

On-board Lead Project Scientist Checklist

DATE 10 Oct 84 AIRCRAFT 43RF FLT 841010I1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Willis</u>	Gust Probe	<u>—————</u>
Cloud Physics	<u>—————</u>	Omegasonde	<u>Burpee / Mark</u>
AXBT / AXCP	<u>—————</u>	Sys Eng	<u>Schriber / Zyske</u>
Hot Film	<u>—————</u>	Data Tech	<u>Goldstein</u>
Radar	<u>Dorck</u>	EI Tech	<u>—————</u>
Flt Dir/Met	<u>Dorby</u>	Other	<u>—————</u>
Take Off <u>1859/44</u>	Location <u>MIA</u>	Landing	Location <u>MIA</u>

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>10 Oct</u>	<u>12Z</u>	<u>27.5</u>	<u>72.6</u>	<u>971?</u>
<u>11 Oct</u>	<u>00Z</u>	<u>28.5</u>	<u>73.1</u>	<u>—————</u>
<u>—————</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>
<u>—————</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>
<u>—————</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>	<u>—————</u>

C. Mission Briefing

Dropwindsonde Mission as outlined
on attached sheet.

D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	☒	☐	☐	☐
Radar	☒	☐	☐	☐
Cloud Physics	☐	☐	☐	☐
Data Sys	☒	☐	☐	☐
Omegasondes	☒	☐	☐	☐
AXBT/AXCP	☐	☐	☐	☐
Gust Probe	☐	☐	☐	☐
Hot Film	☐	☐	☐	☐
Photography	☒ <i>see</i>	☐	☐	☐
☐	☐	☐	☐	☐
☐	☐	☐	☐	☐

E. Proposed and Actual Flight Patterns (Identify by number and type - give reason for modification)

see attachment

19841010Z1-LPS

E.1 Lead Project Scientist (On-Board)

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

E.1.1 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.
none
- ☒ 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.

E.1.2 In-Flight

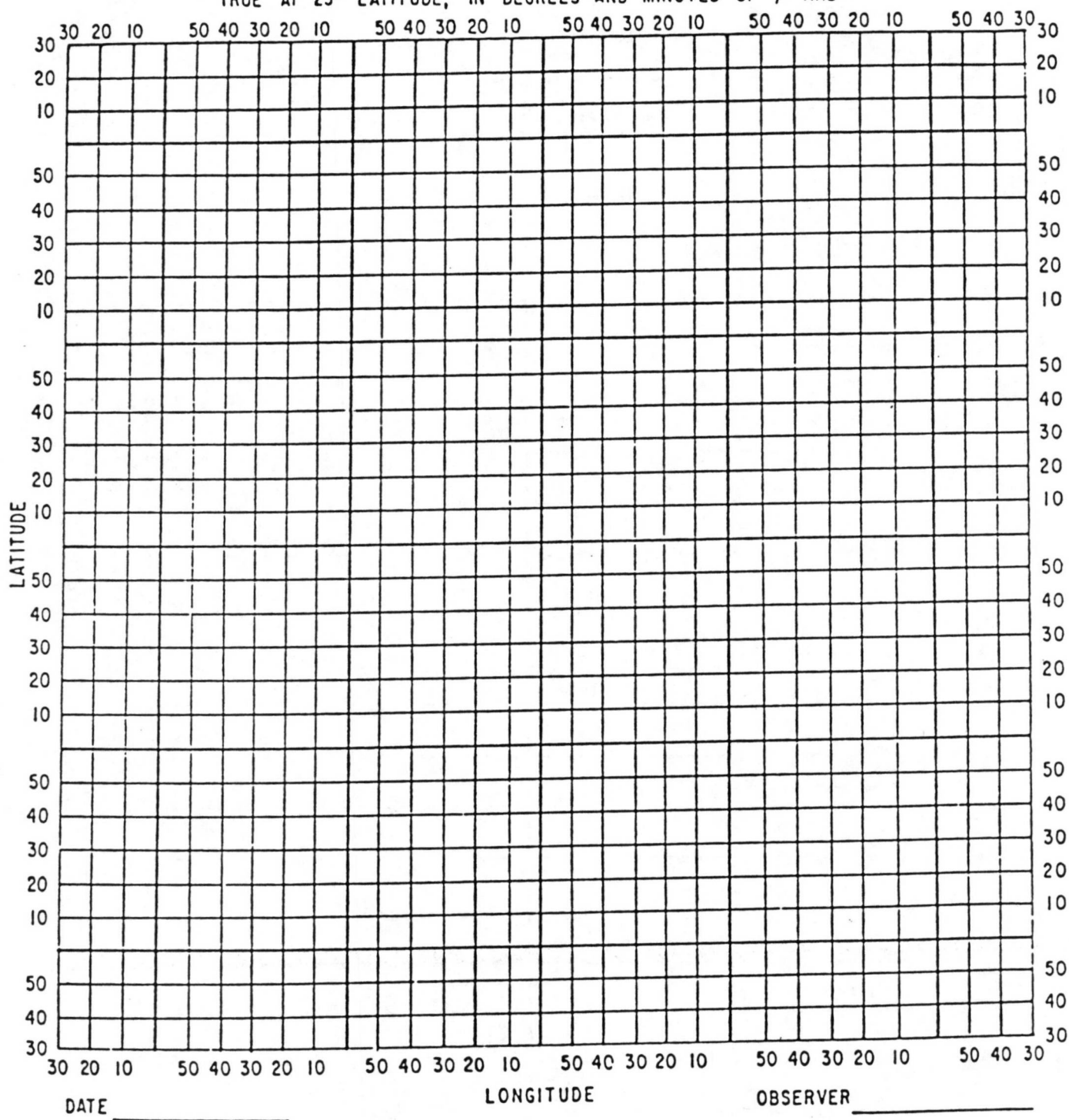
- ☒ 1. Confirm from OAO flight director/meteorologist that satellite data link is operative (information).
- Suc*
☒ 2. Confirm camera mode of operation.
- ☒ 3. Confirm data recording rate.
- ☒ 4. Complete form E-1.

