1990082811_LPS

E.2 Lead Project Scientist (On-Board)

E.2.1 Pre	fligh	ıt en
	1.	Participate in general mission briefing.
/	2.	Determine specific mission and flight requirements for assigned aircraft.
	3.	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.
<u>/</u>	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).
.2.2 In-	-Flig	pht
	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.
.2.3 Pc	ostfli	ght
	1.	Debrief scientific crew.
_	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. 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.

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Form E-2 Page 1 of 5 On-Board Lead Project Scientist Check List Aircraft N43RF Flight ID 900828I) A. Participants HRD OAO Function Participant Function Participant Lead Proj. Sci. Flight Director **Pilots** Cloud Physics Radar Navigator Sys. Engr. Doppler Photographer Data Tech. Omegasonde El. Tech. AXBT/AXCP Other Take-Off Location Landing Location Past and Forecast Storm Locations B. Longitude MSLP Max. Wind Date/Time Latitude 58°W 965 C. Mission Briefing

Form E-2 Page 2 of 5

D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft			
Radar	370 Garaba (bla		
Cloud physics	2DC gaerhonible		
Data system			
Omegasondes			
AXBT/AXCP			
Doppler			
Photography		ŗ,	

REMARKS:

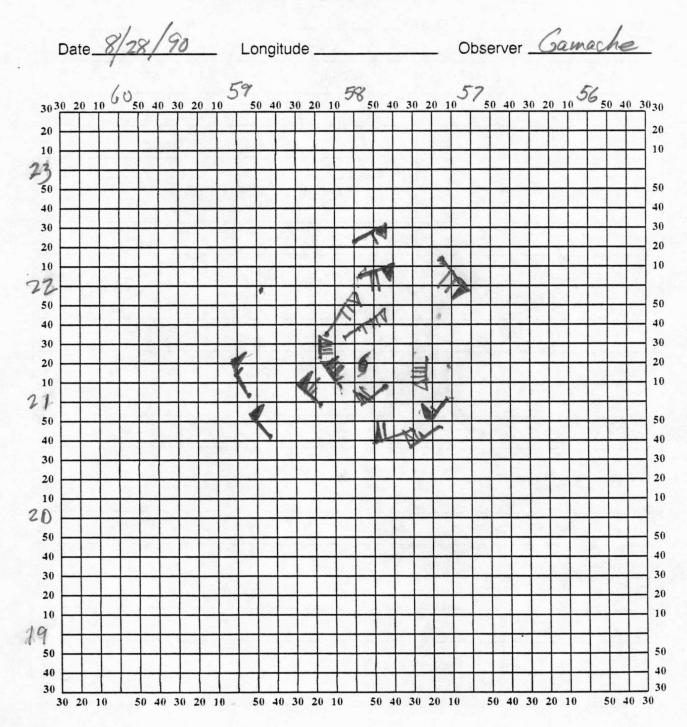
Form E-2 Page 3 of 5

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

E. II. Actual Flight Pattern

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes of φ and $\lambda.$



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

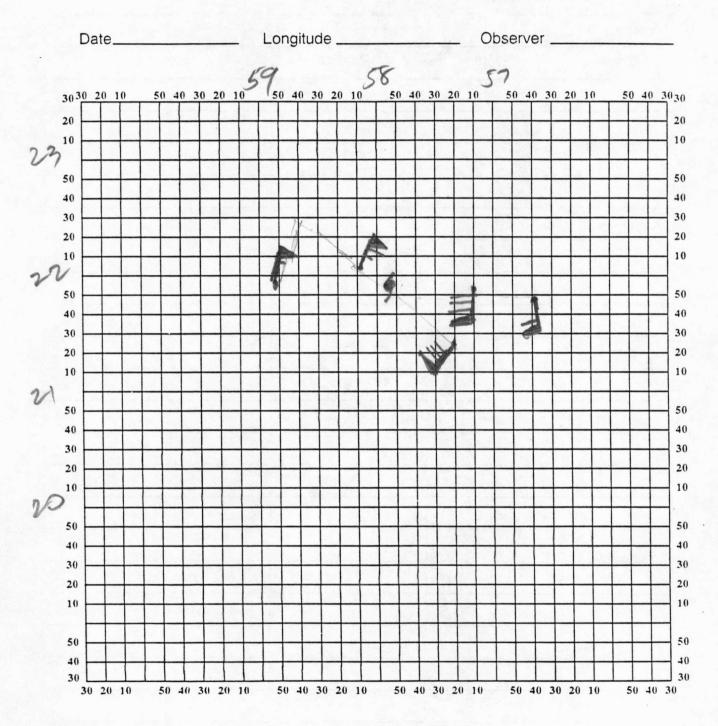
Lead Project Scientist Event Log

Date	Flight _	LPS	

Time	Event	Position	Comments

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes of φ and $\lambda.$



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

Lead Project Scientist Event Log

Date	Flight	I DC
Date	riigiil	

Time	Event	Position	Comments

E.2 Lead Project Scientist (On-Board)

