2019 PMM Science Team Meeting November 4 – 8, 2019 Indianapolis, IN

Monday, November 4, 2019		8:00 am START	
	8:00 am – 12:00 pm	XCAL Workgroup (Berg) – Corydon Room (2 nd Floor)	
	8:30 am – 12:30 pm	JPST (Invitation only) – Indianapolis Room (2 nd Floor)	
	10:30 am – 12:30 pm	Particle Scattering (Adams) – Vincennes Room (2 nd Floor)	
	1:00 pm – 4:00 pm	DPR (Invitation only) (Iguchi) – Indianapolis Room (2 nd Floor)	
	2:00 pm – 4:00 pm	Latent Heating Workgroup (Tao) – Corydon Room (2 nd Floor)	
	3:00 pm – 6:00 pm	Multi-Satellite Workgroup (Huffman) – Vincennes Room (2 nd Floor)	
	4:00 pm – 5:00 pm	PSD and GV: Snow Applications (Pettersen) – Indianapolis Room (2 nd Floor)	
	4:00 pm – 6:00 pm	Hydrology Workgroup (Peters-Lidard) – Corydon Room (2 nd Floor)	
	6:00 pm – 8:00 pm	Land Surface Workgroup (Turk/Ringerud) – Vincennes Room (2 nd Floor)	
	6:00 pm – 8:00 pm	PSD and GV: Processes, Products, and Problems Workgroup (Williams & Munchak) – Indianapolis Room (2 nd	Floor)
	6:00 pm – 8:00 pm	CEOS Precipitation-Virtual Constellation (Invitation only) (Skofronick-Jackson) – Corydon Room (2 nd Floor)	

Tuesday, November 5, 2019 8:30am START 7:00 am Conference registration and check-in, and poster setup (Victory Ballroom is located on 9th Floor) (Chair: D. Kirschbaum) Session 1: Programmatics (8:30 am – 11:30 am) G. Skofronick-Jackson 8:30 - 8:50NASA HQ PMM Welcome and Program Status 8:50 - 9:10NASA GPM Status and Science S. Braun 9:10 - 9:30Precipitation Processing System (PPS) E. Stocker Update on the Aerosols, Clouds, Convection, and Precipitation (ACCP) Study 9:30 - 9:50S. Braun Break (30 min) 9:50 am - 10:20 am (Chair: S. Braun) 10:20 - 10:35**JAXA PMM Program Status** R. Oki 10:35 - 10:50JAXA GSMaP & Applications Status T. Kubota 10:50 - 11:10JAXA GPM Science Status Y. Takayabu/N. Takahashi 11:10 - 11:30**DPR Algorithm Status** N. Takahashi **SCIENCE TEAM GROUP PICTURE** Lunch (1hr 30 min) 11:30 am - 1:00 pm (Chair: W. Berg) Session 2: GPM Algorithm Status Reports and Science (1:00 pm – 2:40 pm) 1:00 - 1:20Radar R. Meneghini 1:20 - 1:40Combined W. Olson 1:40 - 2:00**GPROF** C. Kummerow 2:00 - 2:20**IMERG** G. Huffman 2:20 - 2:40**CSH Latent Heating** W.-K. Tao Break (30 min) 2:40 pm - 3:10 pm Session 3: Applications: (3:10 pm - 4:30 pm) (Chair: A. Barros) Everyday Solutions using GPM Data: The Ins and Outs of GPM Applications 3:10 - 3:30D. Kirschbaum/A. Portier Enabling the U.S. Army Streamflow Prediction Tool to use GPM products 3:30 - 3:45A. Tavakoly 3:45 - 4:00Improving climate services in developing nations with Ag Out - an enhanced IMERG-based Ag **Outlook System** C. Funk

Session 4: Poster Session I (4:30 pm - 6:00 pm) Monument Hall which is located on the Lower Level

