19880916H2-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. 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.

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Form E-2
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On-Board Lead Project Scientist Check List

Date 16 SEPTEMBER 1988 Aircraft NOAA 42 Flight ID 88091602

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	BURPEE	Flight Director	PARRISH
Cloud Physics	NA	Pilots	EILERS, LEYDEN
Radar	GAMACHE	Navigator	NOKUTIS
Doppler		Sys. Engr.	JARVI,
Photographer	NA	Data Tech.	THOMPSON
Omegasonde	BURPEE	El. Tech.	
AXBT/AXCP	NA	Other	

Take-Off 1530 Z Location MIA Landing 0033Z Location MSY New Orleans

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
16/18Z	24.3N	96.8W	tentative	IP
16/1851Z	23°58'N	97°5'W	954	115 Kts
~~16/1882~~	~~24.3~~	~~96.8~~	~~tentative IP~~	
16/1932Z	23°59'N	97°11'W		85 Kts
16/2114Z	24°7'N	97°30'W	955	97 Kts
16/2239Z	24°19'N	97°55'W	estimated from radar - no penetration	

C. Mission Briefing

Recon - Hurricane Gilbert - figure four patterns - the center of Gilbert will be near the coast - will attempt to maximize coverage on the west side

D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	✓	✓	✓
Radar	✓	*	✓
Cloud physics	NA	NA	NA
Data system	✓	✓	✓
Omegasondes	✓	✓	✓
AXBT/AXCP	NA	NA	NA
Doppler **	✓ ?	✓ ?	✓ ?
Photography	NA	NA	NA

REMARKS:

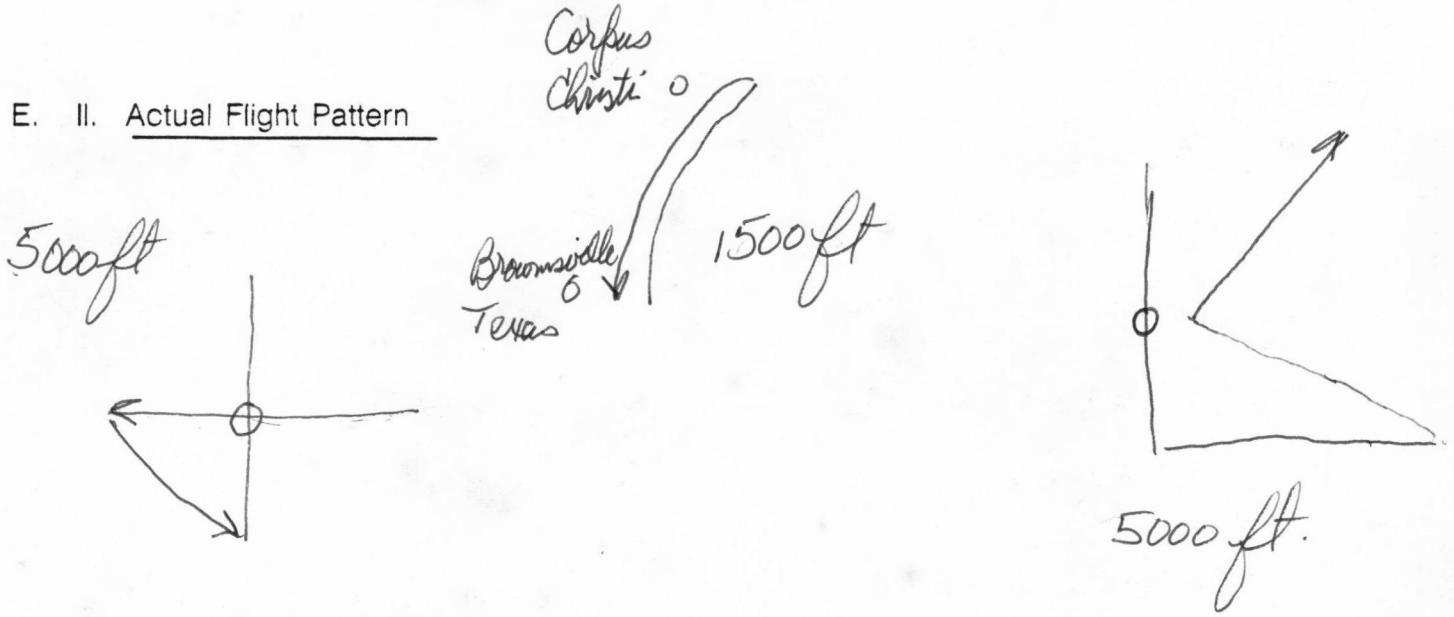
* The RT for the lower fuselage radar failed enroute to the storm - there was no spare RT on the plane

