

## Lead Project Scientist

Storm or Project Matthew

Experiment type Coyote / TDR

Flight ID 20161008ID

Mission ID \_\_\_\_\_

### Preflight

- \_\_\_ 1. Participate in general mission briefing.
- \_\_\_ 2. Determine specific mission and flight requirements for assigned aircraft from the Field Program Director.
- \_\_\_ 3. Contact HRD members of crew to:
  - a. Assure availability for mission.
  - b. Review field program safety checklist
  - c. Arrange ground transportation schedule when deployed.
  - d. Determine equipment status.
- \_\_\_ 4. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
- \_\_\_ 5. Determine from AOC flight director the mission designation and whether aircraft has operational fix responsibility.
- \_\_\_ 6. Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.
- \_\_\_ 7. Report status of aircraft, systems, necessary on-board supplies and crews to Field Program Director.
- \_\_\_ 8. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drops.
- \_\_\_ 9. Make sure each HRD flight crew member has a life vest.
- \_\_\_ 10. Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.

### In-Flight

- \_\_\_ 1. Confirm from AOC flight director that satellite data link is operative (information).
- \_\_\_ 2. Confirm camera mode of operation.
- \_\_\_ 3. Confirm data recording rate.
- \_\_\_ 4. Request AOC flight director to leave radar in non-sector mode for initial Figure 4.
- \_\_\_ 5. Once at IP, request AOC flight director adjust radar tilt to minimize sea clutter.
- \_\_\_ 6. Complete Lead Project Scientist Form.
- \_\_\_ 7. Check in occasionally with the flight director to make sure the mission is going as planned (i.e. turns are made when they are supposed to be made).

### Post flight

- \_\_\_ 1. Debrief scientific crew.
- \_\_\_ 2. Gather completed forms for mission and turn in to data manager at HRD.
- \_\_\_ 3. Obtain a copy of the Dropsonde raw and processed files from the AVAPS operator on thumb drive.
- \_\_\_ 4. Obtain a copy of the radar LF files from the radar technician on thumb drive.
- \_\_\_ 5. Obtain a copy of the tar'ed radar TA files from the radar scientist on thumb drive.
- \_\_\_ 6. Obtain a copy of serial flight data and raw NetCDF file on thumb drive from the data technician.
- \_\_\_ 7. Obtain a copy of SFMR data on thumb drive from the data technician.
- \_\_\_ 8. Obtain a copy of DMT data on thumb drive from the data technician.
- \_\_\_ 9. Report landing time, aircraft, crew, and mission status to the Field Program Director.
- \_\_\_ 10. Determine next mission status, if any, and brief crews as necessary.
- \_\_\_ 11. Prepare written mission summary using **Mission Summary** form.

**Lead Project Scientist Check List**

Storm or Project Matthew Experiment name Coyote/TOR

Flight ID 2016100812 Mission ID \_\_\_\_\_

**A. Participants:**

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>CION</u>	Flight Director	<u>Parrish/Kuller</u>
Radar/Workstation	<u>KARINA</u>	Pilots	
		Navigator	
Cloud Physics		Systems Engineer	
		Data Technician	
Dropwindsonde	<u>RYAN</u>	Electronics Technician	
AXBT/AXCP		Other	
Photographer/Observer			
s/Guests			

**B. Take-off and Landing Times and Locations:**

Take-Off: 1903 UTC Location: MacDill

Landing: \_\_\_\_\_ UTC Location: \_\_\_\_\_

Number of Eye Penetrations: \_\_\_\_\_

**C. Past and Forecast Storm Locations:**

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

*Conduct EMC mission any 30 days before.*

**D. Mission Briefing:**

Plan is to do 2th Coyote makele (modified inflow) 1st then ~4h TOR Coyote portion is ~90km S of center! Expenses: 4BT/4IR Combos Failed Coyote #1, Tryin Coyote #2. Second full launch.

Storm or Project \_\_\_\_\_ Experiment name \_\_\_\_\_

Flight ID \_\_\_\_\_ Mission ID \_\_\_\_\_

E. — Equipment Status (Up ↑, Down ↓, Not Available N/A, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs /Expendables/ Printouts
Radar/LF				
Doppler Radar/TA				
Cloud Physics				
Data System				
GPS sondes				
AXBT/AXCP				
Ozone instrument				
Workstation				
Cameras				

REMARKS:

