

On-board Lead Project Scientist Checklist

DATE 840924H1

AIRCRAFT 42RF

FLT Norbert

A. Participants

<u>Function</u>	<u>Participant</u>	<u>Function</u>	<u>Participant</u>
Lead Proj. Sci.	<u>Willis</u>	Gust Probe	<u>_____</u>
Cloud Physics	<u>Bogert</u>	Omegasonde	<u>_____</u>
AXBT/ AXCP	<u>_____</u>	Sys Eng	<u>Berles</u>
Hot Film	<u>_____</u>	Data Tech	<u>Jarvi</u>
Radar	<u>Kohler</u>	EI Tech	<u>_____</u>
Flt Dir/Met	<u>Darby</u>	Other	<u>_____</u>
Take Off <u>2146/42</u>	Location <u>North Island</u>	Landing	Location

B. Past and Forecast Storm Position

<u>Date</u>	<u>Time</u>	<u>Latitude</u>	<u>Longitude</u>	<u>MSLP</u>
<u>9/24</u>	<u>12Z</u>	<u>20.7</u>	<u>110.5</u>	<u>_____</u>
<u>9/25</u>	<u>00Z</u>	<u>22.0</u>	<u>112.0</u>	<u>_____</u>
<u>9/24</u>	<u>2030Z</u>	<u>21.9</u>	<u>111.7W</u>	<u>_____</u>
<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>
<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>

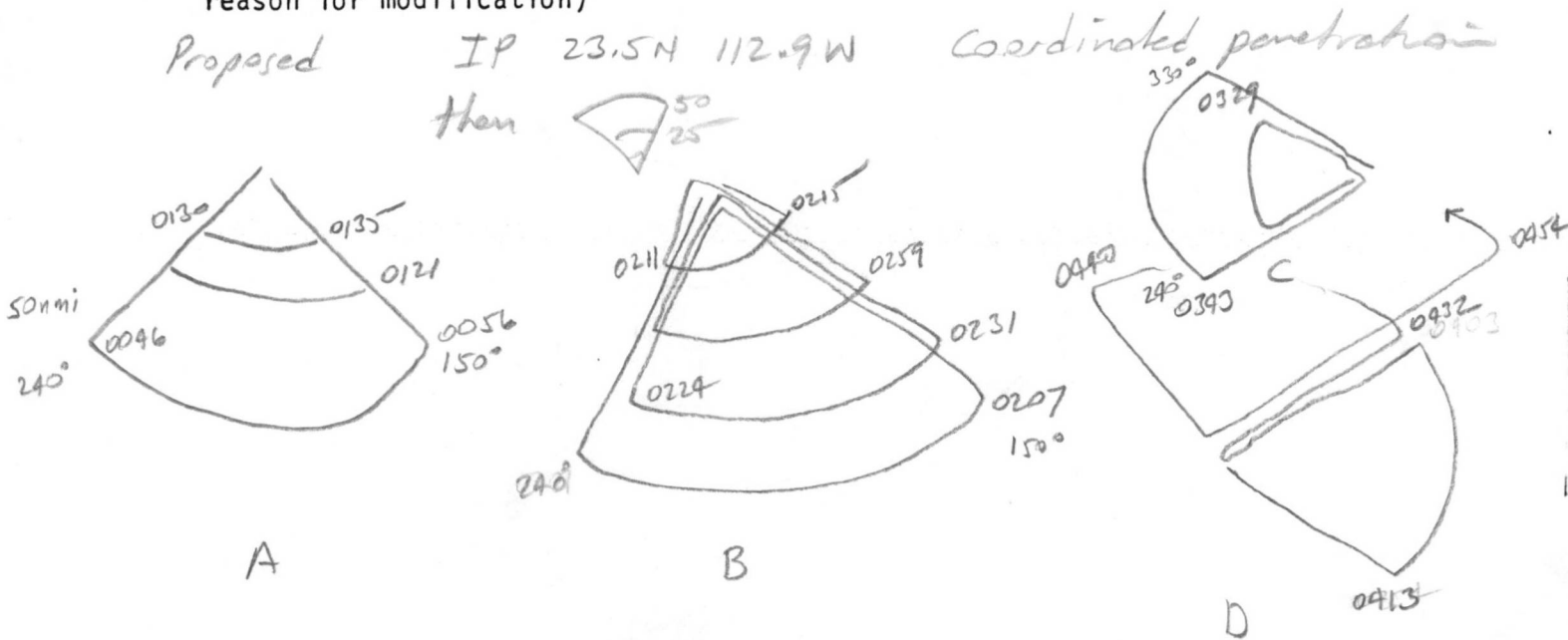
C. Mission Briefing

EyeWall Water Budget Study
42 - Pie patterns at 25 and 50 nmi
43 - Doppler EIs

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	✓	JW out 2158Z K hot 0445Z	INTERMITTENT	
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)



19840924HI-LPS

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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

