

Date&Time (Japan: UT+9h)	Paper No.	Paper Title
		Authors ( <b>Speaker</b> , Corresponding Author*)

11/16 (Mon) Day 1		ORAL 1 (Chair: Craig Rodger & Satoko Nakamura)
09:00 - 09:20		Opening
		<b>Yoshiharu Omura</b>
09:20 - 10:30	O1-1	Recent Observations of KHF-VLF Emissions
		<b>Jyrki Manninen*</b> , Claudia Martinez-Calderon, and Tauno Turunen
	O1-2	Propagation of EMIC Waves and the Origin of pc1 Pearl Pulsations
		<b>Richard B Horne*</b>
	O1-3	Propagation Characteristics of Very Low Frequency Transmitter Signals in the Magnetosphere
		<b>Lunjin Chen*</b> , Zhiyang Xia, and Wenyao Gu
10:30 - 10:45	<b>BREAK</b>	
10:45 - 12:35	O1-4	Collaborative Study on Plasma Waves Simultaneously Observed by Arase and Van Allen Probes
		<b>Y. Kasahara*</b> , S. Matsuda, Y. Miyoshi, F. Tsuchiya, A. Kumamoto, A. Matsuoka, O. Santolik, I. Kolmasova, G. Hospodarsky, C. Kletzing, C. Colpitts, and J. Wygant
	O1-5	Lightning Discharges Induced Ionospheric Perturbations during Severe Weather System
		<b>Rajesh Singh*</b>
	O1-6	On the problem of whistler wave packet reflection from the ionosphere and exit to the ground
		<b>David Shklyar*</b> and Sergey Prokhorenko
	O1-7	The parameters of whistler waves effective for wave-particle interactions in the outer radiation belts: the recent Van Allen Probes and THEMIS findings
		<b>Oleksiy Agapitov*</b> , Anton Artemyev, Didier Mourenas, John Bonnell, Forrest S. Mozer
O1-8	Advances in D-Region Remote Sensing with VLF/LF and Masive Public Data Availability with WALDO	
	<b>Morris B. Cohen*</b> , Jackson C. McCormick, David Richardson, Nicholas Gross, Marc A. Higginson-Rollins, and Mark Golkowski	
12:15 - 21:00	<b>MEAL &amp; NAP</b>	

11/16 (Mon) Day 1		ORAL 2 (Chair: Mark A. Clilverd & Claudia Martinez)
21:00 - 22:30	O2-1	Van Allen Probes Mission: a Remarkable Journey and Discoveries in Earth's Radiation Belts
		<b>Aleksandr Ukhorskiy*</b>
	O2-2	The Impenetrable Barrier: Suppression of Chorus Wave Growth by VLF Transmitters
		<b>John C. Foster*</b> , Philip J. Erickson, Yoshiharu Omura and Daniel N. Baker
O2-3	A Four-Belt Structure in Earth's Van Allen Belts	
	<b>Allison N. Jaynes*</b> , Dan N. Baker, Shri G. Kanekal, Xinlin Li, Connor Pollock, Hong Zhao	
O2-4	Pitch angle scattering of radiation belt electrons by whistler waves during a quiet period oderately perturbed by substorm activity	
	<b>J.-F. Ripoll*</b> , M. Denton, D. Hartley, D. Malaspina, G. S. Cunningham, G. D. Reeves, O. Santolik, S. A. Thaller, V. Loidan, D. L. Turner, J. F. Fennell, W. S. Kurth, C.Kletzing and A. Y. Ukhorskiy	
22:30 - 22:45	<b>BREAK</b>	
22:45 - 24:15	O2-5	Radiation Belt Response to Interplanetary Shocks During the Declining Phase of Solar Cycle 24: Van Allen Probes Observations
		<b>S. G Kanekal*</b> , A. Greeley, M. Pandya, D. N. Baker, Q. Schiller, L. Blum, D. G. Sibeck, Allison Jaynes, X. Li, H. Zhao
	O2-6	Wide energy electron precipitations by chorus waves: Arase-EISCAT coordinated observations
		<b>Y. Miyoshi*</b> , K. Hosokawa, S. Saito, S. Kurita, S.-I. Oyama, Y. Ogawa, A. Kero, E. Turunen, S. Kasahara, S. Yokota, T. Hori, K. Keika, T. Mitani, T. Takashima, N. Higashio, I. Shinohara, Y. Kasahara, S. Matsuda, A. Kumamoto, F. Tsuchiya, A. Matsuoka
O2-7	Multi-Point Measurements of Whistler Mode Waves in the Outer Van Allen Belt	
	<b>O. Santolik*</b> , G. B. Hospodarsky, Y. Kasahara, J. S. Pickett, S. Matsuda, Y. Miyoshi, W. S. Kurth, and C. A. Kletzing	
O2-8	Wave-Particle Interaction Effects in the Van Allen Belts	
	<b>Daniel N. Baker*</b>	
24:15 ~	<b>ONLINE RECEPTION</b>	