E.2.1 Pr	efligh	ıt
	1.	Participate in general mission briefing.
	2.	Determine specific mission and flight requirements for assigned aircraft.
-	3.	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:
1		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 Ir	n-Flig	ht
	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 P	ostfli	ght
	1.	Debrief scientific crew.
	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. 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.

Form E-2 Page 1 of 5

On-Board Lead Project Scientist Check List

Date		Flight									
Participants*	HRD	OAO									
Function	Participant	Function	Participant								
Lead Proj. Sci.		_ Flight Director									
Cloud Physics		Pilots									
Radar		Navigator									
Doppler		Sys. Engr.									
Photographer		Data Tech.									
Omegasonde		El. Tech.									
AXBT/AXCP		Other									
Past and Foreca Date/Time	ast Storm Locations Latitude Lo	ngitude MSLP	Max. Wind								
			_								
Mission Briefing											

Form E-2 Page 2 of 5

D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	OK		-
Radar	OK		
Cloud physics	OK		
Data system	OK		
Omegasondes		Trouble on	
AXBT/AXCP	OK	Frot fre	
Doppler	OK		100 <u>100 100 100 100 100 100 100 100 100</u>
Photography			

REMARKS:

AxBT'S didn't work

AxBT'S

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

Egewall evolution Starting from South

E. II. Actual Flight Pattern

Did one complete pattern

Then 1/2 know -- herding east
wer reversed track and went through
confer one more time.

60 nm lgs instead of 50mm due
to sege of ege

20 10

50

40

30 20 10

Hurricane Recco Plotting Chart

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

2	0 1	0	5	0 4	0 3	0 2	0 1	0	5	0 4	0 3	0 2	0 1	0	5	0 40	0 30	0 20	0 1	0	5	0 4	0 3	0 2	0 10	0	50	40
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	12		1											100														
				300					100													1		7				
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10

50

40

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

50 40 30 20 10

50 40 30 20 10

50 40 30 20 10

50 40 30 20 10

Lead Project Scientist Event Log

Date 8/28/90 Flight 900828II LPS Gamacke

Time	Event	Position	Comments
2121	1	2039 57 47	trying FAST Scan
2131	(A)	2056 575	Starding to orbit to
2138		2105 57003	end orbit
2153	5	2143 5749	
2210	(3)	2228 5833	
2220	66	2149 3850	
2237	5	21°54 5745	
2252	(2)	2/52 5639	Fast-Scanning on way
2311	5	2137 574	
2328	END	2159 5855	
-	42		

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes of φ and $\lambda.$

Date							Longitude											Observer										
20 10	5	0 40	30	20	10		50	40	3(0 2	0 1	0	5() 4(30	20) 1()	50	40	30	0 2	0 10	_	50	40		
		-	-	4	4		4	4					-	-	-	-	-	-	-	+			-	+	+	+	_	
			+	+	+	+	+	+						+		+	-	+		+			+		+	+	STATE OF THE PARTY OF	
			4.5																							1	-	
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						4	-								-	-				-			4	1	4	-		
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Note: Label full degrees according to location of flight area.

Form E-2 Page 5 of 5 037 pst *1.16

Lead Project Scientist Event Log

Date 8/28/90 Flight 900828II LPS 6 amache

Time	Event	Position	Comments	
1620	Engine Start	S.J.		
1629	7/0	·5. J.		
1645		9 8 6 32 163	Data system problems	
1653		1814 64 14	System up	
1807	Desandiy 2500m		Different to see eyewall	
18540	IP		Depp ABT (1)	
1832	9	218 5755	Dry AXBT (2)	
1845		226 5755	Slight tout to 850	
1846	2		1//	AXBT DAY
1853	3	21057 5831	Prop AXBT	0/
1906	(21295755	977mb	
1922	(4)	2054 5711		
1928	3	2119 5701		
1941	5	21 23 5754		
1955	6	2123 5850		
2002				
2007	(7)	20 40 58 40	·	
20 28	-6	21 32 5747	978 mb	
2041	(8)	22012 578	BT 100hs late at 0	200 00
2051	22	22 28 5755	BT	track
2106	6 5 400	21 38 5449		