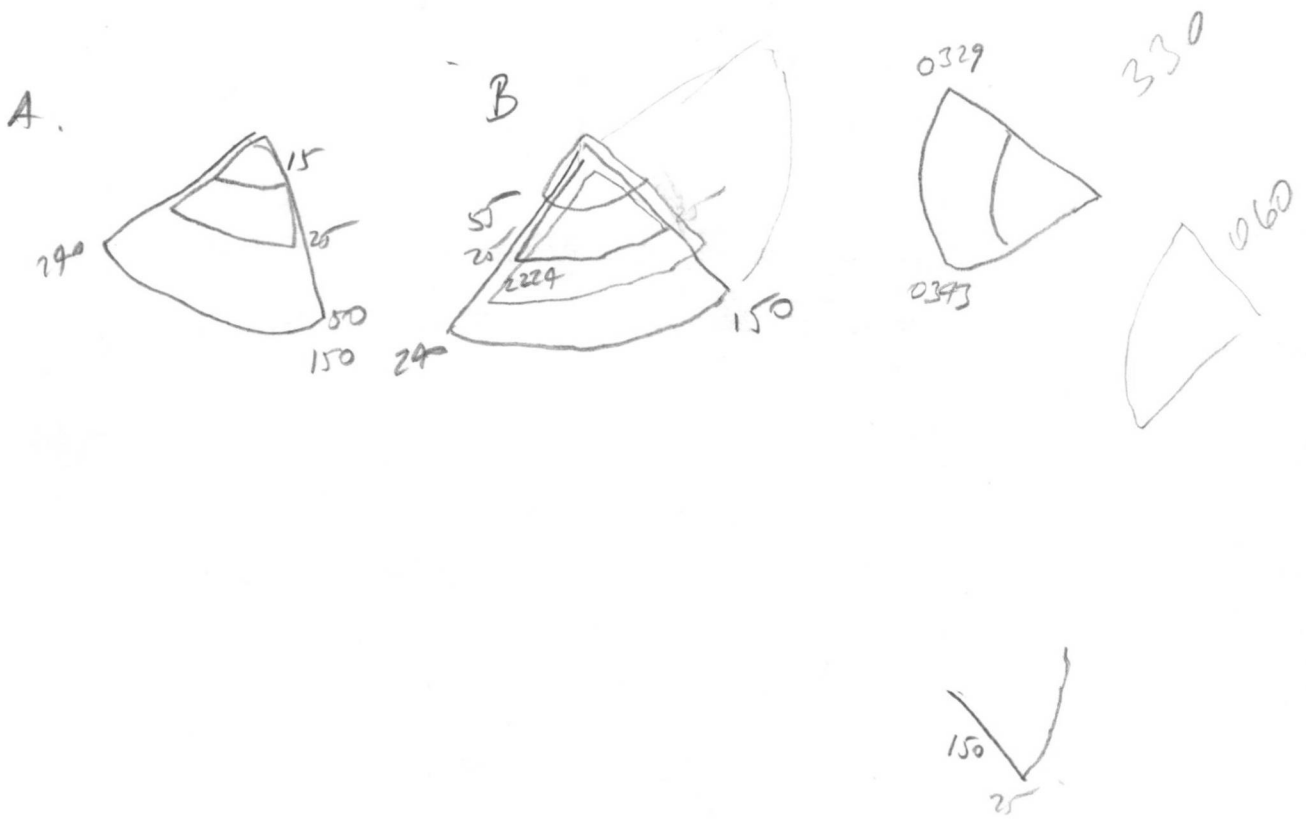
1. Participate in general mission briefing.
2. Determine specific mission and flight requirements for assigned aircraft.
3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with OAO flight director/meteorologist and CARCAH, unless briefed 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.



060
240
150
2

2196
3146
0746
0500
P1/2

DATE 24 Sept 84

FLIGHT 840924H1

LPS Willis

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
Taxi	1913 Z	North Island NAS	42 Aboarded T/O
T/O	2146/42	North Island	
WIND EL CALIB	2323/10 2336/20	26.19 114.64	END OF WIND.CAL
IP	0020/24	23.30N 112.79W	072/29.9 -5.5°C
6	0034/28	22.34 112.20	0.0°C / -1.3°C
1	0046/00	21.81 112.77	
2	0056/27	21.58 111.83	-5.9 -8.1 230/20 Hard Copy out
6	10108 0107/25	22.40 112.30 22.34 112.23	43 directly below
1			on 25 mile leg. of first pattern
2	0121/13	22.03 112.08	
6	0127/36	22.46 112.31	
1 2/6	0130/25 0135/27	22.34 112.53 22.16 112.18	HAZARD ON THE PASS IN EYE
1	OFF 0201/03	21.55 112.51	55 n mi leg. NO LIGHTNING 270/15.2
2	0207/31	21.70 111.94	224/21.8
6	0219/36	22.57 112.46	NEXT 25 mile legs same radius
1	0224/46	22.37 112.86	
2	0231/56	22.17 112.30	
6	0237/59	22.61 112.48	
1			40 mile legs
2	0259/20	22.15 112.17	
6	0306/33	22.65 112.51	

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

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

15 mile legs
1
2
6
0311/48 22.4065 112.57
0315/27 22.57 112.44

P 2/2

DATE 24 Sep 84

FLIGHT 8409 24/1

LPS Willis

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
6	0317/27	22.68 112.57	
1	0329/59	23.29 113.22	LEG TO NW 330 CLIMBING
2	0343/25	22.37 113.10	
0	0350/21	22.76 112.61	
1	0354/30	23.08 112.79	25 Nmi leg
2	0403/05	22.61 112.84	
6	0406/00	22.78 112.66	
1	0413/00	22.57 112.33	GOING TO E SIDE
2			
6	0428/58	22.89 112.68	
1	0432/38	23.02 112.42	
2	0440/97 ¹⁰	22.96 112.78	
6	0443/23	22.78 112.71	
1	0453/00	23.16 111.98	060 at 50 nmi then return to North Island

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

40

40°

35

30°

30

25

140°

130°

120°

90°

20

15

10

10°

10°

0

0°

0°

5

WMO REGIONAL CENTER
MIAMI
MARINE CHART

Data AR-H
Date 9/23/88 North
Time _____

SCALE 1:20,000,000

MERCATOR PROJECTION TRUE AT 22½°N AND S

145

140

135

130

125

120

115

110

105

100

95

90

85

80

84



