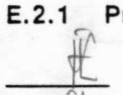
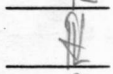
19890918I1-LPS

E.2 Lead Project Scientist (On-Board)

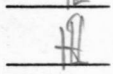
E.2.1 Preflight



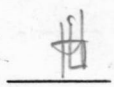
1. Participate in general mission briefing.



2. Determine specific mission and flight requirements for assigned aircraft.



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.



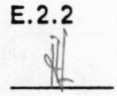
4. Contact HRD members of crew to:

   a. Assure availability for mission.
   b. Arrange ground transportation schedule when deployed.
   c. Determine equipment status.

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.

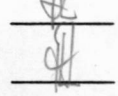
6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami or FGOC at remote recovery location).

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.

_____ 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 18SEP89 Aircraft N143RF Flight ID 890918I

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	WILLOUGHBY	Flight Director	PARRISH
Cloud Physics		Pilots	TURNER/PHILLIPSOHN
Radar	MARKS	Navigator	NOKUTS
Doppler	MARKS	Sys. Engr.	ROLES
Photographer		Data Tech.	RAIN
Omegasonde	MARKS	El. Tech.	LENA
AXBT/AXCP		Other	

Take-Off 18/1725 Location BARBADOS Landing Location

B. Past and Forecast Storm Locations

	Date/Time	Latitude	Longitude	MSLP	Max. Wind
FIX:	18/12	18.3	65.5	955	85 kt
	18/1412	18.3	65.9		
FCST	18/16	18.5	66.0		
	19/00	19.0	67.0		
	19/12	19.6	68.6		
	20/00	21.0	70.0		

C. Mission Briefing

RTB MIA. FLY MODIFIED FIG 4 IN HUGO N OF PUERTO RICO. ON THE WAY.

D. Equipment Status

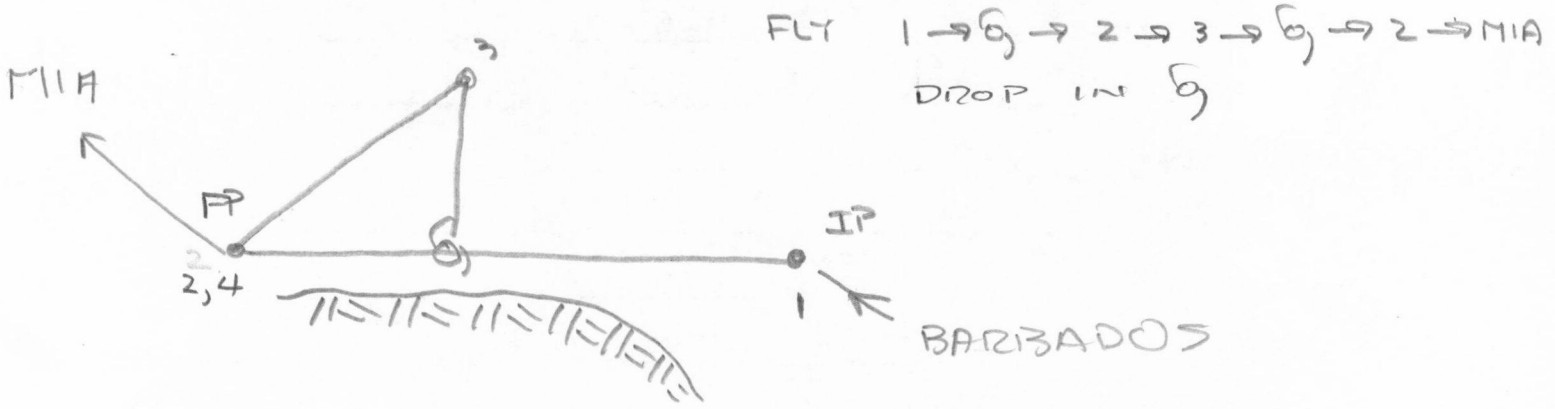
Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	↑	↑	
Radar	↑ (2)	↑	
Cloud physics	↑	↑	
Data system	↑	↑	
Omegasondes	↑	↑	
AXBT/AXCP	NO13	↑	
Doppler	↑	↑	
Photography	↑ (1)	↑	

