

14810911 H2-LPS

E.1 Lead Project Scientist (On-Board)

The on-board lead project scientist is responsible for carrying out the scientific mission of his assigned aircraft. (Check off and initial when completed.)

E.1.1 Preflight

- FE 1. Participate in general mission briefing.
- FE 2. Determine specific mission and flight pattern(s) for his aircraft.
- FE 3. Determine operational fix responsibility, if any. Discuss with RFC flight director/meteorologist and CARCAH, unless briefed otherwise by field program director.
- FE 4. Contact NHRL members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- FE 5. Provide supplementary briefing to specific crew.
- _____ 6. Report status of aircraft, systems and crews to appropriate NHRL operations center.

E.1.2 In-Flight

- FE 1. Confirm from RFC flight director/meteorologist that satellite data link is operative (information).
- FE 2. Confirm camera mode of operation.
- FE 3. Confirm data recording rate.
- FE 4. Complete form E-1.

E.1.3 Postflight

1. Debrief crew.
2. Report landing time, aircraft, crew and mission status to NHRL operations center.
3. Gather completed forms for mission and turn in at the operations center.
4. Determine next mission status, if any, and brief crews as necessary.
5. Notify operations center as to where you can be contacted.

16°C OUT 1586
50 KT SE

CALL DETC

On-board Lead Project Scientist Checklist

DATE 12 SEP 81

AIRCRAFT 42

FLT 810912 H2

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci. ①	<u>WILLOUGHBY</u>	Gust Probe	
Cloud Physics ②	<u>WILLIS</u>	Omegasonde	
AXBT		Sys Eng	
Hot Film		Data Tech	<u>PARADIS</u>
Radar ③④	<u>GRIFFIN/MARKS</u>	EI Tech	<u>GOLDSTEIN</u>
Flt Dir/Met	<u>HAYDU</u>	Other PILOTS	<u>GUNNOE/KENZINGER</u>
OBSERVERS ⑤⑥	<u>ZIPSER & BARNES</u>	NAV	<u>NIELSON</u>
Take Off 122155	Location <u>MIA</u>	Landing 130743	Location <u>MIA</u>

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP	
<u>11</u>	<u>0909</u>	<u>28° 10'</u>	<u>72° 35'</u>	<u>994/</u>	
<u>11</u>	<u>1202</u>	<u>28° 50'</u>	<u>72° 07'</u>	<u>996/75</u>	
<u>11</u>	<u>1515</u>	<u>29° 41'</u>	<u>71° 20'</u>	<u>994/75</u>	C 25 OPSE
<u>11</u>	<u>1806</u>	<u>30.25</u>	<u>70.44</u>	<u>990/85</u>	C 25
FCST <u>12</u>	<u>00</u>	<u>30.8</u>	<u>69.8</u>		
<u>12</u>	<u>12</u>	<u>32.5</u>	<u>65.5</u>		

C. Mission Briefing

FLY LTM ~~X~~ THEN EITHER ~~X~~ OR A GET 00, 03, 06 FIXES

INITIAL 31, 69.5
FINAL 31.5, 67.5

1311 GERT

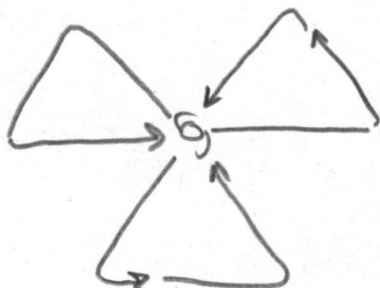
0451

D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	↑	↑		
Radar	↑ NOSE, LF, TAIL	↑		
Cloud Physics	↑	↑		
Data Sys	↑	↑		
Omegasondes	NOB			
AXBT	NOB			
Gust Probe	NOB			
Hot Film	NOB			
Photography	↑			

REMARKS

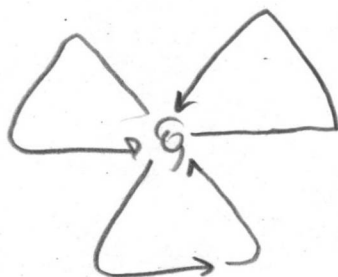
E. Proposed and Actual Flight Patterns



ENTER STORM AT PT 2
DO ONE COMPLETE PATTERN
THEN TRUNCATED AND
RTB.

