

Lead Project Scientist

Storm or Project Coyote Experiment type Research
Flight ID 20170922H 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.

C. Lat Co
 Speed Dne Eye Pa
 Rm

Lead Project Scientist Check List

Storm or Project Marina Experiment name Coyote
 Flight ID 20170922H Mission ID _____

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>Cial</u>	Flight Director	<u>Jess Williams</u>
Radar/Workstation	<u>Ryan</u>	Pilots	<u>Kinley Khan</u>
	<u>—</u>	Navigator	<u>Freeman</u>
Cloud Physics	<u>—</u>	Systems Engineer	<u>Haysek</u>
	<u>Zhang</u>	Data Technician	<u>Mascaro</u>
Dropwindsonde	<u>—</u>	Electronics Technician	<u>—</u>
AXBT/AXCP	<u>—</u>	Other <u>AVGS</u>	<u>Paul</u>
Photographer/Observer s/Guests	<u>Fish AA + Shuttle</u>		

B. Take-off and Landing Times and Locations:

Take-Off: 1700 UTC Location: LakeLAND
 Landing: 0125 UTC Location: LakeLand
 Number of Eye Penetrations: 8

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

59
2010.10.01

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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:

10.10.16.5

Figure 4, then "5 slice/spoke"
 1h Pizza module for Coyote. DWL
 is up and sunny throughout.

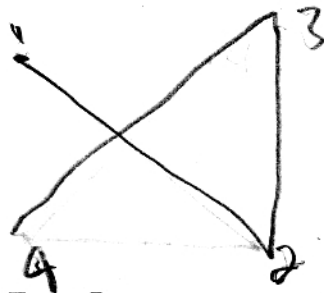


- All sondes working so far (5 IR BP) 

@2003Z center 23°13' 71°22'; E.O. 35-40NM; PMW 27km (F)
 Motion 350Deg @ 10Kts

Lat Lon for Center

23°4'
71°21'



28.3C

Lead Project Scientist Event Log

Date 9/22/17 Flight ID 2017922H LPS Cione

Time	Event	Position	Comments
1700	Takeoff	Labeled	
19:19:32	IP (1)	23°14' 72°0'	Combo IR/BT
19:30:11	Center	23°4' 71°21'	" " "
19:35:00	Wshaskul	NW eyewall	241 m/s
19:51:00	PT 2	22°24' 70°19'	T PT 2 Combo
20:10	2d eyewall	NE quad	Noted: ~60nm out
20:11	PT 3	23°54'N 70°36'	PT 3 Combo
20:26:43	Eye	23°13' 71°23'	eye combo
20:28	eyewall	worky well	all BT/sarles good
20:42	PT 4	22°29' 72°11'W	Combo PT 4
21:02	PT 4 Cycle land	-	
			42 min flight
			Fully successful
			108kt max, 246ft
			controlled in flight
			60% eyewall orbit
			☺

2958mb →

28.2

28.5

2d eyewall

Combo

Fish

so far (10)

28.3C →

27.7

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?)

Problems:(list all problems)

Expendables used in mission:

GPS sondes : 10

AXBTs : 10

Sonobuoys: —