

Agenda for GPM/PMM session of the joint PI meeting of JAXA Earth Observation Missions FY2022

*Presentation time include 3minutes Q&A

As of October 20

Date	Time	mins	PMM PI	Speaker	Institution	Title	Chair	Room	
Nov. 8, Tue.	15:00 - 17:00	120		Plenary session		“From Data to Knowledge: Integrating Our Efforts for Planet Earth” *Talk session in Japanese (with simultaneous interpretation)		Online (Broadcast from venue)	
Nov. 9, Wed.	AMSR-PMM Joint session								
	10:00 - 10:05	5		Misako Kachi/ Takuji Kubota	JAXA	Session Introduction		Hall 5A or online	
	10:05 - 10:20	15	invite d	Chris Kummerow	Colorado State Univ.	AMSR and GPM Precipitation V7 and V8 – the convergence of satellite precipitation products	T. Kubota, JAXA/EORC		
	10:20 - 10:35	15		Kazumasa Aonashi	JAXA/Kyoto Univ.	Frozen precipitation particle shapes estimated from DPR and GMI			
	10:35 - 10:50	15		Guisheng Liu	Florida State Univ.	Solid Precipitation Retrieval Algorithm for AMSR3			
	10:50 - 11:05	15	*	Nobuyuki Utsumi	Kyoto Univ. of Advanced Science	Improvement of the GSMAp Passive Microwave Algorithm for Snowfall Retrieval	M. Kachi, JAXA/EORC		
	11:05 - 11:20	15	*	Francis J. Turk	UCLA	Estimation of Precipitation Type and Vertical Structure from the GPM Passive Microwave Radiometer Constellation			
	11:20 - 11:35	15		Masahiro Kazumori	JMA	Utilization of water vapor, clouds and precipitation information from space-based microwave observation in JMA operational numerical weather prediction systems			
	11:35 - 12:45	70		Break					
	Session for multidisciplinary application research (Joint session)								
	12:45 - 13:00	15		Keiya Yumimoto	Kyushu Univ.	Development of aerosol assimilation and forecasting system with data from multiple space-based observation platforms	H. Murakami, JAXA/EORC	Hall 5A or online	
	13:00 - 13:15	15		Daisuke Goto	NIES	Research on air pollution prediction by assimilating aerosol products retrieved from satellites			
	13:15 - 13:30	15	*	Takemasa Miyoshi	RIKEN	Advances and applications of satellite data assimilation of clouds, precipitation, and the ocean	T. Kubota, JAXA/EORC		
	13:30 - 13:45	15	*	Yasutaka Ikuta	JMA-MRI	Assimilation of cloud and precipitation for km-scale numerical weather prediction model			
	13:45 - 14:00	15	invite d	Kei Yoshimura	The Univ. of Tokyo	Fusion of satellite observation and land model simulation using Today's Earth			
14:00 - 14:15	15	*	Yoshihiro Iijima	Mie Univ.	North-eastern Eurasia Precipitation variation and Terrestrial water cycle UNited satellites Experiment (NEPTUNE-III)	H. Murakami, JAXA/EORC			
14:15 - 14:30	15		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				
14:30 - 14:45	15		Kaoru Tachiiri	JAMSTEC	Contribution to satellite products development by sharing needs and results of a climate change research project				
14:45 - 15:00	15		Break						
15:00 - 17:00	120		Plenary session		“Status of JAXA Earth Observation and Satellite Projects”			Online (Broadcast from venue)	

