

Agenda for GPM/PMM session of the joint PI meeting of JAXA Earth Observation Missions FY2023

*Presentation time include 5minutes Q&A

As of Oct 31th

Date	Session	Time	Mins	PMM PI	Speaker	Affiliation	Title	Chair	Room	
Nov. 7, Tue.	Special session on typhoon science in collaboration with TRC/YNU	10:00 - 10:05	5		Takuji Kubota	JAXA	Opening Remarks	T. Kubota, JAXA/EORC	Hall 14F	
		10:05 - 10:10	5		Jun Matsumoto	Tokyo Metropolitan Univ.	Introduction of the TRC			
		10:10 - 10:50	40		Chun-Chieh Wu	National Taiwan University	Targeted Observation of Tropical Cyclones: DOTSTAR and Beyond			
		10:50 - 11:10	20		Hiroki Tsuji	RESTEC	Analyses of precipitation characteristics for constructing GPM/SLH tropical cyclone module			
		11:10 - 11:30	20		Masafumi Hirose	Meijo Univ.	Variability of precipitation statistics associated with tropical cyclones based on long-term spaceborne radar data			
		11:30 - 11:50	20		Udai Shimada	JMA-MRI	Tropical cyclone structure estimation and intensity forecast using GSMaP and GMI			
		11:50 - 12:00	10		Jun Matsumoto	Tokyo Metropolitan Univ.	Wrap-up			
	12:00 - 13:30	90	Lunch Break							
	GPM session	13:30 - 13:35	5			Yukari N. Takayabu	(GPM project scientist)	Opening Remarks		T. Kubota, JAXA/EORC
		13:35 - 13:55	20			Takuji Kubota	JAXA	JAXA GPM Status		
		13:55 - 14:15	20	invited		George J. Huffman	NASA	US GPM Status		
		14:15 - 14:35	20			Seiji Kawamura	NICT	NICT GPM Status		
		14:35 - 14:50	15	Break						
		14:50 - 15:10	20			Nobuhiro Takahashi	(DPR L2 Algorithm Team Leader)	DPR Algorithm Status		T. Ushio, Osaka Univ.
		15:10 - 15:30	20	invited		George J. Huffman	NASA	US IMERG Status		
		15:30 - 15:50	20	✓		Tomoo Ushio	Osaka Univ.	Research and Development of Algorithm for the High Resolution GSMaP		
		15:50 - 16:10	20	✓		Jun Matsumoto	Tokyo Metropolitan Univ.	Evaluating GSMaP offshore data and tropical cyclone-induced rainfall over the coastal regions of Vietnam		
		16:10 - 16:25	15	Break						
		16:25 - 16:45	20	✓		Alan James Peixoto Calheiros	INPE	TRACKING AND PREDICTION OF PRECIPITATING SYSTEMS IN SOUTH AMERICA USING UNSUPERVISED MACHINE LEARNING		S. Shige, Kyoto Univ.
16:45 - 17:05		20	✓		Shunji Kotsuki	Chiba Univ.	Advancing GSMaP Precipitation by Land Data Assimilation and Data Science			
17:05 - 17:25	20	✓		Shoichi Shige	Kyoto Univ.	Development of the next-version GSMaP microwave radiometer precipitation retrieval algorithm and improvement of the SLH algorithm				

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Date	Session	Time	mins	PMM PI	Speaker	Institution	Title	Chair	Room
Nov. 8, Wed.	AMSR-PMM Joint session	9:00 - 9:05	5		Misako Kachi & Takuji Kubota	JAXA/EORC	Session Introduction	T. Kubota, JAXA/EORC	Hall 14G
		9:05 - 9:25	20	invited	Chris Kummerow	Colorado State Univ.	Using AMSR2 and CloudSat to constrain light precipitation from GPM's core satellite		
		9:25 - 9:45	20		Kazumasa Aonashi	JAXA/Kyoto Univ.	Frozen Precipitation Particle Properties Estimated from DPR and GMI for OLYMPEX Cases		
		9:45 - 10:05	20		Guosheng Liu	Florida State Univ.	Solid Precipitation Retrieval Algorithm for AMSR3		
		10:05 - 10:25	20	✓	Nobuyuki Utsumi	Tokyo Institute of Technology	Improvement of the GSMaP Passive Microwave Algorithm for Snowfall Retrieval		
		10:25 - 10:40	15	Break					
		10:40 - 11:00	20	✓	Francis J. Turk	UCLA	Estimation of Precipitation Type and Vertical Structure from the GPM Passive Microwave Radiometer Constellation	M. Kachi, JAXA/EORC	
		11:00 - 11:20	20		Hidehiko Murata	JMA	Utilization of water vapor, clouds and precipitation information from space-based microwave observation in JMA operational numerical weather prediction systems		
		11:20 - 11:40	20		Keiichi Ohara	JAXA/EORC	Synergistic retrieval of cloud ice in deep convective clouds using radar and radiometer		
		11:40 - 12:00	20		Nao Yoshida	JAXA/EORC	Improvement and evaluation of the GSMaP precipitation retrieval algorithm for microwave sounders over coast		
	12:00 - 13:15	75	Lunch Break						
	13:15 - 13:45	30	On-Site Poster Session (core time)						
	13:45 - 14:05	20		Munehisa K. Yamamoto	JAXA/EORC	Toward the Polar extension of GSMaP PMW-IR combined algorithm using NEXRA data	N. Takahashi, Nagoya Univ.		
	14:05 - 14:25	20	✓	Masafumi Hirose	Meijo Univ.	Temporal variability and spatial uncertainty in precipitation climatology refined from the long-term spaceborne radar data			
	14:25 - 14:45	20		Chie Yokoyama	JAXA/EORC	Storylines of future changes of Baiu heavy rainfall projected by combining GPM DPR and CMIP6			
	14:45 - 15:05	20	✓	Shinta Seto	Nagasaki Univ.	Development of a common algorithm for spaceborne Ku-band precipitation radars			
	15:05 - 15:25	20	✓	Nobuhiro Takahashi	Nagoya Univ.	Improvement of DPR algorithm and analysis of the cloud physical processes using DPR and dual-polarization radar	M. Hirose, Meijo Univ.		
	15:25 - 15:40	15	Break						
	15:40 - 16:00	20	invited	Jun Awaka	Tokai Univ. (Professor)	Improvement of GPM DPR rain type classification algorithm			
	16:00 - 16:20	20	✓	Sento Nakai	NIED	Analysis of 3-dimensional structure of mesoscale snowfall systems by comparison of radar-disdrometer observations and GPM Level 2 products			
16:20 - 16:40	20	✓	Kenji Suzuki	Yamaguchi Univ.	Solid hydrometeor measurements from the ground through in the cloud including the melting layer for GPM DPR algorithms/products validation				
16:40 - 17:00	20	✓	Fumie Murata	Kochi Univ.	Validation of GPM product about the extreme rainfall area over complicated topography in the northeast Indian subcontinent				
17:00 - 17:20	20	✓	Hiroshi G. Takahashi	Tokyo Metropolitan Univ.	Ground evaluation of the GPM observation and the GSMaP data over the Izu and Ogasawara Islands				

