

Symposium on the Future of Heliospheric Science: From Geotail and Beyond

Oral Sessions

DAY1 28 March 2023									
09:45									Reception Open
10:20	10:30	SOC/LOC					Opening Remarks / Announcement		
10:30	12:15	Geotail Memorial Session Chair: M. Nakamura							
10:30	10:45	On Site	A. Nishida	Memorial Talk	<i>Build up of GEOTAIL</i>				
10:45	11:00	On Site	T. Mukai	Memorial Talk	<i>Why was GEOTAIL so successful?</i>				
11:00	11:30	On Site	Y. Saito	Summary Talk	<i>Summary of Geotail Results</i>				
11:30	12:00	On Site	H. Kojima	Summary Talk	<i>Microscopic features unveiled by the Geotail plasma wave observation</i>				
12:00	12:15	On Site	M. Nakamura	Comment	<i>Geotail Exit Review</i>				
12:15	13:30	Lunch Break							
13:30	14:00	Plenary Session Chair: G. Le							
13:30	14:00	22:30	23:00	MDT	Online	D. Baker	Plenary Talk	<i>The Geotail Mission: A Springboard to Future Solar and Space Physics</i>	
14:00	14:15	Group Photo							
14:15	15:00	Poster Session / Coffee							
15:00	16:15	Geotail to Future Heliospheric System Science1: Plasma Universe and basic plasma processes Chair: S. Machida							
15:00	15:15	On Site	I. Shinohara	Contributed	<i>Geotail observations of magnetic reconnection</i>				
15:15	15:45	On Site	M. Hoshino	Solicited	<i>What we understood about magnetic reconnection and what we need to understand in our future research</i>				
15:45	16:15	08:45	09:15	CEST	Online	R. Nakamura	Invited	<i>Multi-point measurements of magnetotail reconnection in Geospace</i>	
16:15	16:45	Plenary Session Chair: G. Le							
16:15	16:45	On Site	K. Kusano	Plenary Talk	<i>Toward the physics-based prediction of solar flares and solar eruptions</i>				

DAY2 29 March 2023**08:45** Reception Open**09:00 10:30 Geotail to Future Heliospheric System Science1: Plasma Universe and basic plasma processes** Chair: H. Kojima

09:00	09:15		On Site	S. Yagitani	Invited	<i>Propagation of ELF/VLF waves in the magnetosphere: Geotail contribution</i>
09:15	09:30		On Site	Y. Kasahara	Invited	<i>Recent advances in plasma wave observation by Arase and future prospects of plasma wave measurements</i>
09:30	10:00		On Site	Y. Omura	Invited	<i>Observations and Simulations of Nonlinear Wave-Particle Interactions in Space Plasmas</i>
10:00	10:15		On Site	D. Summers	Contributed	<i>Advances in Radiation Belt Research</i>

10:15 10:45 **Coffee Break****10:45 12:15 Geotail to Future Heliospheric System Science2: Geospace** Chair: I. Shinohara

10:45	11:15		On Site	Y. Miyashita	Invited	<i>Evolution of the magnetotail associated with substorm expansion onsets</i>
11:15	11:45	22:15 22:45 EDT	Online	S. Ohtani	Invited	<i>Meso-scale Substorm Initiation Processes: From Geotail and Beyond</i>
11:45	12:15		On Site	A. Ieda	Invited	<i>Dawn-dusk displacement and timing of magnetotail plasmoids compared to auroral breakups</i>

12:15 13:45 **Lunch Break****13:45 15:00** **Poster Session / Coffee****15:00 17:00 Geotail to Future Heliospheric System Science2: Geospace** Chair: Y. Miyoshi

15:00	15:30		On Site	V. Angelopoulos	Invited	<i>From Geotail to THEMIS, and Expectations for Future Missions</i>
15:30	16:00		On Site	L. Kepko	Invited	<i>Magnetospheric Constellation: A key to unlocking the cross-scale coupling in the magnetosphere</i>
16:00	16:30		On Site	A. Retino	Invited	<i>Unveiling plasma energization and energy transport with multi-scale observations in the Earth's Magnetospheric System: the Plasma Observatory ESA M7 candidate mission.</i>
16:30	17:00	03:30 04:00 EDT	Online	M. Gkioulidou	Invited	<i>Plasma Acceleration, Reconfiguration, and Aurora Geospace Observation Network (PARAGON) mission concept: "Seeing" the Global Geospace in Mesoscale Resolution</i>

DAY3 30 March 2023

08:45								Reception Open
09:00	10:15	Geotail to Future Heliospheric System Science2: Geospace						Chair: A. Matsuoka / K. Keika
09:00	09:30	20:00	20:30	EDT	Online	□ Kistler	Invited	<i>Heavy Ions in the Magnetosphere</i>
09:30	09:45				Online	M. Nowada	Contributed	<i>New Perspective on Formation Process and Characteristics of Transpolar Arcs: Studies Focusing the Morphology and the Relation to the IMF Orientation</i>
09:45	10:15	17:45	18:15	PDT	Online	S. Petrinec	Invited	<i>The Distant Magnetotail and Surrounding Shocked Solar Wind</i>
10:15	10:45							Coffee Break
10:45	11:45	Geotail to Future Heliospheric System Science2: Geospace						Chair: A. Matsuoka / K. Keika
10:45	11:15				On Site	P. Escoubet	Invited	<i>Cluster science highlights after 22 years of operations and the future SMILE mission</i>
11:15	11:45				On Site	Y. Ezoe	Invited	<i>GEO-X (GEOspace X-ray imager) mission</i>
11:45	13:00							Lunch Break
13:00	14:45	Geotail to Future Heliospheric System Science3: Heliospheric system science, Planetary magnetosphere, and beyond						Chair: S. Kasahara / T.
13:00	13:30				On Site	Y. Miyoshi	Solicited	<i>Future plan for heliospheric system science in Japan</i>
13:30	14:00	00:30	01:00	EDT	Online	D. Rowland	Invited	<i>NASA's Geospace Dynamics Constellation (GDC) mission: a multi-spacecraft mission to explore the ionosphere-thermosphere</i>
14:00	14:15				Online	Y. Otsuka	Contributed	<i>Possibility of collaborations between GDC and Japanese ground-based network observations</i>
14:15	14:45				On Site	L. Kepko	Invited	<i>ISTPNext and Heliophysics Great Observatories: The need for international coordination in Heliophysics</i>
14:45	15:15							Coffee Break
15:15	17:30	Geotail to Future Heliospheric System Science3: Heliospheric system science, Planetary magnetosphere, and beyond						Chair: S. Kasahara / T.
15:15	15:45	08:15	08:45	CEST	Online	D. Williams	Invited	<i>Solar Orbiter: Early results from the mission, and the path it lays for the future</i>
15:45	16:15				On Site	N. E. Raouafi	Invited	<i>Parker Solar Probe: Discoveries and Outlook</i>
16:15	16:30				On Site	N. E. Raouafi	Contributed	<i>Firefly: Enabling a Holistic View of the Sun and its Environment</i>
16:30	17:00				On Site	S. Imada	Solicited	<i>Magnetic Reconnection in the Solar Atmosphere: SOLAR-C and Future Plans for Solar Observations</i>
17:00	17:30				On Site	T. Imamura	Invited	<i>Studying the mechanism driving the solar wind with Akatsuki radio occultation</i>
18:00	20:00							BANQUET at Chizanso Camellia (https://hotel-chinzanso-tokyo.com/dining/u-tokyo/)

