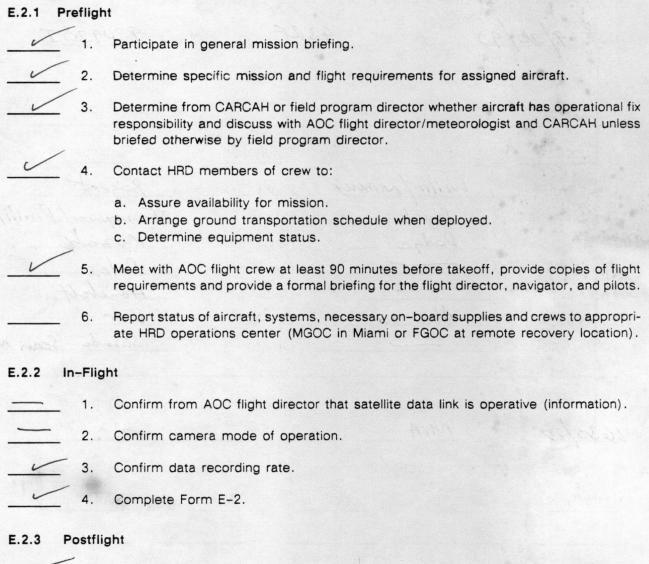
1993 0930I1-LPS

E.2 Lead Project Scientist (On-Board)



- 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 AOC flight director.]
- Obtain a copy of the 10-s flight listing from the AOC 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.

On-Board Lead Project Scientist Check List

Date 9/

Aircraft 43 RF

Flight ID _ 930930 I

A. Participants

HRD OAO Participant Function Participant Function Willis Lead Proj. Sci. MAN Flight Director Kospri Phillip Some Black **Cloud Physics** Pilots Radar Voda Navigator Role Sys. Engr. Workstation Hone Data Tech. Photographer Aberion Barr Omegasonde El. Tech. Scan Nentillan St Sante AXBT/AXCP Other Take-Off Location Landing Location MIA 2245 MIA 1630 B. Past and Forecast Storm Locations Latitude Longitude MSLP Max. Wind Date/Time C. Mission Briefing See Attached - claudy and Climate

Ł

D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft			Jie Hitzener
Radar/LF	~		
Radar/TA (Doppler)			- 18 7/3
Cloud physics			
Data system			
Omegasondes			
AXBT/AXCP			
Workstation			
Photography	Forward Vides		

REMARKS:

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

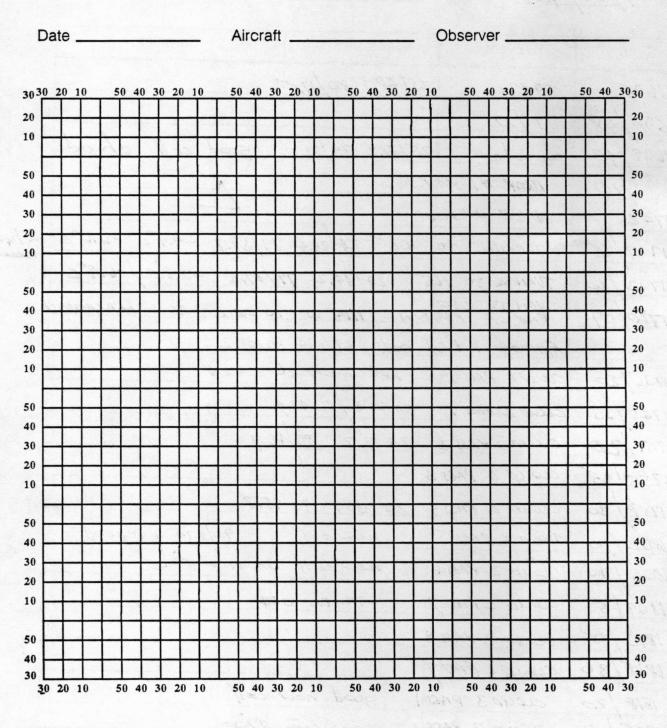
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See Attached

E. II. Actual Flight Pattern

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes



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

D

Lead Project Scientist Event Log

Date 9/30/93 Flight 930930II LPS Within

Time	Event	Position	Comments	
1625	TAXTI	25/48.1 80/17.5	-	
1630/28	TID	-		
1639/40	avonte	25/41.2 79/39.0	good cell check.	
1701/14	DROP #1 PA	M 3	1	
1702	ONOP # LPO		4	
1707/25	JURNINIG TO	025 24/24.4	79/59.7 - 9.4°C - 6.6°C m/4/4 needl	pp.
1713/40	TURNING TO 16	5 24/44.2 79	147.6 -3.8C/-6.9°C	
1720/09	END OF PAT	ERN HOG W -	OCELL 305 MARATHON	
	Approachen fin	+ cell 24/15.4 8	0/48.2	
1736/20	CLOUPI PASS /	not men of	dcell	
1745/33	CLOUP 2 PASI 1	24 26.8 80 47.9		
1751/20	CLOUD 2 PASS 2	24 39.7 80/4	6.7	
1755/05	CLOUD 2 PASS 3			
1757/30	CLOUD Z PASS 4	- 24 38,1 80 9	5.8	
1802/10	alous 2 PARIS	A She was a set of the	90/270 + repeat	
1806/10	CLOUP 2 PASS 6	nercell a	n wrv side	
1809/50	CLOUD 2 PASS 7	TRACE 04	9	
1813/35	CLOUD Z PASS 8			
1815/30	CLOUPZ PARI 9			
1818/20	CLOUP3 PASS		cell	
1825/12	comp 3 PASS	2 on rom	1de	. *

