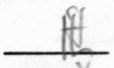
19900627JI-LPS

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 AOC flight director/meteorologist and CARCAH unless briefed otherwise by field program director.

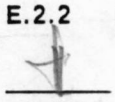
4. Contact HRD members of crew to:

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

5. Meet with AOC 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).

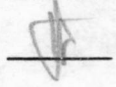
E.2.2 In-Flight



1. Confirm from AOC flight director that satellite data link is operative (information).

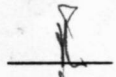
2. Confirm camera mode of operation.

3. Confirm data recording rate.

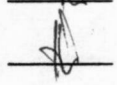


4. Complete Form E-2.

E.2.3 Postflight



1. Debrief scientific crew.

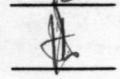


2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).

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 AOC flight director.]

4. 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.

434-1580
305-5

Form E-2
Page 1 of 5

On-Board Lead Project Scientist Check List

Date 27AUG90 Aircraft N43RF Flight ID 90082TT

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	WILLOUGHBY	Flight Director	PARRISH
Cloud Physics	GAMACHE	Pilots	TURNER-PHILPSBORN
Radar	MBLACK	Navigator	WHITE
Workstation		Sys. Engr.	GOLDSTEIN
Photographer		Data Tech.	LYNCH
Omegasonde		El. Tech.	LIND
AXBT/AXCP		Other	MCPADDEN

Take-Off	Location	Landing	Location

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind

C. Mission Briefing

FLY ROTATING FOUR AT 5Kft

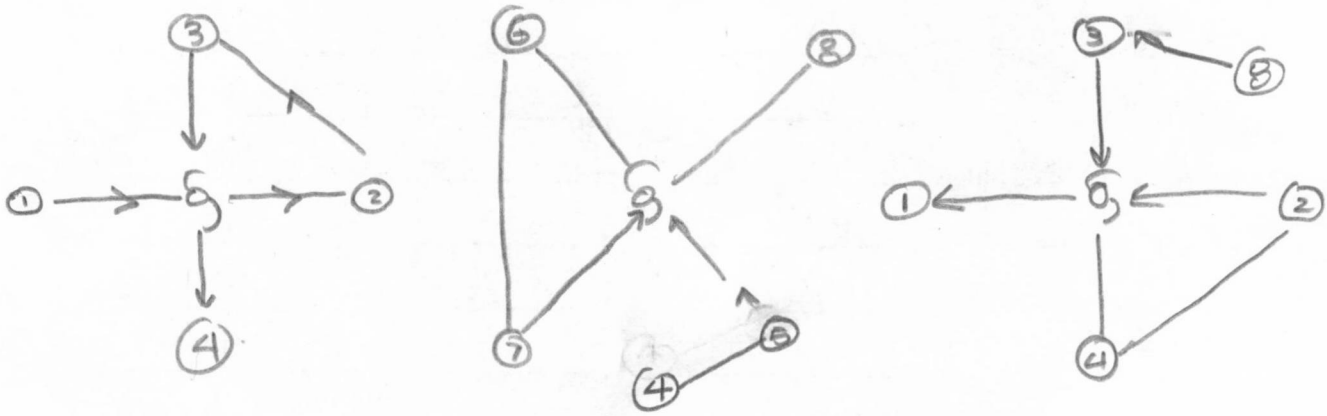
D. Equipment Status

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

REMARKS:

