Manuscript Title: Tropical Cyclone Diurnal Cycle Signals in a Hurricane Nature Run Simulation

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Manuscript Description: This work investigates the TC diurnal cycle (TCDC) in a hurricane nature run model simulation and finds evidence of radially propagating signals of temperature, moisture, precipitation, and winds in the storm environment. The results of this work confirm previous studies that examined the TCDC using satellite data and have implications for numerical modeling of TCs and furthering our understanding of how the TCDC and associated TC diurnal pulses form, evolve, and possibly impact TC structure and intensity.

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