The radar data system had a few problems that may have affected data recording

** Doppler recorded, but it appeared to be incoherent, data were recorded while in the storm core

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

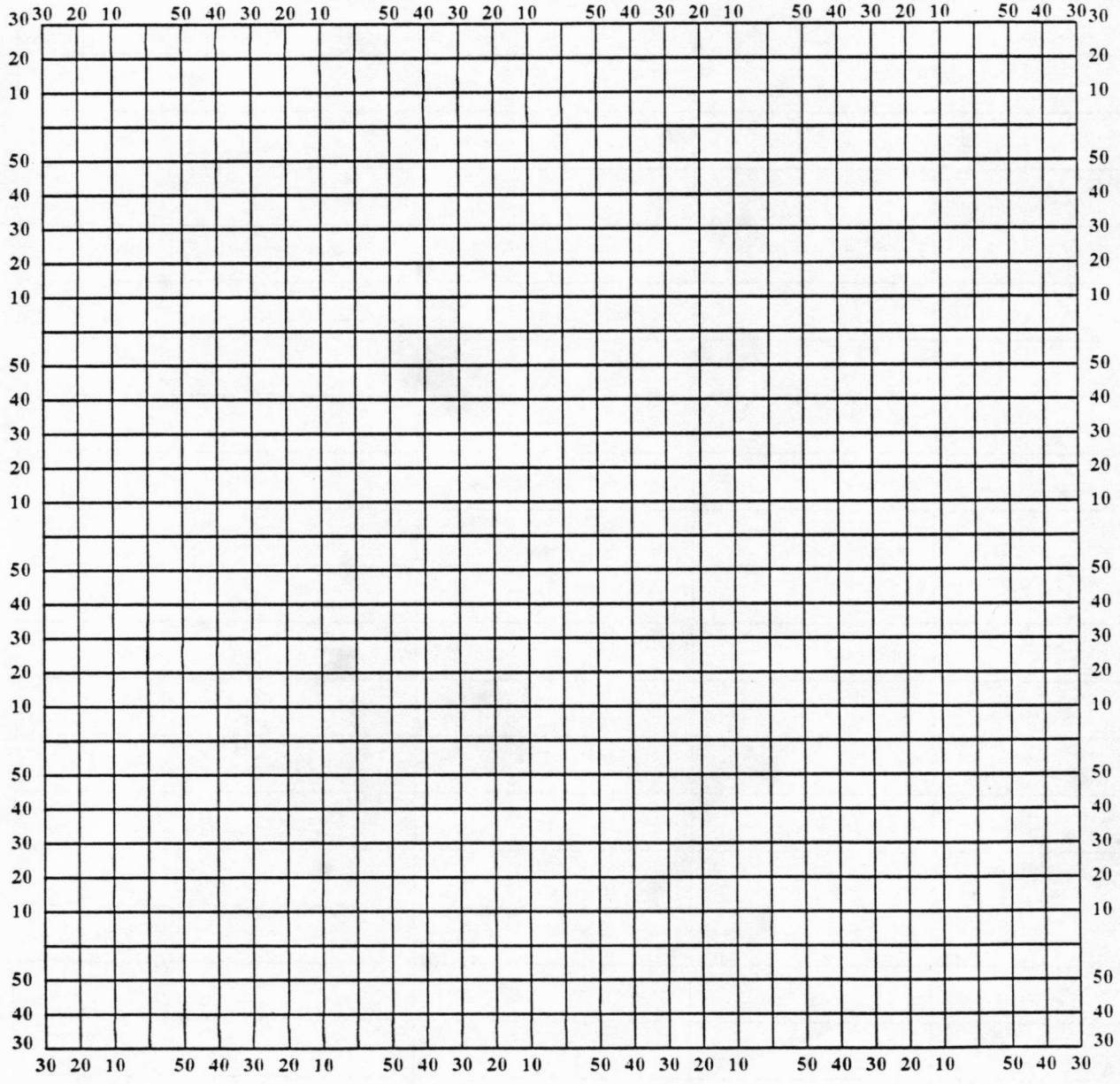
E. II. Actual Flight Pattern



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 ________________ Flight ________________ LPS ________________

Time	Event	Position	Comments