(1) LF & TA RADAR ↓ 1733 TO 1756

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



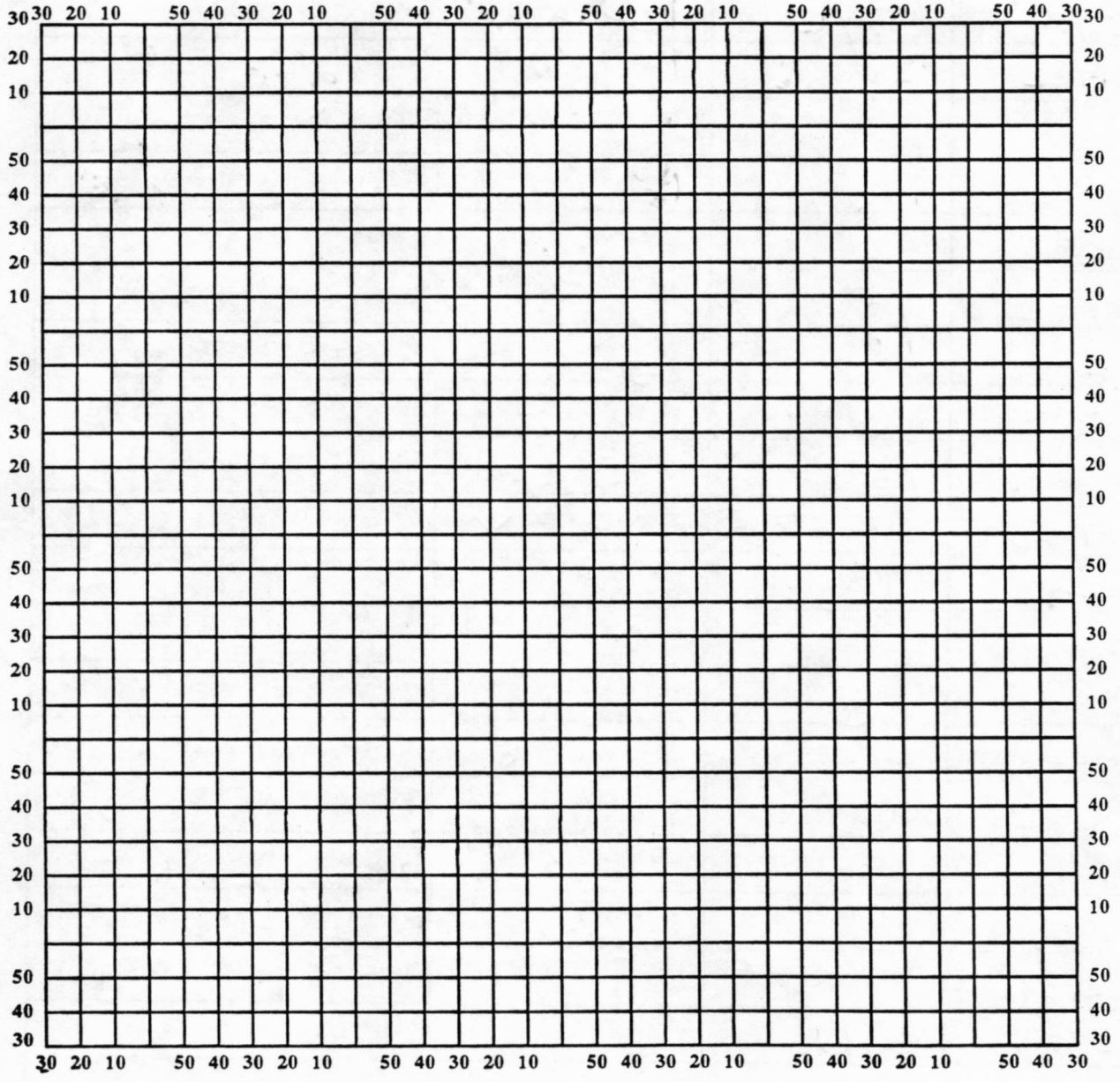
5 kft

E. II. Actual Flight Pattern

Hurricane Recco Plotting Chart

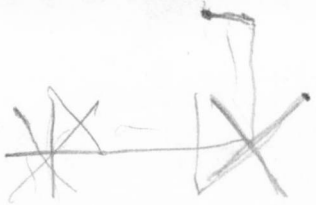
True at 25° Latitude, in Degrees and Minutes

Date _____ Aircraft _____ Observer _____



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

Form E-2
Page 5 of 5



16 44
57 59
N/S 19.2
59.6

Lead Project Scientist Event Log

Date 27AUG90 Flight 900827I LPS WILLOUGHBY

Time	Event	Position	Comments
27/1331	T/O	SJU	
1452	EYE ON RADAR	16°41' 60°23'	MAKING SLO DESCENT TO 5Kft
1456	AT 5Kft	16°39' 60°10'	TRAK E → 9
1529	9	16 49 59 05	TRAK W → (2) 966 SLP
1552	(2)	16°48' 56°40'	TRAK NW → (3)
1620	(3)	18°19' 58°07'	TRAK S → 9
1642	9	16°57 58°08'	TRAK S → (4)
1704	(4)	17°32' 58°03'	TRAK ENE → (5)
1719	(5)	15°57' 57°05'	TRAK NNW → 9
1733	SCIENTIFIC	RADAR ↓	
1742	9	17°09' 58°07'	TRAK NNW → (6)
1756	RADARS	↑	
1804	(6)	18°16' 59°13'	TRACK S TO 7
NEED TO	DIVERT AFTER POINT 8		FOR SHIP IN DISTRESS
1832	(7)	16°09' 59°12'	TRACK NE TO 9
1856	9	17°18' 58°10'	TRACK NE TO 8 965 SLP
1919	(8)	19°17' 57°07'	COMMENCE SAR DIVERSION
2137	SAR EFFORT FINISHED NO JOY		
2303	SJU		

