRUSTAL SECULAR VARIATION</b>	507-WED-O1630-1111
	GAUTHIER HULOT, Erwan Thébaud, Nils Olsen, Kumar Hemant	
16:45	<b>ON THE POSSIBLE BENEFITS OF EXTENDING THE PREDICTIVE SECULAR VARIATION IN THE IGRF MODEL TO A HIGHER SPHERICAL HARMONIC DEGREE</b>	507-WED-O1645-1119
	LUIS SILVA, Stefan Maus, Erwan Thébaud, Arnaud Chulliat, Gauthier Hulot	

**Poster Session (17:00-19:00)**

<b>STATISTICAL DEPENDENCE OF AURORAL IONOSPHERIC CURRENTS ON SOLAR WIND AND GEOMAGNETIC PARAMETERS FROM 5 YEARS OF CHAMP SATELLITE DATA</b>	507-WED-P1700-0519
<i>Liisa Juusola, Kirsti Kauristie, Olaf Amm, Patricia Ritter, ARI VILJANEN</i>	
<b>CHAOS-2: A GEOMAGNETIC FIELD MODEL DERIVED FROM ONE DECADE OF CONTINUOUS SATELLITE DATA</b>	507-WED-P1701-1022
<i>NILS OLSEN, Mioara Manda, Terence J. Sabaka, and Lars Tøffner-Clausen</i>	
<b>FROM SWARM DATA VALIDATION TO FAST DIAGNOSIS OF SWARM SYSTEM PERFORMANCE</b>	507-WED-P1702-0697
<i>ROGER HAAGMANS, Gernot Plank, Stavros Kotsiaros, Nils Olsen</i>	
<b>CRUSTAL DEFORMATION DEDUCED FROM GRAVITY AND GEODETIC DATA OF THE HIGH DAM AREA, ASWAN, EGYPT</b>	507-WED-P1703-0911
<i>GAMAL HASSAN</i>	
<b>ANALYSIS OF SECULAR VARIATIONS OF GEOMAGNETIC FIELD AND HORIZONTAL GRADIENT IN CHINA USING IGRF10</b>	507-WED-P1704-0222
<i>SUN HAN, An Zhen-Chang, Mao Fei, Liu Shi-Jun, Feng Yan</i>	
<b>STUDY ON DISTRIBUTION OF HORIZONTAL GRADIENT OF GEOMAGNETIC FIELD IN CHINA USING THE SURFACE SPLINE METHOD</b>	507-WED-P1705-0221
<i>MAO FEI, An Zhen-chang, Sun Han, Liu Shi-jun, Feng Yan</i>	

**V.08 Reporter reviews**

Oral: FRI28 13:30-15:00, 15:30-17:00 Pannonia

- 13:30 **GEOMAGNETIC OBSERVATORY PRACTICE, INSTRUMENTATION AND NETWORK** 508-FRI-O1330-0632  
I *AUDE CHAMBODUT, Jean-Jacques Schott*
- 14:00 **CONNECTING SPACE AND GROUND-BASE MAGNETIC DATA FOR SCIENTIFIC BENEFIT** 508-FRI-O1400-0677  
I *MANUEL CATALÁN*
- 14:30 **RESULTS FROM THE DECADE OF GEOPOTENTIAL RESEARCH AND FUTURE PROSPECTS** 508-FRI-O1430-0515  
I *MICHAEL PURUCKER*
- 15:30 **GEOMAGNETIC JERKS AND RAPID CORE FIELD VARIATIONS** 508-FRI-O1530-1356  
I *RICHARD HOLME*
- 16:00 **PRESENT TRENDS IN GENERATION AND USES OF GEOMAGNETIC INDICES** 508-FRI-O1600-1287  
I *NANDINI NAGARAJAN*
- 16:30 **IMPROVING THE MODELLING OF THE LITHOSPHERIC FIELD AT ALL SCALES FOR THE BENEFIT OF GEOPHYSICAL INTERPRETATIONS** 508-FRI-O1630-1160  
I *ERWAN THÉBAULT*