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Nov. 9, Thu.	AOS/PMM session	9:00 - 9:20	20		Takuji Kubota	JAXA	JAXA PMM Status	N. Takahashi, Nagoya Univ.	Hall 14F		
		9:20 - 9:40	20	invited	Scott A. Braun	NASA	US AOS Status				
		9:40 - 10:10	30		Discussion						
	GPM session	10:10 - 10:30	20	✓	Atsushi Hamada	Univ. of Toyama	Enhancing precipitation regime and profile databases for the GSMaP precipitation retrieval and combined observation of melting precipitation particles	H. Masunaga, Nagoya Univ.			
		10:30 - 10:50	20	✓	Hisato Iwashita	Meisei Electric Co.	Utilization verification of the satellite data such as GSMaP, GPM/DPR for the social implementation with POTEKA observation/prediction technology on the ground surface				
		10:50 - 11:10	20		Kosuke Yamamoto	JAXA/EORC	Development and validation of Global Ensemble Terrestrial Hydrological Simulation TE-Global NEXRA				
		11:10 - 11:30	20	✓	Hiroshi Matsuyama	Tokyo Metropolitan Univ.	Ground evaluation of the GPM observation and the GSMaP data over the Izu and Ogasawara Islands				
		11:30 - 11:50	20	✓	Hirohiko Masunaga	Nagoya Univ.	Inter-comparison of global rainfall datasets for the improvement of satellite rainfall algorithms				
		11:50 - 13:20	90		Lunch Break						
		13:20 - 13:40	20	✓	Oliver Cristian SAAVEDRA VALERIANO	Universidad Privada Bolivia	Ground validation of GPM products and their hydrological applications in Bolivia	Y. N. Takayabu, The Univ. of Tokyo			
		13:40 - 14:00	20	✓	Mohamed RASMY	ICHARM	Application of GPM and GSMaP data for water resources and water-related disaster managements in the poorly gauged river basins				
		14:00 - 14:20	20	✓	Kusuma G Rao	IARSc	Characterization of the Extreme Rain Events associated with Convective regions of Mesoscale Convective Systems of the Indian Summer Monsoon: Implications on Monsoon Rainfall on Seasonal and Active monsoon time scales				
		14:20 - 14:40	20	✓	Yukari N. Takayabu	The Univ. of Tokyo	Studies for Development of Tropical Cyclone Module of the Spectral Latent Heating Algorithm and for Further Understandings of Global Precipitation Systems utilizing GPM DPR				
		14:40 - 14:45	5		Yukari N. Takayabu	(PMM project scientist)	Closing Remarks				
	14:45 - 15:00	15		Break							
	Multi-disciplinary Application	15:00 - 15:20	20		Keiya Yumimoto	Kyusyu Univ.	Development of aerosol assimilation and forecasting system with data from multiple space-borne observation platforms	TBD		Hall 14G	
		15:20 - 15:40	20		Daisuke Goto	NIES	Research on air pollution prediction by assimilating aerosol products retrieved from satellites				
		15:40 - 16:00	20	✓	Takemasa Miyoshi	RIKEN	Advances and applications of satellite data assimilation of clouds, precipitation, and the ocean				
		16:00 - 16:20	20		Naohiko Hirasawa	NIPR	The current state of snowfall and surface melting on the Antarctic ice sheet and understanding the relationship with global warming using ground-based and satellite observations				
		16:20 - 16:35	15		Break						
		16:35 - 16:55	20		Kaoru Tachiiri	JAMSTEC	Contribution to satellite products development by sharing needs and results of a climate change research project				
16:55 - 17:15		20	invited	Kei Yoshimura	The Univ. Tokyo	Global/Regional Long-term Terrestrial Hydrological Simulation by Today's Earth					
17:15 - 17:35		20	✓	Yoshihiro Iijima	Tokyo Metropolitan Univ.	North-eastern Eurasia Precipitation variation and Terrestrial water cycle UNited satellites Experiment (NEPTUNE-III)					
17:35 - 17:55	20	✓	Yasutaka Ikuta	JMA-MRI	Assimilation of cloud and precipitation for km-scale numerical weather prediction model						