REMARKS:

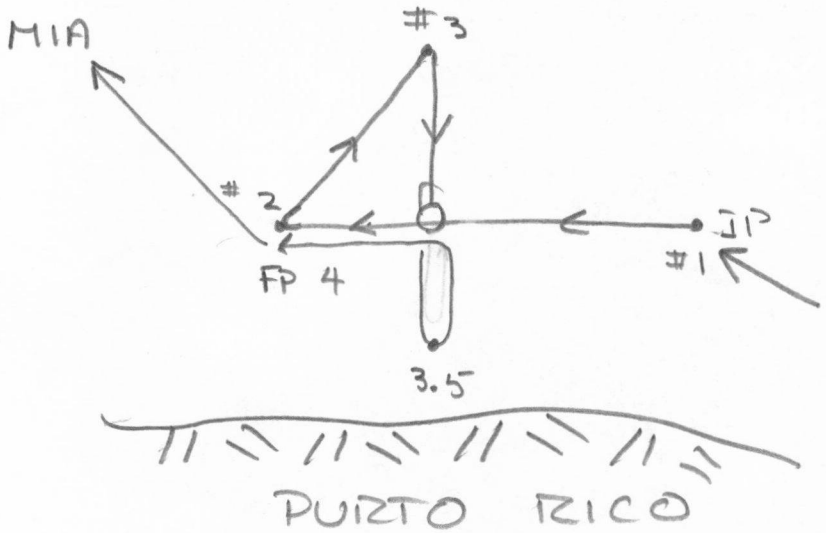
(1) NOSE CAM INOP

(2) TAIL RADAR FIXED SINCE LAST FLIGHT
MINOR SYNCHRO PROBLEMS TODAY

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



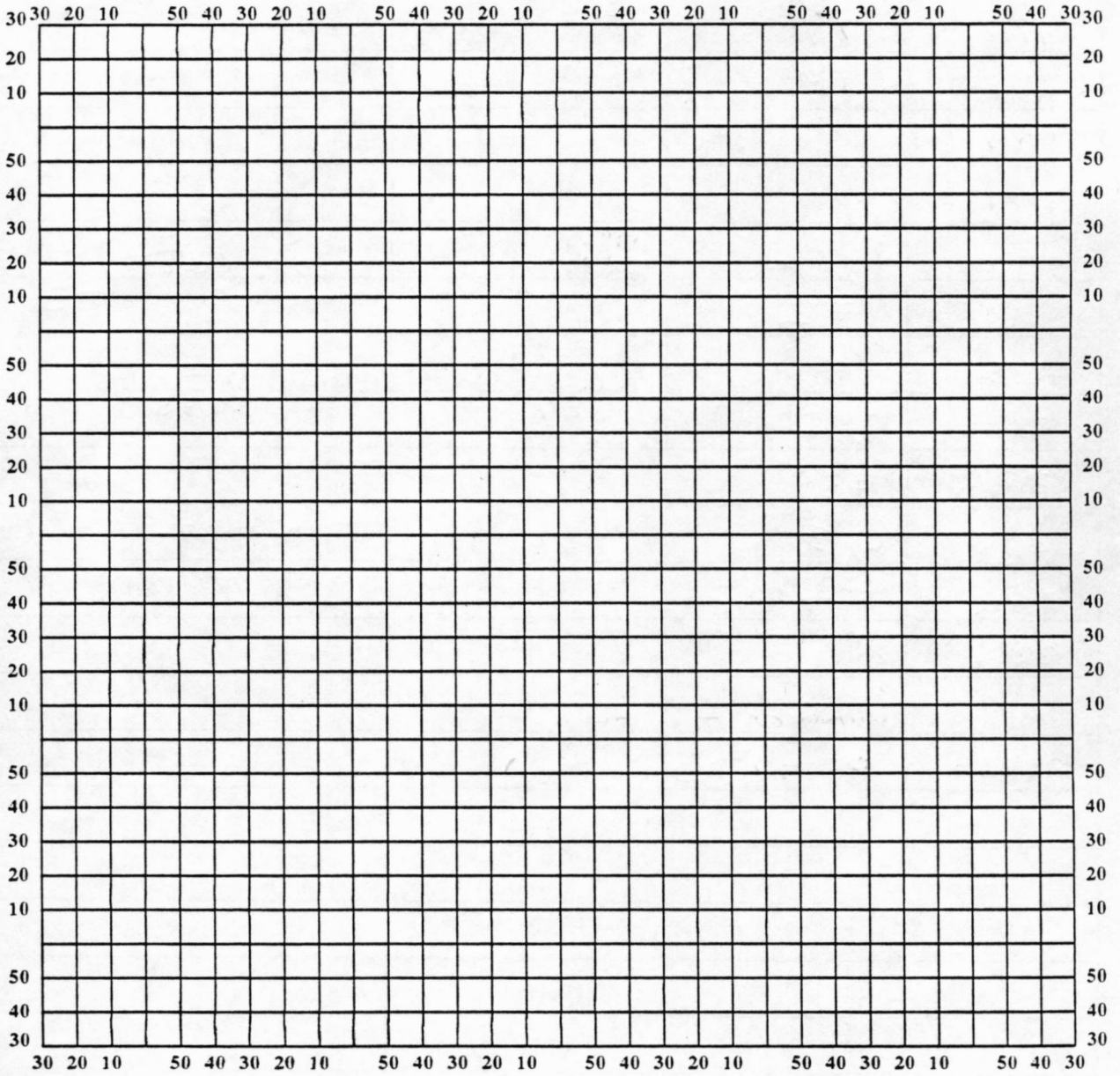
E. II. Actual Flight Pattern



Hurricane Recco Plotting Chart

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

Date_____ Longitude _____ Observer _____



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

Lead Project Scientist Event Log

Date 18SEP89 Flight 890918I LPS WILLOUGHBY

8+32

Time	Event	Position	Comments
18/1725	T/O	BARBADOS	
18/1905	IP, #1	18°33' 64°53'	TRAK 290 → G
1910			DOPPLER ELEVATION BAD.
1912			DOPPLER ↑ FAST TAPE STARTED
1928	G 1	19°11' 66°27'	TRAK 270 TO #2 DROP (GOOD)
1952	#2	19°13' 68°10	TRAK NE TO #3
2030	#3	20°50' 66°28'	OUTSIDE TURN TRAK S → G
2053	G 2	19 27 66 34	TRAK S → #3.5
2106	#3.5	18°47' 66°38'	TRAK N TO G
2117	G 3	19 32 66 33	TRAK W TO #4
2142	#4, FP	19°32 68°18	TRAK TO MIA
2202	STOPPED REC. RADAR		
2317	PASSED ~~CODE~~ WIND CALM	23.5 75.1	WIND NE BEHIND US, S OR SW AHEAD
0022	RECOVER	MIA	

