

Science Goals Related to Spray Modification of Hurricane Winds and Turbulent Fluxes

Past Work: Dropsonde data → log-profile analysis → estimate surface fluxes of momentum, latent heat, and sensible heat

Goals:

- Improve estimates of surface fluxes
 - Improved roughness lengths
 - Increase size of dataset
- Use Saildrones to determine impacts to the spray layer



Lockheed WP-3D NOAA42 "Kermit"
Photo credit: LT K. Doremus 2017



NCAR NRD41 (Left) and RD41 (Right)
Dropsondes [Hock 2020]



Saildrone Explorer 1045
Photo from Saildrone