

1589092111-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.

On-Board Lead Project Scientist Check List

Date 21SEP89 Aircraft N431ZF Flight ID 890921I

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	<u>WILLOUGHBY</u>	Flight Director	<u>DARRISH</u>
Cloud Physics	<u>HALL</u>	Pilots	<u>PHILLIPS BORN / TICENICOR</u>
Radar	<u>DOERST</u>	Navigator	<u>SECTAN</u>
Doppler		Sys. Engr.	<u>ROLES</u>
Photographer		Data Tech.	<u>LYNCH</u>
Omegasonde		El. Tech.	<u>GONZALES</u>
AXB/AXCP		Other	

Take-Off	Location <u>MIA</u>	Landing	Location
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B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
<u>21/1600 ADV</u> <u>21/16</u>	<u>29.5</u>	<u>77.0</u>		
<u>22/00</u>	<u>31.3</u>	<u>78.8</u>		
<u>22/12</u>	<u>34.2</u>	<u>81.3</u>		
<u>23/00</u>	<u>37.7</u>	<u>79.5</u>		
<u>23/12</u>	<u>42.0</u>	<u>57.0</u>		

C. Mission Briefing

FLY FIS 43 10 kft (or so). GET 21
00, 03 FIXES

D. Equipment Status

<u>Equipment</u>	<u>Pre-Flight</u>	<u>In-Flight</u>	<u>Post-Flight</u>
Aircraft	↑ ①	↑	↑
Radar	↑	↑	↑
Cloud physics	↑	↑	↑
Data system	↑	↑	↑
Omegasondes	↑	↑	↑
AXBT/AXCP	NO3	↑	
Doppler	↑	↑	↑
Photography	↑	↑	↑

REMARKS:

