

19841009II-LPS

Form E-1
Page 1 of 5

On-board Lead Project Scientist Checklist

DATE 9 Oct 84

AIRCRAFT 43 RF

FLT 841009II

A. Participants

Josephine

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Willis</u>	Gust Probe	<u>N/A</u>
Cloud Physics	<u>N/A</u>	Omegasonde	<u>Borpee / Marker</u>
AXBT / AXCP	<u>N/A</u>	Sys Eng	<u>Schricker / Zysko</u>
Hot Film	<u>N/A</u>	Data Tech	<u>Goldstein</u>
Radar	<u>Dorst / Marker</u>	EI Tech	<u></u>
Flt Dir/Met	<u>Darby /</u>	Other	<u></u>

Take Off 1858

Location MIA

Landing 0403

Location MIA

25.82
-80.27

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>10/09</u>	<u>05 Z</u>	<u>29.7 N</u>	<u>72.2 W</u>	<u>994 mb</u>
<u></u>	<u>00 Z</u>	<u>25.5</u>	<u>71.8</u>	<u>992</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

SL Dropwindsonde pattern as briefed - see enclosure

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	N/ON	—	—	—
Data Sys	✓	✓	✓	✓
Omegasondes	✓	✓	✓	✓
AXBT/AXCP	—	—	✓	—
Gust Probe	—	—	—	—
Hot Film	—	—	—	—
Photography	✓ 5 sec	?	✓	—
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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

see attached sheet, (chart)

Flown as proposed except for bad sonde

841009II

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.
- ☒ 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

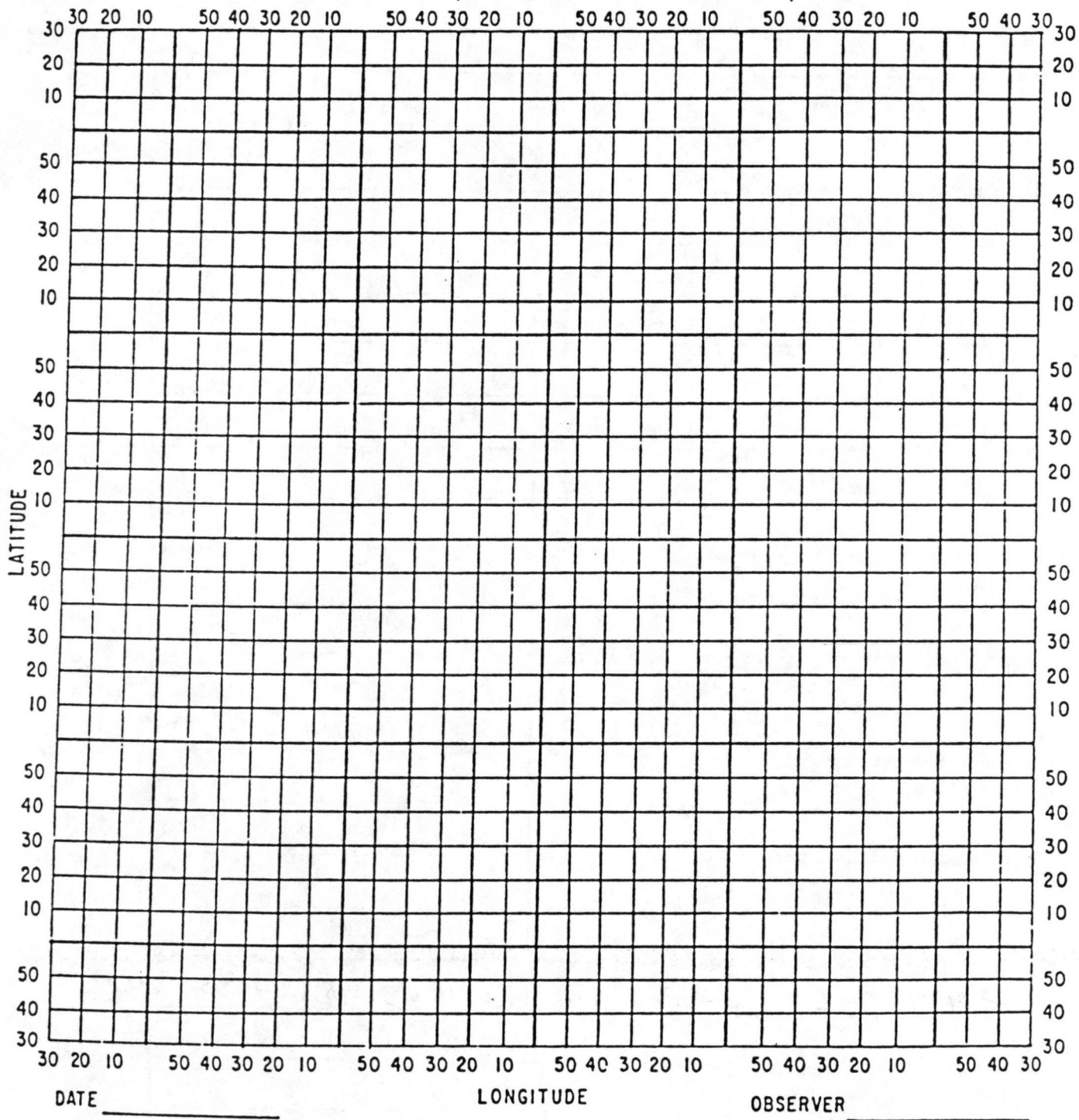
- ☒ 1. Confirm from OAO flight director/meteorologist that satellite data link is operative (information).
- ☐ 2. Confirm camera mode of operation.
- ☒ 3. Confirm data recording rate.
- ☒ 4. Complete form E-1.

