## **Daily Summary Statistics for the GLM Gridded Products**

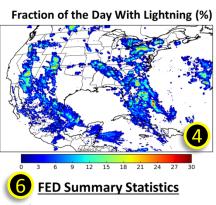
Overall fraction with lightning is the number grid cells in this FOV that detected lightning divided by the total grid cells in this FOV (~3.7 million)

- 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, 95<sup>th</sup> percentile is blue, and mean is green
  - Missing minutes are indicated by grey bars



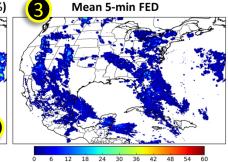
**Geostationary Lightning Mapper Gridded Products Daily Summary** Overall Summary Statistics for 1200Z-1200Z ending on 07/26/2018 1

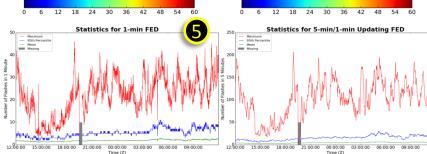
24.8% of grid cells detected lightning – 98.7% of the day had GLM coverage – Duration of GLM outage(s): 19 minute(s)



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