E.1.3 Postflight

- ✓ 1. Debrief scientific crew.
- ✓ 2. Report landing time, aircraft, crew and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to HRD 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 and arrange for any further coordination required.

HURRICANE RECCO PLOTTING CHART

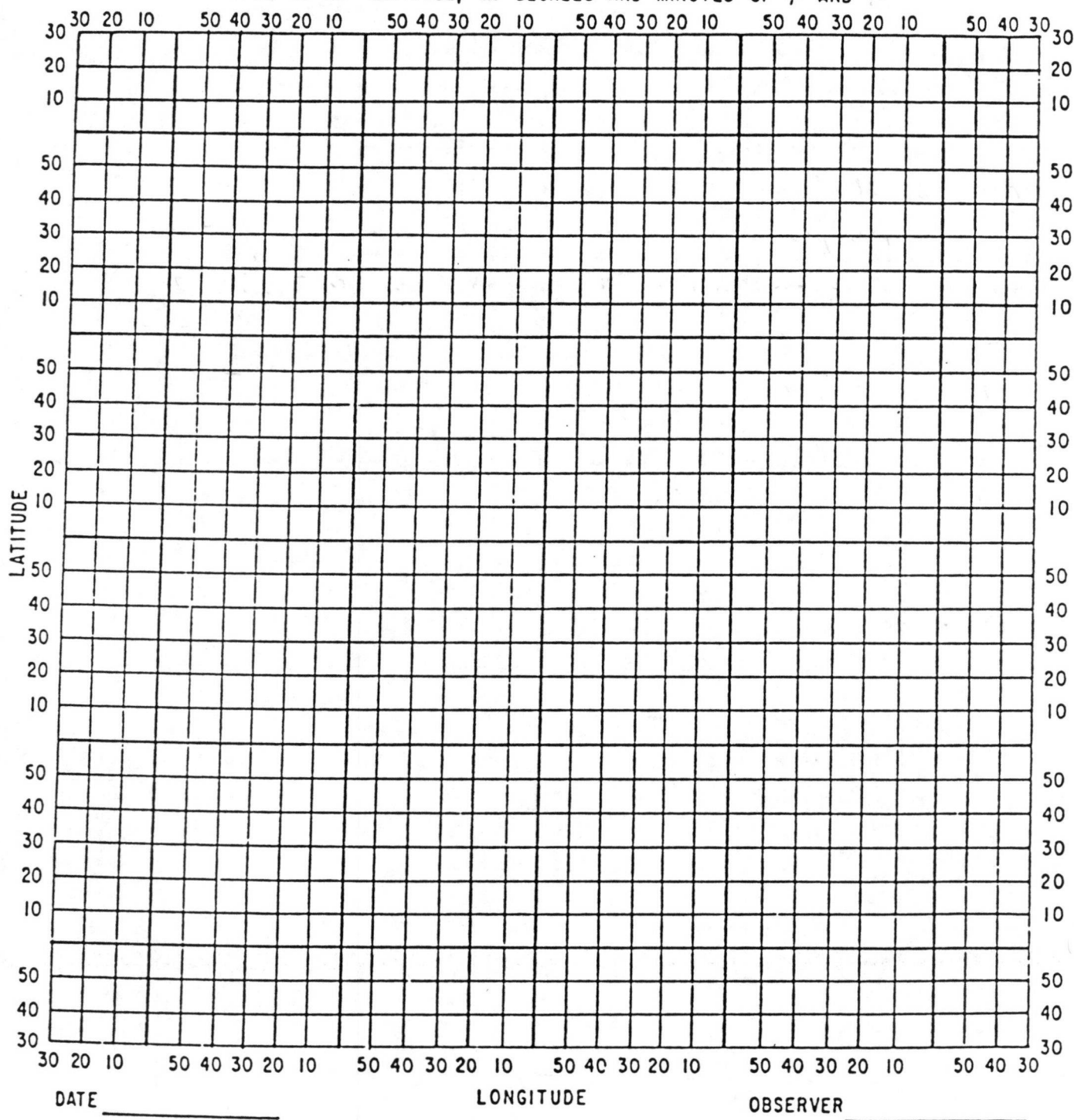
TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