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

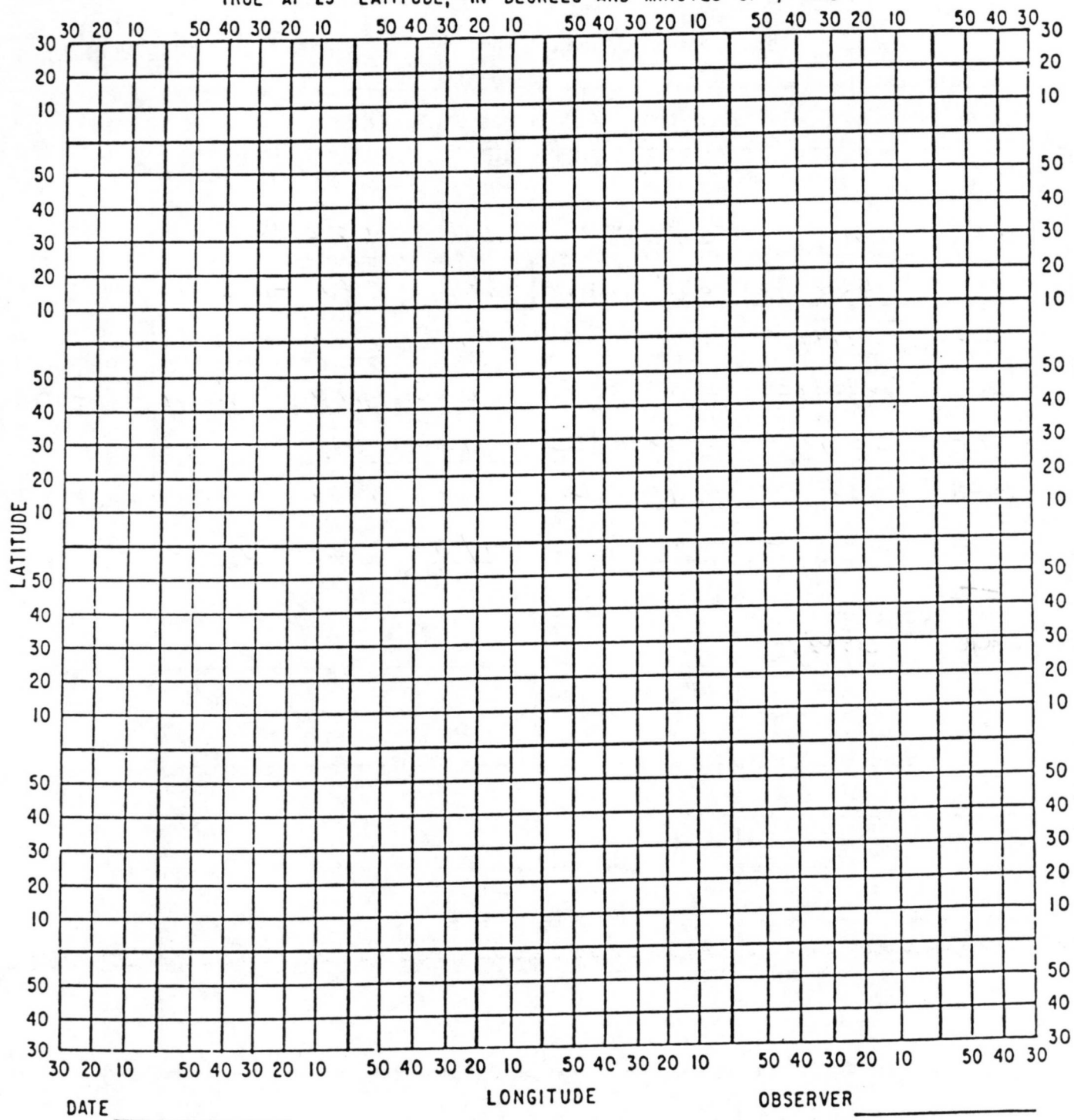
TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