① FUEL LEAK DELAYED T/O TO > 21 Z

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

SEE ATTACHED SHEET

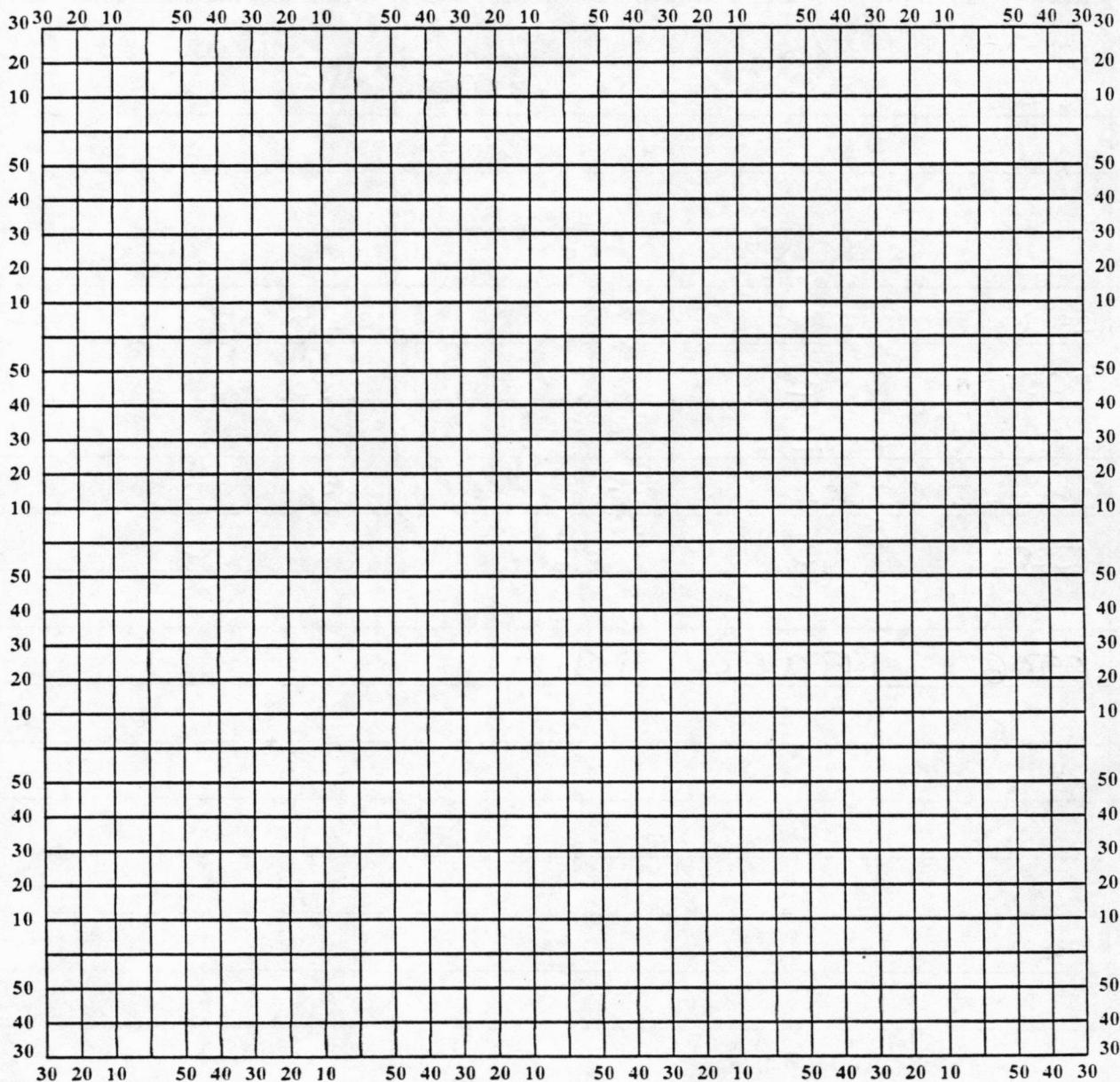
E. II. Actual Flight Pattern

FLEW TRIANGLES N AND W OF 9 WITH
A FINAL NE-SW TRAVERSE JUST
BEFORE LANDFALL.

Hurricane Recco Plotting Chart

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

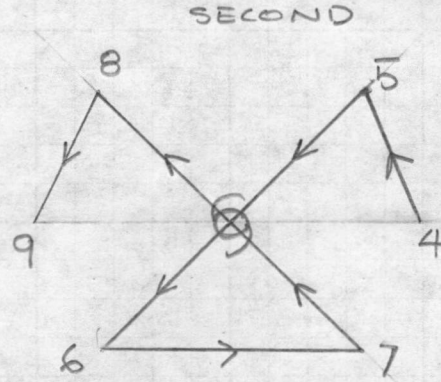
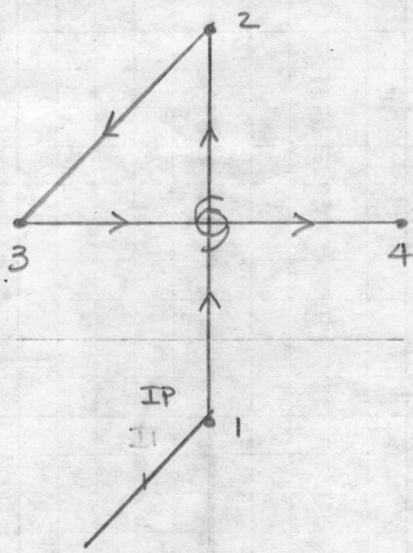
Date _____ Longitude _____ Observer _____



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

Lead Project Scientist Event Log

IP 28 78 1/2 6 30 78 1/2 @ 2030Z
 DIST → IP 200 nmi
 FP 30 FIRST
 SECOND



DROP 1st, 3rd, 6th 6
 AT FIX TIME

$$L(12 + 5 \times \sqrt{2}) = 19.1L = 2000 \text{ nmi}$$

FP 30 80 DIST MIA = 250

