

International Conference on Radiation Belts and Space Weather

New Horizon from RBSP Mission

May 29~June 1, 2012 / Hotel INTERCITI, Daejeon, Korea

Lavender Hall (4F)

Session	Special Talk
Session Chair	Dr. Jaejin Lee (Korea Astronomy and Space Science Institute)
Date	May 30, 2012 (Wed.)
Time	09:10~10:00

[Special Talk-1]

[09:10~09:35]

[Heliophysics: the science of space weather]

[Babara Giles (NASA HQ, USA)]

[Special Talk-2]

[09:35~10:00]

[International collaboration opportunities]

[John Lee (NASA HQ, USA)]

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Session	Technical Program 1
Session Chair	Dr. Young-Deuk Park (Korea Astronomy and Space Science Institute)
Date	May 30, 2012 (Wed.)
Time	10:30~11:30

[Technical Session 1-1] **[10:30~10:50]**

[Early science endeavors of the Radiation Belt Storm Probes Mission]

[*Mona Kessel (NASA HQ, USA), Barry Mauk, Nicola Fox (JHU/APL, USA), David Sibeck, and Shri Kanakal (NASA/GSFC, USA)*]

[Technical Session 1-2] **[10:50~11:10]**

[Resolving mysteries of both scientific and practical significance with the Radiation Belt Storm Probes (RBSP) Mission]

[*B. H. Mauk, N. J. Fox (JHU/APL), D. G. Sibeck, S. G. Kanekal (NASA/GSFC, USA), and R. Kessel(NASA HQ, USA)*]

[Technical Session 1-3] **[11:10~11:30]**

[Correlative studies with RBSP]

[*D. G. Sibeck, S. Kanekal (NASA/GSFC, USA), B. Mauk, and N. Fox (JHU/APL, USA)*]

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Session	Technical Program 2
Session Chair	Dr. David Sibeck (NASA GSFC)
Date	May 30, 2012 (Wed.)
Time	13:00~14:40

[Technical Session 2-1] **[13:00~13:20]**

[Overview of the MagEIS electron spectrometers aboard RBSP]

[*J. B. Blake (Aerospace Corporation, USA)*]

[Technical Session 2-2] **[13:20~13:40]**

[RBSPICE investigation: science objectives and instrument implementation]

[*Kunihiro Keika, Louis J. Lanzerotti (New Jersey Institute of Technology, USA), and Donald G. Mitchell (JHU/APL)*]

[Technical Session 2-3] **[13:40~14:00]**

[Solar wind – radiation belt coupling during the high-speed stream]

[*Y. Miyoshi (Nagoya University, Japan), R. Kataoka (Tokyo Institute of Technology, Japan), Y. Kasahara (Kanazawa University, Japan), and A. Kumamoto (Tohoku University, Japan)*]

[Technical Session 2-4] **[14:00~14:20]**

[Acceleration and precipitation of relativistic electrons]

[*G. K. Parks (UC Berkeley, USA), J. J. Lee (KASI, Korea), E. S. Lee (Kyunghee University, Korea), J. Sample (UC Berkeley, USA), and M. McCarthy (University of Washington, USA)*]

[Technical Session 2-5] **[14:20~14:40]**

[Relation between dusk-side precipitation and electron acceleration/loss process in radiation belt]

[*Jaejin Lee, Kyung-Chan Kim, JungA Hwang, Yeon-han Kim, and Young-deuk Park (KASI, Korea)*]

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Session	Technical Program 3
Session Chair	Prof. Dong-Hun Lee (Kyung Hee University)
Date	May 30, 2012 (Wed.)
Time	15:10~16:50

[Technical Session 3-1] [15:10~15:30]

[Stereo ENA imaging of the ring current and multi-point measurements of suprathermal particles and magnetic fields by TRIO-CINEMA]

[R. P. Lin (Univ. of California, USA), D.-H. Lee (Kyung Hee University, USA), T. Horbury (Imperial College London, UK), J. Sample (Univ. of California, USA), H. Jin, J.-H. Seon (Kyung Hee University, Korea), T. Immel, L. Wang (Univ. of California, USA),]

