

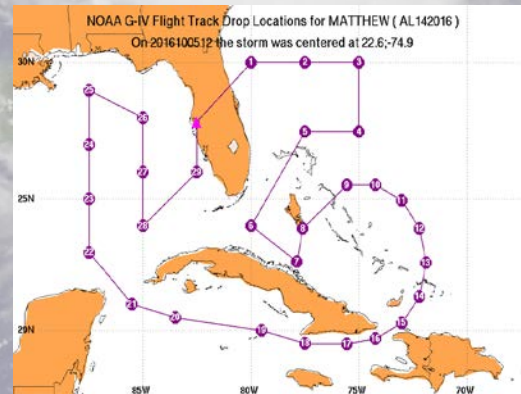
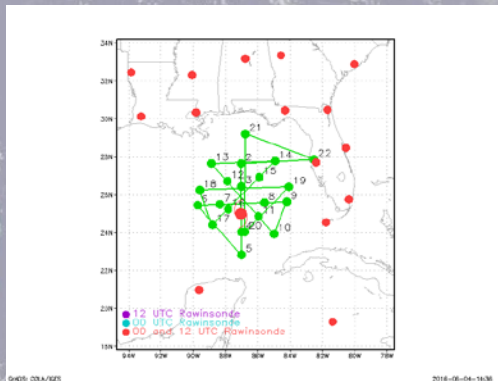
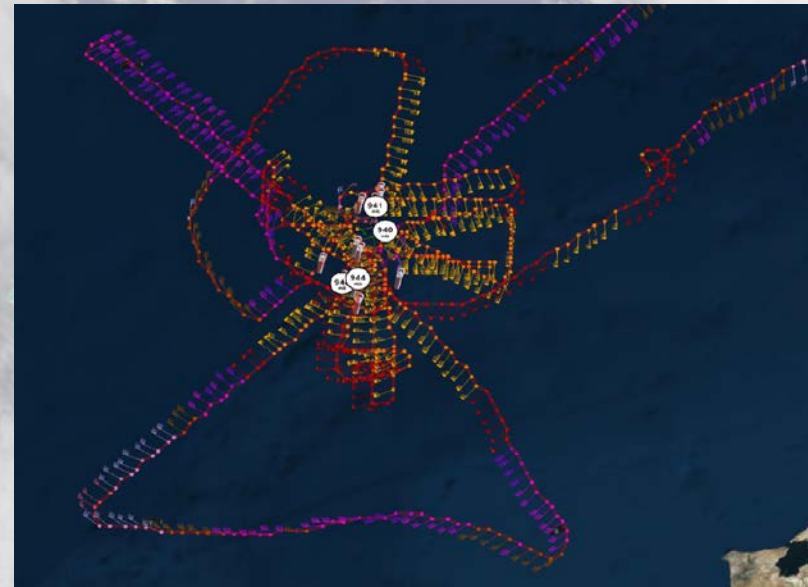
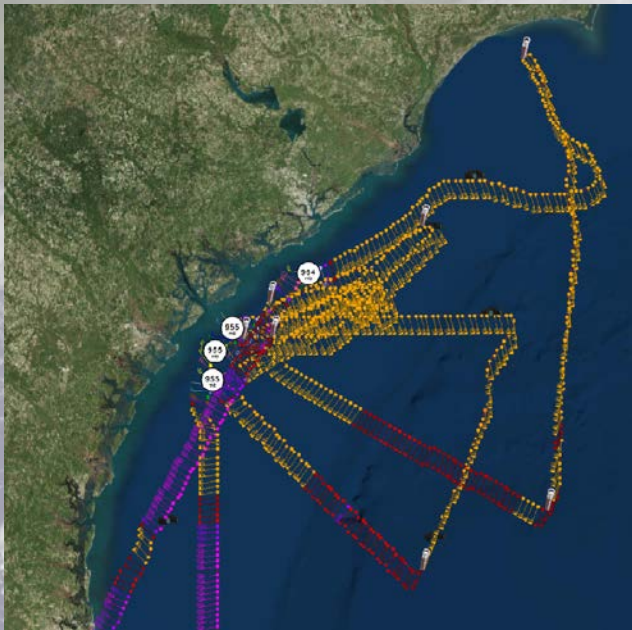
Office of Marine and Aviation Operations



