The Evolution and ET Transition of Tropical Cyclones during the 2017 Hurricane Season From a Lightning and Precipitation Perspective

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Overview/Instrumentation

GOES-16 Geostationary Lightning Mapper

Global Precipitation Measurement Mission Satellites

- Correlation of continuous lightning measurements (now available over the western hemisphere) and precipitation characteristics will provide understanding of complex microphysical processes occurring during the extratropical (ET) transition of tropical cyclones.

Methodology/Results

- Tracks obtained for 2017 Atlantic hurricane season and classified according to strength

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References


- Statistically compare lightning (bottom) and precip (top) characteristics as systems transition