

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 Can
Speed Dr Eye Re
Rm

Lead Project Scientist Check List

Storm or Project Plan 10a Experiment name Cogent
 Flight ID 20170922H Mission ID _____

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>C. Lat</u>	Flight Director	<u>Paul</u>
Radar/Workstation	<u>Ryan</u>	Pilots	<u>K. H. Khan</u>
	<u>—</u>	Navigator	<u>Freeman</u>
Cloud Physics	<u>—</u>	Systems Engineer	<u>Haystack</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	<u>—</u>		
s/Guests	<u>—</u>		

B. Take-off and Landing Times and Locations:

Take-Off: 1700 UTC Location: Lake LAND
 Landing: 0125 UTC Location: Lake Land
 Number of Eye Penetrations: 8

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

59
22.91.01.01

Storm or Project Ma. a Experiment name Coyote

Flight ID 22-729304 Mission ID

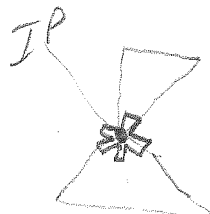
E. — Equipment Status (Up ↑, Down ↓, Not Available N/A, Not Used O)

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:

10.10.16.5

Figure 4, then "5 shoe/spoke"
in Pizza module for Coyote. DWL
is up and running throughout.

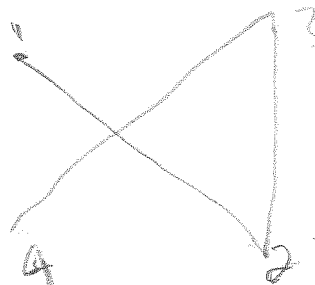


— All sondes w/ky so far (5+5) 

@2003Z Center 23°13'71"28"; E.O. 35-40NM; PMW 27NM (FL)
Motion 350Deg @ 10Kts

Lat Lon for Center

23°4'
71°21'



28.3C

Lead Project Scientist Event Log

Date 9/20/17 Flight ID 20170920 LPS C. Jones

Time	Event	Position	Comments
1700	Takeoff	Labelled	
19:19:32	IP (1)	23°14'720'	Combo IR/BT
19:30:11	Center	23°4'7121'	" " "
19:35	Wheeled	NW equall	~41 m/s
19:51:00	PT 2	20°24'5019'	T PT 2 Combo
20:10	2d equall	NE quad	Notes: ~60m out
20:11	PT 3	23°54'2036'	PT 3 Combo
20:26:43	Eye	23°13'71°23'	eye combo
20:28	expander	work well	all PTs are good
20:42	PT 4	20°29'7211W	Combo PT 4
21:02	2d Cycle Launch	-	
			42 min Flight
			Fully successful
			108Kt Kmax, 246ft
			controlled in
			flight
			60% equall
			orbit
			☺

2958m/s

28.2

28.5

28.3C →
27.7

also PPT
equall
Banda
Fibre
so far
(10)

Lead Project Scientist Event Log

Date 25 July Flight ID 02-25-2014 LPS Cole

Date 2/28/20 Flight ID 000000 LPS 000000

[illegible]

350	1041	35 402	27 mi
20032	2313	71.22	15 mi

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: —