[Technical Session 3-2] [15:30~15:50]

[Modeling of energetic neutral atom emissions for CINEMA/TRIO]

[Ensang Lee, Hyuck-Jin Kwon, Jong-Sun Park, Jongho Seon, Ho Jin, Khan-Hyuk Kim, Dong-Hun Lee (Kyung Hee University, Korea), Linghua Wang, Robert P. Lin, and George K. Parks (University of California, USA)]

[Technical Session 3-3] [15:50~16:10]

[Global dynamics of the ring current, plasmasphere and coupling to the ionosphere: current knowledge and outstanding questions]

[Pontus C. Brandt (JHU/APL, USA), Kunihiro Keika (New Jersey Institute of Technology, USA), Donald G. Mitchell (JHU/APL, USA), L. J. Lanzerotti (New Jersey Institute of Technology, USA), Aleksandr Y. Ukhorskiy, Mikhail I. Sitnov, and V. Merkin (JHU/APL, US)]

[Technical Session 3-4] [16:10~16:30]

[Characteristics of trapping boundary of outer radiation belt depending on flux level of outer belt: THEMIS observation]

[Junga Hwang (KASI, Korea), Dae-Yong Lee (Chungbuk National University, Korea), Kyung-Chan Kim (KASI, Korea), Eunjin Choi (KASI, Korea), Dae-Kyu Shin, Jin-hee Kim, and Jung-Hee Cho (Chungbuk National University, Korea)]

[Technical Session 3-5] [16:30~16:50]

[Effects of the ring current and plasmasphere on ULF waves in the inner magnetosphere based on the GEMSIS-RC and RB models]

[K. Seki (Nagoya University, Japan), T. Amano (University of Tokyo, Japan), S. Saito (National

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Institute of Information and Communications Technology, Japan), Y. Miyoshi (Nagoya University, Japan), Y. Matsumoto (Chiba University, Japan), T. Umeda, Y. Miyashita (Nagoya University, Japan), and Y. Ebihara (Kyoto University, Japan)]

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Session	Technical Program 4
Session Chair	Prof. Danny Summers (Kyung Hee University , Memorial University of Newfoundland)
Date	May 31, 2012 (Thu.)
Time	09:00~10:40

[Technical Session 4-1] [09:00~09:20]

[The electric and magnetic field instrument suite and integrated science on the Radiation Belt Storm Probes]

[C. A. Kletzing (University of Iowa, USA)]

[Technical Session 4-2] [09:20~09:40]

[Chorus properties: importance for wave-particle interaction modeling]

[Bruce T. Tsurutani (California Institute of Technology, USA), Gurbax S. Lakhina (Indian Institute of Geomagnetism, India), Olga P. Verkhoglyadova (California Institute of Technology, USA), Barbara J. Falkowski (Glendale City College, USA), Jolene S. Pickett]

[Technical Session 4-3] [09:40~10:00]

[Eigenmodes and basis functions for pitch-angle diffusion with a partially filled loss cone]

[Michael Schulz (Lockheed Martin Retiree, USA)]

[Technical Session 4-4] [10:00~10:20]

[Large-amplitude whistler waves and relativistic electron acceleration]

[Peter Yoon (Univ. of Maryland, USA)]

[Technical Session 4-5] [10:20~10:40]

[Whistler-mode chorus in the radiation belts: effects of wave-normal distribution for electron scattering]

[O. Agapitov, A. Artemyev, H. Breuillard, V. Krasnoselskikh (LPC2E/CNRS University of Orleans, France), and G. Rolland (CNES, France)]

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Session	Technical Program 5
Session Chair	Prof. Dae-Young Lee (Chungbuk National University)
Date	May 31, 2012 (Thu.)
Time	11:10~12:50

[Technical Session 5-1] **[11:10~11:30]**

[Rapid acceleration of radiation belt electrons by nonlinear wave trapping]

[Danny Summers (Memorial University of Newfoundland), Yoshiharu Omura (Kyoto University), and Rongxin Tang (Memorial University of Newfoundland)]

[Technical Session 5-2] **[11:30~11:50]**

[RBSP & DREAM: science studies and space weather applications]

