

2019 PMM Science Team Meeting Poster Agenda

Poster #	Tuesday, November 5th Poster Titles	Author List
100	The OpenSSP Snow Particle and Scattering Database: Current Status and Future Plans	Ian S. Adams, Kwo-Sen Kuo, William Olson, Thomas Clune, Craig Pelissier, Robert Schrom, Adrian Loftus, and S. Joseph Munchak
101	Assessing Biases and Uncertainties in GPROF Precipitation Estimates Due to Channel Failures and Sensor Information Content Differences	Wesley Berg, Veljko Petkovic, Chris Kummerow, Rachael Kroodsma and Yalei You
102	Long-term IPHEX Reference Precipitation Product V1	Mochi Liao and Ana P. Barros
103	Coupling GPM observations and NWP to model the vertical microstructure of precipitation	Malarvizhi Arulraj and Ana P. Barros
104	The NASA Decadal Survey Observing System Study for Aerosols and Clouds, Convection, and Precipitation (A-CCP)	S. Braun, A. da Silva, R. Ferrare, M. Kacenenbogen, D. Kirschbaum, A. Omar, W. Petersen, G. Stephens, D. Waliser, and D. Winker
105	Hail Retrieval and Climatology from GPM	Daniel J. Cecil and Sarah D. Bang
106	Comparison of GPM DPR and Airborne Radar Observations in OLYMPEX	Stephen Durden, Simone Tanelli, and Ousmane Sy
107	The Spatial Coherency of Convective System Stratiform Regions and Ties to System Longevity	Gregory Elsaesser and Anthony Del Genio
108	Diurnal Rainfall Statistics using 2ADPR V06	Aaron Funk and Courtney Schumacher
109	AgMERG - Station-Enhanced IMERG Data to Support Agricultural Monitoring	Chris Funk, Pete Peterson, Shrad Shukla, Marty Landsfeld, Frank Davenport, Laura Harrison, Caroline Mutter, Alex Ruane, and Greg Husakr
110	Updates to the GPM Validation Network: A Multi-perspective Database to Facilitate Precipitation Science	Patrick Gatlin, Stephen J. Munchak, David B. Wolff, Walt Petersen and Todd Berendes
111	Updates in the GPM Combined Algorithm	Mircea Grecu and David Bolvin
112	Pattern-oriented Approaches for Validating and Improving Precipitation Retrievals from Passive Microwave	Clement Guilloteau and Efi Foufoula-Georgiou
113	Global Precipitation Particle Sizes by Global Precipitation Measurement Mission: A Comparison Study for DPR and CMB Data	Mei Han and Scott Braun
114	GPM Physical and Statistical Validation Studies in Canada	David Hudak, Peter Rodriguez, ismail Gultepe, Faisal Boudala, Bo Zhao, and Ellen Eckert
115	At Long Last, the Long IMERG Record	George J. Huffman, David T. Bolvin, Eric J. Nelkin, and Jackson Tan
116	Detection of the Phase Transition Layer	Toshio Iguchi, Jun Awaka, Liang Liao, and Robert Meneghini
117	Validation of Multiple Scattering and Non-Uniform Beam Filling Detection in DPR Measurements	Simone Tanelli, Gian Franco Sacco, Pierre Emanuel Kirstetter, Mircea Grecu, and Shinta Seto
118	Improvements in Noise Estimates by the Spaceborne Precipitation Radar for Use as a Radiometer	Kaya Kanemaru, Atushi Hamada, Toshio Iguchi, and Takuji Kubota
119	Advancing Cross-track Precipitation Retrievals	Chris Kidd, Sarah Ringerud, and Toshihisa Matsui
120	Bridging the Global Precipitation Measurement (GPM) Level II and Level III Precipitation using Multi-Radar/Multi-Sensor-GPM	P. E. Kirstetter, V. Petkovic, W. Petersen, J. Turk, S. Tanelli, C. Kummerow, G. Huffman, J. Gourley, J. Zhang, and Y. Hong