11/17 (Tue) Day 2		ORAL 3 (Chair: Iku Shinohara & Yikai Hsieh)
09:00 - 10:30	O3-1	A review of recent observations of magnetospheric ELF/VLF waves by the PWING ground-based stations at subauroral latitudes with conjugate satellites
		<b>Kazuo Shiokawa*</b> , Yuhei Takeshita, Mitsunori Ozaki , Claudia Martinez-Calderon, Jyrki Manninen, Shin-Ichiro Oyama, Martin Connors, Dmitry Baishev, Nozomu ishitani, Vladimir Kurkin, Alexey Oinats, Yoshiya Kasahara, Yoshizumi Miyoshi, Iku Shinohara, Craig Kletzing, Vania Jordanova
	O3-2	Multipoint Insights on Magnetopause Losses, Energetic Particle Injections, and Sources of Outer Radiation Belt Electrons
		<b>Drew L. Turner*</b> , Ian J. Cohen, Kareem Sorathia, Sasha Ukhorskiy, Geoff D. Reeves, Christine Gabrielse, Joseph F. Fennell, and J. Bernard Blake
O3-3	Role of Plasma Density for Chorus Modulation and Diffuse Aurora	
	<b>Toshi Nishimura*</b> , Wen Li, Paul Chin, Eric Donovan, and Vassilis Angelopoulos	
O3-4	Strong Diffusion of Energetic Electrons by Equatorial Chorus Waves in the Midnight-to-Dawn Sector	
	<b>S. Kasahara*</b> , Y. Miyoshi, S. Kurita, S. Yokota, K. Keika, T. Hori, Y. Kasahara, S. Matsuda, A. Kumamoto, A. Matsuoka, K. Seki, I. Shinohara	
10:30 - 10:45	<b>BREAK</b>	
10:45 - 12:15	O3-5	Two Fundamental Models for Nonlinear Wave-Particle Interactions
		<b>Jay M. Albert*</b>
	O3-6	Modeling of Whistler Mode Propagation and Wave-Particle Interactions
		<b>Mark Golkowski*</b> , Vijay Harid, Poorya Hosseini, and Oleksiy Agapitov
O3-7	Frequency Dependence of VLF Chorus Poynting Flux in the Source Region: THEMIS Observations and a Model	
	<b>Andrei G. Demekhov*</b> , Ulrich Taubenschuss, and Ondrej Santolík	
O3-8	Chorus Element Properties: Statistics From Automated Chorus Detection	
	<b>C. A. Kletzing*</b> , A. Sen Gupta , I. W. Christopher, K. Rouabhi	
12:15 - 21:00	<b>MEAL &amp; NAP</b>	
11/17 (Tue) Day 2		POSTER (Chair: Manninen, Ebihara, Clilverd & Kurita)
21:00 - 24:00	P1-01   P1-27	<b>Poster Session 1A</b>
	P1-28   P1-53	<b>Poster Session 1B</b>
24:00 - 25:00	<b>Poster Discussion</b>	