GPM for Hydropower Reservoir Operation in Africa

Discussion/Questions

4:00 - 4:15 4:15 - 4:30 M. Gebremichael

Wednesday, Nove	ember 6, 2019	8:00am START
7:00 am Co	onference registration, check-in, and poster setup (Victory Ballroom is located on the 9 th Floor)	
Session 5: Science	e Reports I: (8:00 am - 9:45 am)	(Chair: G. Elsaesser)
8:00 – 8:15	Precipitation and Latent Heating in Tropical Easterly Waves	E. Martin
8:15 – 8:30	Variability in Convective Feature Populations with ITCZ Width in the Pacific	A. Rapp
8:30 – 8:45	A conversation in convection between the GPM DPR and CAM5	C. Schumacher
8:45 – 9:00	Comparison of Oceanic Acoustic Rain Measurements with Downscaled IMERG Rainfall for the	
	Study of Air-Sea Interaction	E. Thompson
9:00 – 9:15	Dynamic Surface Information for GPM Retrievals	C. Peters-Lidard
9:15 – 9:30	Developing Data Assimilated 4D Global Precipitation Products from the GEOS System in Support of the GPM Mission	MJ. Kim
9:30 – 9:45	Discussion/Questions	
	Break (30 min) 9:45 am – 10:15 am	
ession 6: Interna	itional Collaborations I (10:15 am – 11:45 am)	(Chair: G. Huffman)
10:15 – 10:30	Megha-Tropiques Status: Towards the End of the Mission?	R. Roca
10:30 – 10:45	Assessment of snowfall observational capabilities of GMI and ATMS through the exploitation of	
	satellite-based and ground-based observational datasets	G. Panegrossi
10:45 - 11:00	Variations of microwave scattering properties of precipitation in terms of frozen precipitation depth	
	and surface temperature	K. Aonashi
11:00 – 11:15	The Contribution of Rain Gauges in the Calibration of the GPM-IMERG Product. Results from the	
	First Validation over Spain	F. Tapiador
11:15 – 11:30	Detection of the Mixed Layer Top	T. Iguchi
11:30 – 11:45	Discussion/Questions	
	Lunch (1hr 40 min) (11:45 am - 1:15 pm) Applications Lunch Meeting	
Session 7: Science	e Reports II (1:15 pm – 2:45 pm)	(Chair: D. Cecil)
1:15 – 1:30	Toward Formulation of a Semi-Permanent Supersite for Cloud, Convection, and Precipitation	(chair. D. ceen)
1.15	Processes at Wallops Flight Facility	T. Matsui
1:30 – 1:45	Using GPM-GV Data for Improved Ice and Mixed Phase Precipitation Retrievals from the GPM DPR	S. Nesbitt
L:45 – 2:00	Estimating precipitation spatial variability using airborne HIWRAP observations	C. Williams
2:00 – 2:15	Investigating Vertical Precipitation Profiles Estimated from a Passive Microwave Algorithm, Separated	o. williams
	by Land Surface Conditions	N. Utsumi/J. Turk
2:15 – 2:30	Characterizing and Communicating Global IMERG Error Estimates	D. Wright/D. Kirschbau
2:30 – 2:45	Discussion/Questions	- · · · · · · · · · · · · · · · · · · ·
	Break (30 min) 2:45 pm — 3:15 pm	
Session 8: Ground	d Validation I (3:15 pm – 4:20 pm)	
3:15 – 3:30	GPM GV	S. J. Munchak
3:30 – 4:20	Panel Discussion on Connecting GV and Algorithms	(Chair: Munchak)
	Panelists: Sarah Ringerud, Guosheng Liu, Patrick Gatlin, and Claire Pettersen (7 mins each)	•
Session 9: Poster S	Session II (4:30 pm – 6:00 pm) Monument Hall which is located on the Lower Level	

