Lead Project Scientist

Storm or l	
Flight ID	170824H 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 occasionaly 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 70 Harry Experiment name Flight ID_ 17082441 Mission ID A. Participants: HRD AOC **Participant Function Participant Function** Lead Project Scientist Flight Director Radar/Workstation Pilots ssi Hitchell Navigator Cloud Physics Systems Engineer Data Technician Electronics Technician Dropwindsonde AXBT/AXCP Other Photographer/Observer s/Guests B. Take-off and Landing Times and Locations: Take-Off: 015 2 UTC Location: KLAL Landing: 0956 UTC Location: KLAL Number of Eye Penetrations:

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
	wordpo 29AVA set only	tal Tracifican les words	count is egge at the Greenson	
	and the second	figure of the art of the figure	Landic of the open mich	
	endormed news.	particular and A Pan	or see half by the State is written	
	and the section of the control of		in the print of th	

D. Mission Briefing: Construct a TOR survey into TO Harvey, correctly located in Sw Gulf of Mexico after having emerged from Yucatam peninsula, Storm is as a broad Circulation, with a lask of an invercore at this point. Environment is generally forerable, though there is gone moderate Sw short associated with an apper level law to other contribute from is gone continually develop over and down short of enter Cubiculis likely titled), but they are bursts are continually develop over and down short of enter Cubiculis likely titled), but they are transfer to the slow intensification seems likely putter on inversore becomes established enter if from some slow intensification, IP on N, 105 am legs, Combo CPS 1 Bt at all turns, Ord's at enter if they butterfly puttern, IP on N, 105 am legs, Combo CPS 1 Bt at all turns, Ord's at enter if they butterfly puttern, IP on N, 105 am legs, Combo CPS 1 Bt at all turns, Ord's at enter if plus butterfly puttern, IP on N, 105 am legs, Combo CPS 1 Bt at all turns, Ord's at enter if plus butterfly puttern, IP on N, 105 am legs, Combo CPS 1 Bt at all turns, Ord's at enter if possible, do cuteris tours, English puttern, IP on N, 105 am legs, conditioned with turns, orders, If possible, do

Flight ID	Pall III	Mission ID	7.044	nie0
E. —Equipment Sta	tus (Up↑, Down↓	, Not Available N/A	A, Not Used O)	
Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs /Expendables/ Printouts
Radar/LF				
Doppler Radar/TA			×	Table William
Cloud Physics				
Data System				
GPS sondes				

Experiment name_

REMARKS:

AXBT/AXCP
Ozone instrument

Workstation

Cameras

Storm or Project_

Date 8 73/17 Flight ID 170824H(LPS Reges

Time	Event	Position	Comments
0152	takeoff	Pro-Wiebs to	tokell from KLAL
0307	055	Perry to UP	ch's keep forming at
			and downshear of center,
		butfie	zle out, whiter vapor a
		Grav drops	slow veryon, actabant
		400 ms along	western Soundary of
		Bay of Carrypa	the . Unartain how class
		that dry air ge	ts, but water upper leaks
		a sit wister u	(in 100 law of outer
0394	065	NISminton 18	AFAX Showed center
			sptacool about 50 km from
		portrid	of cold and tops from
		,	cathy SW shor in Just
		System	
0350	065	V lomatoi P	TA sweeps show stratifor
			aboth sides of At, in
		a Sand well	NE of outer
0404	pattern	at 1P	
0406	GB, BT	at IP	FL 25, SF 25, pred A.
		to east	
1100	072	on internal leg	passing just west of
		From N	burd of proip, al short.
			of TA still
3418	065	pt 50 um from	seeing echo taps up to
		center	~ 16 km to our east, ~ 40
1105	311		treast
0425		weegt of Picents	N-5 live of precip, some
	V		Ideal conventive cores get