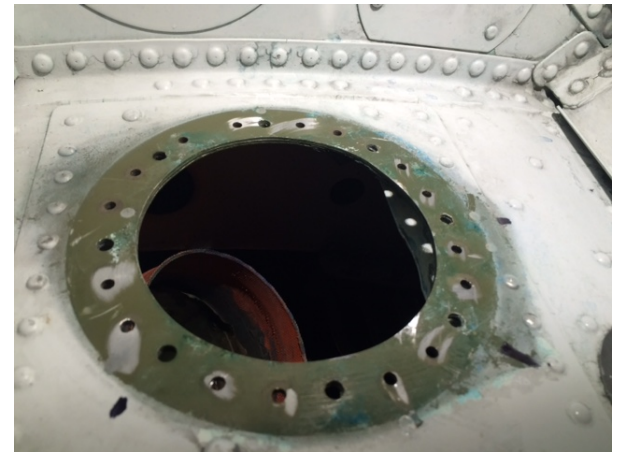
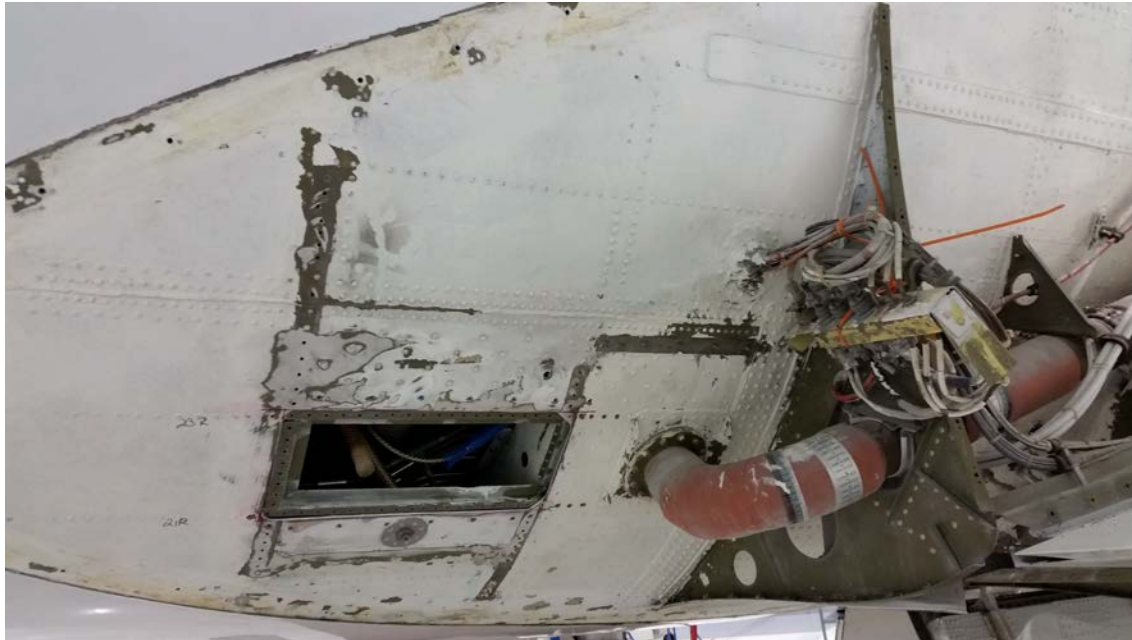
*CAPT Mike Silah, NOAA
Commanding Officer,
Aircraft Operations Center*

2016 Challenges

- Single P-3 - 3 separate missions with Atlantic and Pacific interests
- Single G-IV - Competing requirements in the Atlantic and Pacific
- Operational Tempo
- Deployed 24-hr operations