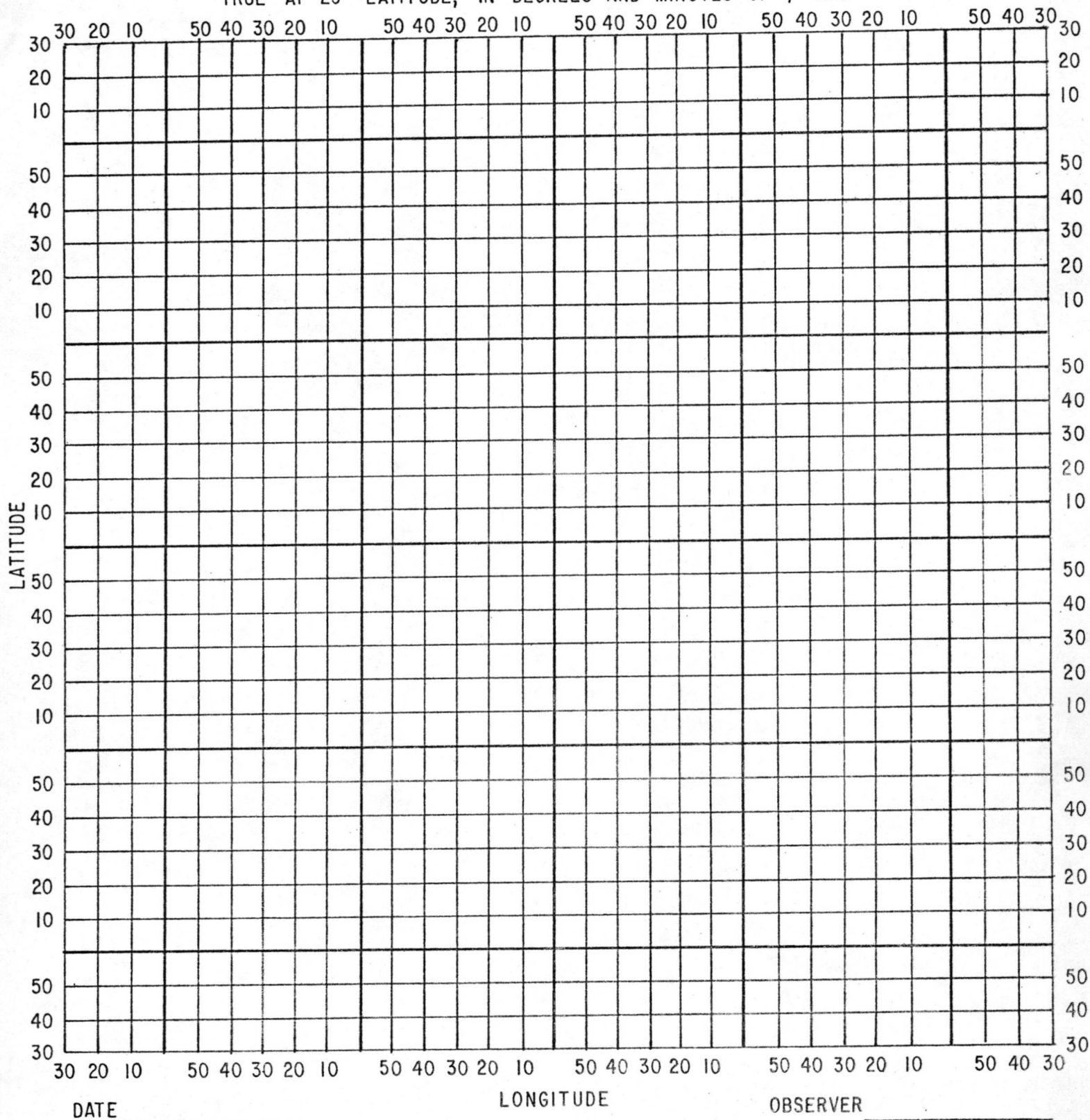
INTEND TO PENETRATE AT 10000' THEN SPIRAL
DOWN TO 5000' AND BEGIN PATTERN