121	Progress in GPROF V7	Christian Kummerow and David Randel
122	The Sensitivity of Discrete Dipole Approximation to Hydrometeor Composition Heterogeneity	Kwo-Sen Kuo, Adrian Loftus, Rob Schrom, Ian Adams, and Joe Munchak

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123	Microphysical Insights from GPM DPR Observations of Mesoscale Convective Systems	Xiaowen Li, Liang Liao, Chuntao Liu, Bob Meneghini, and Wei-Kuo Tao
124	Assessment of Dual-Frequency Radar for Retrieval of Snow Properties	Liang Liao, Robert Meneghini, Ali Tokay and Hyokyung Kim
125	Regional Variation of Rain Drop Sizes in Warm Rain Inferred from Dual Frequency Radar	Chuntao Liu
126	Improving Algorithm Components Related to Ice and Snow for GPM Precipitation Retrievals	Guosheng Liu, Hwayoung Jeoung, and Shangyong Shi
127	An Update on GPM and TRMM Data Services at NASA GES DISC	Z. Liu, A. Savtchenko, B. Deshong, F. Fang, M. Greene, D. Ostrenga, A. Albayrak, J. Acker, A. Li, C.-L. Shie, W. Teng, J. Wei, and D. Meyer
128	Validating GPM Snow Water Equivalent Rate Estimates in Finland	David Marks, Walt Petersen, Annakaisa von Lerber, and David Wolff
129	Precipitation in Tropical Easterly Waves	Elinor Martin, Rachel McCrary, and Justin Stachnik
130	ARM Cloud and Precipitation Measurements Supporting PMM Science	James Mather
131	Toward Formulation of a Semi-Permanent Supersite for Cloud, Convection, and Precipitation Processes at Wallop Flight Facility	Toshihisa Matsui, David Wolff, Karen Mohr, Steve Lang, and Minghua Zhang
132	Using GPM in an Optimal Estimation Lagrangian Framework (OELaF) to Quantify Moisture Transport in Arctic Cyclones	Linette Boisvert, Mircea Grecu, Melinda Webster, and Chung-Lin Shie
133	Identifying Extreme Precipitation in GPM for Evaluating Climate Models	Brian Medeiros, Angeline Pendergrass, Kevin Reed, and Julie Caron
134	Some Results from the SRT and L3 DPR Algorithms for the Ka-band Full-swath Scan	R. Meneghini, H. Kim, and L. Liao
135	All-sky Retrievals in the GPM Combined Algorithm	S. J. Munchak, Sarah Ringerud, Yalei You, and Ludovic Brucker
136	The Contribution of Rain Gauges in the Calibration of GPM-IMERG product. Results from the First Validation over Spain	A. Navarro, E. García-Ortega, A. Merino, J. L. Sanchez, C. Marcos, C. Kummerow, and F. J. Tapiador
137	Does Snow Follow an R-Dm Relationship?	Stephen Nesbitt, Randy Chase, Paloma Borque, Joe Finlon, and Greg McFarquhar
138	A Combined Aircraft, Model, and Algorithm Analysis of the Organization and Structural Characteristics of an Orographically-forced Organized Convective System	Stephen Nicholls, Gerry Heymsfield, Mircea Grecu, and Stephen Lang
139	Integration and Testing of Ice-/Mixed-Phase Precipitation Models for GPM Radar-Radiometer Algorithm Applications	William Olson, Kwo-Sen Kuo, Mircea Grecu, Benjamin Johnson, Liang Liao, Craig Pelissier, Adrian Loftus, Stephen Munchak, and Yaping Zhou
140	Precipitation Characteristics of Mesoscale Cloud Systems Derived from Classifying Gridded Imager Retrievals	Lazaros Oreopoulos, Daeho Jin, Jackson Tan, Dongmin Lee, and Nayeong Cho
141	Main problem in reconciling Ku and Ka radar: drop size distribution (NUBF a very distant second)	Z.S. Haddad
