

# 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

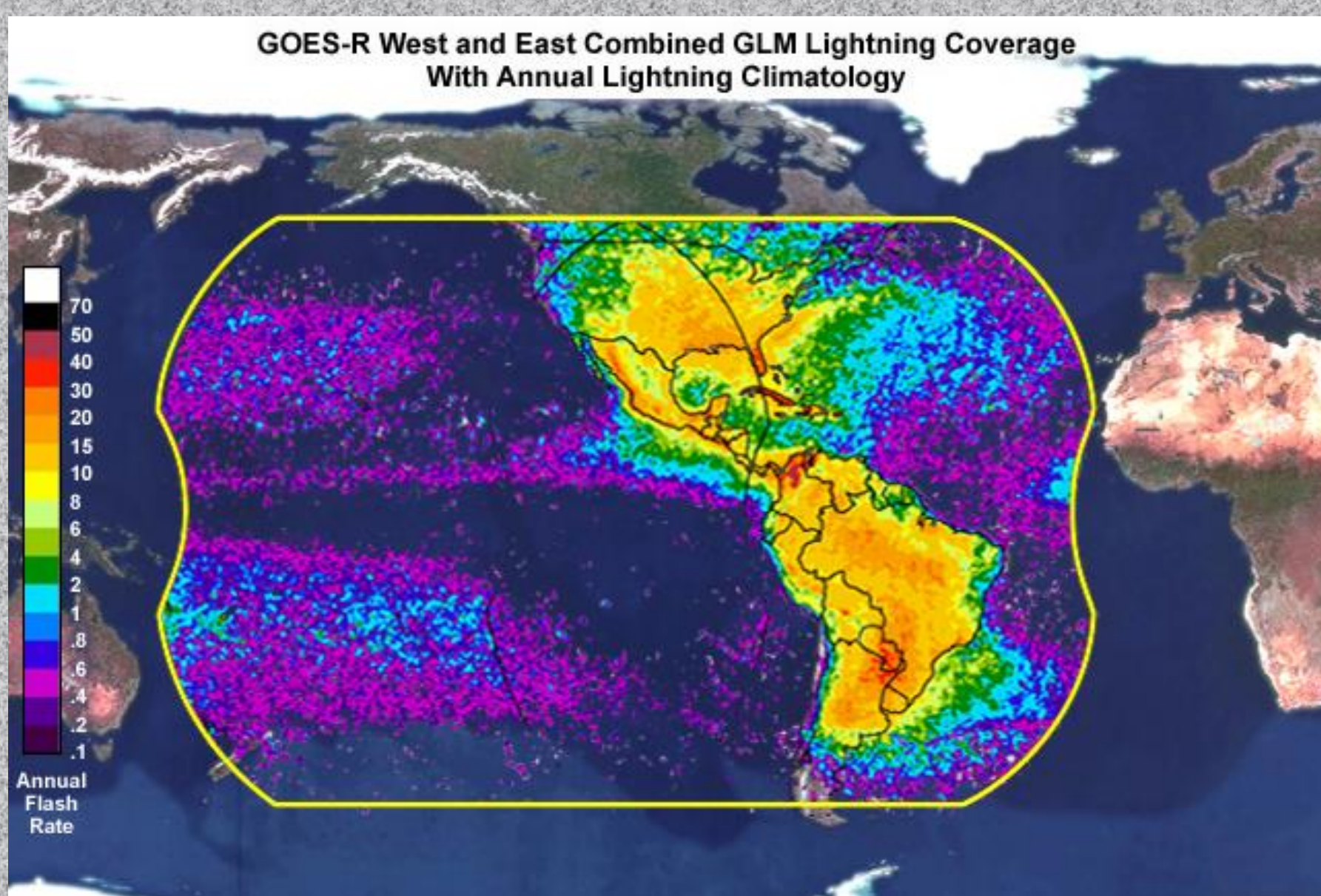


