

OCEANIC Cu

9/29/89

19890929JI - 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.

29-11PSP0P8P1

On-Board Lead Project Scientist Check List

Date 9/29/89 Aircraft 43RF Flight ID 890929I1

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Willis</u>	Flight Director	<u>Domiano</u>
Cloud Physics	<u>Hallett/Dorst</u>	Pilots	<u>Turner, Loxley</u>
Radar	<u>Dodge</u>	Navigator	<u>Mike Henderson</u>
Doppler	<u>M. Black</u>	Sys. Engr.	<u>Jim Rolfe</u>
Photographer	<u>M. Black</u>	Data Tech.	
Omegasonde	<u>M. Black</u>	El. Tech.	
AXBT/AXCP	<u> </u>	Other	

Take-Off	Location	Landing	Location
<u>1643/56</u>	<u>N/A</u>	<u>2147/58</u>	<u>N/A</u>

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

C. Mission Briefing

Fly to area between Andros and Exuma
select clouds, follow cloud top up
from 140 to 210, penetrate 200m below
cloud top.

D. Equipment Status

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

REMARKS:

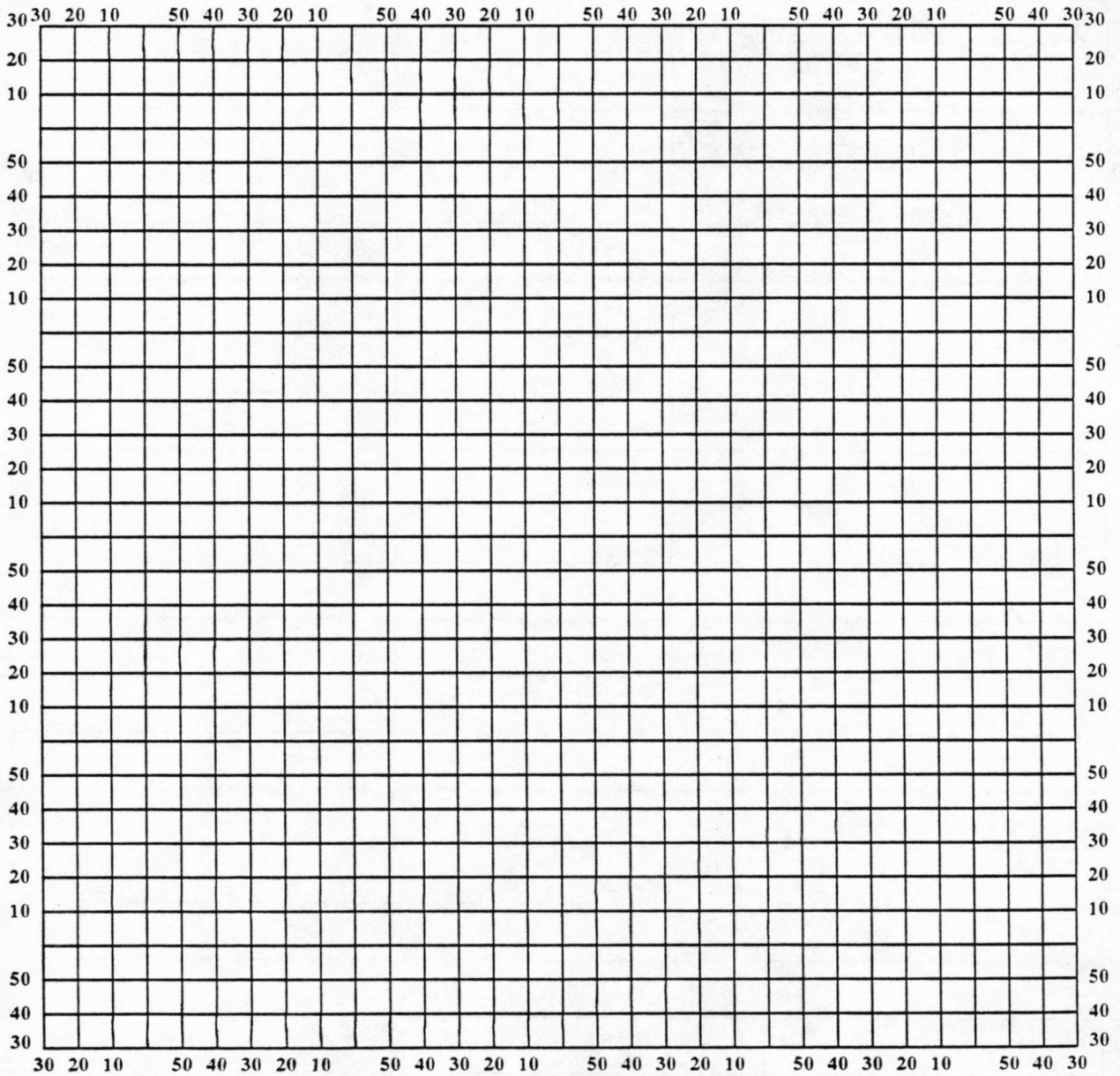
E. I. Proposed Flight Pattern (sketch or designate by number)