[G. D. Reeves, R. H. W. Friedel, M. G. Henderson, S. K. Morley, W. Tu, Y. Yu, and S. Zaharia (Los Alamos National Laboratory, USA)]

[Technical Session 5-3] **[11:50~12:10]**

[Wave-particle interaction between whistler chorus and relativistic electrons: GEMSIS-RBW simulation]

[S. Saito (National Institute of Information and Communications Technology, Japan), Y. Miyoshi, and K. Seki (Nagoya University, Japan)]

[Technical Session 5-4] **[12:10~12:30]**

[Relativistic radiation belt electron responses to GEM magnetic storms: comparison of CRRES observations with 3-D VERB simulations]

[Kyung-Chan Kim (KASI, Korea), Yuri Shprits, Dmitriy Subbotin, and Binbin Ni (UCLA, USA)]

[Technical Session 5-5] **[12:30~12:50]**

[Recent advances on understanding the diffuse auroral precipitation: The role of resonant wave-particle interactions]

[Binbin Ni and Richard M. Thorne (UCLA, USA)]

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Session	Poster Session
Date	May 31, 2012 (Thu.)
Time	14:10~15:50

[Poster Session P-1] [14:10~15:50]

[Night airglow OI 630nm emissions and GPS-TEC observations from low latitude station Kolhapur and Hyderabad, India]

[D. J. Shetti (Smt. Kasturba Walchand College, India)]

[Poster Session P-2] [14:10~15:50]

[Strong diffusion limits in realistic magnetic fields: dependence on spatial location and geomagnetic activity]

[Chen Zhou (Wuhan University, China.), Binbin Ni (UCLA, USA), Zhengyu Zhao (Wuhan University, China.), Xudong Gu (UCLA, USA), and Run Shi (Polar Research Institute of China, China)]

[Poster Session P-3] [14:10~15:50]

[THEMIS and WIND observations of ULF wave power transfer through the bow shock]

[Mi-young Park (Chungbuk National University, Korea), Hee-jeong Kim (UCLA, USA), Dae-Young Lee (Chungbuk National University, Korea), and Kyung-Chan Kim (KASI, Korea)]

[Poster Session P-4] [14:10~15:50]

[Testing an ionospheric signature anomalies analysis method on khartoum (MS = 5.5) earthquake]

[Yousif. S. M. (Sudan University of Science and Technology, Sudan) and Elemo. E. O. (African Regional Center for Space Science and Technology Education, Nigeria)]

[Poster Session P-5] [14:10~15:50]

[Characteristics of magnetic fluctuations during near-Earth plasma sheet dipolarization as observed by THEMIS]

[Ji-Hee Lee and Dae-Young Lee (Chungbuk National University, Korea)]

[Poster Session P-6] [14:10~15:50]

[Determination of the radiation belt boundary conditions using THEMIS satellite plasma particle observations.]

[D.-K. Shin, D.-Y. Lee (Chungbuk National University, Korea), J. A. Hwang, K.-C. Kim (KASI, Korea), J.-H. Kim, J.-H. Cho, and Y.-H. Lee (Chungbuk National University, Korea)]

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[Poster Session P-7]

[14:10~15:50]

[Dependency on solar polar magnetic field at solar minimum for geomagnetic indices and HPe power]

[Suyeon Oh, Yu Yi (Chungnam National University, Korea), and Barbara Emery (HAO/NCAR, USA)]

[Poster Session P-8]

[14:10~15:50]

[Dipolarization associated with current disruption as a source of space Pi1B]

[Hyuck-Jin Kwon, Khan-Hyuk Kim, Dong-Hun Lee, Ensang Lee (Kyung Hee University, Korea), and K. Shiokawa (Nagoya University, Japan)]

[Poster Session P-9]

[14:10~15:50]

[Nightside geosynchronous magnetic field responses to interplanetary shocks]

[Jong-Sun Park, Khan-Hyuk Kim, Dong-Hun Lee, Ensang Lee, and Ho Jin (Kyung Hee University, Korea)]

[Poster Session P-10]

[14:10~15:50]