3h 8m

7 - 2 = 5

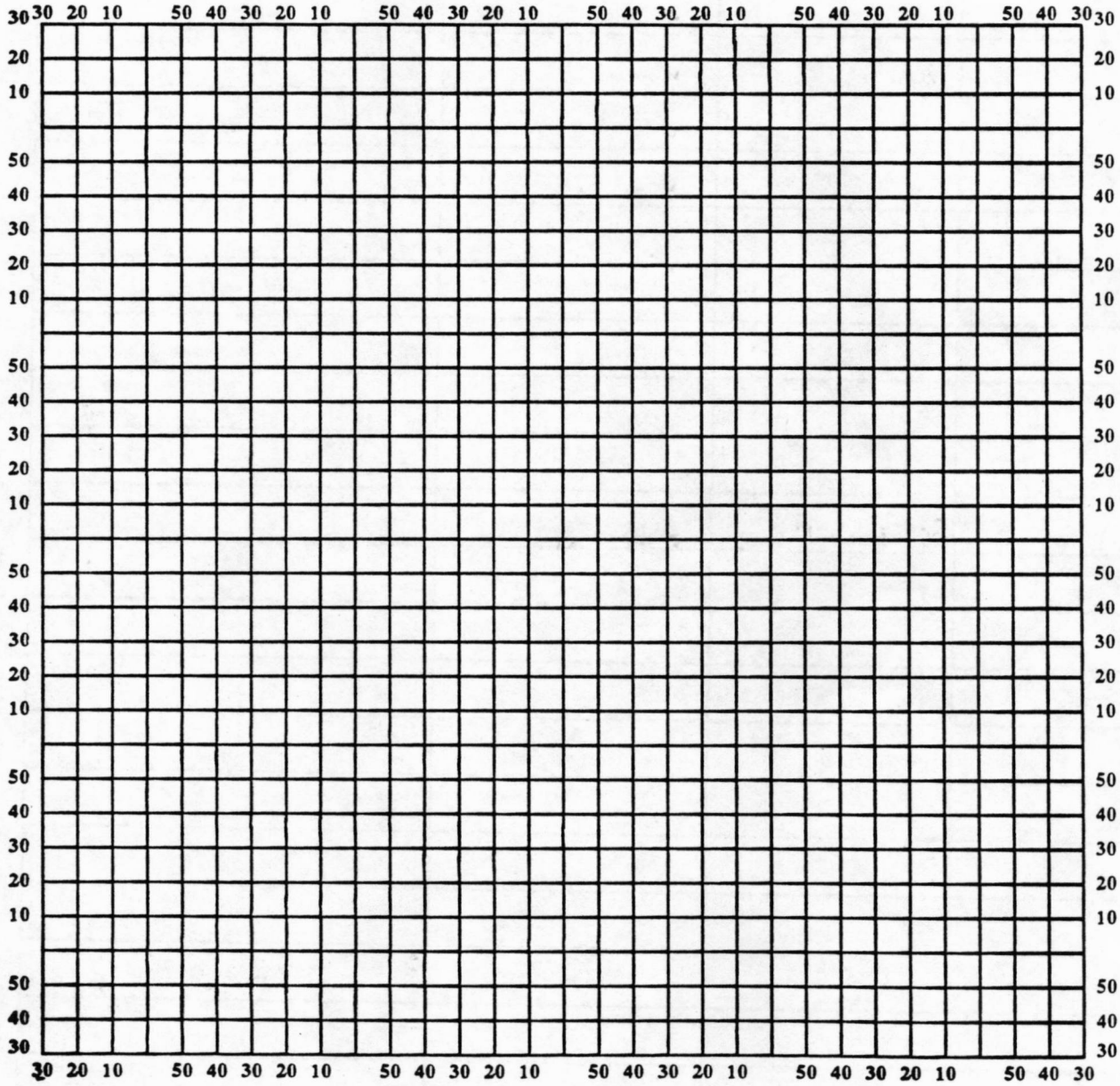
500 ⟌ 35000

ETD 21m 12s

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Date _____ Aircraft _____ Observer _____



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

Lead Project Scientist Event Log

Date _____ Flight _____ LPS _____

Time	Event	Position	Comments