

2022 GLM Science Meeting Schedule/Agenda (All Times Eastern - UTC-04:00)

Tuesday, 13 September

10 am - 12 pm – Plenary Session - Program, Instrument, Science (Chair: Steve Goodman)

	Presenter	Title
10:00	Scott Rudlosky, Chris Schultz, and Steve Goodman	Welcome and meeting Logistics
10:10	Dan Lindsey, NOAA/NESDIS/GOES-R	GOES-R Program Update
10:20	Stephen Superczynski, NOAA/NESDIS/GOES-R	GOES-R Ground System Status and Gridded Product Update
10:30	Tewa Kpulun, Lockheed Martin ATC	On-orbit Performance Improvement: GOES 18 vs GOES 16&17
10:40	Marc Rafal, NASA/GOES-R	*Talk moved to Wednesday at 11:20 am
10:50	Andrew Heidinger, NESDIS	GeoXO Status and User Engagement
11:00	Bartolomeo Viticchie, EUMETSAT	MTG LI mission preparation status
11:10	Tim Lang, NASA/MSFC	Update on the ISS Lightning Imaging Sensor and a NASA ER-2 lightning field campaign in 2023
11:20	Geoffrey Stano, UAH	User Services for Lightning Data at GHRC DAAC
11:30	Group Discussion	Video call link: https://meet.google.com/ihj-eeov-czk Or dial: (US*) +1 402-527-4071 - PIN: 413 749 514# *International dial in numbers on last page
12:00	Lunch Break	

2 - 4 pm – GLM Validation Studies (Chair: William Koshak)

	Presenter	Title
2:00	Eric Bruning, TTU	Bounding GLM flash detection efficiency with minimum event energy
2:10	Michael Peterson, LANL	Overclustered Thunderstorms: When GLM Flash Rates Fail
2:20	Phillip Bitzer, UAH	The Effect of Ground Processing on GLM Performance
2:30	Katrina Virts, UAH	Evaluating the Accuracy of GLM Detection Efficiency and False Alarm Rate Retrievals
2:40	Monte Bateman, UAH	GLM 18 Performance Assessment
2:50	Sven-Erik Enno, EUMETSAT	Monitoring In-Flight Performance of the LI
3:00	Daile Zhang, UMD/CISESS	Developing a Raspberry Pi-based Camera Network and Its Applications
3:10	Erin Lay, LANL	Radio Frequency Sensor: Initial results and comparisons to GLM
3:20	Guangyang Fang, UMD/CISESS	Update on the Development and Performance of the Mid-Atlantic Lightning Mapping Array (MALMA)
3:30	Group Discussion	Video call link: https://meet.google.com/ihj-eeov-czk Or dial: (US*) +1 402-527-4071 - PIN: 413 749 514# *International dial in numbers on last page
4:00	Adjourn	

Wednesday, 14 September

10 am - 12 pm – Operational Uses of GLM Part 1 (Chair: Scott Rudlosky)

	Presenter	Title
10:00	John Cintineo, UW/CIMSS	GLM use in the ProbSevere Products
10:10	Kevin Thiel, CIWRO/SPC	GLM in the 2022 HWT Satellite Proving Ground Experiment
10:20	Joseph Patton, UMD/CISESS	GLM Training Resources Revisited: Modules, Presentations, and Forecaster Development
10:30	Javier Villegas Bravo, UMD/CISESS	Expanding the Ocean Prediction Center's Convective Nowcasts Using ProbSevere LightningCast and the GLM
10:40	Brianna Witherell, NOAA Intern	Geostationary Lightning Mapper Background Imagery Viewable in AWIPS
10:50	Steve Goodman, GeoXO/TGA	Lightning: An Essential Climate Variable - Update from the WMO GCOS Task Team on Lightning
11:00	Jeffrey C. Smith, SETI Institute	A Statistical Analysis of Bolides Detected by GOES GLM
11:10	Anita LeRoy, UAH NASA/SPoRT	GOES-R Day Cloud Day Phase Assessment Results
11:20	Marc Rafal, NASA/GOES-R	Status of GLM FM4
11:30	Group Discussion	Video call link: https://meet.google.com/ihj-eeov-czk Or dial: (US*) +1 402-527-4071 - PIN: 413 749 514# *International dial in numbers on last page
12:00	Lunch Break	

2 - 4 pm – Operational Uses of GLM Part 2 (Chair: Joseph Patton)