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

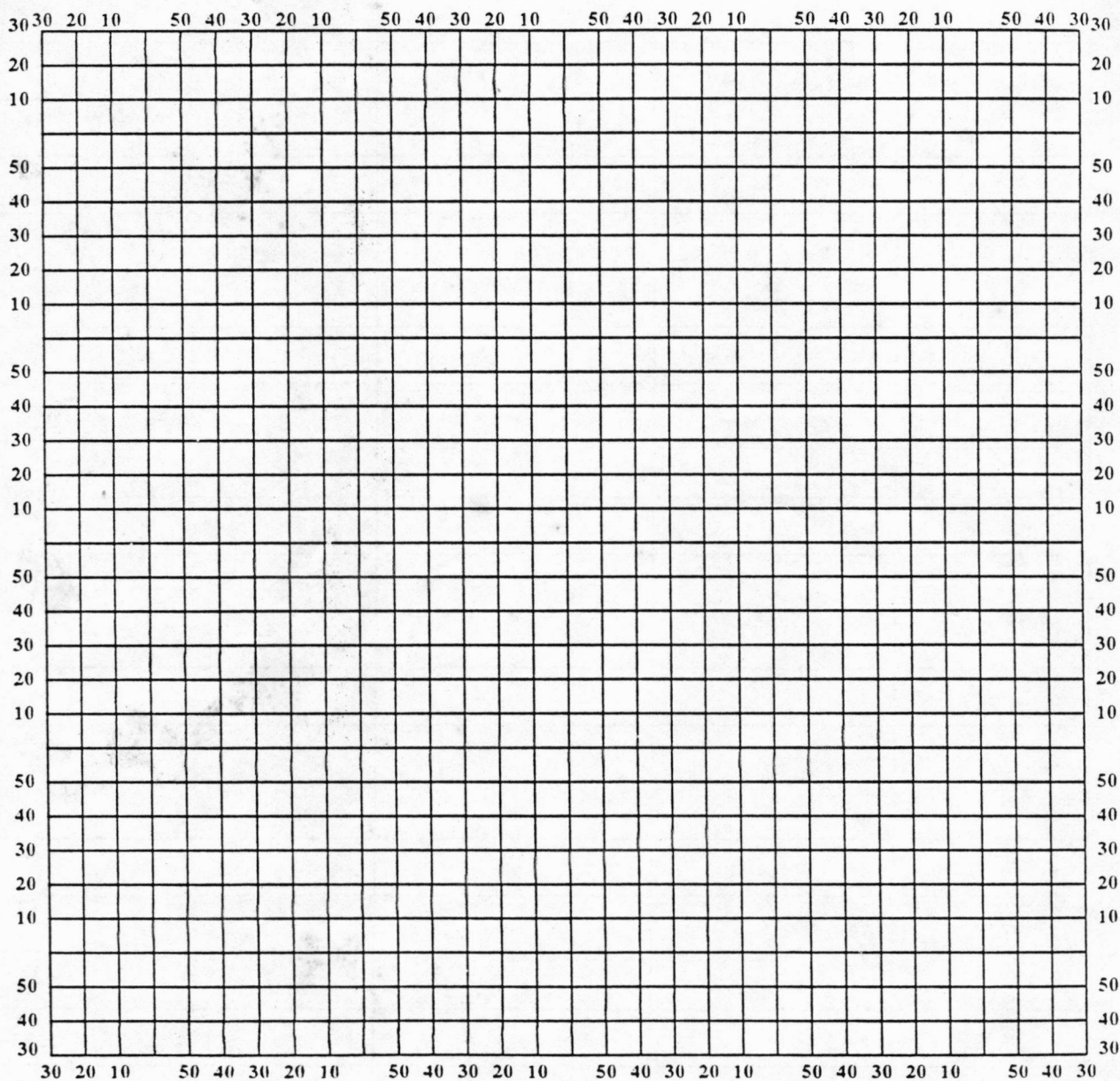
Date 9/29/89 Flight 890929II LPS Willis

[illegible]

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 9/29/89 Flight 890929 I1 LPS Willis

Time	Event	Position	Comments
1643/56	T/O	25/48.0/80/17.9	100/15
1800	down flat line	clouds all below us	23/38.3 74/18.8
1806/38	2nd pass down line	H06 087	5.9°C
1816/04	cloud 1 pass 1		Fuzzing out now good warm rain cloud
1820/00	cloud 1 pass 2		top
1825/47	cloud 1 pass 3		
1827/00	DOING FIGURE 4	AND WILL COME THRU CLOUD	
1829/47	new bubble on N side	cloud 1 pass 4	
1833/37	cloud 1 pass 5		
	cloud 1 pass 6		
1840	cloud 1 pass 7		
1848/49	cloud 1 pass 8		
1853/35	cloud 1 pass 9	23 39.3 74/42.1	Will go to another cloud now
1918/25	cloud 2 pass 1	at +0.1 °C	H06 152
1925/45	cloud 2 pass 2	climbing	22 46.1/74 18.1
	skirting next cloud		
1933/50	cloud 3 pass 1		
1940/40	cloud 3 pass 2	new turret	
1944/45	cloud 3 pass 3	H06 180	
1952/26	cloud 3 pass 4		
1955/52	cloud 3 pass 5	H06 008	22 50.6/74 22.8

sonde 5554 2255.6 74/1.0
2010/00 523.1 099/16 -24/-13.2

TEMP NO GOOD

1500 ft
above