

Office of Marine and Aviation Operations



*Jack Parrish, NOAA
Flight Meteorologist
Aircraft Operations Center
2018 Observations*

AOC Facility Under Construction Lakeland, FL



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2018 Operations

THREE AOC P-3 FLORENCE MISSIONS
FLOWN FROM BERMUDA

H. Florence

THREE AOC P-3 FLORENCE MISSIONS FLOWN
FROM BERMUDA AND NINE GULFSTREAM IV MISSI
FLOWN FROM LAKELAND, FL AND ST CROIX USVI

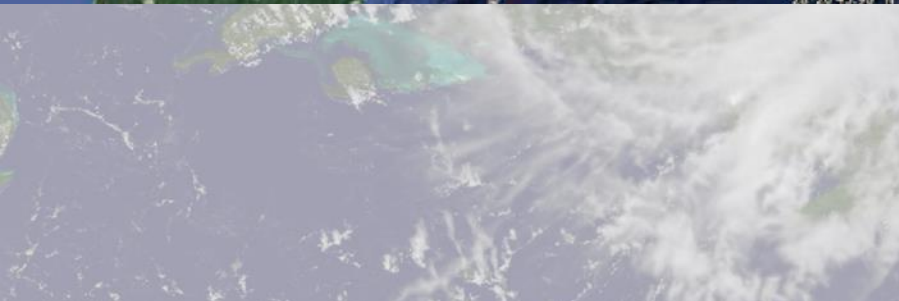
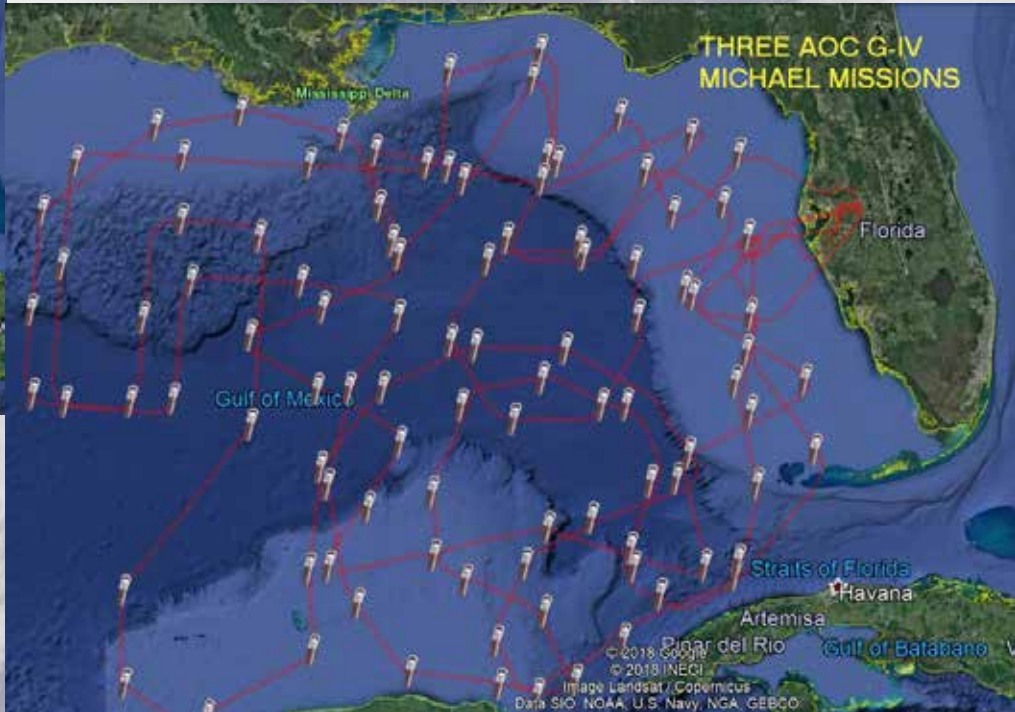
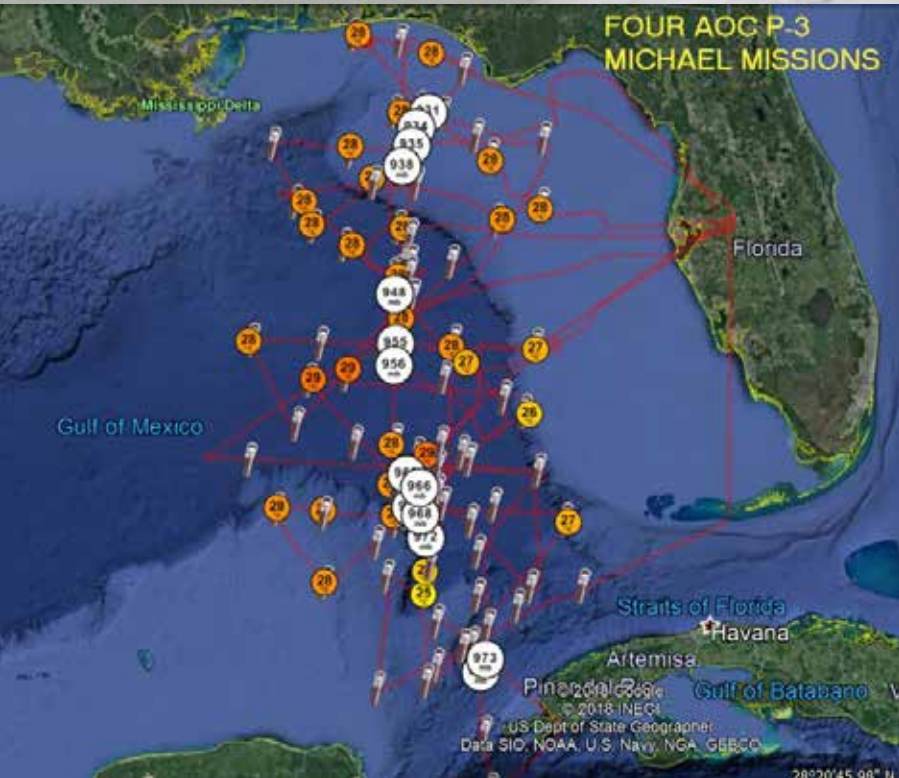