Coyote mission

## Mission Summary

### Storm name

YYMMDDA# Aircraft 4\_RF

### Scientific Crew (4 RF)

Lead Project Scientist \_\_\_\_\_

Radar Scientist \_\_\_\_\_

Cloud Physics Scientist \_\_\_\_\_

Dropwindsonde Scientist \_\_\_\_\_

Boundary-Layer Scientist \_\_\_\_\_

Workstation Scientist \_\_\_\_\_

Observers (affiliation) \_\_\_\_\_

*Mission Briefing: (include sketch of proposed flight track or page #)*

*Mission Synopsis: (include plot of actual flight track)*

*Evaluation: (did the experiment meet the proposed objectives?)*

EMC objectives met  
Coypok objectives were not met

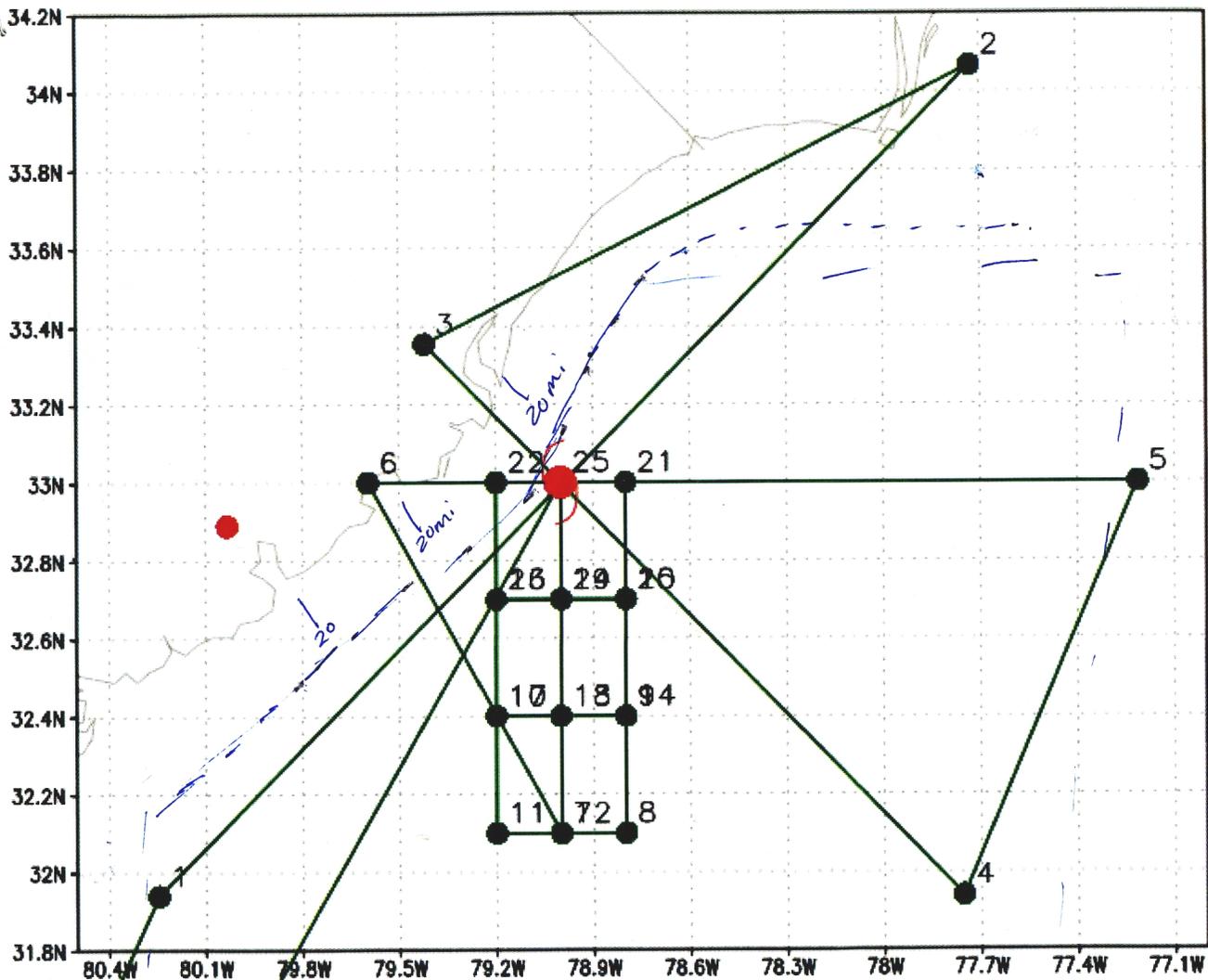
*Problems: (list all problems)*

*Expendables used in mission:*

GPS sondes : \_\_\_\_\_

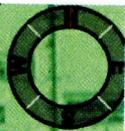
AXBTs : \_\_\_\_\_

Sonobuoys: \_\_\_\_\_



32 80.4  
 32.5 79.8  
 32.9 79.1  
 32.3N: 78.9 W  
~~32.6 78.6 W~~  
 33.6 78.6  
 33.65 78  
 33.85 77.7

80.91 30.62  
 80.80 38.3  
 80.45 32.99  
 77.65 33.77  
 75 35.04  
 71.2 35.04  
 73.3 31.4



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