NOTE: Lobe: full degrees according to location of flight area

HURRICANE RECCO PLOTTING CHART

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



NOTE: Lobe: full degrees according to location of flight area

DATE 841010I

FLIGHT Josephine

LPS Willis

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
TAXI 1850 T/O	1850 1859/04	MIA	
#1	1946/45	28.24 78.44	340/10.3 524.3 $\frac{-4.9}{-16.4}$ 5479
#2	2009/12	28.20N 76.45W	349/14.2 525.0 $\frac{-3.9}{-16.5}$ 5452
#3	2026/00	27.31 75.21	325/18.3 525.3 $\frac{-2.6}{-15.9}$ 5433
#4	2042/18	26.38 73.98	305/23.5 525.6 $\frac{-3.5}{-9.8}$ 5419
#5	2059/25	25.46 72.70	272/19.7 483.5 $\frac{-6.7}{-18.0}$ 6094
#6	2116/55	29.50 71.45	261/14 483.9 $\frac{-7.4}{-18.8}$ 6107
X #7	2129/25	29.49 70.26	263/14.2 484.1 $\frac{-7.5}{-19.6}$ 6109 Steamer good PTH
#8	2143/41	29.57 68.99	260/8.4 484.3 $\frac{-8.5}{-19.9}$ 6107
#9	2157/58	25.73 68.98	239/12.4 484.6 $\frac{-7.6}{-19.6}$ 6102
#10	2212/30	26.95 68.99	211/13.4 482.7 $\frac{-7.6}{-19.9}$ 6117
#11	2227/59	28.26 68.89	210/17.2 482.9 $\frac{-8.4}{-19.0}$ 6111
#12	2248/40	28.26 66.90	205/16.6 482.9 $\frac{-10.4}{-18.1}$ 6138
#13	2309/25	28.15 65.04	180/11.0 483.1 $\frac{-10.4}{-13.5}$ 6145
#14	2328/23	26.97 66.01	185/9.0 443.9 $\frac{-14.4}{-19.0}$ 6782
#15	2348/05	25.76 66.91	250/9.0 425.0 $\frac{-15.2}{-24.4}$ 7111
#16	0005/20	24.64 65.96	246/11 425.1 $\frac{-16.3}{-21.8}$ 7122
#17	0023/50	23.44 65.09	220/10 425.3 $\frac{-14.9}{-24.7}$ 7130
#18	0053/44	22.00 67.01	210/10 425.4 $\frac{-15.1}{-24.5}$ 7132
#19	0113/44	22.00 68.8	250/08 390.6 $\frac{-19.8}{-27.7}$ 7768