<b>11/18 (Wed) Day 3</b>		<b>POSTER (Chair: Bortnik, Hirahara, Ni, &amp; Amano)</b>
09:00 - 12:00	P2-01   P2-28	<b>Poster Session 2A</b>
	P2-29   P2-56	<b>Poster Session 2B</b>
12:00 - 13:00	<b>Poster Discussion</b>	
13:00 - 21:00	<b>MEAL &amp; NAP</b>	

<b>11/18 (Wed) Day 3</b>		<b>ORAL 4 (Chair: Janos Lichtenberger &amp; Seiji Zenitani)</b>
21:00 - 22:30	O4-1	Simulation Study of Nonlinear Properties of the Whistler-Mode Chorus Generation in the Magnetosphere <b>Y. Katoh*</b> and Y. Omura
	O4-2	Determinant role of field line inhomogeneity in the chirping direction of chorus <b>Xin Tao*</b> , Yifan Wu, Fulvio Zonca and Liu Chen
	O4-3	Particle Simulation of Plasmaspheric Hiss <b>Mitsuru Hikishima*</b> , Yoshiharu Omura, Danny Summers
	O4-4	The Detection and Consequences of Coherent Electromagnetic Plasma Waves <b>Bruce T. Tsurutani*</b> , Sang A Park, Jolene Pickett, Gurbax S. Lakhina, and Abhijit Sen
22:30 - 22:45	<b>BREAK</b>	
22:45 - 24:15	O4-5	Two-dimensional general curvilinear particle-in-cell (gcPIC) simulation of rising-tone chorus waves in a dipole magnetic field <b>Quanming Lu*</b> , Yangguang Ke, Xueyi Wang, Kaijun Liu, Xinliang Gao, Lunjin Chen, and Shui Wang
	O4-6	Bayesian Identification of Chorus Sub-Packets from the Van Allen Probes <b>C. Crabtree*</b>
	O4-7	Computer simulations of nonlinear interactions between EMIC waves and ions in the inner magnetosphere <b>Masafumi Shoji*</b> , Yoshiharu Omura
	O4-8	Energetic Electron Precipitation Driven by Earth's Magnetospheric Waves <b>Wen Li*</b> , Xiaochen Shen, Luisa Capannolo, Qianli Ma,, Alex Green, Toshi Nishimura, and Shangchun Teng

11/19 (Thu) Day 4		ORAL 5 (Chair: Rajesh Singh & Yoshifumi Saito)
09:00 - 10:30	O5-1	The Demonstration and Science Experiments (DSX) Science Mission
		<b>James P. McCollough*</b> , William R. Johnston, Gregory P. Ginet, Yi-Jiun Su, Michael J. Starks, Jay Albert, and the DSX Science Team
	O5-2	Dynamics of High-Energy Radiation Belt Electron Fluxes in the Inner Magnetosphere and Their Relation to Solar Wind Driving
		<b>Jacob Bortnik*</b> , Victor A. Pinto, Didier Mourenas, Hee-Jeong Kim, Pablo S. Moya, Larry L. Lyons, Harlan E. Spence, and Daniel N. Baker
O5-3	Magnetic Local Time-resolved Examination of Radiation Belt Dynamics During Substorm Cluster Activity	
	<b>Craig J. Rodger*</b> , Drew L. Turner, Mark A. Clilverd, and Aaron T. Hendry	
O5-4	Ring Current-Radiation Belt Interaction Through Electromagnetic Ion Cyclotron Waves	
	<b>Mei-Ching Fok*</b> , Suk-Bin Kang, and Alex Glocer	
10:30 - 10:45	<b>BREAK</b>	
10:45 - 12:15	O5-5	Direct Measurements of Two-Way Wave-Particle Energy Transfer in a Collisionless Space Plasma
		<b>Naritoshi Kitamura*</b> , Masahiro Kitahara, Masafumi Shoji, Yoshizumi Miyoshi, Hiroshi Hasegawa, Satoko Nakamura, Yuto Katoh, Yoshifumi Saito, Shoichiro Yokota, Daniel J. Gershman, Adolfo F. Vinas, Barbara L. Giles, Thomas E. Moore, William R. Paterson, Craig J. Pollock, Christopher T. Russell, Robert J. Strangeway, Stephen A. Fuselier, and James L. Burch
	O5-6	On Relativistic Electrons in the Inner Belt and Slot Region: Inward Transport and Cosmic Ray Albedo Neutron Decay (CRAND) versus Various Wave Scatterings and Atmospheric Collisions
		<b>Xinlin Li *</b> and Zheng Xiang
O5-7	Contrasting Quasiperiodic Emissions at Small and Large Radial Distances	
	<b>František Němec*</b> , Ondřej Santolík, George B. Hospodarsky, Andrei G. Demekhov, Barbora Bezděková, Mychajlo Hajoš, William S. Kurth, David P. Hartley, and Michel Parrot	
O5-8	Cross-Frequency Wave Observations During Geomagnetic Storms with MMS	
	<b>M. E. Usanova*</b> and E. Radermacher	
12:30 - 14:00	<b>Business Meetings (Invitation only)</b>	
14:00 - 21:00	<b>MEAL &amp; NAP</b>	