Poster #	Wednesday, November 6th Poster Titles	Author List
200	The Exceptional 29 October 2018 Event Over Italy: Analysis of GPM Measurements and Products and Link to Precipitation Formation Processes	Giulia Panegrossi, Anna Cinzia Marra, Paolo Sanò, Daniele Casella, Leo Pio D'Adderio, Stefano Dietrich, Davide Gallicchio, Umberto Rizza, Mauro Morichetti, and Francesca Barnaba
201	Assessing orographic snowfall characteristics from GV and DPR observations	Norman Wood
202	The Influence of Atmospheric Rivers on High-latitude Wintertime Precipitation	Claire Pettersen, Marian Mateling, and Tristan L'Ecuyer
203	GPM Applications	Andrea Portier

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Poster #	Wednesday, November 6th Poster Titles	Author List
204	Convective Feature Populations with Varying ITCZ Width in the Pacific	Anita Rapp and Kyle Wodzicki
205	Applications of Dynamic Surface Information for Passive Microwave Precipitation Retrieval	Sarah Ringerud, Christa Peters-Lidard, Yalei You, and Joe Munchak
206	Validation of Precipitation in the Complex Terrain of OLYMPEX	Steven A. Rutledge, Brenda Dolan, and Kristen Rasmussen
207	Precipitation characteristics in the coastal area of Alaska revealed from GPM DPR and CloudSat CPR	Shunsuke Aoki and Shoichi Shige
208	Goddard Latent Heating Retrieval Algorithm	Wei-Kuo Tao, Takamichi Iguchi, Steve Lang, and Yi Song
209	In Situ Measurement of Rain Rate and Wind Speed Using Ocean Ambient Sound over Global Oceans	Jie Yang and Elizabeth J. Thompson
210	Spatial Variability of Falling Snow	Samantha Frucht, Ali Tokay, Walt Petersen, David Wolff, Jason Pippitt, David Marks, Claire Pettersen, Mark Kulie, David Beachler, and Matt Wingo
211	An Updated TRMM-GPM-CloudSat Coincidence Dataset	Joe Turk
212	GSMaP_Gauge Algorithm and Evaluation	Tomoaki Mega, Tomoko Tashima, Takuji Kubota, and Tomoo Ushio
213	Improving Satellite-Based Subhourly Surface Rain Estimates Using Vertical Rain Profile Information	Nobuyuki Utsumi, Hyungjun Kim, F. Joe Turk, and Ziad S. Haddad
214	DPR Profile Classification Module	V. Chandrasekar and Minda Le
215	Path Integrated Attenuation as a Function of Precipitation Variability Across Satellite Field-of-Views	Christopher Williams
216	Characterizing and Communicating Global IMERG Error Estimates for End User Applications	Daniel Wright, Dalia Kirschbaum, Zhe Li, Thomas Stanley, Samantha Hartke, and Sana Khan
217	Global Drop Size Distribution in Liquid Phase and its Seasonal Variability Observed by GPM/DPR	Moeka Yamaji, Hiroshi G. Takahashi, Takuji Kubota, Riko Oki, Atsushi Hamada, and Yukari N. Takayabu
218	Evaluation of IMERG Precipitation Product over Complex Topography	Koray K. Yilmaz and Robert Adler
219	Using IMERG to Define Upscale Growth of MCSs	Edward Zipser, Manikandan Rajagopal, and James Russell
220	Bayesian GMI Precipitation Retrievals with Neural Networks	Teodor Norrestad and Patrick Eriksson
221	Shallow Convective Snow from a GPM Microwave Imager Perspective: Snowfall Quantitative Precipitation Estimation Strengths and Weaknesses	L. Milani, M. Kulie, D. Casella, P. Kirstetter, G. Panegrossi, V. Petkovic, S. Ringerud, J. Rysman, P. Sano, G. Skofronick-Jackson, N.Y. Wang, and Y. You