AF 2500' UZ-7000' AF

0314 0425 0520

22,5

02,5

02,5

Lead Project Scientist Event Log

Date 8/23/17 Flight ID 170824K1 LPS Reglis

Time	Event	Position	Comments
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		SF	~ 30-35 let nota
		fine	fix though; estimated
	the same	center	- 25058, 65,301,
0502	drop3, 13T	100 nms of cent	- FLIMET;
A 1 45.	- N 9/4 - 12	conigles	tely devoid of prais
Mary Control		ons	ido, except for some
W	A 700	isdated	orres for of there
	7 300	reflectivi	in lower levels;
1/03			30.5C
0523	055	versEpt to	very low STAR alog
		torn insound	on this whole leg
0530	022	near insome	derating around
		ton point	Converting on SE Sijo
	MAN TANK	Atj	est fixed center
		much	turther North tram
77.		previm	
		F7.10°	5 56 trat low-level
		center	has shifted vortuin
0-77	00 11 07	CONVERDE TOSTINGE	h
0532	181 day		PL 35 1 28C 55T
		SF dsegr	of sour to be working
		(orreary,	not measuring surface
25/2	600	-30nm5E	Placed along Con
0552	065	201MJC	Flying wove some
***	The second secon		19 Duris Ca

2749 0604 QZ 32 Lead Project Scientist Event Log

Date 8/23 67 Flight ID 1708 24H1 LPS Roger

Time	Event	Position	Comments	
0609	center drop 5.	22°44' 920 52'	cotos sch nagamb,	
11 11 11 11		still	netly broad	
0633	dap 6, BT	105 MM NW	tundo trace 180,	
J. Zanakhi			downwird leg 30C	
0703	drap 7, 3T	105 amsw	apphartere FL 15/4)
11-04-1		No (am)	andetect a no BT	
0719	665	~ sonus Wot	LA presentation does	
Lida 1 1	the state of the s	Center	not show a dear center) —
			econvolure, and bonds	
	or the Thirty	extending	out forward 5 from 005	+
		5ido		
0733	grab &	2387 92 40	extraps LP ~ 996 mb,	
	i de la companya de l		splash press 995,5 W/20	kt
			ske wirds	
0739	055	outbourd to NE,	in precip bumplest la)
de lagit y	2 18		- vides pread stratition	
	Bard Marian		ne embedded gravective	
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07.17	Aut D	50 let remind	s, very stratifing	
0747	Our 9		Occas my sorop, in	
			nostly stratifm, but	
00 =	1 1 2 -	quite burypy		
5805	dapeo, BT	105 mile out	BL 40 69, but park	
		FZ wild		7
A BUT THE		ST24.3	it suspect that's wrong)

Mission Summary Storm name YYMMDDA# Aircraft 42RF

Scientific Crew (4 RF)

Lead Project Scientist _____

Dropwindsonde Scientist Sellword
Boundary-Layer Scientist

Radar Scientist___

Cloud Physics Scientist___

Workstation Scientist_ Observers (affiliation)_

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

See freewords
Mission Synopsis: (include plot of actual flight track) Mission was flown as planted. Had
Mission Synopsis: (include plot of actual flight track) Mission was stourd as planting to and context the passes as storm was still broad and outer trying to consolidate. Most of process North context, likely so of sursher contempressed to swift rooth to consolidate. Most of process North south, likely so of sursher contempressed to swift rooth to consolidate. Sofullite shows expanding cold cloud should appearing to get nure over center, including into this process. Saturded dep convention withe strathform, privarily multiside (downshow). Storm upshear. Enterteleted dep convention, the strathform, privarily multiside (downshow). Storm upshear. Enterteleted dep convention, By end of flight, the winds asset drap splant pressure. Evaluation: (did the experiment meet the proposed objectives?) on that pass and the pa
Evaluation: (did the experiment meet the proposed objectives?)
producing every winds. As such, is analyses were transmitted to Eme Call data were flagged). Also stere was a problem w/ study last that seved to have gotten fixed. Ferhaps rador what a coun be recovered post flight. Droppel 10 soreles, 6 HPIP, 3 NHC, Locean winds.
raderavalyses, STMR for part of 7 who well
figut, 1 souch failed, 3BT's failed
Expendables used in mission: GPS sondes: AXBTs:
Sonobuoys: