International Magnetosphere Coupling IV (IMC-IV) Workshop

Monday 3 June 2024

Plasmasphere, Ring Current, and Radiation Belts - Lecture Hall (11:45 - 13:15)

-Conveners: Jerry Goldstein; Mary Hudson

time	[id] title	presenter
11:45	[10] Theoretical Modelling of the Radiation Belts: Wave-particle interactions, plasma density and strong diffusion	HORNE, Richard
11:55	[162] Discussion	
12:05	[11] Ring current and radiation belt contributions to mesoscale precipitation regions	JAYNES, Allison
12:15	[163] Discussion	
12:25	[12] Radiation belt acceleration during the geomagnetic storm of 24 March 1991 as a benchmark of an extreme space weather event within the SWIMMR Sat-Risk project	DESAI, Ravindra
12:30	[164] Discussion	
12:35	[13] Contribution of MeV Electron Precipitation to Radiation Belt Dropouts	FREUND, Domenique
12:40	[165] Discussion	
12:45	[14] Using electron pitch angle distributions to understand long-term radiation belt effects	GREELEY, Ashley
12:50	[166] Discussion	
12:55	[15] Drift phase structuring of the entire terrestrial radiation belts	LEJOSNE, Solene
13:00	[167] Discussion	
13:05	[282] Additional discussion time	

Plasmasphere, Ring Current, and Radiation Belts - Lecture Hall (14:30 - 16:00)

-Conveners: Jerry Goldstein; Mary Hudson

time	[id] title	presenter
14:30	[16] Mesoscale Processes and their effect on the ring current build up: The Elusive Mode of Plasma Transport and the Measurements Needed to Bring it to Light	GKIOULIDOU, Matina
14:40	[168] Discussion	
14:50	[17] A new mechanism for early-time plasmaspheric refilling	ILIE, Raluca
15:00	[169] Discussion	
15:10	[18] A missing Dusk-side Loss Process in the Electron Ring Current	HAAS, Bernhard
15:15	[171] Discussion	
15:20	[19] The modified Versatile near-Earth environment of Radiation Belts and ring current 4D (VERB-4D) code	HIMMELSBACH, Julia
15:25	[172] Discussion	

	[20] Global Validation of the Data-Assimilative VERB-3D Code for the Radiation Belts	GARCÍA PEÑARANDA, Marina
15:35	[170] Discussion	
15:40	[283] Additional discussion time	

Plasmasphere, Ring Current, and Radiation Belts - Lecture Hall (16:15 - 17:45)

-Conveners: Mary Hudson; Jerry Goldstein

time	[id] title	presenter
16:15	[34] The influence of substorm activity on the ring current dynamics	YUE, Chao
16:25	[181] Discussion	
16:35	[35] Imaging Plasmaspheric Dynamics Using Radio Frequency Signals	MALASPINA, David
16:45	[179] Discussion	
16:55	[36] Plasmaspheric plumes : importance and dynamics	DARROUZET, Fabien
17:05	[180] Discussion	
	[37] A new inner magnetosphere model designed for multiscale whole geospace modeling	SCIOLA, Anthony
17:20	[182] Discussion	
17:25	[284] Additional discussion time	

Tuesday 4 June 2024

<u>Plasmasphere, Ring Current, and Radiation Belts</u> - Lecture Hall (16:15 - 17:45)

-Conveners: Mary Hudson; Jerry Goldstein

time	[id] title	presenter
16:15	[81] Open questions in ion outflow and the source of magnetospheric plasma	GLOCER, Alex
16:25	[275] Discussion	
16:35	[82] Global modeling of transport in the magnetosphere: The large effect of small scales	SORATHIA, Kareem
16:40	[278] Discussion	
16:45	[83] Evaluating the uncertainties in global MHD and Test-Particle simulations of the Earth's radiation belts	TONG, Yihui
16:50	[277] Discussion	
16:55	[84] Earth's ultrarelativistic electron acceleration: current understanding and future exploration	ZHAO, Hong
17:00	[280] Discussion	
17:05	[85] The Role of Local Acceleration and Radial Diffusion in multi-MeV Electron Enhancements	SAIKIN, Anthony
17:10	[281] Discussion	
17:15	[86] Characteristics of electron microburst precipitation: recent results and upcoming missions	MILLAN, Robyn
17:20	[279] Discussion	
17:25	[87] Understanding loss drivers in Earth's outer radiation belt during solar wind pressure enhancements: Observations and simulations	WANG, Xiaoyu
17:30	[276] Discussion	
17:35	[291] Additional discussion time	

Thursday 6 June 2024

Plasmasphere, Ring Current, and Radiation Belts - Lecture Hall (10:00 - 11:30)

-Conveners: Jerry Goldstein; Mary Hudson

time	[id] title	presenter
	[120] Cold Electrons and Electromagnetic Waves in the Plasmasphere With Application to Wave-Particle Interactions and Active Experiments	RIPOLI, Jean-Francois
10:10	[204] Discussion	
10:20	[121] Radiation belt electron loss from an observational perspective	BLUM, Lauren
10:30	[205] Discussion	
	[141] Modelling magnetopause shadowing in 4D drift-resolved Salammbô simulations	KIRAZ, Rabia
10:45	[201] Discussion	
10:50	[122] Distribution of seed electron phase space density minima in Earth's radiation belts	DROZDOV, Alexander
10:55	[202] Discussion	
11:00	[123] Validation of model results in response to the COSPAR ISWAT challange	WANG, Dedong
11:05	[203] Discussion	
11:10	[124] Electron Precipitation into the South Atlantic Anomaly During Geomagnetic Storms	GRISHINA, Alina
11:15	[200] Discussion	
11:20	[295] Additional discussion time	