

On-board Lead Project Scientist Checklist

DATE 10 SEP 84

AIRCRAFT N42 RF

FLT 840910 H

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>WILLOUGHBY</u>	Gust Probe	
Cloud Physics		Omegasonde	
AXBT/ AXCP		Sys Eng	<u>DUGANZUT</u>
Hot Film		Data Tech	
Radar	<u>GRIFFIN/GOLDENBERG</u>	El Tech	
Flt Dir/Met	<u>DAVIS</u>	Other	
Take Off <u>10/0740</u> Location <u>MIA</u> Landing <u>1608</u> Location <u>MIA</u>			

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>10</u>	<u>0600</u>	<u>30° 07'</u>	<u>80° 12'</u>	<u>64 KT, 995 MIB</u>
<u>10/10</u>	<u>0253</u>	<u>29° 51'</u>	<u>80° 16'</u>	<u>60 KT/995</u>
	<u>0131</u>	<u>29° 46'</u>	<u>80° 16'</u>	<u>60 KT/994</u>
<u>9</u>	<u>2356</u>	<u>29° 43'</u>	<u>80° 23'</u>	<u>62 KT/994</u>
	<u>2052</u>	<u>29° 39'</u>	<u>80° 30'</u>	<u>64 KT/994</u>

C. Mission Briefing

<u>DO VORTEX INTERACTION GET 09/12/15 2 FIXES</u>

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	N/A			
AXBT/AXCP	N/A			
Gust Probe	N/A			
Hot Film	N/A			
Photography				

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

19840910HI-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

- FB 1. Participate in general mission briefing.
- FB 2. Determine specific mission and flight requirements for assigned aircraft.
- FB 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.
- FB 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- FB 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.
- FB 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center.

E.1.2 In-Flight

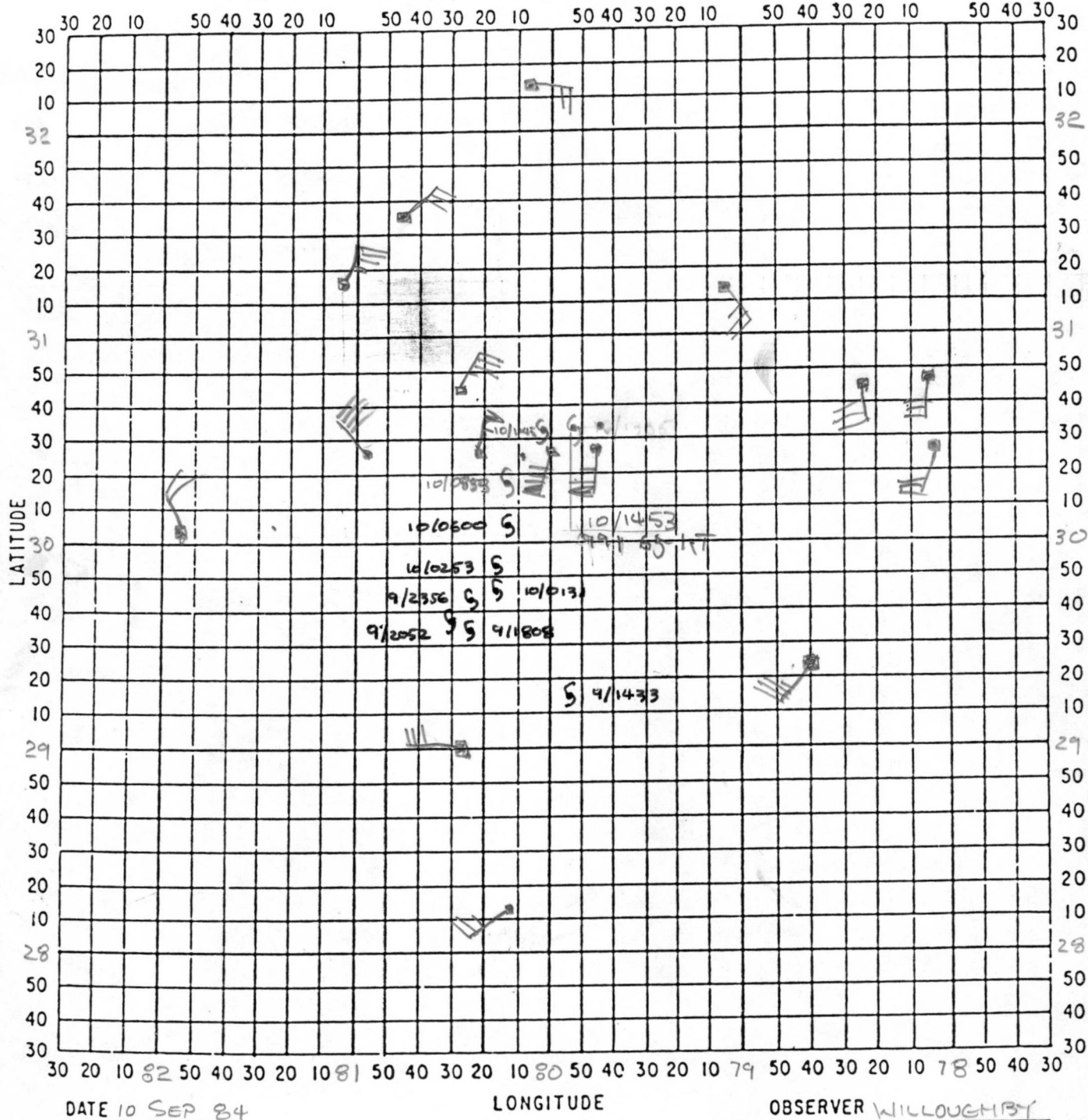
- FB 1. Confirm from OAO flight director/meteorologist that satellite data link is operative (information).
- N/A 2. Confirm camera mode of operation.
- FB 3. Confirm data recording rate.
- FB 4. Complete form E-1.