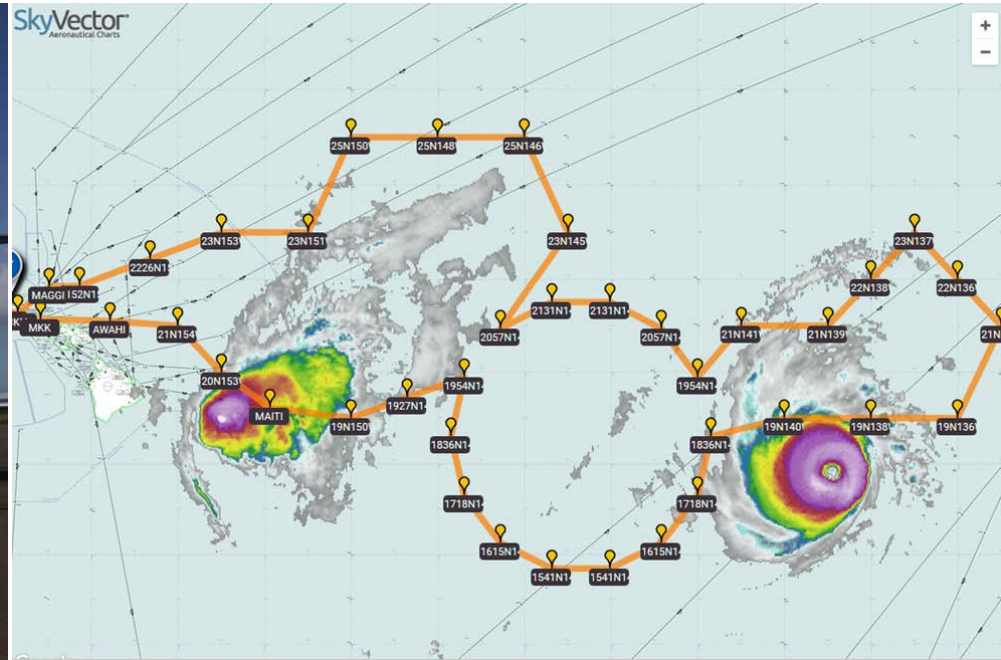
2016 Challenges



G-IV Corrosion found at the peak of Hurricane Season - down for 2 weeks



NSF NCAR Support for Lester and Madeline



- Total Time: 30.0 Hours/5 Days
- 7 Crew with a whole lot of key players on the ground
- 2 Agencies
- 87 Sondes
- 98% of the data ingested into the models on time
- Successful Surveillance Proof of Concept with NCAR GV