222	Revised TMI Brightness Temperature Product (formerly !B11 Version-8)	W Linwood Jones, Alamgir Hossan, and Maria Jacob
223	Extreme Precipitation - ENSO Teleconnections in TMPA Principal Components	Andrey Savtchenko, George Huffman, and David Meyer
224	Enhanced Computational Capabilities of the Scattering Model NESCoP to Accurately Calculate SSPs of Large Realistic Hydrometeors	Ines Fenni, Kwo-Sen Kuo, Mark S. Haynes, Ziad S. Haddad, and Hélène Roussel
225	Real-Time Production of 2nd Generation CMORPH	Pingping Xie, Robert Joyce, Shaorong Wu, and Bert Katz
226	FROGS: a daily 1° × 1° Gridded Precipitation Database of Rain Gauge, Satellite and Reanalysis Products	R. Roca, L. V. Alexander, G. Potter, M. Bador, R. Jucá, S. Contractor, M. G. Bosilovich, and S. Cloché

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227	Investigating Seasonal and Regional Distribution of Arctic Snowfall in Regional Climate Model Simulations: The Model-to-Observation Approach	A. von Lerber, D. Zhang, M. Mech, I. Gorodetskaya, A. Rinke and S. Crewell
228	Performance Evaluation of Path Attenuation Estimation After the Scan Pattern Change of the GPM-Ka Radar	Hyokyung Kim, Robert Meneghini and John Kwiatkowski
229	Effect of Clutter Interference in Surface Rainfall Estimates at Off-nadir Scan Angles	Masafumi Hirose
230	All-sky Microwave and GOES-R Infrared Brightness Temperature Assimilation for Improving Harvey Precipitation Forecasts	Scott Sieron, Fuqing Zhang, Yinghui Lu, Eugene Clothiaux, Zhu (Judy) Yao, Robert Nystrom, Xingchao (XC) Chen, and Chris Hartman
231	Validation of DPR by Using Multi-parameter Phased Array Weather Radar (MP-PAWR)	Nobuhiro Takahashi, Hiroshi Hanado, Katsuhiro Nakagawa, and Masahiko Osada
232	Precipitation Uncertainty through Orbital Data Products of TRMM and GPM	J. Indu, Ankita Pradhan, and Pierre-Emmanuel Kirstetter
233	Snowfall Observations in Marquette MI using GMI GPROF and a Precipitation Gauge Network	Marian Mateling, Claire Pettersen, Mark Kulie, Walt Petersen, Ali Tokay, and Dave Wolff
234	Assessment of Snowfall Products Over Sea Ice using the NASA Operational IceBridge Observations	Yang Song, Ali Behrangi, and Edward Blanchard
235	A Micro Rain Radar Mid-latitude Precipitation GV Dataset	Chris Kidd, Edward Graham and Tim Smyth
236	NOAA/NESDIS Operational Snowfall Rate Product	H. Meng, J. Dong, C. Kongoli, R. Ferraro, B. Yan, and L. Zhao
237	Using Satellite Observations of Precipitation to Improve Ensemble Hurricane Forecasts	Svetla Hristova-Veleva, Hua Leighton, Sundararaman Gopalakrishnan, Ziad Haddad, and Eun-Kyoung Seo
238	Determining Cloud and Storm Structure using Machine Learning Technique	Hyungjun Kim, Nobuyuki Utsumi, and Eunho Koo
239	Large-scale Characteristics of Tropical Convective Systems through the Prism of Cloud Regimes	Daeho Jin, Lazaros Oreopoulos, Dongmin Lee, Jackson Tan, and Kyu-myong Kim
240	Surface-Observed Precipitation over the Southern Ocean from the RV Investigator: Evaluation of Processes and Comparison with GPM	Jay Mace, Alain Protat, Walt Petersen, and Yuli Liu
241	Daily Rainfall Estimate by Emissivity Temporal Variation from 10 Satellites	Yalei You and S. Joseph Munchak