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Image Landsat / Copernicus
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US Dept of State Geographer
Data SIO, NOAA, U.S. Navy, NGA, GEBCO

2018 Operations

H. Michael



2018 Operational Highlights

- Single P-3 – 6 named storms plus Costa Rica genesis research deployment
- In 2019, both P-3s will be back online. Customized configurations for unique science goals, plus both aircraft RECCO ready
- Single G-IV - Competing requirements in the Atlantic and Pacific. Three Pacific deployments (Hector, Lane, Norman)

WP-3D

- Storms – 6
- Hours – 209.4
- Dropsondes - 418

G-IVSP

- Storms – 5
- Hours – 216
- Dropsondes - 621



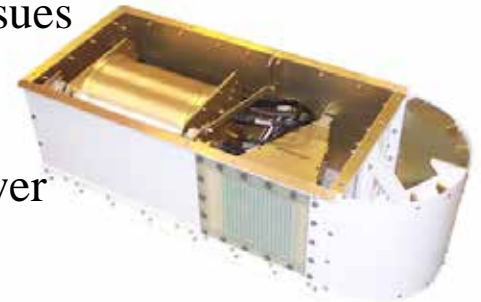
2018 Actions



About September 1, G-IV transitioned to RD-41 dropwindsondes. Very good results, ~95% reliability. RD-94 < 90%. BUFR files sent in 2018.

Continued NOAA-AF collaboration on SFMR issues

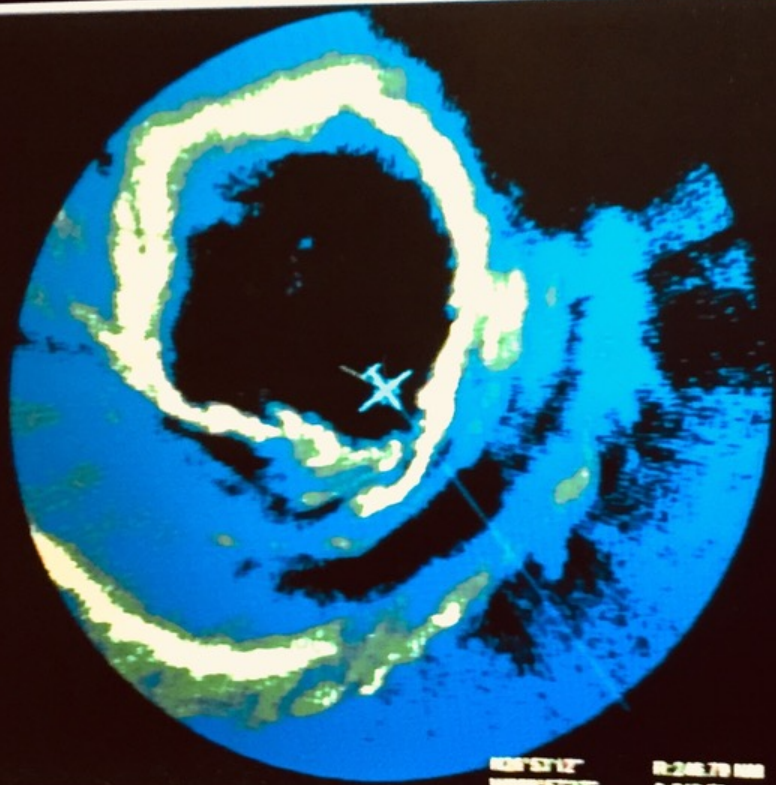
- For 2020, no changes to SFMR flags
- New SFMR processors from Pro-Sensing
- Reworking RMS error calculation. Expect fewer suspect lines in high wind regions.