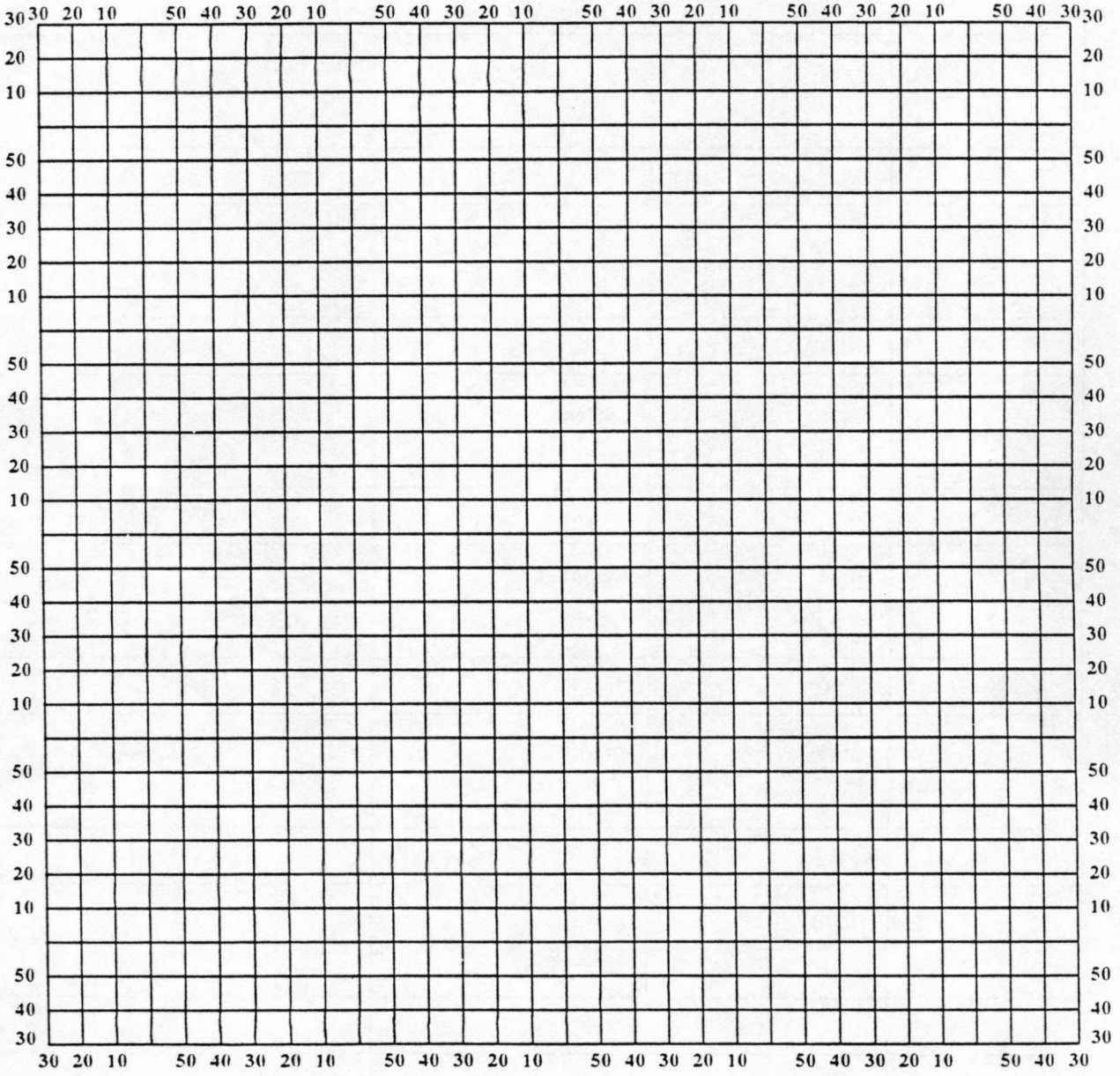
23
24
38
24

96 kt
960 mb

Hurricane Recco Plotting Chart

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

Date_____ Longitude _____ Observer _____



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

Lead Project Scientist Event Log

Date ________________ Flight ________________ LPS ________________

Time	Event	Position	Comments

890918 I

HUGO

FIX	18/12	18.3	65.5	85 kt 955 mb
FIX	18/1412	18.3	65.9	
FCST	18/162	18.5	66.0	
	19/00	19.0	67.0	
	19/12	19.9	68.6	
	20/00	21.0	70.0	

IRIS

FIX	18/12	14.3	55.3	37 kt
FCST	19/00	15.5	57.5	200 nmi NE OF BARBADOS
	19/12	17.0	59.5	230 nmi N OF BARBADOS
	20/00	18.0	61.0	
	20/12	19.0	62.5	
	21/12	20.5	65.5	

IP 18.5 64.5

FLY 1 → 6 → 2 → 3 → 6 → 2

DROP IN 6