Image Credit: Goodman et al. 2013

### Global Precipitation Measurement Mission Satellites

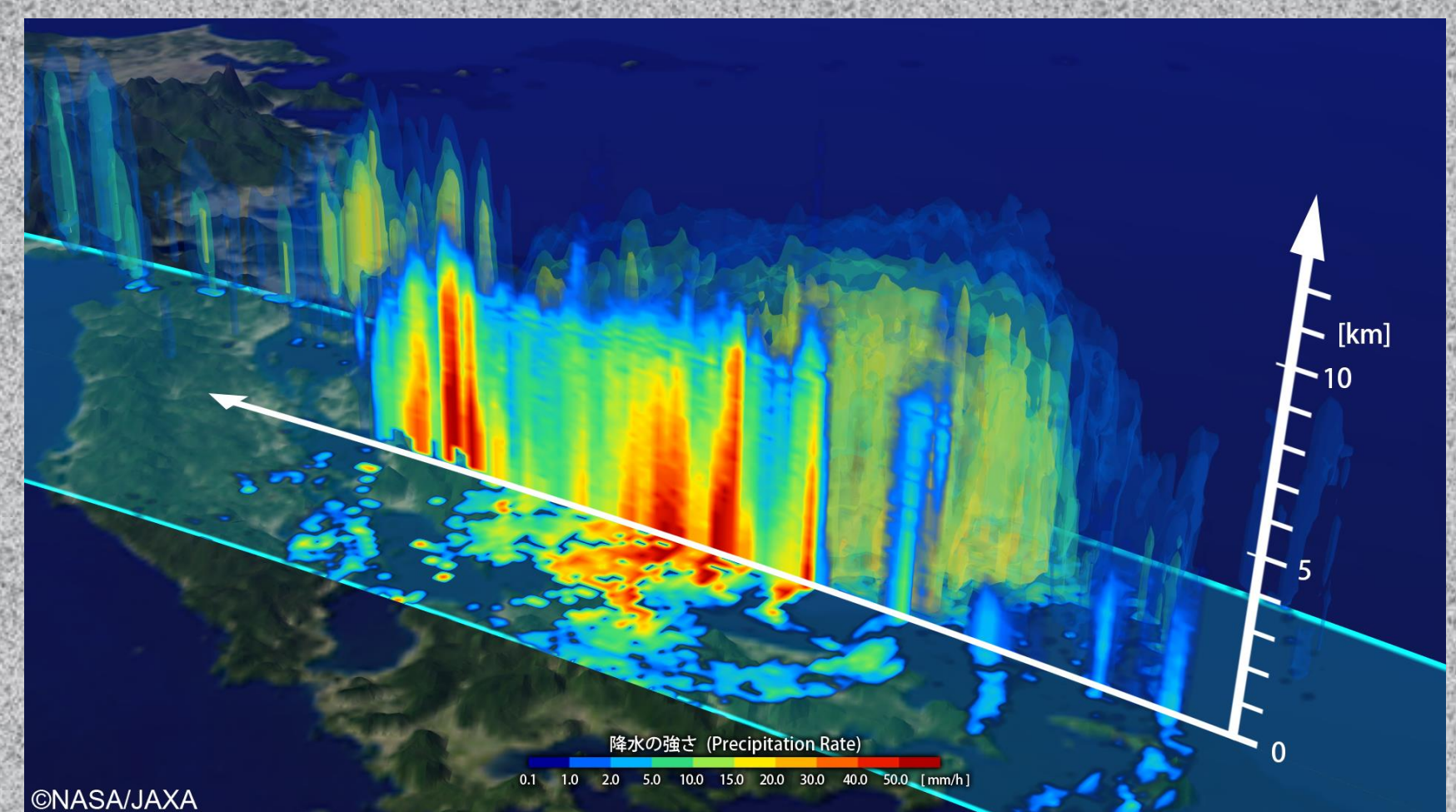
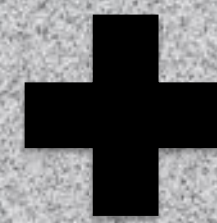
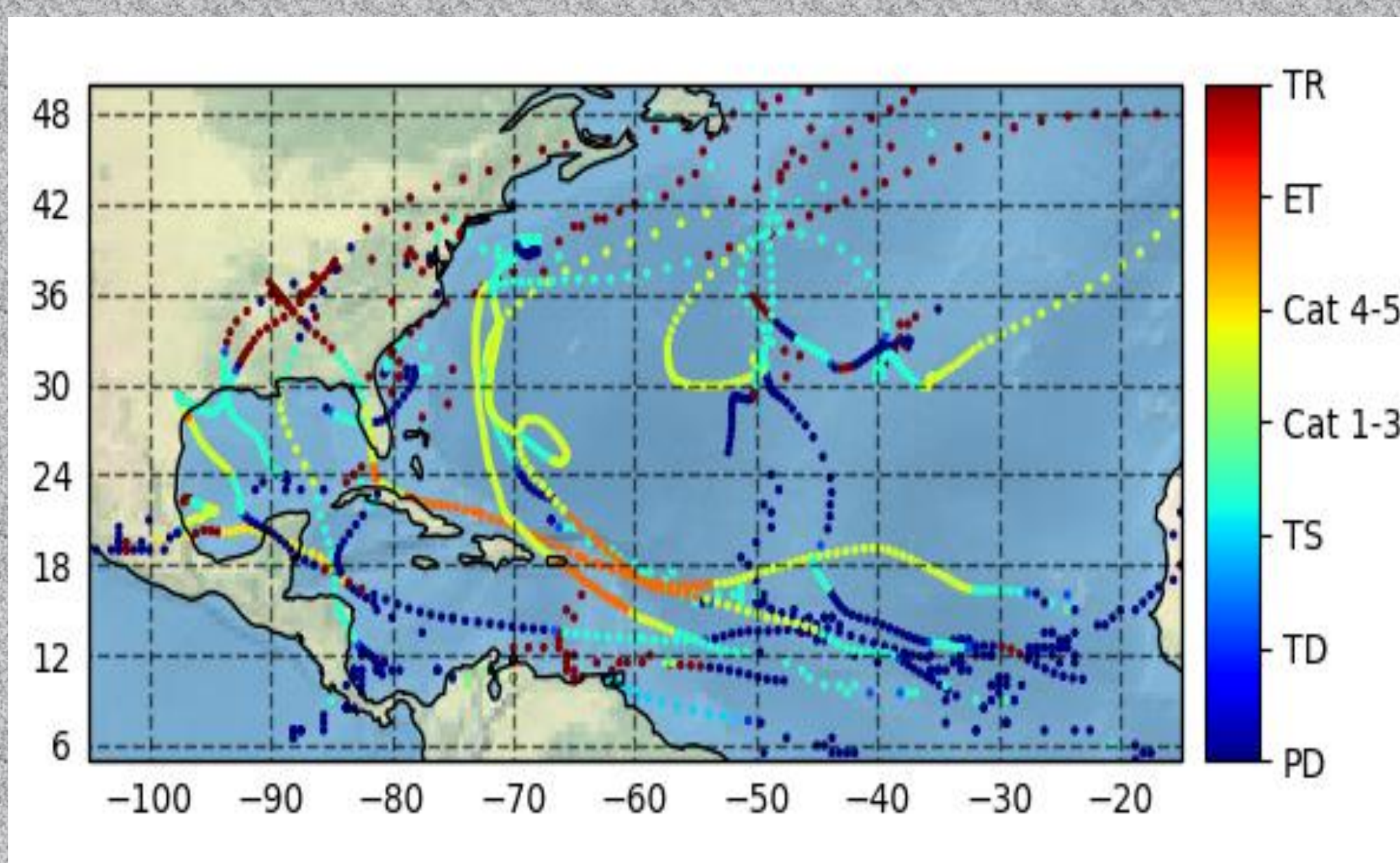


