19871012HI_LPS

E.2 Lead Project Scientist (On-board)

E.2.1 Preflight

1. Participate in general mission briefing. HA!
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~~ 60 OR SO 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. Determine next mission status, if any, and brief crews as necessary.

_____ 5. 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 Checklist

Date 12 OCT 87 Aircraft N42RF Flight ID 871012H1

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj Sci	WILLOUGHBY	Flight Direc	PARRISH /
Cloud Physics	—	Pilots	TURNER / MEYERS
Radar	DOPPLER	Navigator	SECTAN
Doppler	—	Sys Engr	JARVI
Photographer	—	Data Tech	LEVA
Omegasonde	—	El Tech	UNID
AXBT/AXCP	—	Other	

Take-Off 12/061026 Location MIA Landing 1854 Location MIA

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max Wind	
12/0810	23°23'	85°36	997	72KT	FIX
18Z	25.5	82.5			

C. Mission Briefing

FIXES, FIGURE 4s, T/O 12/10Z RECOVER MIA

D. Equipment Status

Equipment	Pre-Flt	In-Flt	Post-Flt
Aircraft	↑	↑	↑
Radar	↑ (1)	(3) ↓	↓
Cloud Physics	NOT OPERATED	–	
Data System	↑ (2)	↑	↑
Omegasondes	NOT OPERATED	–	
AXBT/AXCP	NOT OPERATED	–	
Doppler	NOT OPERATED	–	
Photography	↑	↑	↑

REMARKS:

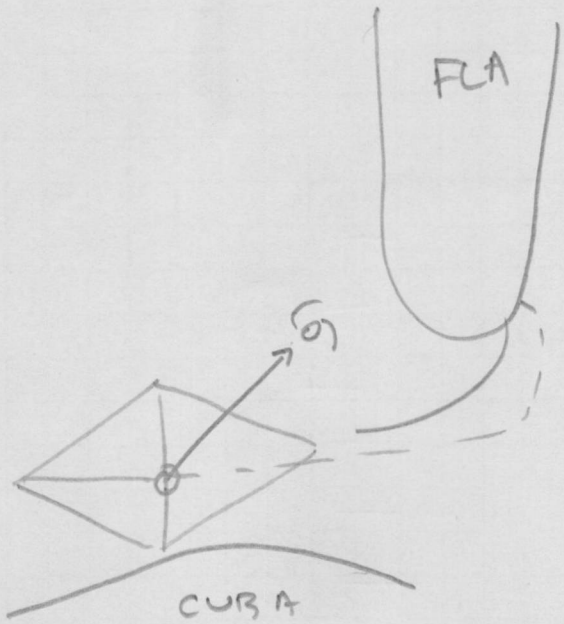
(1) L.F. RADAR FAILED LAST FLIGHT, SWAPPED R/T SHOULD BE AOK (WE HOPE)

(2) ASDL INOP LAST FLIGHT. REPAIRS ATTEMPTED BUT NOT CHECKED B4 FLIGHT CONF IN FLIGHT ASDL WORKING

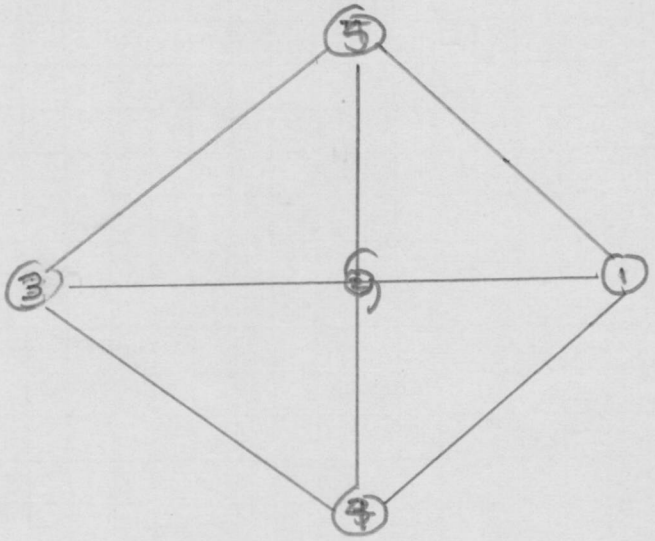
(3) LF RADAR INOP ON T/O, CAME UP ABOUT 1154Z. DRIVE 1 FLAKET, USING 2 ONLY 1216Z ↓ FOR GOOD. RECORDING ONLY TAIL