ACTUAL



HURRICANE RECCO PLOTTING CHART

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



NOTE: Label full degrees according to location of flight area

DATE 12 SEP 81

FLIGHT 810912H2

LPS WILLOUGHBY

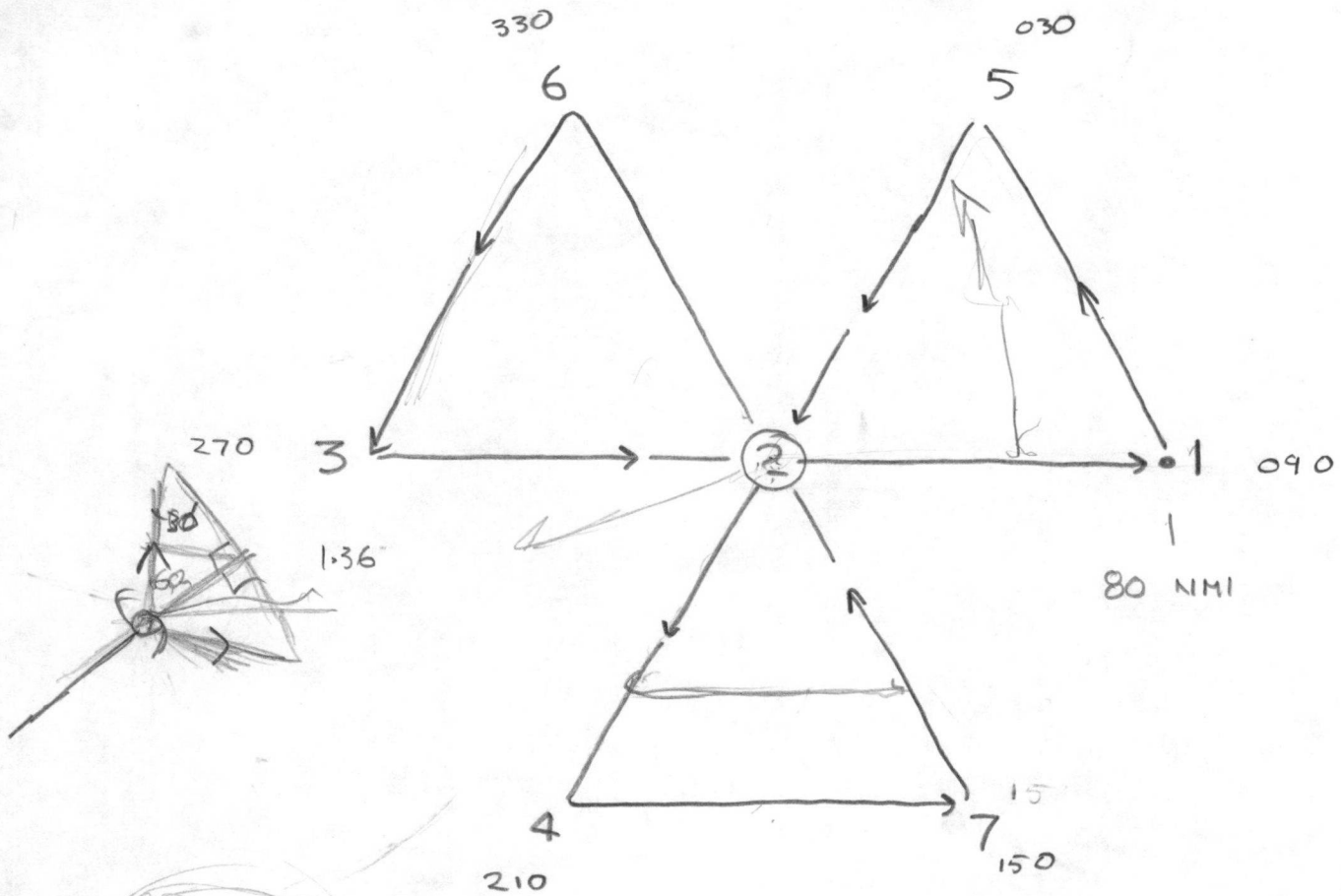
Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
122155	TAKOFF	MIAMI	
2349	EYE ON RADAR		
2359	START DESC. TO 5000'	30.67 71.02	EYE 70 NM AHEAD
130005		30.94 70.46	LEVEL 1500M
0020	(2)	31.40 (24.9) 69.53 (28.9)	989 m TRACIC 090 FOR 1
0025	1		90 KT INSIDE EYE
00425	1	31-42 67.69	TURN NW TO 5
0102	5	32.73 68.50	TURN SW TO (2)
0123	(2)	31.56 69.37	989 MIN SLP HEAD FOR 4
0144	POINT 4	30.37 70.11	HEAD FOR 7 WIND 279/15.6, TK 090
0147	START CAL		TRACIC 135 WIND 274/14.6 TK 135
0150			TK 045 WIND 270/13.6
0154			TK 135 WIND 266/15.2
0157	END CAL		TK 090 WIND 253/15.4
0207	POINT 5	30.38 68.47	TURN BACK TO 2
0230	POINT (2)	31.75 69.19	991 MIN SLP HEAD FOR 6
0249	POINT 3		TURN FOR 3
0254	START CAL		78/7.4 TK 260
0256			50.5/8.2 TK 170
0301			23.4/8.1 TK 260

*Log times of all significant altitude changes, turns, and eye fixes

**New altitude, heading, center position, etc.

LONG-TERM MONITORING EXP



FOR P-3 REQUIRES 3 HR

2015 30.68 NW 70.35 988, 40 EIS

$$\begin{array}{r} 40 \\ -15 \\ \hline 35 \end{array} \quad 32 \quad \begin{array}{r} 9 \\ 6 \\ \hline 96 \end{array}$$



DATE 12 SEP 81

FLIGHT 81091242

LPS WILL LOUGH 134

Lead Project Scientist Event Log

[illegible]

*Log times of all significant altitude changes, turns, and eye fixes

**New altitude, heading, center position, etc.

FLIGHT_____

LPS_____

Lead Project Scientist Event Log

[illegible]

*Log times of all significant altitude changes, turns, and eye fixes
 **New altitude, heading, center position, etc.

**New altitude, heading, center position, etc.