E.1.3 Postflight

- JD* 1. Debrief scientific crew.
- JD* 2. Report landing time, aircraft, crew and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to HRD operations center.
- JD* 3. Gather completed forms for mission and turn in at the operations center.
- JD* 4. Determine next mission status, if any, and brief crews as necessary.
- JD* 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



DATE 10 SEP 84

FLIGHT 840910I

LPS WILLOWHBY

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
T/O	10/0740Z	MIA	
INITIAL POINT	0814		435 M ALT
TURN	0827	28.08 80.42	TRACK 013 → G
G	0853	30.31 80.21	TRACK G → 360 MIN SLP 992
TURN	0924	32.27 80.17	TRACK 135 TO E OF G
TURN	1010	30.46 70.02	TRACK 270 → G
G	1040	30.43 80.15	TRACK G → 270 MIN SLP 991
TURN	1055	30.42 81.12	TRACK 0.0 TO POINT NW OF G
TURN	1109	31.18 81.16	TRACK 045 (RACETRACK DELAY)
1800 TURN	1119	31.58 80.75	TRACK 225
TURN	1126	31.24 81.13	TRACK 130 → G WIND 010/18 M/3
G	1145	30.51 80.01	TRACK G → 135 (80 Kt) MIN SLP 990
TURN	1219	29.06 78.30	TRACK 00 TO POINT NE OF G
TURN	1301	32.01 78.17	TRACK 225 → G
G	1335	30.55 79.85	TRACK G → 250 992 MIN SLP
TURN	1352	30.19 80.90	TRACK 025 HEADING FOR POINT N OF G
TURN	1429	32.08 79.83	TRACK 180 → G
G	1453	30.62 79.73	TRACK G → 180 MIN SLP 991, MAX FL 65 Kt
FINAL POINT	1523	28.73 79.63	CLIMB TO 21000 FT
LAND	1608	MIA	

1350T
MAX FL 65 Kt
WIND 210/15
3
85
6
510
75 Kt EST SEC WIND
ETA MIA 1610Z

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