(5) ASDL INTERRUPTED EARLY IN FLT

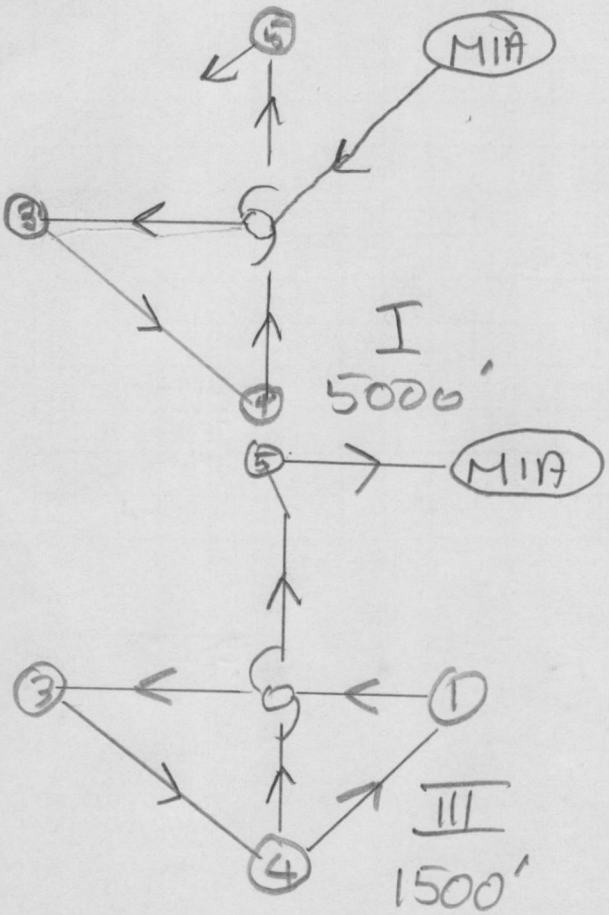
E.I. Proposed Flight Pattern (Sketch or designate by number)