DAY4 31 March 2023

08:45								Reception Open
09:00	10:15	Geotail to Future Heliospheric System Science5: Heliospheric system science, Planetary magnetosphere, and beyond Chair: M. Hoshino / S. Imada						
09:00	09:30	20:00	20:30	EDT	Online	E. Provornikova	Invited	<i>Interstellar Probe: Pushing the Boundaries of Space Physics in the Next Decade</i>
09:30	09:45				On Site	L. Wilson	Contributed	<i>Wind in the GGS and ISTP programs: How these missions helped inform our future solar wind measurements</i>
09:45	10:15	20:45	21:15	EDT	Online	H. Spence	Invited	<i>An Overview of HelioSwarm: A NASA MIDEX Mission to Reveal the Nature of Turbulence in Space Plasmas of the Solar Wind and Magnetotail</i>
10:15	10:45	Coffee Break						
10:45	12:15	Geotail to Future Heliospheric System Science5: Heliospheric system science, Planetary magnetosphere, and beyond Chair: M. Hoshino / S. Imada						
10:45	11:15				On Site	T. Amano	Solicited	<i>Recent progress in electron acceleration at collisionless shocks</i>
11:15	11:45	22:15	22:45	EDT	Online	W. Paterson	Invited	<i>The HERMES Payload for Gateway: Heliophysics From Lunar Orbit</i>
11:45	12:15				On Site	M. N. Nishino	Invited	<i>Future lunar environmental studies in the solar-terrestrial physics community</i>
12:15	13:45	Lunch Break						
13:45	15:15	Geotail to Future Heliospheric System Science5: Heliospheric system science, Planetary magnetosphere, and beyond Chair: Y. Saito / K. Asamura						
13:45	14:15				Online	N. Terada	Invited	<i>Geotail to planetary exploration</i>
14:15	14:45				On Site	K. Seki	Solicited	<i>Current understanding and open questions of atmospheric ion escape from terrestrial planets: From Geotail to planetary missions</i>
14:45	15:15				On Site	S. Kasahara	Invited	<i>Cometary plasma science: the Comet interceptor and beyond</i>
15:15	15:45	Coffee Break						
15:45	17:00	Geotail to Future Heliospheric System Science5: Heliospheric system science, Planetary magnetosphere, and beyond Chair: Y. Saito / K. Asamura						
15:45	16:15				On Site	G. Murakami	Solicited	<i>Contribution of the BepiColombo mission to heliospheric system science</i>
16:15	16:45				On Site	S. Kameda	Invited	<i>Solar-Terrestrial Physics to Stellar-exoTerrestrial Physics</i>

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Poster Sessions

DAY1 28 March 2023 14:15-15:00 JST

DAY2 29 March 2023 13:45-15:00 JST

P-1	On Site	POSTER	K. Kondoh	<i>THEMIS observations of magnetic reconnection structures in the dayside geomagnetopause</i>
P-2	On Site	POSTER	K. Kondoh	<i>GEOTAIL observations of magnetic reconnection environment around the dayside geomagnetopause</i>
P-3	On Site	POSTER	F. Beyene and V. Angelopoulos	<i>Storm-time Very-Near-Earth Magnetotail Reconnection: A Statistical Perspective</i>
P-4	On Site	POSTER	S. Nitta	<i>The self-similar reconnection model --a new MHD reconnection model for astrophysical applications--</i>
P-5	On Site	POSTER	N. Kitamura,	<i>Direct observations of energy transfer from resonant electrons to whistler-mode waves in magnetosheath of Earth</i>
P-6	On Site	POSTER	Y. Hsieh	<i>Nonlinear wave damping of chorus emission at 0.5 electron gyrofrequency gap due to Landau resonance</i>
P-7		POSTER	S. Gopinath	<i>Non-extensive Tsallis entropy analysis on long-term variation of Joule heating at high latitudes</i>
P-8	On Site	POSTER	T. Hori	<i>Ionospheric flow fluctuations at mid-latitudes during storms as seen by SuperDARN-Van Allen Probes-Arase conjunctions</i>
P-9	On Site	POSTER	M. Pandya	<i>Energetic electron injection leading to the formation of zebra pattern in the Earth's inner magnetosphere</i>
P-10	Canceled			
P-11	On Site	POSTER	S. Bergman	<i>Estimating the spacecraft potential of Comet Interceptor – simulation results and implications for plasma measurements</i>
P-12	On Site	POSTER	M. Persson	<i>Venus Dynamics Tracer (VdT), a mission dedicated for in-situ measurements of the Venus atmosphere</i>
P-13		POSTER	L. Lu	<i>Simulation of ENA Imaging measurement on Chang'E-7 relay Satellite and expectation of scientific results</i>