[The statistical analysis of Pi2 pulsations observed at low-latitude Bohyun ground station]

[Chae-Woo Jun, Khan-Hyuk Kim, Hyuck-Jin Kwon, Dong-Hun Lee, Ensang Lee (Kyung Hee University, Korea), Young-Deuk Park, and Junga Hwang (KASI, Korea)]

[Poster Session P-11]

[14:10~15:50]

[Non-simultaneous forbush decrease events observed at middle latitude neutron monitor stations]

[Seongsuk Lee, Suyeon Oh, and Yu Yi (Chungnam National University, Korea)]

[Poster Session P-12]

[14:10~15:50]

[Effects of intermediate scale variations on proton temperature anisotropy vs beta inverse correlation in the solar wind near 1 AU]

[Jung Joon Seough (Kyung Hee University, Korea), Peter Yoon (University of Maryland, USA), Khan-Hyuk Kim, Ensang Lee, and Dong-Hun Lee (Kyung Hee University, Korea)]

[Poster Session P-13]

[14:10~15:50]

[Study of statistical characteristics of magnetic polarity inversion lines in solar active regions]

[Eo-Jin Lee (Chungnam National University), Sung-Hong Park (KASI, Korea), Suyeon Oh, and Yu Yi (Chungnam National University, Korea)]

[Poster Session P-14]

[14:10~15:50]

[Study of magnetic helicity injection in the active regions NOAA 9236 producing multiple

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CME events]

[*Sung-Hong Park (KASI, Korea)*]

[Poster Session P-15]

[14:10~15:50]

[Development of data integration system for ground-based space weather observation facilities]

[*J.-H. Baek, Seonghwan Choi, J.-J Lee, Y.-H. Kim, Y.-D. Park, K.-S. Cho, Y.-S. Kwak, S.-C. Bong, J. Hwang, B.-H. Jang, K.-C. Choi, T.-Y. Yang, J.-E. Hwangbo, I.-H. Cho, S.-H. Park, and J.-W. Cho (KASI, Korea)*]

[Poster Session P-16]

[14:10~15:50]

[FISS observations of chromospheric transient brightenings associated with canceling magnetic features]

[*Soyoung Park (KASI, Korea)*]

[Poster Session P-17]

[14:10~15:50]

[Ionospheric response on EIA during a geomagnetic storm of 7-8 May 2005]

[*Malni Aggarwal (KASI, Korea), H. P. Joshi, K. N. Iyer (Saurashtra University, India), and Y. S. Kwak (KASI, Korea)*]

[Poster Session P-18]

[14:10~15:50]

[Solar cycle dependence of the hemispheric asymmetry of the equatorial ionization anomaly]

[*Young-Sil Kwak (KASI, Korea), Hyosub Kil (JHU/APL, USA), Woogyoung Lee (University Corporation for Atmospheric Research, USA), and Tae-Yong Yang (KASI, Korea)*]

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Session	Technical Program 6
Session Chair	Dr. Geoff Reeves (LANL)
Date	May 31, 2012 (Thu.)
Time	16:20~18:00

[Technical Session 6-1] [16:20~16:40]

[Oxygen flux variation during a stormtime substorm on May 6, 1988]

[Kazuo Takahashi (JHU/APL, USA), Masahito Nosé (Kyoto University, Japan), Kunihiro Keika (New Jersey Institute of Technology, USA), Aleksandr Ukhorskiy (JHU/APL, USA), and Lynn Kistler (University of New Hampshire, USA)]

[Technical Session 6-2] [16:40~17:00]

[Magnetospheric and ionospheric responses to the passage of solar wind discontinuity on 24 November 2008]

[K.-H. Kim, J.-S. Park, D.-H. Lee, E. Lee (Kyung Hee University, Korea), V. Angelopoulos (University of California, USA), Y.-D. Park, J. Hwang (KASI, Korea), N. Nishitani, T. Hori, K. Shiokawa (Nagoya University, Japan), K. Yumoto (Kyushu University, Japan)]

[Technical Session 6-3] [17:00~17:20]

[Global evolution of the earth's magnetosphere in response to a sudden ring current injection]

