Preliminary Look at Boundary Layer Doppler Wind Lidar Wind Profiles From The Tropical Cyclone Structure, 2008 (TCS-08) Experiment

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TCS-08 (Tropical Cyclone Structure) experiment was part of T-PARC in Summer, 2008
• NRL P-3 studied airflow in and around incipient and developing tropical cyclones in the Pacific Ocean
• P-3 instrumentation
  - ELDORA Doppler Radar
  - P3DWL Doppler Wind Lidar
  - Drop Sondes
  - Flight level instrumentation
• Other aircraft
  - Air Force C-130 (drop sondes, SFMR)
  - DLR Falcon (DIAL & DWL Lidars, drop sondes)
  - Taiwan DOTSTAR (drop sondes)
• CNR supported installation of P3DWL on P-3

Vertical Wind Profiles from Tropical Cyclone Nuri (16-17 Aug, 2008) Flight Level is 3000 m

Investigate Organized Roll Vortices in TC Boundary Layer

Data from Monterey, CA

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