## ICDC

### DC.01 Atmospheric coupling processes in the equatorial region

Oral: WED26 13:30-15:00, 15:30-17:00 Educator's Hall

Poster: WED26 17:00-19:00 Gimn. Halls Level 0

- 13:30 **CHARACTERISTICS OF TEMPERATURE AND DENSITY** D01-WED-O1330-0761  
**I STRUCTURES IN THE EQUATORIAL THERMOSPHERE**  
**SIMULATED BY A WHOLE ATMOSPHERE GCM**  
*HITOSHI FUJIWARA, Yasunobu Miyoshi, Hidekatsu Jin, Hiroyuki Shinagawa,*  
*Kaori Kaneda*
- 14:00 **INTER-ANNUAL VARIABILITY AND AERONOMIC IMPLICATIONS** D01-WED-O1400-0046  
**I OF NONMIGRATING TIDES FORCED BY TROPICAL**  
**CONVECTION**  
*J. OBERHEIDE, J. M. Forbes, and M. G. Mlynczak*
- 14:30 **THE 8-HOUR TIDE IN THE MESOSPHERE AND LOWER** D01-WED-O1430-0098  
**I THERMOSPHERE OVER MAUI (20.75°N, 156.43°W)**  
*G. JIANG<sup>1</sup>, Jiyao Xu<sup>1</sup>, S. J. Franke<sup>2</sup>*
- 14:45 **NEW CLIMATOLOGICAL FEATURES OF THE MIGRATING** D01-WED-O1445-0118  
**DIURNAL AND SEMIDIURNAL TIDES SEEN IN THE SABER/TIMED**  
**TEMPERATURES (2002-2007)**  
*DORA PANCHEVA, Plamen Mukhtarov, and Borislav Andonov*
- 15:30 **RECENT EXPERIMENTS ON ATMOSPHERIC COUPLING** D01-WED-O1530-0551  
**I PROCESSES IN THE EQUATORIAL REGION OVER BRAZIL**  
*PAULO P. BATISTA*
- 16:00 **THE PROPAGATION AND DISSIPATIVE FILTERING OF GRAVITY** D01-WED-O1600-0469  
**I WAVES FROM DEEP CONVECTION IN THE THERMOSPHERE AND**  
**F REGION AT EQUATORIAL LATITUDES**  
*SHARON L. VADAS*
- 16:30 **COUPLING BETWEEN TROPOSPHERE-STRATOSPHERE-** D01-WED-O1630-0371  
**I MESOSPHER-LOWER THERMOSPHERE AND IONOSPHERE**  
**THROUGH WAVES AND OSCILLATIONS; RESULTS FROM MIDAS**  
**PROGRAM**  
*GEETHA RAMKUMAR, T. MARIA ANTONITA, K. Kishore Kumar, S.*  
*Gurubaran, K. V. S. Namboodiri, Y. Bhavani Kumar*
- 16:45 **STUDY OF THE ENVIRONMENT IN WHICH MESOSPHERIC** D01-WED-O1645-0093  
**FRONTS PROPAGATE**  
*AMAURI F. MEDEIROS, J. Fechine, C. M. Wrasse, H. Takahashi, R. A. Buriti,*  
*P. P. Batista, B. R. Clemesha, L. M. Lima, M. G. Mlynczak, J. M. Russell*

