

On-board Lead Project Scientist Checklist

DATE 12 Sept 89

AIRCRAFT 43RF

FLT 840912I1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Willis</u>	Gust Probe	<u>—</u>
Cloud Physics	<u>Bluestein</u>	Omegasonde	<u>—</u>
AXBT/ AXCP	<u>—</u>	Sys Eng	<u>Berles</u>
Hot Film	<u>—</u>	Data Tech	<u>Jarvey</u>
Radar	<u>Kohler</u>	EI Tech	<u>—</u>
Flt Dir/Met	<u>Parrish</u>	Other	<u>—</u>
Take Off <u>1307/54</u> Location <u>MIA</u> Landing <u>2249/15</u> Location <u>MIA</u>			

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>9/12</u>	<u>06Z</u>	<u>34.0 W</u>	<u>77 N</u>	<u>965</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>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

C. Mission Briefing

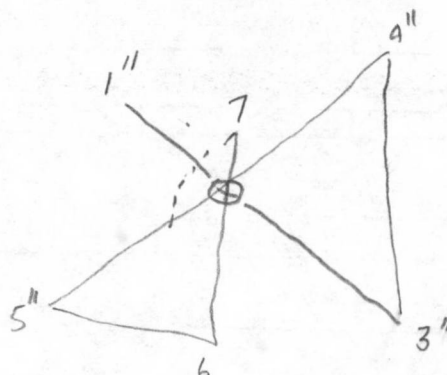
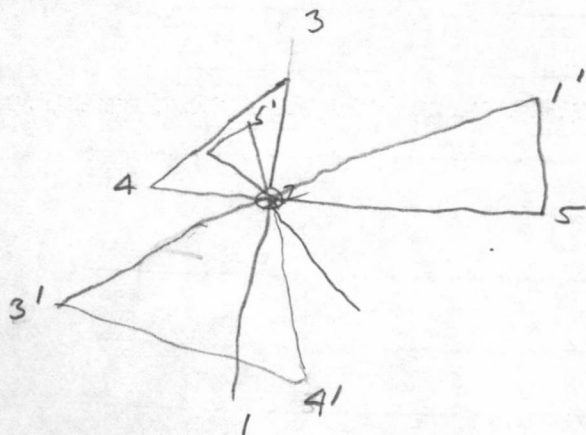
<u>Rotating 4 pattern</u>
<u>15Z, 18Z, 21Z fixes</u>
<u>—</u>

D. Equipment Status

Equipment	Pre Flt	In Flt	Post Flt	Reports Collected
Aircraft	✓	1920 TAIL DOWN	✓	
Radar	✓ TAIL DOWN	1945 TAIL DOWN	DOWN	
Cloud Physics	✓	1746 Out.	✓ FSSA ON 4 VEL REF OFF	
Data Sys	✓		✓	
Omegasondes	—		—	
AXB/AXCP	—		—	
Gust Probe	—		—	
Hot Film	—		—	
Photography	✓		✓	

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

ROTATING (30°) FIG 4 will have to truncate N legs



19840912II-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.
- ✓ 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.