Image Credit: JAXA

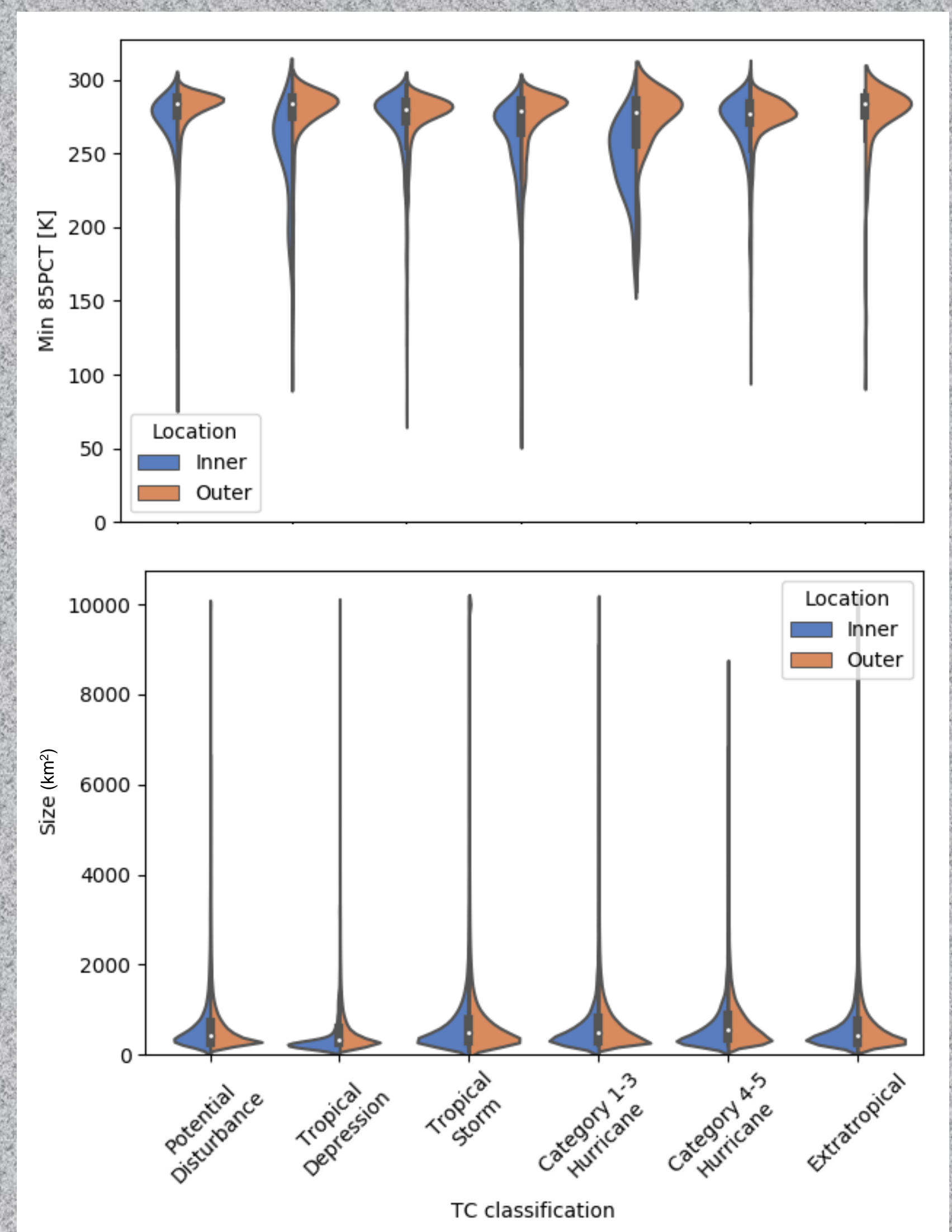


- Correlation of continuous lightning measurements (now available over the western hemisphere) and precipitation characteristics will provide understanding of complex microphysical processes occurring during the extratropical (ET) transition of tropical cyclones.

## Methodology/Results



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



## Acknowledgements

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## References

Goodman, S et al. (2013). The GOES-R Geostationary Lightning Mapper (GLM). Atmospheric Research. s 125–126. 34–49. 10.1016/j.atmosres.2013.01.006.

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