

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

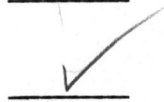
- ✓ _____ 1. Confirm from OAO Flight Director/Meteorologist that satellite data link is operative (information). *Early 1100*
 - _____ 2. Confirm camera mode of operation.
 - ✓ _____ 3. Confirm data recording rate.
 - ✓ _____ 4. Complete Form E-2.
- 28 15*
98/31

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. Determine next mission status, if any, and brief crews as necessary.



5. 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 Checklist

DATE 28 Oct 85 AIRCRAFT 43RF FLT 851028I

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Willie</u>	Gust Probe	
Cloud Physics	<u> </u>	Omegasonde	
AXBT/ AXCP	<u> </u>	Sys Eng	<u>Jarvi</u>
Hot Film	<u> </u>	Data Tech	<u>Jorge</u>
Radar	<u>Mike Black, Leighton</u>	EI Tech	
Flt Dir/Met	<u>Davis</u>	Other	

Take Off 0335/00Z Location NIA Landing 1338/00Z Location NIA

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>10/28</u>	<u>2300</u>	<u>28.0</u>	<u>98.0</u>	<u>982</u>
<u>10/28</u>	<u>032</u>	<u>28 15'</u>	<u>98 31'</u>	

C. Mission Briefing

N-5 Figure 4 for NHE
Legs on cardinal headings

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	NOT OPERATED	—	—	—
Data Sys	✓	✓	✓	—
Omegasondes	—	—	—	—
AXBT/AXCP	—	—	—	—
Gust Probe	—	—	—	—
Hot Film	—	—	—	—
Photography	✓	✓	✓	—
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

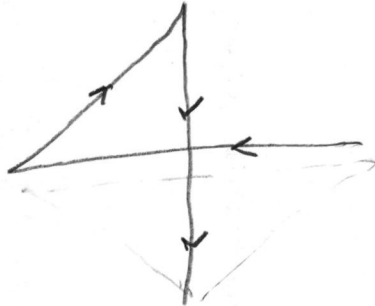
REMARKS

will record every other sweep on radar
unless storm looks interesting

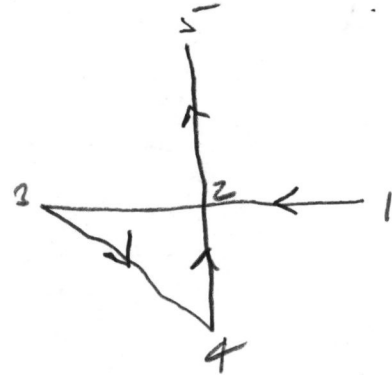
LF display very noisy, levels set very low
0635 not getting ASOEL

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

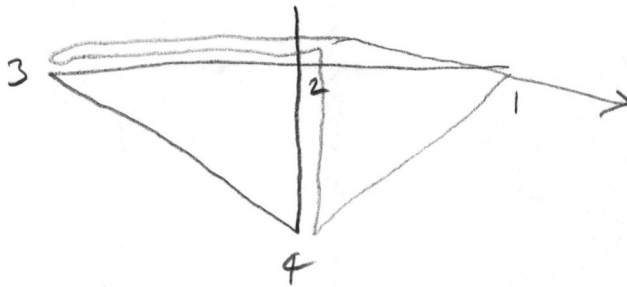
Proposed

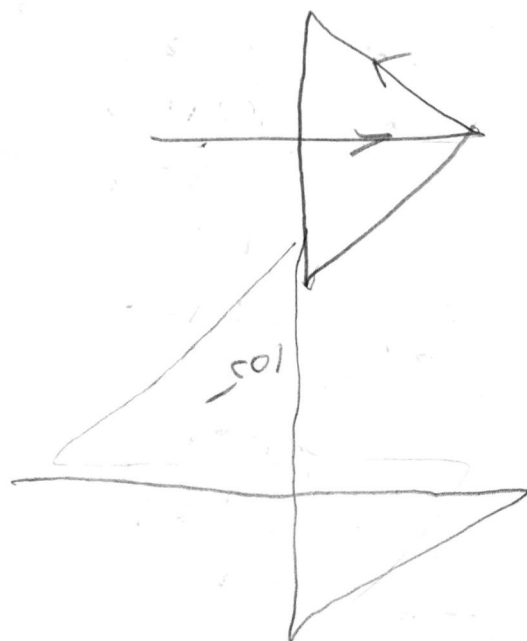


OR



Actual





DATE 28 Oct 85

FLIGHT 851028 I

LPS Willis

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
T/O	0335/00	N/A	
	0409/00	27.07 82.19	190/13.8 4906 -3.9/-10.1 ^{1st} TURN
	0437/15	27.90 84.54	185/13.1 4893 -3.2/-10.2
	0502/40	28.44 86.81	179/18.5 4888 -3.7/-7.1 light tower
1st down to 50	0512/25	28.67 87.70	172/22 4506 -0.1 1.3 10 o'clock
	0548/00	28.58 90.38	1596 181/32.4 1515/12.8
26	0602/21	28.65 91.46	972mb. 21.4/15.5 1545m 28/39
AT WEST 3 END	0629/00	28.56 93.36	in cloud on west side 091/25
SOUTH #4	0701/05	26.93 91.38	226/22 15.3/12.1 1533
#2 6	0732/00	28.85 91.73	974mb 28/55 91/44
#5	0738/00	29.21 91.75	turning to SW
#3	0802/15	29.03 93.65	turning to 090
#2 6	0833	29.15 91.61	heading out ESE 29/09 91/47
#1	0857/40	29.00 89.83	
#4	0941/30	27.46 91.77	270/21 13.9/13.9
#2	1014/32	29.37 92.37	978mb 29/15N 92/05
#8	1037/50	29.31 92.17	1103/33 turning around Turning back EMO
not in center #2 in cloud	1110/56	29.33 92.24	heading south
	1124/50	29.07 91.26	208/25 16.5/13.9
START CLIMB	1140/30	28.98 90.01	196/26 15.8/10.4

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

MIA 10/28 13302
OVER GLADES

PA

2500	-4.6 ²	197/7.8	
2300	13.8	6.9	196/7
2100	14.7	9.9	1
1900	15.4	11.8	201/7.0
1700	16.3	13.0	198/6.6
1500	17.9	14.2	204/6.5
1300	19.4	14.9	199/5.2
1100	20.7	16.4	194/5.5
900	22.1	17.0	187/5.5
level at 900			
800	22.5	17.4	195/5.1
700	23.4?	20.6	192/5.9
600			
500	23.8	21.0	191/5.6
400	24.6	22.8	169/6.0
300	25.4	22.6	158/4.4
200	26.7	23.6	154/4.0
100	27.8	23.6	169/3.5
50	28.9	24.2	160/3.7

92.0 97.0
3:53:51 851028 OAO FTRK 10:21:26