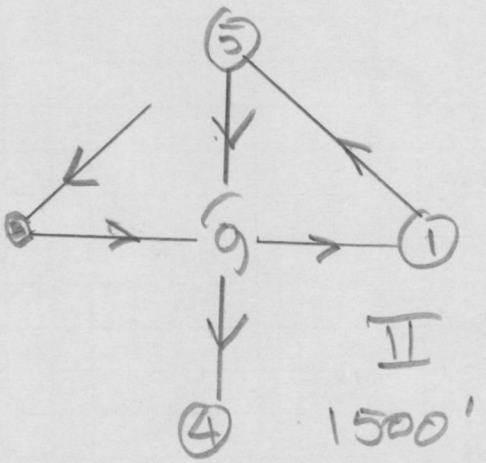


FLY AS UNTIL DONE



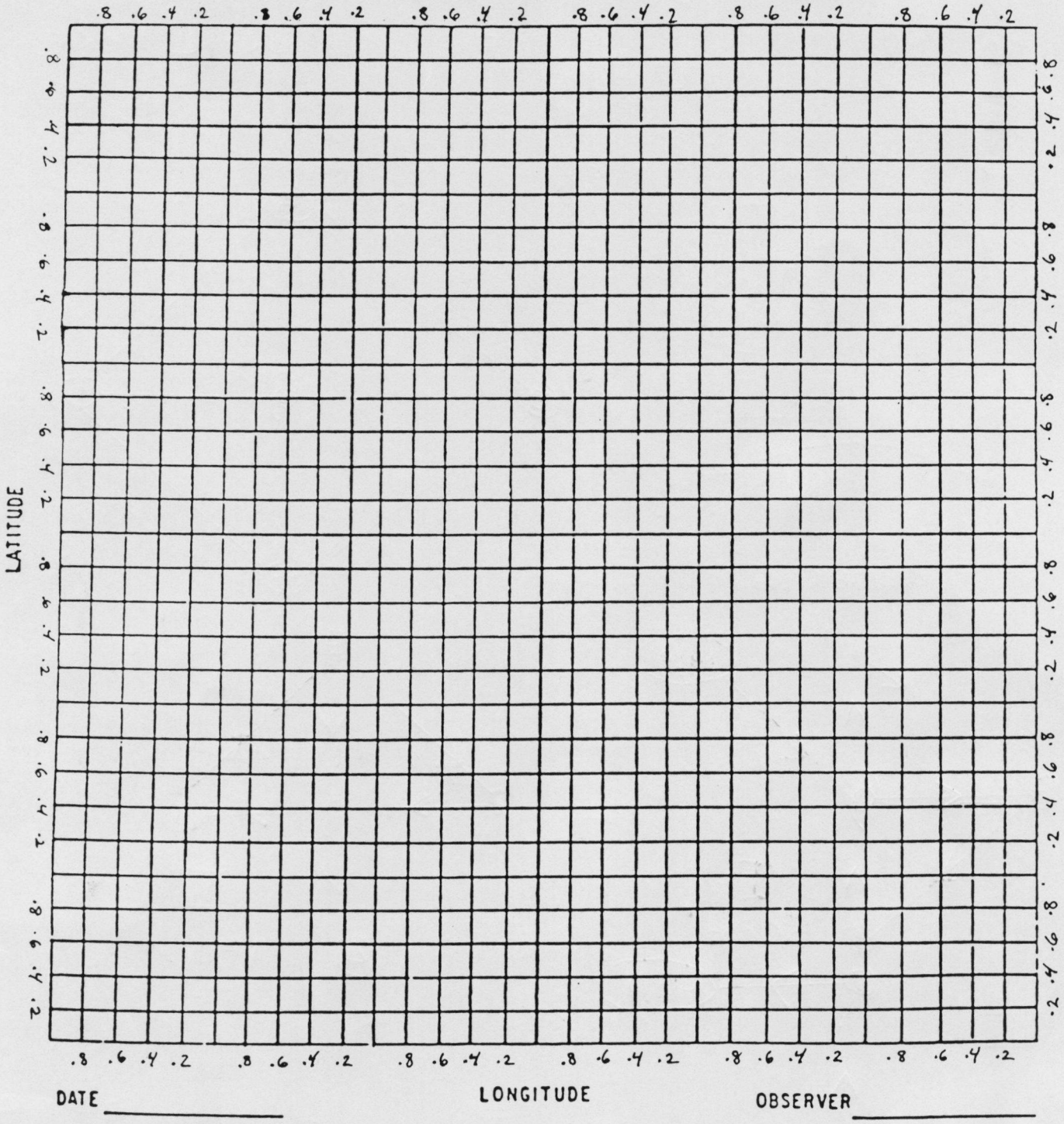
II. Actual Flight Pattern





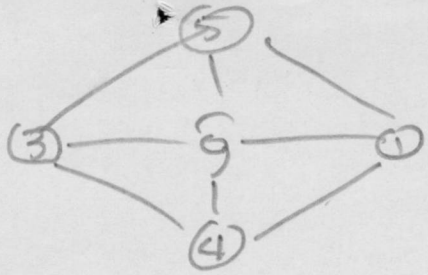
HURRICANE RECCO PLOTTING CHART

TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



DATE _____ OBSERVER _____

NOTE: Label full degrees according to location of flight area



Date 12 OCT 87 Flight 871012H LPS WILLOUGHBY

Lead Project Scientist Event Log

Time	Event	Position	Comments
12/1026	T/O	MIA	
12/1032	LF RADAR INOP		
12/1113			ASAL GETTING TO NHC
12/1118	(1)	23 53 82 56	SLP 993, TRAK → 270
1144	TURN	AT POINT 3	TRAK SE → POINT 4 (SEE SKETCH)
1154	L.F. RADAR ↑		
1207	TURN (4)		TRAK N → 9
1218	(2)	23-52 82-48	MIN SLP 994
1246	POINT (5)		DESCEND TO 1500' TRAK SW → (3)
1314	POINT (3)		TRAK E → 9
1346	(3)	24-14 82-18	MIN SLP 994 TRAK E → (1)
1416	POINT (1)		TRAK NW → (5)
1452	POINT (5)	24	TRAK S → 5
1516	(4)	24-28 82-17	SLP 994
1529	POINT (4)		TRAK NE → (1)
1558	POINT (1)		TRAK W → 6
1626	(5)	24-30 81-49	994 MB SLP TRAK W → (3)
1656	POINT (3)		TRAK 120 → (4)
1729	POINT (4)		TRAK N → 6
1752	(6)	24-45 SLP 993 81-19	TRAK N → (5)
1825	(5)	NEAR FORT MEYERS	TRAK E → MIA
1854	RECOVER	MIA	

3/151 20'3

KEY WEST REPORTS WIND 42 KT SUSTAINED G65

Date________________ Flight ______________ LPS______________

Lead Project Scientist Event Log

Time	Event	Position	Comments