



JpGU Meeting 2020

Session outline

Space and Planetary Sciences(P)

Session Sub-category		Solar-Terrestrial Sciences, Space Electromagnetism & Space Environment(EM)
Session ID		P-EM16
Title		Magnetospheric Multi Scale (MMS) mission: Accomplishments and Future Plans
Short Title		Magnetospheric Multi Scale (MMS) mission
Main Convener	Name	Yoshifumi Saito
	Affiliation	Solar System Science Division, Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency
Co-Convener 1	Name	James L Burch
	Affiliation	Southwest Research Institute
Co-Convener 2	Name	Barbara L Giles
	Affiliation	NASA Goddard Space Flight Center
Co-Convener 3	Name	Hiroshi Hasegawa
	Affiliation	Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency
Session Language		E
Scope	<p>NASA's Magnetospheric Multiscale (MMS) formation flying satellites have been making unprecedentedly high time resolution measurements of collisionless plasmas in and around Earth's magnetosphere since it was launched in 2015. After completing its nominal mission in 2018, MMS has continued its observations including targeting the magnetic reconnection in the Earth's magnetotail. The major purpose of this session is to summarize the new world of electron physics that MMS has so far revealed and also to consider a future observation plan recently submitted by the mission team for the extended mission of MMS especially during the coming several years.</p> <p>The collaboration with multiple missions including Geotail, Cluster II, THEMIS, Arase and other solar terrestrial probes while MMS focuses into electron scale is the key to understanding multiscale phenomena in the Earth's magnetosphere. We solicit contributions from satellite observations, numerical simulations, laboratory observations, and theories that relate MMS observations. Contributions to the possible future observation plans are especially welcome.</p> <p>This is a joint session with American Geophysical Union (AGU). We hope this session will promote further international collaboration among Japan, United States and space physicists all over the world.</p>	
Presentation Format		Oral and Poster presentation

Close

