

Processes and predictability of low-probability tropical cyclogenesis

Several high-impact hurricanes, such as Ida (2021) and Ian (2022), unexpectedly formed from weak tropical waves in the western Atlantic and Caribbean. The new Ph.D. student on this project* will use reanalysis data, ensemble forecasts, multiscale modeling, and new AI tools and models to test hypotheses on the subtle distinctions between low-probability and high-probability genesis.

* *Subject to availability of funding*