	Presenter	Title
2:00	Scott Rudlosky, NOAA/NESDIS	Characterizing the Relation between Lightning and Wildfires in the Western United States
2:10	Rong Kong, CAPS/OU	Direct Assimilation of GOES-R Geostationary Lightning Mapper (GLM) Data within JEDI LETKF and Hybrid System for UFS Convection-Allowing Predictions
2:20	Levi Boggs, GTRI	Identifying Tornadoes using GLM and Machine Learning Techniques
2:30	Michael Stock, CIWRO	Thunder Hour observations with the GLM
2:40	Jonathan Wynn Smith, NOAA/OAR/GFDL	GFDL AM4 Climate Model and Geostationary Lightning Mapper Flash Frequency Comparisons
2:50	Jean Carlo Rodriguez Chaves, University of Costa Rica	Utilization of GLM Products for Early Warning Systems in Local Governments of Costa Rica
3:00	Jessica Losego, GTRI Severe Storms Research Center	GLM Flash Trends for a Long Lived Supercell-the Megagraph
3:10	Maribel Quispe, UNALM	Characterization of the behavior of electrical storms in Peru with the GLM
3:20	Kelley Murphy, UAH NASA/SPoRT	SPoRT/WFO Hun collaboration on use of GLM Stoplight for IDSS
3:30	Group Discussion	Video call link: https://meet.google.com/ihj-eeov-czk Or dial: (US*) +1 402-527-4071 - PIN: 413 749 514# *International dial in numbers on last page
4:00	Adjourn	

Thursday, 15 September

10 am - 12 pm – Science and Applications Part 1 (Chair: Chris Schultz)

	Presenter	Title
10:00	Kelcy Brunner, Texas Tech University	Microphysical and Kinematic Signals in Lightning Tracked Thunderstorms
10:10	Jacquelyn Ringhausen - CIWRO/NSSL	Regional and Seasonal Variation in Random Forests Model Performance for GLM Flash Type Classification
10:20	Kyle Hilburn, Cooperative Institute for Research in the Atmosphere	Enhancing Tropical Cyclone Forecast Applications using GOES-R GLM
10:30	Earle Williams, MIT	Cold Air Outbreaks and their Impact on Global Lightning Activity
10:40	Feng Zhang, UMD/ESSIC/CISESS	Blending Lightning Data from Space- and Ground-Based Networks
10:50	Elise Schultz, CFD Research	Developing Short-term Lightning Prediction Products and Data Services and Tools for Commercial and Public Sector Applications
11:00	Julia Tilles, Sandia National Laboratories	Global, Long-Term US Government Sensor Observations Onboard the GPS Constellation
11:10	Patrick Gatlin, NASA/MSFC	An Update on the CubeSpark 3D Lightning Mapping Concept
11:20	Clem Tillier, Lockheed Martin	Improved GLM L1b ground processing
11:30	Group Discussion	Video call link: https://meet.google.com/ihj-eeov-czk Or dial: (US*) +1 402-527-4071 - PIN: 413 749 514# *International dial in numbers on last page
12:00	Lunch Break	

2 - 4 pm – Science and Applications Part 2 (Chair: Eric Bruning)

	Presenter	Title
2:00	William Koshak, NASA/MSFC	GLM-16 National Climate Assessment (NCA) Analyses
2:10	Joao Huaman, SENAMHI	Frequency and Distribution of Lightning over South America Using Data of GOES-16
2:20	Doug Mach, NASA/USRA	GLM Single Group Flash Analysis and GLM Reprocessing Initiative Update
2:30	Randolph Longenbaugh, Sandia National Laboratories	Preliminary Comparison of Bolide Measurements by the Geostationary Lightning Mapper (GLM) and US Government Sensors
2:40	Randolph Longenbaugh, Sandia National Laboratories	Comparison of bolide observations from GLM-17 and GLM-18
2:50	Vicente Salinas, NOAA	A GLM Flash Energy Model for Climate Study Applications
3:00	Roy Stetson Reger, New Mexico Tech & Langmuir Laboratory	Single-flash Mapping with the Geostationary Lightning Mapper
3:10	Florian Morvais, Texas A&M University-Corpus Christi	Determination of GLM observed Lightning clouds by applying neural network models to the GMI passive microwave brightness temperatures over the American continents
3:20	David Singewald, Texas Tech University	A Comparison of GLM, LMA and LF/VLF Stroke Data to Two Photographed CGs
3:30	Group Discussion	Video call link: https://meet.google.com/ihj-eeov-czk Or dial: (US*) +1 402-527-4071 - PIN: 413 749 514# *International dial in numbers on last page
4:00	Adjourn	

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