Lead Project Scientist Event Log

Date 9/30/93 Flight 930930 EL LPS Willin / Marks

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Time	Event	Position	Comments
1833/102	cloup 3 pass		9 HAROLL
1838/10	CLOUP 3 pass 9	narch ? 24/37,5 80 \$57	will try her cell on up
1848/92	CLOUP 3 pass 5	3 29 66.2 80/4	e, 108 PS
1856/30	CLOUD 3 pass 6	1 1	H06 226
1903/15	CLOUD 3 PASI 7	24 34.4 82 39	DISSAPATED \$ 175
	SONOR #2	NO WINDS	in take of rice
1950/50	1706 074	24/33.5 80/43.	1 1
2030/15	CLOUD 4 PASSI	23 46.5 78 6.6	Hel 189
2935/00	CLOUD 4 PAAZ	23 138,5 78/95	plen cap E to W
	ctout of pars 3	radar problem	staying out
2049/43	radar bach	up", no mayb	e not shill staying and
2102/15	cloud 4 pass 3	orbiting, w	auting for radar
	will go wit	h just z	C N/
2112/XX	cloud 5 pass 1	23/49.7 78/17.3	guile a ways above a
2122/25	cland 5 pass 2	- 23 57.2 28/19.9	chaping 5 site at dead
2124/33	clark 43 pase 3	23/46.4 78/12.1	way to right
428/18	cloud 4 par 4	23/200 78/11:	-
134/45	cloud & pass S	23/38.2 78/14.7	will go thru carlo of nor
2136/33	2nd cell	Ighting hit	Pras all
2150	PMI BAC	e up	
2153/56		1 2350,1 78/11	d)
-157/40		1 23 34.8 78/5.	
206/40	SLSONDE C Londed Mi	and -NW OF	comp storig
245/00	Loudee 1411		

Lead Project Scientist Event Log

Time	Event	Position	Comments
	and the second	is the	a da anna and
	140	New being an and	
		and the constraints	
		1	and Calebrand and
7.9	INSCREETED ?	2. 2	Contraction of the second s
		Karate and some	and have be
	and a second		1 and 1 and of 1
	atorias and	these adding	
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in the second	in the second		E same for home in the
		he series -	in a name
	· - //	and the second	
S. S.	alighting 5 mg		
		A CONTRACTOR	and the second second
			Annex and an and an and an
			Contraction of the second s
	rada colp	and a start	1 section and the

1911 1 25 14.6 78 / Sand

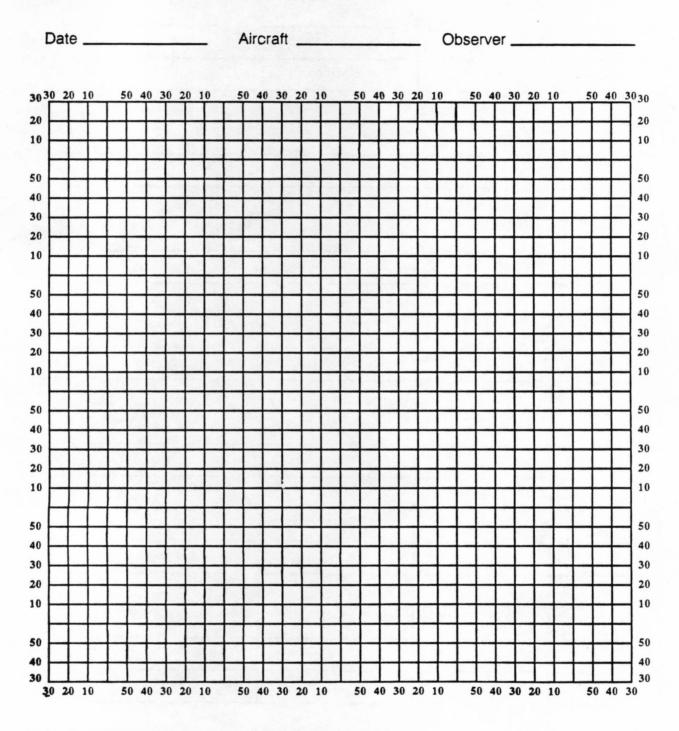
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Lead Project Scientist Event Log

			LPS
Time	Event	Position	Comments
a designed			
		2.4	
	in the second		
	*		

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes



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

CLOUDS AND CLIMATE FLIGHT PLAN

Objective: To document precipitation formation and development and electrification in a range classes of convective clouds growing in a range of environments (maritime, continental, low shear, high shear, etc.).

Where: Area A - within 120 n.mi. range of MIA, probably SE thru WSW.

Area B - SE Bahamas out islands (Exuma)

When: 27 - 30 Sep 17Z T/O from MIA with 6 hr duration from MIA

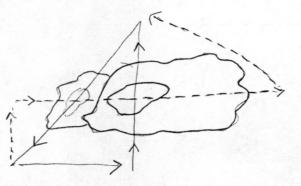
Flight Pattern:

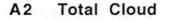
A. Single Aircraft - 43RF

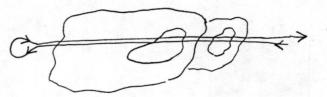
Cloud Penetrations at 100 to 210 Rainshaft Penetrations at 005-010 2 Dropwindsondes

> A1 Upshear New Cells









A3 Rainshafts

B. Two aircraft

43RF - high level Patterns A1 and A2 Warm rain - ice transition Electrical Development

42RF - low level Doppler and Z mapping Rainshafts Boundary Layer Fluxes - box or partial box.

B1 Radar Mapping Rainshafts Boundary Layer Flux Box