**Poster Session (17:00-19:00)**

- CHARACTERISTICS OF SAO AND AO IN EQUATORIAL MIDDLE ATMOSPHERIC TEMPERATURE PATTERN** D01-WED-P1700-0040  
*AMITAVA GUHARAY, Debashis Nath, Pitambar Pant, Bimal Pande, Kavita Pandey*
- F3 LAYER OVER THE DIP EQUATOR - A CASE STUDY OF THE EQUATORIAL THERMOSPHERE-IONOSPHERE DYNAMICS DURING ACTIVE SPACE WEATHER EVENTS** D01-WED-P1700-0197  
*TARUN KUMAR PANT, V. Sreeja, Sudha Ravindran, R. Sridharan, Diwakar Tiwari, S. Alex*
- STUDIES OF OI 630.0 nm NIGHT AIRGLOW AND GPS-TEC OBSERVATIONS DURING THE GEOMAGNETIC STORM AT LOW LATITUDE** D01-WED-P1700-0200  
*D. J. SHETTL, G. K. Mukherjee, M. Fedrizzi, D. Thompson, A. K. Sharma, P. T. Patil, R. V. Bhonsale, D. M. Moeketsi*
- CHARACTERISTICS OF HIGH FREQUENCY GRAVITY WAVES OBSERVED IN OH NIGHTGLOW FROM LOW LATITUDE INDIAN REGION DURING JANUARY AND FEBRUARY 2007** D01-WED-P1700-0214  
*V. LAKSHMI NARAYANAN, S. Gurubaran and K. Emperumal*
- CHEMICAL COMPOSITION OF RAINWATER IN RAIPUR** D01-WED-P1700-0444  
*BALRAM AMBADE and K. S. Patel*
- MESOPAUSE REGION TEMPERATURE STRUCTURE AT SAO JOSÉ DOS CAMPOS** D01-WED-P1700-0577  
*BARCLAY CLEMESHA, Dale Simonich, Paulo Batista and Goutao Yang*
- OBSERVATION OF TWO SIMULTANEOUS MESOSPHERIC FRONT IN THE OH, O2 AND OI5557 AIRGLOW EMISSIONS** D01-WED-P1700-1116  
*C. M. WRASSE, J. Fachine, A. F. Medeiros, H. Takahashi, P. P. Batista, B. R. Clemesha, L. M. Lima, M. G. Mlynyczak, J. M. Russell*
- SEASONAL VARIABILITY AND DISSIPATION OF TIDES IN THE MESOPAUSE REGION OVER MAUI, HAWAII** D01-WED-P1700-1226  
*Xian Lu, ALAN Z LIU, Steven Franke*
- SHORT TIME VARIATIONS OF DIURNAL TIDES ASSOCIATED WITH NONLINEAR INTERACTIONS WITH PLANETARY WAVES IN THE MLT REGION AT 7.4°S** D01-WED-P1700-1288  
*LOURIVALDO M. LIMA, Edvaldo O. Alves, Paulo P. Batista, Barclay R. Clemesha*