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

DATE 9 October 84

FLIGHT 841009I1

LPS Willis

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
TAXI I	1749/00	MIA - AIRTECH	PROP PROBLEM, BACK TO RAMP
TAXI II	1843/00		
T/O	1858/34		
1945/15	→	23.73 77.44	337/5.9 5.4K 523.6 -2.8 -16.0
SONDE DROP #1	1959/30	22.95 76.50	357/6.8 529.1 mb -3.8 -6.7 50 ft clouds
#2	2019/55	21.99 79.99	300/2.6 524.4 -9.8 -11.9
#3	2039/15 2038/25	20.99 73.83 20.99 73.91	312/7.6 489.6 -8.3 -18.3 311/7.4 484.6 -8.2 -18.3 TURNING AFTER LAUNCH
#4	2057/10	21.00 N 72.30	264/8.7 -9.2 -11.7 485 mb
#5	2122/45	21.01 70.00	219/15.0 485.4 -7.9 -20.2
#6	2142/30	20.99 68.19	219/14.9 485.8 -8.7 -20.8
#7	2201/15	20.99 66.52	232/14.6 446.0 -13.1 -23.7
#8	2223/50	20.99 64.46	197/9.8 445.8 -12.8 -17.5
#9	2241/30	21.13 62.99	187/8.1 446.0 -11.7 -22.5 (late?)
#10	2257/19	22.51 62.99	198/9.9 446.2 -12.1 -22.2
X #11	2314/10	24.03 63.00	195/12.3 446.2 -12.4 -19.8 X BAD SONDE
#12	2321/50	24.73 62.99	188/11.5 446.2 -12.4 -16.8
#13	2348/40	26.99 63.10	194/9.6 445.8 -13.3 -16.5
#14	0012	26.3 65.0	200/11.4 445.8 -13.3 -24.3 lots of electron activity
#15	0032/40	25.68 66.66	188/3.0 408.8 -17.4 -22.8 east of clouds
X #16	0050	24.2 66.7	230/10 408.9 -17.5 -23.5 bad sonde
#17	0053	23.9 66.3	220/14 408.5 -17.6 -23.8

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

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

DATE 9 Oct 1984

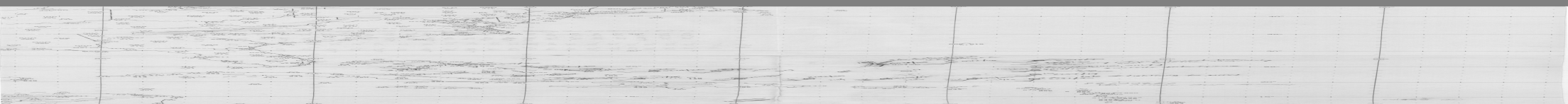
FLIGHT 841009Z

LPS Wilco

Lead Project Scientist Event Log

[illegible]

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



Drop List

78.5	23.0	1
75.3	21.7	2
74.0	21.0	3
72.3	21.0	4
70.0	21.0	5
68.2	21.0	6
66.5	21.0	7
64.5	21.0	8
62.5	21.0	9
60.0	21.0	10
58.0	21.0	11
56.0	21.0	12
54.0	21.0	13
52.0	21.0	14
50.0	21.0	15
48.0	21.0	16
46.0	21.0	17
44.0	21.0	18
42.0	21.0	19
40.0	21.0	20
38.0	21.0	21
36.0	21.0	22
34.0	21.0	23
32.0	21.0	24
30.0	21.0	25
28.0	21.0	26
26.0	21.0	27
24.0	21.0	28
22.0	21.0	29
20.0	21.0	30
18.0	21.0	31
16.0	21.0	32
14.0	21.0	33
12.0	21.0	34
10.0	21.0	35
8.0	21.0	36
6.0	21.0	37
4.0	21.0	38
2.0	21.0	39
0.0	21.0	40

42 RF