11/19 (Thu) Day 4		ORAL 6 (Chair: Andrei G. Demekhov & Masafumi Shoji)
21:00 - 22:30	O6-1	Generation of Electron Whistler Waves at the Mirror Mode Magnetic Holes: MMS Observations and PIC Simulation
		<b>Narges Ahmadi*</b> , Frederick Wilder, Robert Ergun, Matthew Argall , Maria Usanova, Hugo Breuillard, David Malaspina, Roy Torbert , Robert Strangeway, James Burch , Barbara Giles and Olivier Le Contel
	O6-2	MMS Observations of Poloidal and Toroidal Field Line Resonances
		<b>Guan Le*</b> and Peter J. Chi
O6-3	Magnetospheric Response to Solar Wind Forcing: ULF Wave – Particle Interaction Scenario	
	<b>Qiugang Zong*</b>	
O6-4	Implementing Realistic ULF Wave Mode Structure in the Quantification of Radial Diffusion Coefficients	
	<b>Weichao Tu*</b> , Mohammad Barani, Theodore Sarris, and Mary Hudson	
22:30 - 22:45	<b>BREAK</b>	
22:45 - 24:15	O6-5	Radial transport of relativistic electrons through interaction with the ULF waves in the Earth's inner magnetosphere
		<b>Kanako Seki*</b> , Kei Kamiya, Shinji Saito, Takanobu Amano, Yoshizumi Miyosh, Mei-Ching Fok, Colin Komar, Ayako Matsuoka, and Iku Shinohara
	O6-6	Rolled-up structures in relativistic electron energy spectrum: evidence for nonlinear ULF wave-particle drift resonance
		<b>Xu-Zhi Zhou*</b> , Li Li, Yi-Fan Chen, Seth Claudepierre, Yoshiharu Omura, Qiu-Gang Zong
O6-7	Magnetic Field Oscillations Observed by Swarm Satellites in the Nightside Upper Ionosphere During Low-Latitude Pi2 Pulsations	
	<b>Khan-Hyuk Kim*</b> , Jae-Hee Park, and Hyuck-Jin Kwon	
O6-8	Twisting of Magnetic Field Lines in the Ionospheric Flux Tube by Differential Compression	
	<b>Lianghai Xie</b> and Lou-Chuang Lee*	

