Daily Summary Statistics for the GLM Gridded Products

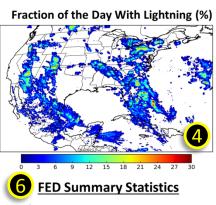
Overall fraction with lightning is the number grid cells in this FOV that detected lightning divided by the total grid cells in this FOV (~3.7 million)

- Missing/outage only describes (2) the LDM feeds at UMD, this may vary by NWS region until the SBN feed is established
- (3) Maps illustrate stats at each 2x2 km grid cell over the entire day (1440 min)
- (4) Fraction of the day with lightning indicates the number of minutes at each grid cell with lightning divided by 1440 min
- Time series plots depict 1-min values that characterize all grid cells that observed lightning during that minute
 - For both plots, the max value is red, 95th percentile is blue, and mean is green
 - Missing minutes are indicated by grey bars



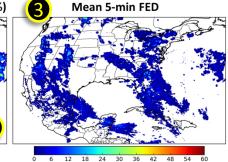
Geostationary Lightning Mapper Gridded Products Daily Summary Overall Summary Statistics for 1200Z-1200Z ending on 07/26/2018 1

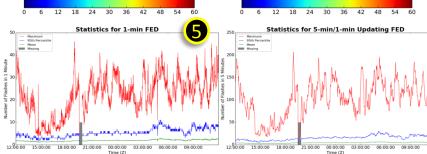
24.8% of grid cells detected lightning – 98.7% of the day had GLM coverage – Duration of GLM outage(s): 19 minute(s)



1-min FED Max 1-min FED: 46 flashes/min Max min-to-min increase: 20 flashes

5-min/1-min Updating FED Max 5-min FED: 207 flashes/5min Max min-to-min increase: 34 flashes





Total Optical Energy and Average Flash Area Summary Statistics

5-min/1-min Updating TOE Max 5-min TOE: 196.6 fJ Max min-to-min increase: 189.1 fJ



5-min/1-min Updating AFA Max 5-min AFA: 9988.0 km^2 Max min-to-min increase: 6922.0 km^2

- 6 FED Summary Statistics
 - Max FED reveals the greatest value at any 2x2 km grid cell during any of the 1440 mins
 - Max min-to-min increase represents the greatest change within a common grid cell from one minute to the next
- **7** TOE/AFA Summary Statistics
 - More descriptive stats likely will be needed for these gridded products

Composed by Dr. Scott Rudlosky (NOAA/NESDIS/STAR) on 8/4/2018



Max 5-min FED