[G. S. Choe (Kyung Hee University, Korea) and Geunseok Park (Korea Meteorological Administration, Korea)]

[Technical Session 6-4] [17:20~17:40]

[On earthward penetration of near-tail disturbance as observed by THEMIS spacecraft]

[Dae-Young Lee (Chungbuk National Univ., Korea)]

[Technical Session 6-5] [17:40~18:00]

[Statistical investigation of the behavior of plasma and field parameters with geomagnetic index during geomagnetic storm of April 2010]

[Babatunde Rabiú (Federal University of Technology, Nigeria), Olawumi Kaka (Afe Babalola University, Nigeria), and Olawale Bello (Federal University of Technology, Nigeria)]

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Session	Technical Program 7
Session Chair	Prof. Yoshizumi Miyoshi (Nagoya University)
Date	June 1, 2012 (Fri.)
Time	09:00~10:40

[Technical Session 7-1] [09:00~09:20]

[Radial diffusion of outer radiation belt electrons - the importance of ULF wave electric fields]

[*L. G. Ozeke, I. R. Mann, K. Murphy, I. J. Rae, and D. K. Milling (University of Alberta, Canada)*]

[Technical Session 7-2] [09:20~09:40]

[Properties of electromagnetic ion cyclotron waves in the outer magnetosphere]

[*Jongwoo Lee and Kyungguk Min (New Jersey Institute of Technology, USA)*]

[Technical Session 7-3] [09:40~10:00]

[Dipole tilt control of the magnetopause for southward IMF from global magnetohydrodynamic simulations]

[*Z.-Q. Liu (Graduate University of Chinese Academy of Science, China), J. Y. Lu (China Meteorological Administration, China), and K. Kabin (Royal Military College of Canada, Canada)*]

[Technical Session 7-4] [10:00~10:20]

[Energetic electron and Pc 5 ULF wave interactions during great geomagnetic storms.]

[*E. A. Lee, I. R. Mann, L. G. Ozeke, and J. Paral (Univ. of Alberta, Canada)*]

[Technical Session 7-5] [10:20~10:40]

[A global MHD simulation study for transient magnetic field and plasma flow variations in the magnetosphere boundary under steady solar wind and IMF conditions]

[*Kyung Sun Park, Khan-Hyuk Kim (Kyung Hee University, Korea), Tatsuki Ogino (Nagoya University, Japan), and Dong-Hun Lee (Kyung Hee University, Korea)*]

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Session	Technical Program 8
Session Chair	Prof. Peter H Yoon (University of Maryland)
Date	June 1, 2012 (Fri.)
Time	11:10~12:50

[Technical Session 8-1] **[11:10~11:30]**

[Japanese geospace exploration project: ERG]

[*Y. Miyoshi (Nagoya University, Japan), T. Ono (Tohoku University, Japan), T. Takashima, K. Asamura (ISAS/JAXA, Japan), M. Hirahara (Nagoya University, Japan), Y. Kasaba (Tohoku University, Japan), A. Kumamoto (Tohoku University, Japan), A. Matsuoka (ISAS)*]

[Technical Session 8-2] **[11:30~11:50]**

[Space environment during solar minimum of CS-23]

[*Ahmed A. Hady (Cairo University, Egypt)*]

[Technical Session 8-3] **[11:50~12:10]**

[MAGDAS project activities under ISWI]

[*G. Maeda, K. Yumoto, H. Kawano, A. Yoshikawa, H. Liu, M. Watanabe, S. Abe, T. Uozumi, and A. Ikeda (Kyushu University, Japan)*]

[Technical Session 8-4] **[12:10~12:30]**

[Effect of solar flare and corolar mass ejection (CME) on geomagnet dst index and ionosphere foF2 over sumedang, Indonesia]

[*Tiar Dani (National Institute of Aeronautics and Space, Indonesia)*]

[Technical Session 8-5] **[12:30~12:50]**

[Satellite anomaly information system (SIAS) for identifying the satellite operation disturbance]

[*Neflia Neflia and Nizam Ahmad (National Institute of Aeronautics and Space, Indonesia)*]