11/20 (Fri) Day 5		ORAL 7 (Chair: Binbin Ni & Naritoshi Kitamura)
09:00 - 10:30	O7-1	The Turbulent Plasmasphere Boundary Layer: Wave-Particle Interactions
		<b>Evgeny. V Mishin*</b>
	O7-2	Plasma Waves Observed in Electron Diffusion Regions by MMS
		<b>J. L. Burch*</b> , K. Dokgo, K.-J. Hwang, J. M. Webster, K. J. Genestreti, M. R. Argall, R.B. Torbert, D. B. Graham, R. C. Allen, O. Le Contel, R. E. Ergun, F. D. Wilder, B. L. Giles, and D. J. Gershman
O7-3	An Optimal Algebraic Approach to Multi-Spacecraft Field Analysis	
	<b>Gerard M. Chanteur*</b>	
O7-4	Whistler waves around magnetic reconnection X-line	
	<b>H. S. Fu*</b> , Z. Wang, and D. Cao	
10:30 - 10:45 <b>BREAK</b>		
10:45 - 12:15	O7-5	MMS Observation of Nonthermal Electron Acceleration Associated with High-Frequency Whistler Waves at Earth's Bow Shock
		<b>T. Amano*</b> , T. Katou, N. Kitamura, M. Oka, Y. Matsumoto, M. Hoshino, Y. Saito, S. Yokota, B. L. Giles, W. R. Paterson, C. T. Russell, O. Le Contel, R. E. Ergun, P.-A. Lindqvist, D. L. Turner, J. F. Fennell, J. B. Blake
	O7-6	Whistler-Mode Waves Associated With Magnetic Reconnection at Earth's Dayside Magnetopause
		<b>Frederick D. Wilder*</b> , Robert E. Ergun, Stefan Eriksson, Matthew R. Argall, David L. Newman, James M. Webster, Narges Ahmadi, Sanni Hoilijoki, James L. Burch, Roy B. Torbert, Barbara L. Giles, R. J. Strangeway
O7-7	Preferential Ion and Electron Heating during Magnetic Reconnection	
	<b>Masahiro Hoshino*</b> , Kaori Watanabe and Kunihiro Keika	
O7-8	Electron physics near the X-line in asymmetric magnetic reconnection	
	<b>Seiji Zenitani*</b> , Hiroshi Hasegawa, Tsugunobu Nagai	
12:15 - 14:00 <b>ONLINE BANQUET (Award Ceremony)</b>		
14:00- 21:00 <b>MEAL &amp; NAP</b>		

11/20 (Fri)	Day 5	ORAL 8 (Chair: Jyrki Manninen & Hirotsugu Kojima)
21:00 - 22:30	O8-1	MeV electrons observed at the plasma sheet boundary
		<b>I. Shinohara*</b> , T. Nagai, T. Mitani, N. Higashio, S. Kasahara, Y. Kazama, S. Y. Wang, S. W. Y. Tam, A. Matsuoka, K. Asamura, S. Yokota, T. Takashima, and Y. Miyoshi
	O8-2	Severe Erosion of the Plasmasphere or Notch or Something Else?
		<b>János Lichtenberger*</b> , Dávid Koronczay, Csaba Ferencz, Orsolya Ferencz, Péter Steinbach, Mark Clilverd, Craig Rodger, Dmitry Sannikov, Nina Cherneva and Rustam Karimov
	O8-3	Towards Developing a Nowcasting Solar Flare Capability Using Subionospheric VLF Radio: Addressing the ICAO Call for Global Aviation
		<b>Mark A. Clilverd*</b> Craig J. Rodger, Harriet George, Kathy Cresswell-Moorcock, Sophie Cook, James B. Brundell, Neil R. Thomson
	O8-4	Nonlinear Wave Growth Analysis of Whistler-Mode Chorus Generation Regions on the Basis of Coupled MHD and Advection Simulation of the Inner Magnetosphere
		<b>Yusuke Ebihara*</b> , Takuya Ikeda, Yoshiharu Omura, Takashi Tanaka, and Mei-Ching Fok
22:30 - 22:45	<b>BREAK</b>	
22:45 - 24:15	O8-5	Generation mechanism of lower band and upper band whistler-mode chorus emissions in the inner magnetosphere
		<b>Yoshiharu Omura*</b> , and Yi-Kai Hsieh
	O8-6	Active Experiments in the Inner Radiation Belt
		<b>Konstantinos Papadopoulos*</b>
	O8-7	Harnessing the Dual Nature of Plasma Turbulence in the Near-Earth Space Environment
		<b>G. Ganguli*</b>
24:15 - 24:30		Closing
		<b>Yoshiharu Omura</b>