

## 53rd Weather Reconnaissance Squadron "The Hurricane Hunters"



### 403d Wing / Air Force Reserve Command







# Lt Col Kait Woods Aerial Weather Reconnaissance Officer



#### Data and Equipment:

- High Density Observations
- Vortex Data Message
- Radiation:
  - SFMR
- Expendables:
  - Dropwindsonde
  - AXBT
  - APEX float
  - ADOS / mini mets
  - Solo S2-X

#### **Operations**:

- AOR: 52.5°W to International Date line
- 3 Storms at one time / 20 crews (10 full time, 10 part-time)
- 6-hourly fixes per day when within 500nm of US
- 3-hourly fixes per day when within 300nm of US
- Two synoptic surveillance missions in 24-hours



#### Additional Data and Equipment:

- Ability to transmit Radar imagery (current requirement testing this storm season)

#### Additional Requirements

- APAR or equivalent requirement
- HIRAD or equivalent requirement
- Coyote UAS or similar requirement

#### **Operations**:

- No change to Operational NHC Requirements
- Better Utilization of C-130 Assets for research projects



FASTEX: Out of St Johns Newfoundland	NWS
NORPEX: Alaska and West Coast	NWS
TCM92 and TCM93: Guam,	Navy
TCS08: Navy Typhoon project	Navy
ITOP: 2010, Impact of Typhoons on the Oceans in the Pacific, Guam	Navy
Atmospheric River: 2016. Hawaii and West Coast	NOAA
APEX Buoy Deployments: Coming Soon	Navy