Victory Ballroom (which is located on the 9 th Floor)						
Session 10: Science Re	oorts III (8:00 am – 9:45 am)	(Chair: N. Wood)				
8:00 - 8:15	Graupel and Hail Algorithm for GPM-DPR	V. Chandrasekar				
8:15 - 8:30	The OpenSSP Snow Particle and Scattering Database: Current Status and Future Plans	I. Adams				
8:30 - 8:45	Enhanced Computational Capabilities of the Scattering Model NESCoP to Accurately Calculate SSPs					
	of Large Realistic Hydrometeors	I. Fenni				
8:45 – 9:00	Beyond the Pixel: Pattern-oriented Approaches for Improving and Validating Precipitation Retrievals	E. Foufoula-Georgiou				
9:00 – 9:15	A Preliminary Evaluation of the GPM Full-swath Combined Precipitation Retrievals	M. Grecu				
9:15 – 9:30	Assessment of Dual-Frequency Radar for Retrieval of Snow Properties	L. Liao/R. Meneghini				
9:30 – 9:45	Discussion/Questions					
Break (30 min) 9:45 am - 10:15 am						
Session 11: Internation	al Collaborations II (10:15 am – 11:45 am)	(Chair: C. Kidd)				
10:15 - 10:30	Ongoing Efforts on Precipitation Dataset Assessment	H. Masunaga				
10:30 - 10:45	Current status of GPM ground validation over Korea	J. Park				
10:45 - 11:00	Density of snowflakes based on surface observations: Comparison between snow particles at GPM GV					
	sites CARE and Hyytiälä	A. von Lerber				
11:00 – 11:15	Ground Validation Activities at CPTEC/INPE: How GPM constellation can retrieve diurnal cycle over Brazilian territory?	D. Vila				
11:15 – 11:30	Improvement of the Heavy Orographic Rainfall Retrievals for Microwave Radiometers	S. Shige				
11:30 – 11:45	Discussion/Questions	e. ege				
	Lunch (1hr 40 min) (11:45 am - 1:15 pm)					
Session 12: Science Re	ports IV (1:15 pm – 2:30 pm)	(Chair: S. Rutledge)				
1:15 – 1:30	Preliminary Results: Using GPM to Quantify Moisture Transport in Arctic Cyclones	L. McPartland				
1:30 - 1:45	The Precipitation Characteristics of Global MODIS Cloud Regimes and Tropical Regime Aggregates	L. Oreopoulos				
1:45 - 2:00	A Framework for Systematic Assimilation of GPM DPR observations to improve Orographic QPF	A. Barros				
2:00 - 2:15	Overview of ER-2 Radar Observations, WRF, and Radar Retrievals from IPHEX and OLYMPEX	G. Heymsfield				
2:15 - 2:30	Discussion/Questions	•				
	Break (30 min) 2:30 pm – 3:00 pm					
•	orts V (3:00 pm – 4:10 pm)	(Chair: S. Tanelli)				
3:00 – 3:15	An Update on NOAA Operational Precipitation Products and NOAA's Contributions to the	D 5				
2.45 2.20	PMM Science Team	R. Ferraro				
3:15 – 3:30	Snowfall Observations in the Upper Great Lakes: A Five-Year Retrospective	M. Kulie				
3:30 – 3:45	The Influence of Atmospheric Rivers on High-latitude Wintertime Precipitation	C. Pettersen				
3:45 – 4:00	Assessing GPM with MRMS for Validation and Improvement: Current Status and Future Directions	P. Kirstetter				
4:00 – 4:10	Discussion/Questions					
Session 14: PMM Meet	ing Business and Wrap-Up (4:10 pm – 5:00 pm)					
4:10 – 4:35	Working Group Reports					
4:35 – 4:50 4:50 – 5:00	Open Discussion and Action Item review Closing remarks	S. Braun G. Skofronick-Jackson				

Friday, November 8, 2019		8:00 am START
8:00 am – 5:00 pm	Combined Algorithm Team (W. Olson) – Vincennes Room (2 nd Floor)	
8:00 am – 5:00 pm	Radar Algorithm Team (T. Iguchi/B. Meneghini) – Corydon Room (2 nd Floor)	
9:00 am – Noon	Radiometer Algorithm Team (C. Kummerow) – Circle City 3 Room (3 rd Floor)	
9:00 am – 5:00 pm	DPR (Invitation only) (Takahashi/Meneghini) – Indianapolis Ballroom (2 nd Floor)	