New AOC Facility Lakeland, FL



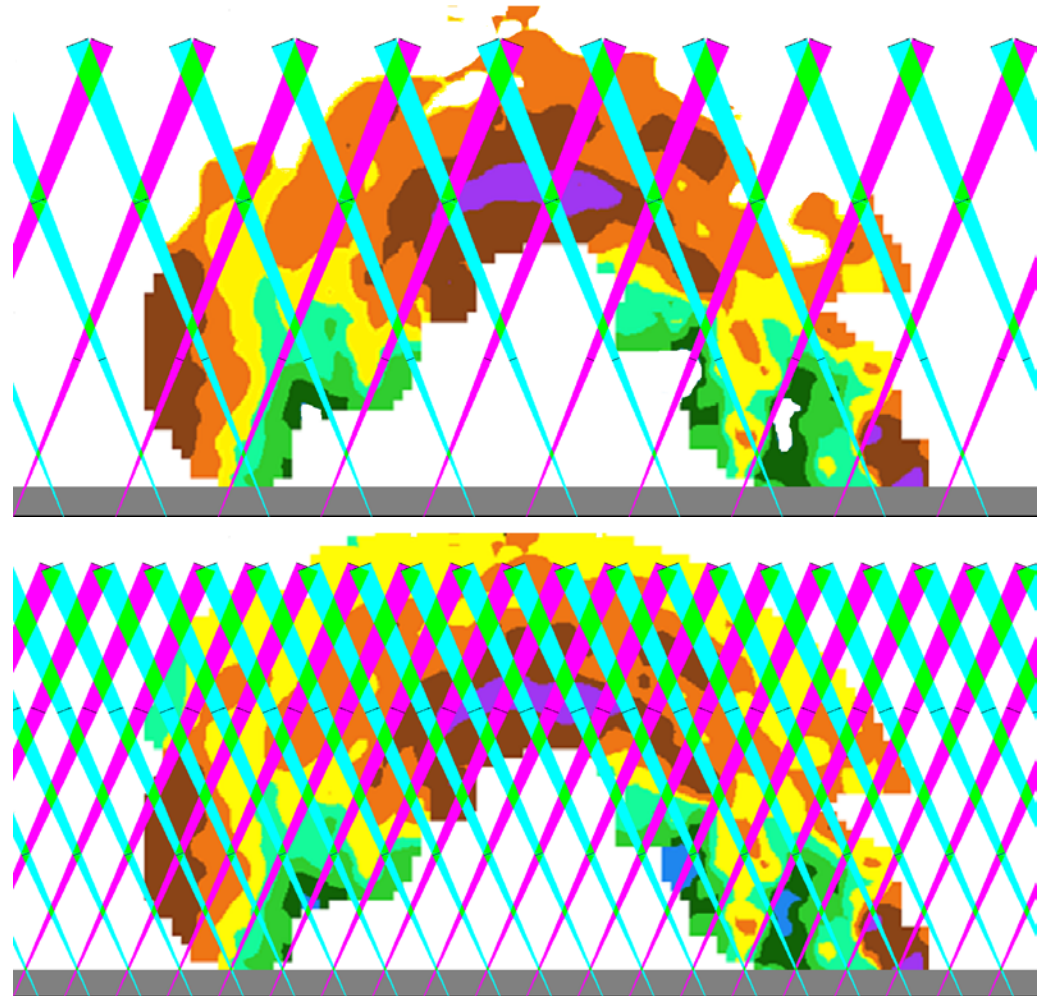
Office of Marine and Aviation Operations

2017 Tail Doppler Radar Upgrades

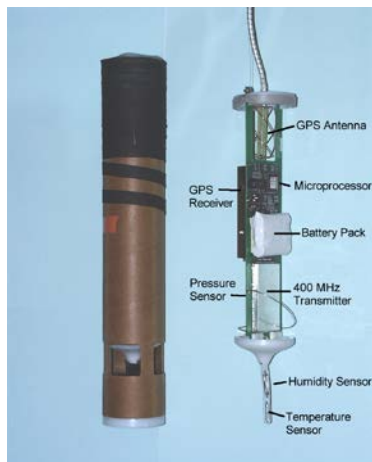
P-3 Radar Comparison

Characteristic	2016 System	2017 System
Max Antenna Rotation (rpm)	10	20
Along-track sweep spacing (meters) *	1440	360
Average power (Watts)	48	384
Min detectable signal @10km (dBZ) *	>0	-9

*lower numbers are better

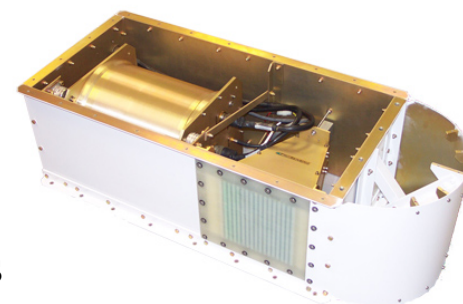


More 2017 Actions



- New 5-year contract in place for dropsonde purchase
- Available for use by NOAA and Air Force

- Continued NOAA-AF collaboration on SFMR Issues
- Feb 2017 Workshop held to familiarize new users with calibration and operation techniques



- New Multi-mode radar will replace current Lower Fuselage system after 2017 hurricane season
- Weather mode with turbulence detection and Doppler spectral profile within 40 nmi
- Strip-SAR mode for surface roughness and scatterometry
- Spot-SAR, AIS, and Air-to-Air for tracking vessels and aircraft



