19910805H1_LPS

E.2 Lead Project Scientist (On-Board)

E.2.1 Preflight

<u> </u>	1.	Participate in general mis-	٦.			
	2.	Determine specific	A. quirements for assigned aircraft.			
	3.	Determine fr responsit briefe ciles: ne COST	pan rector whether aircraft has operational fix stor/meteorologist and CARCAH unless			
	4.	Ramildat Capilla	80			
		c htar :1818	Los IRAN Ved.			
	5.	Mee. (ime require pilots.	e corovide copies of flight ctor, navigator, and			
	6.	Report star appropriate F. [hnd]dat I location).	and crews to note recovery			
E.2.2	In-Flig	ht l ⁹¹⁰				
	1.	Confirm from OAO flig (information).	, operative			
	2.	Confirm camera mode of ot				
	3.	Confirm data recording rate.				
	4.	Complete Form E-2.				
E.2.3	Postfli	ght				
	1. Debrief scientific crew.					
<u></u>	2.	Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).				
	3.	Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the OAO flight director.]				
	4. Obtain a copy of the 10-s flight listing from the OAO flight director. T completed forms.					
	5.	Determine next mission status, if any, and brief crews as necessary.				
	6.	Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.				

19910805H1_LPS

E.2 Lead Project Scientist (On-Board)

E.2.1 Preflight

- 1. Participate in general mission briefing.
- 2. Determine specific mission and flight requirements for assigned aircraft.
- Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with OAO flight director/meteorologist and CARCAH unless briefed otherwise by field program director.
 - 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- 5. Meet with OAO flight crew at least 90 minutes before takeoff, provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.
 - 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami or FGOC at remote recovery location).

E.2.2 In-Flight

- 1. Confirm from OAO flight director/meteorologist that satellite data link is operative (information).
- 2. Confirm camera mode of operation.
 - 3. Confirm data recording rate.
 - 4. Complete Form E-2.

E.2.3 Postflight

- 1. Debrief scientific crew.
- Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).
- Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the OAO flight director.]
- 4. Obtain a copy of the 10-s flight listing from the OAO flight director. Turn in with completed forms.
- 5. Determine next mission status, if any, and brief crews as necessary.
 - 6. Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

1991080541-299 Form E-2 Page 1 of 5 **On-Board Lead Project Scientist Check List** Aircraft 43RF Flight ID 8/5/9/ Date 910805 II A. Participants HRD OAO Function Participant Function Participant SIM Lead Proj. Sci. Flight Director **Cloud Physics Pilots** Navigator Radar Sys. Engr. Doppler LALIC Data Tech. Photographer El. Tech. Omegasonde Lis, Hallett AXBT/AXCP Other Take-Off /809 30 Location MIA Landing Location Β. Past and Forecast Storm Locations Longitude MSLP Max. Wind Date/Time Latitude C. Mission Briefing aPB #

Form E-2 Page 2 of 5

D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	~	· · · · · · · · · · · · · · · · · · ·	
Radar			
Cloud physics			
Data system			
Omegasondes			
AXBT/AXCP			
Doppler			
Photography			

REMARKS:

Form E-2 Page 3 of 5

E. I. Proposed Flight Pattern (sketch or designate by number)

Shy coordinated patterns with CaPE vadars - start flying CP-3, CR4 CaPE vadars - start flying CP-3, CR4

E. II. Actual Flight Pattern

Form E-2 Page 4 of 5

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes of ϕ and λ .



Note: Label full degrees according to location of flight area.

Form E-2 Page 5 of 5

Lead Project Scientist Event Log

afflean 5=zwelge missing 0.6° az of6set from the start noise low 1.

Date _ 810805 _

Flight 43RF

LPS Marks

Time	Event	Position	Comments
10	180930	MIA	
IP	CR-YRANGE	1850	baseline vins over Patrick
			TK 250
185130			Targets to right of TK
185300	CP-4 swe	ep 3667 460	TA
1800	(P-3)		TK 119
1908		r.	end leg 90-270 turn.
1900		Surep 790	setup scanning vight side
			Sector 190° centeral 90
1913			TK 280
191444	CP-4		
191730	Take a	nt of socta	Switch not working as I though
191900	NW end	7.182	biz sector
		0 . 1	cut out an
1923	TK 120	to CP-4	90° az,
1933	TRABO	40 CP-3	Jun Roles Checkingrader not
		clouds build.	nd S fast. Changing
	Juck Says	INE #2 seem	5 better +ilt where
	Valar i	B Set to INB	#1 I thought.
1943 .	turn TK 120	alot nu	we suppressed this leg,
		stuffs col	apsilia

Note: Label full degrees according to location of flight area.

Form E-2

Form E-2 Page 5 of 5

Lead Project Scientist Event Log

#7

LPS _Mal Date 91080571 Flight 43RF Comments Time Event Position 1954 Turn 280 75 lost lobs aning with this Roles JM radar ea data us at 2008 im closely This enna leg Switching Autenna Proper but 0 671 Chappilin & aff bec 2026 to check Circle Vac tk lobe. 204049 in box around turn ow cu developing in loke 2042 in 6 ox in box 28 17,81 °C 2048 Lovan urnI 53"N 810 W Corar 2054 60x urn Inode 0 51 small cell left. mbox 2105. TK JK m box 2112 Gox in urn 2118 ML um guile Coot AS Calib. Suppressed Ven 2125 K curh 2128 2130 MI Done 10 read