## **DC.02 Low latitude ionosphere-thermosphere system in quiet and magnetically disturbed periods**

Oral: SAT29 08:30-10:00, 10:30-12:00, 13:30-15:00, 15:30-17:00 Painter's Hall

Poster: SAT29 17:00-19:00 Gimn. Halls Level 0

- |       |   |                    |
|-------|---|--------------------|
| 08:30 | <b>LESSONS LEARNED ABOUT THE THERMOSPHERE-IONOSPHERE SYSTEM FROM THE CHAMP MISSION</b>  | D02-SAT-O0830-1171 |
| I     | HERMANN LÜHR  |                    |
| 09:00 | <b>LOW LATITUDE IONOSPHERE-THERMOSPHERE DYNAMICS AS DEDUCED FROM MERIDIONAL IONOSONDE CHAIN</b>   | D02-SAT-O0900-0607 |
| I     | TAKASHI MARUYAMA, Mamoru Ishii, Susumu Saito, Jyunpei Uemoto, Takuya Tsugawa, and Minoru Kubota   |                    |
| 09:30 | <b>DAY-TO-DAY VARIABILITY IN THE <math>S_q</math> CURRENT DURING THE DESCENDING PHASE OF THE SOLAR CYCLE 23</b>                                       | D02-SAT-O0930-0462 |
|       | B. M. PATHAN, Atul Kulkarni and Sobhana Alex  |                    |
| 09:45 | <b>AURORAL AND EQUATORIAL ELECTROJETS IN QUIET AND DISTURBED CONDITIONS - NUMERICAL MODELING</b>  | D02-SAT-O0945-0089 |
|       | MAXIM KLIMENKO, Vladimir Klimenko   |                    |
| 10:30 | <b>RADIO AND OPTICAL INVESTIGATIONS OF THE LOW-LATITUDE IONOSPHERE-THERMOSPHERE SYSTEM</b>  | D02-SAT-O1030-0036 |
| I     | RAMANATHAN SEKAR  |                    |
| 11:00 | <b>MULTIPLE PEAK STRUCTURES IN THE OCCURRENCE PATTERN OF GEOMAGNETIC STORMS DURING THE RECENT SOLAR CYCLES</b>  | D02-SAT-O1100-0127 |
|       | SOBHANA ALEX, Shyamoli Mukherjee  |                    |
| 11:15 | <b>DISTURBANCE ELECTRIC FIELD EFFECTS ON EQUATORIAL EVENING VERTICAL DRIFT AND SPREAD F DEVELOPMENT</b>   | D02-SAT-O1115-0598 |
| I     | MANGALATHAYIL ABDU  |                    |
| 11:45 | <b>USING NEURAL NETWORKS TO INVESTIGATE MID-LATITUDE IONOSPHERIC PROCESSES</b>  | D02-SAT-O1145-0652 |
|       | LEE-ANNE McKINNEL, Dalia Buresova and John Bosco Habarulema   |                    |
| 13:30 | <b>SUPER PLASMA FOUNTAIN AND IONOSPHERIC STORMS</b>   | D02-SAT-O1330-0038 |
| I     | NANAN BALAN, K. Shiokawa and Y. Otsuka  |                    |
| 14:00 | <b>MODELING THE IMPACT OF THE STORM TIME ELECTRIC FIELDS ON THE REDISTRIBUTION OF THE LOW LATITUDE IONOSPHERE</b>                                     | D02-SAT-O1400-0357 |
| I     | NAOMI MARUYAMA, T. Fuller-Rowell, M. Codrescu, D. Anderson, A. Richmond, A. Maute, S. Sazykin, F. Toffoletto, R. Spiro, R. Wolf, and G. Millward      |                    |
| 14:30 | <b>OBSERVATION OF DAY-TO-DAY VARIABILITY IN EQUATORIAL SPREAD-F</b>   | D02-SAT-O1430-0048 |
| I     | PAULO R. FAGUNDES, Abalde J. R., Sahai Y., Bittencourt J. A.  |                    |
| 15:30 | <b>EFFECT OF DUST PARTICLES ON THE GROWTH RATE AND AMPLITUDE OF TYPE II IRREGULARITIES IN THE E-REGION</b>  | D02-SAT-O1530-0421 |
|       | POLINAYA MURALIKRISHNA, and V. H. Kulkarni  |                    |
| 15:45 | <b>ANOMALOUS CONDUCTIVITY EFFECTS ON THE E-REGION ELECTRIC FIELDS AT DIP EQUATOR</b>  | D02-SAT-O1545-0061 |
|       | CLEZIO M. DENARDINI, Ênia P. A. Olívio, Henrique C. Aveiro, Mangalathayil A. Abdu, José H. A. Sobral, José V. Bageston, Cristiano M. Wrasse           |                    |
| 16:00 | <b>THE THREE DIMENSIONAL SIMULATION OF COLLISIONAL INTERCHANGE INSTABILITY IN THE EQUATORIAL-LOW-LATITUDE IONOSPHERE</b>                              | D02-SAT-O1600-0229 |
|       | E. Alam Kherani, M. H. A. Muela and E. R. de Paula  |                    |
| 16:15 | <b>THE DAY-TO-DAY VARIABILITY OF THE OCCURRENCE OF EQUATORIAL PLASMA BUBBLES</b>  | D02-SAT-O1615-0870 |
|       | SEUNG JUN OH, Hyosub Kil, Larry Paxton and Yong Ha Kim  |                    |
| 16:30 | <b>ON THE ESTIMATION OF THE EQUATORIAL ELECTROJET MAGNETIC SIGNATURE AND PEAK CURRENT DENSITY FROM POLAR ORBITING SATELLITE MAGNETIC MEASUREMENTS</b> | D02-SAT-O1630-0299 |
|       | VAFI DOUMBIA, T. Le Truong, Y. Cohen, C. Amory-Mazaudier, M. Le Huy   |                    |

**Poster Session (17:00-19:00)**

<b>IONOSPHERIC F-REGION RESPONSE DUE TO AN INTENSE GEOMAGNETIC STORM OCCURRED ON 07 SEPTEMBER 2002</b>	D02-SAT-P1700-0050
<i>ALESSANDRO JOSÉ DE ABREU, P. R. Fagundes, Y. Sahai, R. de Jesus, F. L. Guarnieri, V. G. Pillat, C. Brunini, M. Gende, W. L. C. Lima</i>	
<b>F-REGION PARAMETERS OBSERVED IN THE EQUATORIAL AND LOW LATITUDE REGIONS IN THE BRAZILIAN SECTOR AND ITS COMPARISON WITH THE IRI-2007 MODEL RESULTS</b>	D02-SAT-P1700-0052
<i>RODOLFO DE JESUS, Y. Sahai, F. L. Guarnieri, P. R. Fagundes, A. J. de Abreu, V. G. Pillat, W. L. C. Lima</i>	
<b>VARIABILITY IN THE DEVELOPMENT OF PLASMA BUBBLES CONNECTED WITH GEOMAGNETIC DISTURBANCES</b>	D02-SAT-P1700-0070
<i>JOSE RICARDO ABALDE, Yogeshwar Sahai, Paulo Roberto Fagundes, Fabio Becker-Guedes, Jose Augusto Bittencourt, Valdir Gil Pillat, Washington Luiz Carvalho Lima, Claudia Maria Nicoli Candido, Tomas Ferreira de Freitas</i>	
<b>OBSERVATIONS OF DETACHED EQUATORIAL IONOSPHERIC PLASMA DEPLETIONS</b>	D02-SAT-P1700-0071
<i>JOSE RICARDO ABALDE, Yogeshwar Sahai, Paulo Roberto Fagundes, Tomas Ferreira de Freitas, Valdir Gil Pillat and Jose Augusto Bittencourt</i>	
<b>EFFECT OF PROMPT PENETRATION ELECTRIC FIELD ON TEC IN LOW LATITUDES: A CASE STUDY</b>	D02-SAT-P1700-0173
<i>SHWETA SHARMA, Nirvikar Dashora, Rajesh Pandey</i>	
<b>CHARACTERIZATION OF LOW LATITUDE GPS-TEC DURING CURRENT LOW SOLAR ACTIVITY PHASE AND IMPLICATIONS</b>	D02-SAT-P1700-0174
<i>PRAVEEN GALAV, Shweta Sharma, Nirvikar Dashora, Rajesh Pandey</i>	
<b>MAGNETOSPHERE-IONOSPHERE COUPLING AND THE CHANGES IN THE THERMOSPHERIC DAYGLOW EMISSION INTENSITY OVER DIP EQUATOR - A CASE STUDY</b>	D02-SAT-P1700-0198
<i>Tarun K. Pant, G. Sumod, Sudha Ravindran, and R. Sridharan</i>	
<b>THE SUPPRESSION OF SPREAD F OVER SAO LUIS DURING OCTOBER 2003 STORM: A NUMERICAL SIMULATION</b>	D02-SAT-P1700-0230
<i>E. Alam Kherani, E. R. de Paula, M. A. Abdu and J. H. A. Sobral</i>	
<b>THE VARIATION OF GPS DERIVED TEC DURING LOW SOLAR ACTIVITY PERIOD (MAY 2007- APRIL 2009) NEAR THE EIA CREST REGION IN INDIA</b>	D02-SAT-P1700-0287
<i>Sanjay Kumar, S. Priyadarshi and A. K. SINGH</i>	
<b>ON THE GROUND-BASED <math>\Delta D</math> DIURNAL VARIATIONS IN THE EQUATORIAL ELECTROJET INFLUENCE AREA IN THE AFRICAN LONGITUDE SECTORS</b>	D02-SAT-P1700-0305
<i>B. Moukassa, V., Doumbia, K. Boka, Y. Cohen, O. D. F. Grodji</i>	
<b>EXPERIMENTAL STUDY OF ELECTROMAGNETIC INDUCTION IN THE EARTH IN THE EQUATORIAL ELECTROJET REGION CONJOINTLY WITH IONOSONDE DATA</b>	D02-SAT-P1700-0306
<i>K. Boka, M. Menvielle, V. DOUMBIA, P. Vila, C. Amory-Mazaudier, A. T. Kobea, O. K. Obrou</i>	
<b>MULTIRESOLUTION ANALYSIS OF PROMPT PENETRATION ELECTRIC FIELDS: CASES STUDY</b>	D02-SAT-P1700-0328
<i>HENRIQUE C. AVEIRO, Clezio M. Denardini, Pedro D. S. C. Almeida, Laysa C. A. Resende, Laís M. Guizelli, Mangalathayil A. Abdu</i>	
<b>ANALYSIS OF THE CORRELATION BETWEEN COUNTER EQUATORIAL ELECTROJET DETECTION AND GRAVITY WAVES OBSERVATION</b>	D02-SAT-P1700-0329
<i>PEDRO D. S. C. ALMEIDA, Clezio M. Denardini, Paulo P. Batista, Henrique C. Aveiro, Laysa C. A. Resende and Laís M. Guizelli</i>	
<b>TERMOSPHERIC HEATING IN THE LOW-LATITUDE IONOSPHERE: ROLE OF THE PHOTO-ELECTRONS</b>	D02-SAT-P1700-0427
<i>PAUL VILA</i>	

<b>CORRELATIONS BETWEEN THE IONOSPHERIC AND GEOMAGNETIC DATA VARIATIONS RECORDED AT TEHRAN STATION FOR SOME GEOMAGNETIC STORMS DURING 2006 AND 2007</b>	D02-SAT-P1700-0796
<i>NAZLI SABA, Farzaneh Farahani, Naser Hoseinzadeh Guya</i>	
<b>WAVE STRUCTURES OBSERVED IN THE F-REGION POSSIBLY ASSOCIATED WITH TROPOSPHERIC-STRATOSPHERIC DISTURBANCES: A STUDY USING ALL-SKY IMAGING SYSTEM AND SATELLITE DATA</b>	D02-SAT-P1700-1074
<i>ALEXANDRE ALVARES PIMENTA</i>	
<b>ON RELATION CONNECTING TIDAL COMPONENTS OF MESOSPHERIC WINDS AND DEL YOF GEOMAGNETIC FIELD AT INDIAN LOW LATITUDES</b>	D02-SAT-P1700-1129
<i>A. THIAGARAJAN</i>	



## **ICH**

### ***H.01 von Humboldt's legacy after 150 years***

Oral: THU27 13:30-15:00, 15:30-17:00 Lyceum

Poster: THU27 17:00-19:00 Gimn. Halls Level 0

13:30	<b>OVERVIEW: ALEXANDER VON HUMBOLDT - NATURAL PHILOSOPHER</b> <i>INGO SCHWARZ</i>	H01-THU-O1330-0841
14:00	<b>ALEXANDER VON HUMBOLDT'S ROLES IN ENCOURAGING GEOMAGNETIC RESEARCH</b> <i>GREGORY A. GOOD</i>	H01-THU-O1400-0283
14:30	<b>VON HUMBOLDT AND THE ESTABLISHMENT OF GEOMAGNETIC OBSERVATORIES</b> <i>ALAN THOMSON</i>	H01-THU-O1430-0566
14:45	<b>THE CORE FIELD-SEEN BY VON HUMBOLDT</b> <i>MIOARA MANDEA</i>	H01-THU-O1445-0700
15:30	<b>VON HUMBOLDT AND THE BIRTH OF SOLAR-TERRESTRIAL PHYSICS</b> <i>EDWARD W. CLIVER, Kristian Schlegel</i>	H01-THU-O1530-0548
16:00	<b>UNDERSTANDING VERSUS PREDICTION IN THE ATMOSPHERIC SCIENCES</b> <i>KRISTINE HARPER</i>	H01-THU-O1600-0258
16:30	<b>SPECIALISTS VERSUS GENERALISTS IN THE ENVIRONMENTAL SCIENCES</b> <i>RONALD E. DOEL</i>	H01-THU-O1630-0261

### ***Poster Session (17:00-19:00)***

<b>SOLAR-TERRESTRIAL PHYSICS IN THE 19TH CENTURY SINCE HUMBOLDT</b> <i>WILFRIED SCHRÖDER</i>	H01-THU-P1700-0001
<b>AN EXAMPLE OF HUMBOLDT'S AURORAL OBSERVATION AND MAGNETIC DISTURBANCES</b> <i>WILFRIED SCHRÖDER</i>	H01-THU-P1700-0007
<b>RETROSPECTIVE ANALYSIS OF SPORADIC AND RECURRENT GEOMAGNETIC STORMS</b> <i>I. S. Veselovsky, K. Mursulac, N. G. Ptitsynad, M. I. Tyastod, and O. S. Yakovchouka</i>	H01-THU-P1700-0140
<b>SEMIANNUAL AND UT VARIATION OF GEOMAGNETIC ACTIVITY AS HISTORY OF SOLAR-TERRESTRIAL PHYSICS</b> <i>TAMARA KUZNETSOVA</i>	H01-THU-P1700-0239
<b>INDIAN OBSERVATORIES IN THE TIMES OF VON HUMBOLDT</b> <i>KOTTAPALLI SITHARAMA MURTY</i>	H01-THU-P1700-0399

## **H.02 History of geomagnetic observations, observatories, and indices**

Oral: FRI28 13:30-15:00, 15:30-17:00 Lyceum

Poster: FRI28 17:00-19:00 Gimn. Halls Level 0

13:30	<b>GEOMAGNETIC OBSERVATIONS FROM 1600-1850</b> <i>ANDREW JACKSON, Art Jonkers</i>	H02-FRI-O1330-0629
14:00	<b>BIRKELAND'S PIONEERING STUDIES OF GEOMAGNETIC DISTURBANCES</b> <i>ALV EGELAND</i>	H02-FRI-O1400-0612
14:30	<b>GEOMAGNETIC INDICES</b> <i>LEIF SVALGAARD</i>	H02-FRI-O1430-0550
15:30	<b>POTSDAM - SEDDIN - NIEMEGK: HISTORY OF A LONG-TERM GEOMAGNETIC OBSERVATORY SERIES</b> <i>HANS-JOACHIM LINTHE</i>	H02-FRI-O1530-0438
15:45	<b>HISTORY OF COLABA / ALIBAG MAGNETIC OBSERVATORY</b> <i>ALEX SOBHANA, B. D. Kadam</i>	H02-FRI-O1545-0126
16:00	<b>SPACE MAGNETOMETRY: FROM THE EARTH INTO SPACE</b> <i>EDWARD J. SMITH</i>	H02-FRI-O1600-0500
16:30	<b>THE MODERN GLOBAL NETWORK OF MAGNETIC OBSERVATORIES AND INTERMAGNET</b> <i>JEFFREY J. LOVE</i>	H02-FRI-O1630-0558

### **Poster Session (17:00-19:00)**

	<b>UNCERTAINTY IN MAGNETIC ACTIVITY INDICES</b> <i>WEN-YAO XU</i>	H02-FRI-P1700-0008
	<b>SOLAR ACTIVATES AND ITS EFFECTS ON GEOMAGNETIC INDICES IN HISTORY</b> <i>AHMED A. HADY</i>	H02-FRI-P1700-0010
	<b>GEOMAGNETIC OBSERVATIONS IN INDONESIA CARRY OUT BY MGA</b> <i>YUSUF MAHMUD</i>	H02-FRI-P1700-0056
	<b>SUPERSTORM OF SEPTEMBER 2-3, 1859 ACCORDING TO THE GEOMAGNETIC DATA OF THE RUSSIAN NETWORK</b> <i>M. I. Tyasto, N. G. Ptitsyna, IGOR S. VESELOVSKY, and O. S. Yakovchouk</i>	H02-FRI-P1700-0160
	<b>HISTORICAL DATA RECORDS AT HURBANOVO GEOMAGNETIC OBSERVATORY</b> <i>MAGDALÉNA VÁČZYOVÁ, Peter Dolinský, Fridrich Valach</i>	H02-FRI-P1700-0410
	<b>23 JULY 2009 - ONE YEAR BEFORE ADOLF SCHMIDT'S 150TH BIRTHDAY</b> <i>HANS-JOACHIM LINTHE</i>	H02-FRI-P1700-0439
	<b>MAGNETIC FIELD MEASUREMENTS DURING THE NOVARA EXPEDITION (1857-1859)</b> <i>Bruno P. Besser, HANS EICHELBERGER, Manfred Stachel, Gustav Prattes</i>	H02-FRI-P1700-1118
	<b>GEOMAGNETIC DATA MANAGEMENT AT THE NGDC</b> <i>Justin Mabie, W. Denig, S. McLean</i>	H02-FRI-P1700-1209
	<b>THE HISTORY AND THE PRESENT SHAPE OF THE TOKYO/KAKIOKA MAGNETIC OBSERVATORY</b> <i>YASUHIRO MINAMOTO, Yuzo Ishikawa, Tetsuya Yamamoto</i>	H02-FRI-P1700-1213

## ASSOCIATION LECTURES

LFCCC Liszt, with video broadcast to LFCCC Petőfi

WED26	<b>GEOMAGNETISM AND THE EXPLORATION OF GLOBAL</b>	AL_01
8:30-	<b>GEOLOGY</b>	
10:00	<i>COLIN REEVES</i>	
THU27	<b>THE MESOSPHERE AS A LINK IN SUN-CLIMATE</b>	AL_02
8:30-	<b>RELATIONSHIPS</b>	
10:00	<i>ALAN RODGER</i>	