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Date	Time	mins	PMM PI	Speaker	Institution	Title	Chair	Room		
GPM Session										
Nov. 10, Thu.	9:30 - 9:35	5		Yukari Takayabu	(PMM project scientist)	Opening Remarks	Y. N. Takayabu, The Univ. of Tokyo	Hall 5A or online		
	9:35 - 9:50	15		Takuji Kubota	JAXA	JAXA GPM Status				
	9:50 - 10:05	15	invited	George J. Huffman	NASA	US GPM Status				
	10:05 - 10:20	15		Seiji Kawamura	NICT	NICT GPM Status				
	10:20 - 10:35	15		Nobuhiro Takahashi	(DPR L2 Algorithm Team Leader)	DPR Algorithm Status				
	10:35 - 10:55	20	Break							
	10:55 - 11:10	15	*	Tomoo Ushio	Osaka Univ.	Research and Development of Algorithm for the High Resolution GSMaP	T. Usio, Osaka Univ.			
	11:10 - 11:25	15	*	Atsushi Hamada	Univ. of Toyama	Enhancing precipitation regime and profile databases for the GSMaP precipitation retrieval and combined observation of melting precipitation particles				
	11:25 - 11:40	15		Hitoshi Hirose	JAXA/EORC	Improvement of precipitation underestimation by introducing histogram matching to GSMaP				
	11:40 - 11:55	15		Munehisa K. Yamamoto	JAXA/EORC	Implementation and next step of a rainfall normalization module for GSMaP microwave imagers and sounders				
	11:55 - 12:10	15	*	Masafumi Hirose	Meijo Univ.	Temporal variability and spatial uncertainty in precipitation climatology refined from the long-term spaceborne radar data				
	12:10 - 13:30	80	Break							
	13:30 - 13:45	15	*	Shoichi Shige	Kyoto Univ.	Development of the next-version GSMaP microwave radiometer precipitation retrieval algorithm and improvement of the SLH algorithm	S. Shige, Kyoto Univ.			
	13:45 - 14:00	15	*	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				
	14:00 - 14:15	15	*	Shinta Seto	Nagasaki Univ.	Development of a common algorithm for spaceborne Ku-band precipitation radars				
	14:15 - 14:30	15	invited	Jun Awaka	Tokai Univ. (Professor emeritus)	Improvement of GPM DPR rain type classification algorithm				
	14:30 - 14:45	15	invited	Toshio Iguchi	Osaka Univ.	Effect of double scattering on the estimates of surface cross section				
	14:45 - 15:00	15	Break							
	15:00 - 15:15	15	*	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.			
15:15 - 15:30	15	*	Sento Nakai	NIED	Analysis of 3-dimensional structure of mesoscale snowfall systems by comparison of radar-disdrometer observations and GPM Level 2 products					
15:30 - 15:45	15	*	Kenji Suzuki	Yamaguchi Univ.	Solid hydrometeor measurements from the ground through in the cloud including the melting layer for GPM DPR algorithms/products validation					
15:45 - 16:00	15	*	Hiroshi G. Takahashi	Tokyo Metropolitan Univ.	25-yr trends and interannual variability in precipitation characteristics over the Asian monsoon region by TRMM-PR+GPM-DPR and high-resolution simulations					
16:00 - 16:15	15		Moeka Yamaji	JAXA/EORC	Seasonal differences of precipitation and microphysical characteristics over the Asian monsoon region using GPM/DPR					
16:15 - 16:30	15	*	Fumie Murata	Kochi Univ.	Validation of GPM product about the extreme rainfall area over complicated topography in the northeast Indian subcontinent					

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AOS/PMM session										
Nov. 11, Fri.	9:00 - 9:15	15		Takuji Kubota	JAXA	JAXA PMM Status	T. Kubota, JAXA/EORC	Hall 5A or online		
	9:15 - 9:30	15	invite d	Scott A. Braun	NASA	US AOS Status				
	9:30 - 9:45	15	invite d	Kaya Kanemaru	NICT	A contribution of NICT's R&D to the future spaceborne precipitation radar				
	9:45 - 10:00	15	invite d	Kenji Nakamura	Dokkyo Univ.	Next generation spaceborne precipitation radar				
	10:00 - 10:20	20	Break							
	AOS/PMM discussion									
	10:20 - 10:35	15		Takuji Kubota	JAXA	Latest information on products from Japan side	N. Takahashi, Nagoya Univ.	Hall 5A or online		
	10:35 - 10:50	15				Q&A				
	10:50 - 11:05	15	invite d	Scott A. Braun	NASA	Latest information on products from the US side				
	11:05 - 11:20	15				Q&A				
	11:20 - 11:35	15		Takuji Kubota	JAXA	Ku-band Doppler Precipitation Radar (KuDPR) Validation plan discussion				
	11:35 - 11:50	15				Q&A				
	11:50 - 12:20	30				General Q&A				
	12:20 - 13:30	70	Break							
13:30 - 14:05	35		Core time of the GPM/PMM poster session					Hall 5A		
GPM Session										
14:05 - 14:20	15	invite d	George J. Huffman	NASA	US IMERG Status	H. Masunaga, Nagoya Univ.	Hall 5A or online			
14:20 - 14:35	15	*	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					
14:35 - 14:50	15	*	Hiroshi Matsuyama	Tokyo Metropolitan Univ.	Ground evaluation of the GPM observation and the GSMaP data over the Izu and Ogasawara Islands					
14:50 - 15:05	15	*	Hirohiko Masunaga	Nagoya Univ.	Inter-comparison of global rainfall datasets for the improvement of satellite rainfall algorithms					
15:05 - 15:25	20	Break								
15:25 - 15:40	15	*	Jun Matsumoto	Tokyo Metropolitan Univ.	Evaluating GSMaP offshore data and tropical cyclone-induced rainfall over the coastal regions of Vietnam					
15:40 - 15:55	15	*	Mohamed RASMY	ICHARM	Application of GPM and GSMaP data for water resources and water-related disaster managements in the poorly gauged river basins					
15:55 - 16:10	15		Kosuke Yamamoto	JAXA/EORC	Analysis of the global trend of terrestrial water cycle using Today's Earth					
16:10 - 16:25	15	*	Shunji Kotsuki	Chiba Univ.	Advancing GSMaP Precipitation by Land Data Assimilation and Data Science					
16:25 - 16:30	5		Yukari Takayabu	(PMM project scientist)	Closing Remarks					