Lead Project Scientist

Storm or Project Maria **Experiment name** Coyote
Flight ID 20170925H **Mission ID** _____

Preflight

_____ 1. Participate in general mission briefing.

_____ 2. Determine specific mission and flight requirements for assigned aircraft.

_____ 3. Determine from AOC flight director/meteorologist whether aircraft has operational fix responsibility and the mission designation.

_____ 4. 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.

_____ 5. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.

_____ 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 MGOC in Miami.

_____ 8. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.

_____ 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. Complete Lead Project Scientist Form.

_____ 5. Check in 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 10-s flight listing from the AOC flight director. Turn in with completed forms.

_____ 4. Obtain a copy of the radar DAT tapes. Turn in with completed forms.

_____ 5. Obtain a copy of serial flight data on thumb drive. Turn in with completed forms.

[**Note**: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

_____ 6. Report landing time, aircraft, crew, and mission status along with supplies (tapes, *etc.*) remaining aboard the aircraft to MGOC.

_____ 7. Determine next mission status, if any, and brief crews as necessary.

_____ 8. Notify MGOC as to where you can be contacted and arrange for any further coordination required.

_____ 9. Prepare written mission summary using **Mission Summary** form.

Lead Project Scientist Check List

Storm or Project_____ **Experiment name**_____

Flight ID _____ **Mission ID**_____

A. Participants:

HRD		AOC	
Function	**Participant**	**Function**	**Participant**
Lead Project Scientist	Clare	Flight Director	William
Radar/Workstation	Zhang	Pilots	Price
DVL	Ryan	Navigator	
~~Cloud Physics~~		Systems Engineer	
		Data Technician	
Dropwindsonde	–	Electronics Technician	Paul
AXBT/AXCP		~~Other~~ Avaps	
Photographer/Observers/Guests			

B. Take-off and Landing Times and Locations:

Take-Off: 1646 UTC Location: Lakeland

Landing: _____UTC Location: _____

Number of Eye Penetrations: 10?

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

Storm or Project Maria **Experiment name** Coyote

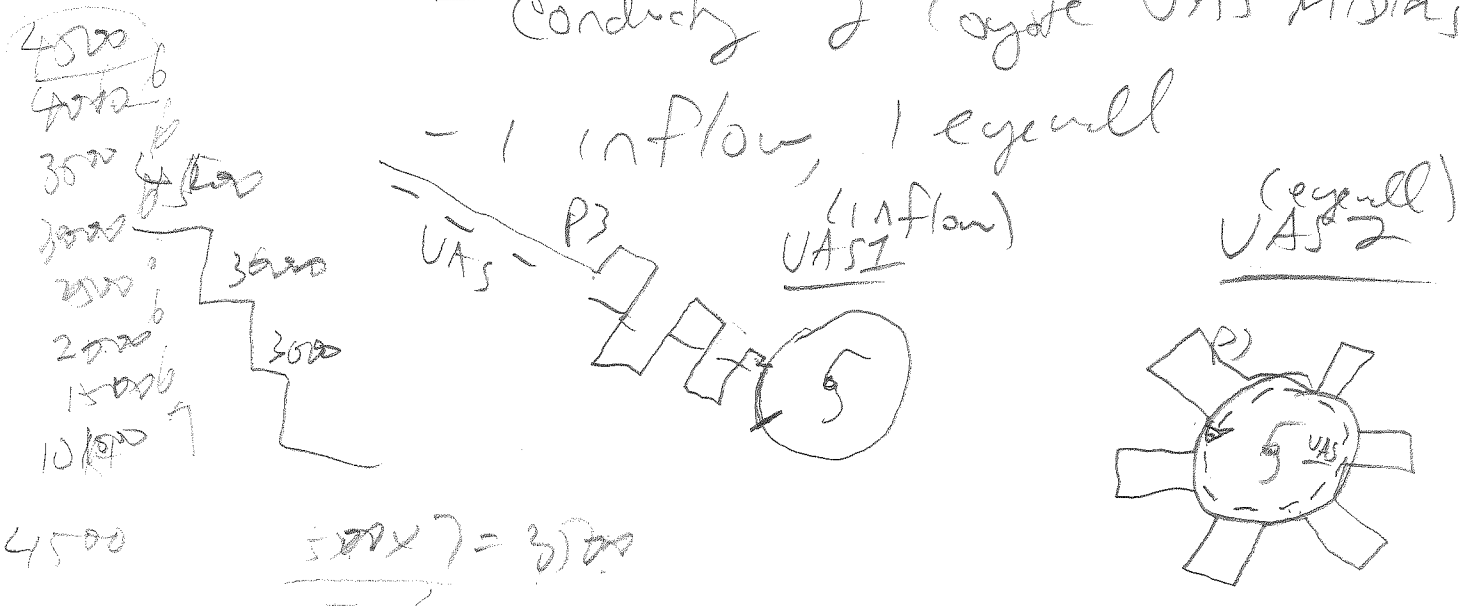
Flight ID 2017 **Mission ID** 20178234

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:

- Conducted 2 Coyote UAS missions
- 1 inflow, 1 eyewall



- also collected dropsondes

17 Sondes = 15 BTs

-132 25° 19' 72°15' RMW 23
22 NM NNW 2

Lead Project Scientist Event Log

Date 9/23/17 **Flight ID** 20170923H1 **LPS** Ciore

Time	Event	Position	Comments
1647	Take off	Lakeland	
1754	Drop	26°25' 76°38'	Rec sonde no BT
1816	Drop 2-3	26° 21' 74°54'	2 test Sondes
18:30	Coyote w/flare		Sirrcas
1834			IR Sonde
1843			BT
1846			IR Sonde

4K 5S 8mm
1500
3K
2K
1500
1000
500

4K 4mm
3K
2K