2021 GLM Science Meeting Schedule/Agenda (All Times Eastern)

Tuesday, 21 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 Status and GOES-T Plans
10:25	Andy Heidinger and Vanessa Escobar, NESDIS/GOES-R	GeoXO Status and User Engagement
10:40	Marc D Rafal, NASA/GOES-R	Status of GLM FM3 and FM4
10:50	Tewa Kpulun, Lockheed Martin ATC	GLM Instrument Performance / Optimization
11:00	John Cintineo, UW/CIMSS	Using GLM to Train a Probabilistic Lightning Prediction Model
11:10	Patrick Gatlin, NASA/MSFC	CubeSpark: A multispectral, 3-D satellite-based lightning mapping concept
11:20	Hugh Christian	Next Generation Space Based Optical Lightning Sensors and the Upcoming ALOFT Program
11:30	Tim Lang et al.	Related Program / Project Updates
11:40	Group Discussion	**Video call link: https://meet.google.com/kud-jrxz-jnq** **Or dial: (US) +1 262-427-6983 PIN: 519 673 044#**
12:00	Lunch Break	

2 - 4 pm – Operational Uses of GLM (Chair: Kristin Calhoun)

	Presenter	Title
2:00	Scott Rudlosky, NOAA/NESDIS/STAR	Status of Operational GLM Products
2:15	Kristin Calhoun, NOAA/NSSL	Forecaster Evaluations and Feedback on GLM in the Virtual HWT Experimental Warning Program (w/Kevin Thiel)
2:30	Melissa Patanella, NMS-Argentina	Research to Operation at the NMS of Argentina: GLM Case Study and Applications
2:40	Kathy-Ann L. Caesar, CIMH, Barbados	June 17th MCS
2:50	Brian Carcione, NOAA/NWS	Fusion of GLM, ground based networks, and radar to anticipate infrequent lightning for IDSS
3:00	Joseph Patton, UMD/CISESS	Sources of False GLM Returns
3:10	Brian Motta, NWS	Status of NWS GLM Training
3:20	Chris Slocum, NOAA/NESDIS/STAR	Tropical GLM Applications
3:30	Group Discussion	**Video call link: https://meet.google.com/hbv-dsxe-iip** **Or dial: (US) +1 646-694-2519 PIN: 405 271 042#**
4:00	Adjourn	

Wednesday, 22 September

10 am - 12 pm – GLM Validation Studies (Chair: William Koshak)

	Presenter	Title
10:00	Monte Bateman, MSFC/USRA	Overview of G16/G17 Instrument Performance
10:10	Ken Cummins, University of Arizona	Comparison of Modeled and Observed GLM Flash Detection
10:20	Katrina Virts, UAH	Monte Carlo Simulations for Evaluating the Accuracy of GLM Detection Efficiency and False Alarm Rate Retrievals
10:30	Bartolomeo Viticchie, EUMETSAT	In-flight Assessment of Meteosat Third Generation Lightning Imager Performance
10:40	Carlos Morales, University of São Paulo	GLM and STARNET and LINET in Brazil
10:50	Daniel Meléndez, NOAA/NWS	Comparison of GLM and ENTLN flashes over the southeastern United States
11:00	Mason Quick, NASA/MSFC	Using FEGS to Compare with GLM and ISS and to Advise Future Lightning Imager Design
11:10	Vanna Chmielewski, CIMMS/NSSL	Plans for targeted NSSL Lightning Mapping Array deployments
11:20	Guangyang Fang, UMD/CISESS	Maintenance and Development of the Mid-Atlantic Lightning Mapping Array (MALMA)
11:30	Group Discussion	**Video call link: https://meet.google.com/gve-efye-ryu** **Or dial: (US) +1 478-292-3918 PIN: 426 013 665#**
12:00	Lunch Break	

2 - 4 pm – GLM Data Assimilation (Chair: Scott Rudlosky)

	Presenter	Title
2:00	Shun Liu, NWS/NCEP/EMC	Data Assimilation at NOAA Including the Transition to JEDI and the RRFS
2:20	Back/Fierro/Rudlosky	Lightning Data Assimilation Overview
2:40	Ming Xue, CAPS/OU	Direct Assimilation of GLM Lightning and Radar Data using GSI EnKF and EnVar
3:00	Amanda Back, CIRA and NOAA GSL	GLM Assimilation in the HRRR-DAS Ensemble Framework at NOAA GSL
3:20	Feng Zhang, UMD/ESSIC/CISESS	Blending Lightning Data from Space- and Ground-Based Networks
3:40	Group Discussion	**Video call link: https://meet.google.com/crg-auad-ooo** **Or dial: (US) +1 484-531-4669 PIN: 287 402 138#**
4:00	Adjourn	

Live discussion available during all sessions via Slido
Accessible via this link (https://app.sli.do/event/s9amu0xz)
or by scanning this QR code →

Thursday, 23 September

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

	Presenter	Title
10:00	Eric Bruning, TTU	WTLMA, LF, and GLM comparisons with updated processing
10:10	Geoffrey Stano, GHRC	Recent Lightning Developments at the GHRC DAAC
10:20	Ken Cummins, University of Arizona	Global Patterns of Flash Optical Properties Based on Long-Term ISS-LIS Observations
10:30	Kelley Murphy, ESSC/UAH	Applications and Performance of a Lightning Risk Assessment using GLM data
10:40	Randolph Longenbaugh, Sandia National Laboratories	Risk Reduction Optical Experiment Lightning Campaign Overview
10:50	Scott Rudlosky, NOAA/NESDIS/STAR	Quantifying the Value of Using GLM to Fill Radar Coverage Gaps
11:00	David PeQueen, Texas Tech University	GLM Flash Data Trends in Tropical Cyclone Intensification Changes
11:10	Levi Boggs, GTRI	Novel Radio and Optical Observations of a Gigantic Jet
11:20	Michael Peterson, LANL	Volumetric GLM Imagery Concept
11:30	Joan Montanya, Polytechnic University of Catalonia (UPC)	GLM Detections of Lightning Flashes to Instrumented Towers
11:40	Group Discussion	**Video call link: https://meet.google.com/htd-yxib-tmx** **Or dial: (US) +1 315-795-1378 PIN: 231 386 110#**
12:00	Lunch Break	

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

	Presenter	Title
2:00	William Koshak, NASA/MSFC	GLM Flash Properties & LNOx Estimates: A Comparison Between Winter and Summer Storms Over CONUS
2:10	Steve Goodman, GOES-R	Lightning: A Global Climate Observing System Essential Climate Variable
2:20	Randolph Longenbaugh, Sandia National Laboratories	Surface Reflections from Bolides
2:30	Robert Holzworth, UW	Some Discussion about Lightning Climatology
2:40	Rachel Albrecht, University of São Paulo, Brazil	River Breeze over the Amazon Seen from GOES-16 GLM and STARNET
2:50	Kevin Thiel, OU CIMMS/SPC/NSSL	Investigating the Utility of GLM Optical Energy Measurements in Severe and Local Storms
3:00	Daile Zhang, UMD/ESSIC/CISESS	An Initial Inter-comparison of GLM and ISS-LIS Lightning Observations
3:10	John Trostel, Georgia Tech Research Institute	Analysis of the 2021 Metro Atlanta Tornadoes
3:20	Doug Mach, MSFC/USRA	Using Stereo GLMs to Locate Cloud Tops
3:30	Group Discussion	**Video call link: https://meet.google.com/pbj-tggc-psa** **Or dial: (US) +1 262-425-0783 PIN: 198 360 982#**
4:00	Adjourn	