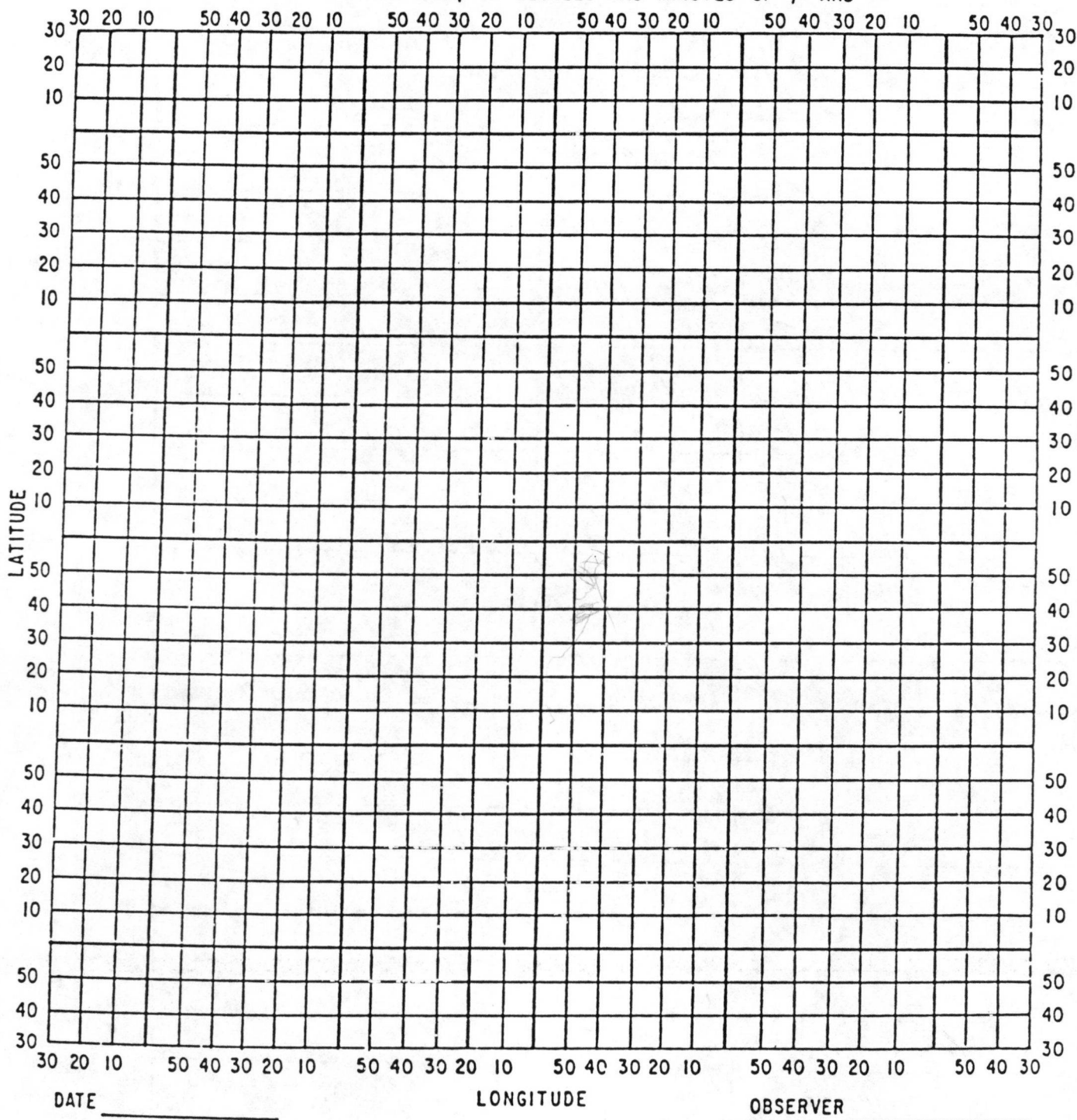
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E.1.3 Postflight

- ✓ 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. *9pm tomorrow*
- ✓ 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

DATE 840912I1

FLIGHT 840912I1

LPS Willis

6 BPPW

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
TAXI T/O	1258/20 1307/54	MIA	
Descent to 5K	1435/00	32.00N 77.98W	
WIND CAL	1443/49	32.65 77.61	273/18.6 ^{EMBED} 1455/00
#1	150405	33.58 77.31	280/32.9
#2	1511/15	34.01 77.12W	? SW along coast, 975 mb, 1000 max wind, 190/92 max wind S side
#3	1517/18	39.41 77.11	tracking, 000 092/30 CLASSICAL DOUBLE EYE
#4	1523/48	34.11 77.57	
#2	1530/29	34.01 77.10 34.00 77.16	971 mb EYE CLEAR ABOVE
5			
1'	1609/44	39.74 75.49	17.2 153/20.0
2'	1634/50	33.98 77.15	1629 + 10W 777 mb convection in 145/47.7 max wind (inner eye)
3'	1659/19	33.19 78.76	338/14.6
4'	1737 ~	32.88 76.30	approx 230/21.4 228 16.6/13.2
2	1758/59	33.96 77.16	SFC PRESS? 49.7 max wind LARGE EYE NOW
5'	1805/22	39.30 77.41	LEB SHORTENED 16.5/15.9 053/33.8
1"	1809 "	34.12 77.54	039/42
2	1816/00	33.98 77.18	CALM WIND AT JFC
1"	1746	RADAR TAPE	DRIVES OUT HEAT AC COMPRESSOR DIAL?
3"	1843/07	33.18 75.48	17.2/10.3 207/19.7
4"	1919/08 ^{LATE}	34.61N 76.10W	154/22.0 16.6/14.7

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

**New altitude, heading, center position, etc. ~~★ RADAR DOWN COMPLETELY~~

2" 1937/54 33.94 77.19 969 mb
5" 2002/33 32.62 78.10 16.1/13.9 WILL TURN EAST BACK THRU STORM FROM SOUTH
6 on south side 2015/56 32.52 77.21 258/18 118 knots max wind broad possible
2" 2038/20 33.86 77.21 970 mb
7" 2043/47 34.21 77.21 050/92

RADAR DOWN

+17up = 2035

WIND CAL 2108/20 START 2121/00 FINISH
2121/15 CLIMBS TO MIA
2249/15 landed

0930 12SE84 38E-1BD 02652 24722 MA33N79W-1