New Multi-mode radar replaced old 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



V-R82DP-2C



54.83 mm

R:246.79 mm
A:246.7

2

16:9 4:3

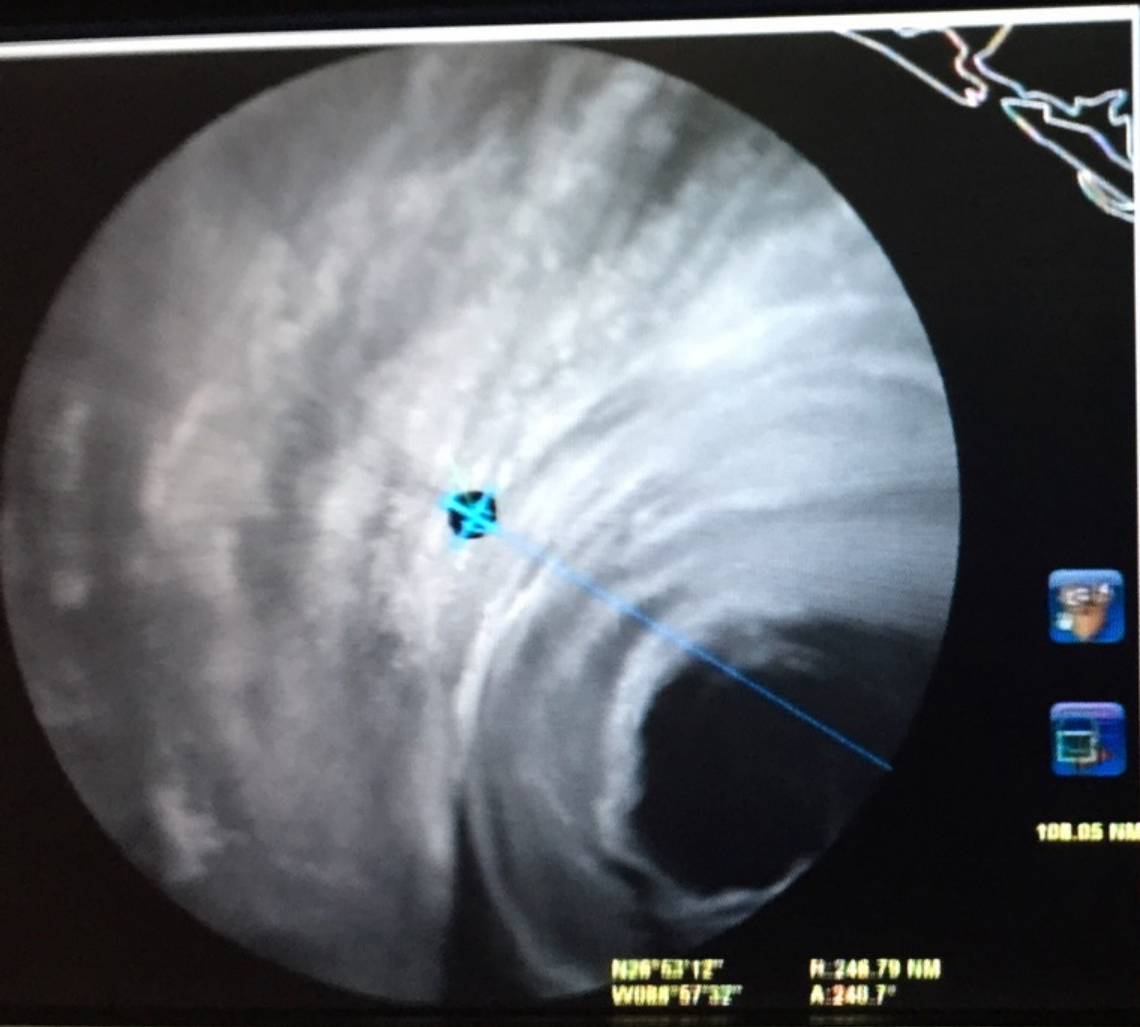
POWER VIDEO 1 VIDEO 2 OSD RATIO

BRIGHT COLOR TINT CONTRAST



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V-R02DP-2C

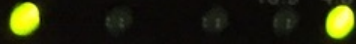


100.05 NM

N08°53'12"
W088°57'32"

R:248.70 NM
A:248.7°

16:9 4:3





Mexico Beach, Florida | [View this location on the map.](#)



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Key NOAA AOC points for 2019

- Two operational P-3s for this season
- Both P-3s will have the new MMR and upgraded TDR.
- The 94 flight hours from the cancelled Ocean Winds Winter have been moved to the hurricane season.
- The allocated hurricane hours for FY19 have been split between operations and research.
- Central Pacific (Hawaii) operations may be considered for both the P-3 and the G-IV.