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

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

DATE 8/10/02

FLIGHT Josephine

LPS Will. 3

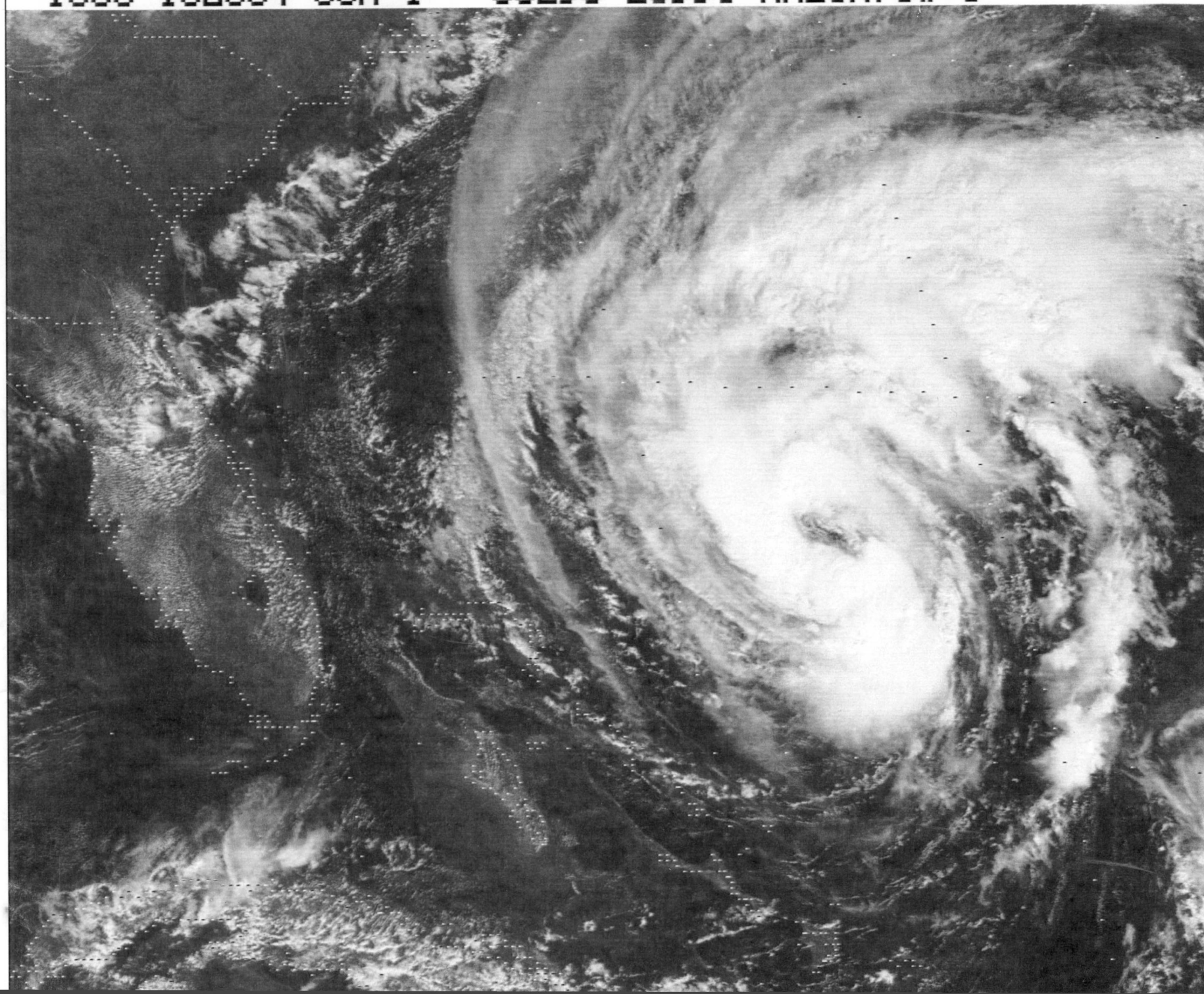
Lead Project Scientist Event Log

[illegible]

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

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

1530 100C84 38A-1 03296 25991 MA28N76W-1



10 October

synoptic flow exp

43

MIA

1. 27.5 N 78.5 W
2. 27.5 N 76.5 W
3. 24.5 N 71.5 W
4. 24.5 N 69.0 W
5. 27.5 N 69.0 W
6. 27.5 N 65.0 W
7. 25.5 N 67.0 W
8. 23.5 N 65.0 W
9. 22.0 N 67.0 W
10. 22.0 N 74.0 W
11. 23.5 N 78.5 W

MIA

42

ORF

1. 37.0 N, 67.0 W
2. 34.5 N, 67.0 W
3. 34.5 N, 75.0 W
4. 32.2 N, 78.0 W
5. 32.2 N, 67.0 W
6. 30.5 N, 67.0 W
7. 30.5 N, 78.5 W
8. CHS, JAX, or ??

if the 43 flight track is short, I would like
turn points 5 and 6 moved slightly
northward.

Bob

