

On-board Lead Project Scientist Checklist

DATE 840922H

AIRCRAFT 92 RF

FLT MORBERS

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Willis</u>	Gust Probe	<u>—</u>
Cloud Physics	<u>Bogert / Hallett</u>	Omegasonde	<u>—</u>
AXBT / AXCP	<u>—</u>	Sys Eng	<u>Duganant / Berles</u>
Hot Film	<u>—</u>	Data Tech	<u>Jarvey</u>
Radar	<u>Kohler</u>	EI Tech	<u>Berles</u>
Flt Dir/Met	<u>Darby</u>	Other	<u>Farmvar</u>

Take Off 1756/02 Location North Is ^{NAS} Landing 0345Z Location North Is NAS

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>9/22</u>	<u>18Z</u>	<u>16.7N</u>	<u>108.7</u>	<u>115 knots</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

coordinated penetration to IP
19.0K 3 pics, climb to max altitude, repeat

D. Equipment Status

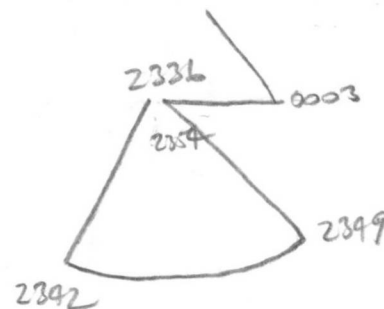
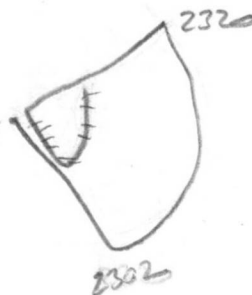
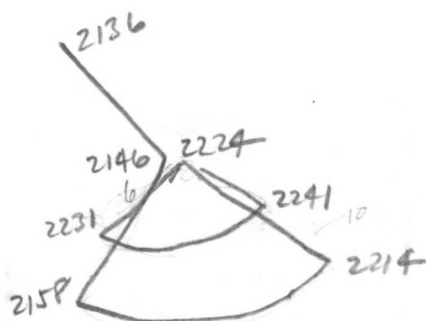
<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	✓	✓	✓	
Radar	✓	Scan Cond Inop	✓	✓ 7 Tapes
Cloud Physics	✓	✓ cloud probe hook near and	✓ cloud probe updating at high speed	20 Tapes
Data Sys	✓	✓ RANTED INTRANT	✓	
Omegasondes	—	—	—	
AXBT/AXCP	—	—	—	
Gust Probe	—	—	—	
Hot Film	—	—	—	
Photography	✓	✓		
Formvar				✓ 2 rolls

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

Proposed



Actual



19840922H1-LPS

840922H1
Norbert

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.
- None 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.
- N/A 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center.

E.1.2 In-Flight

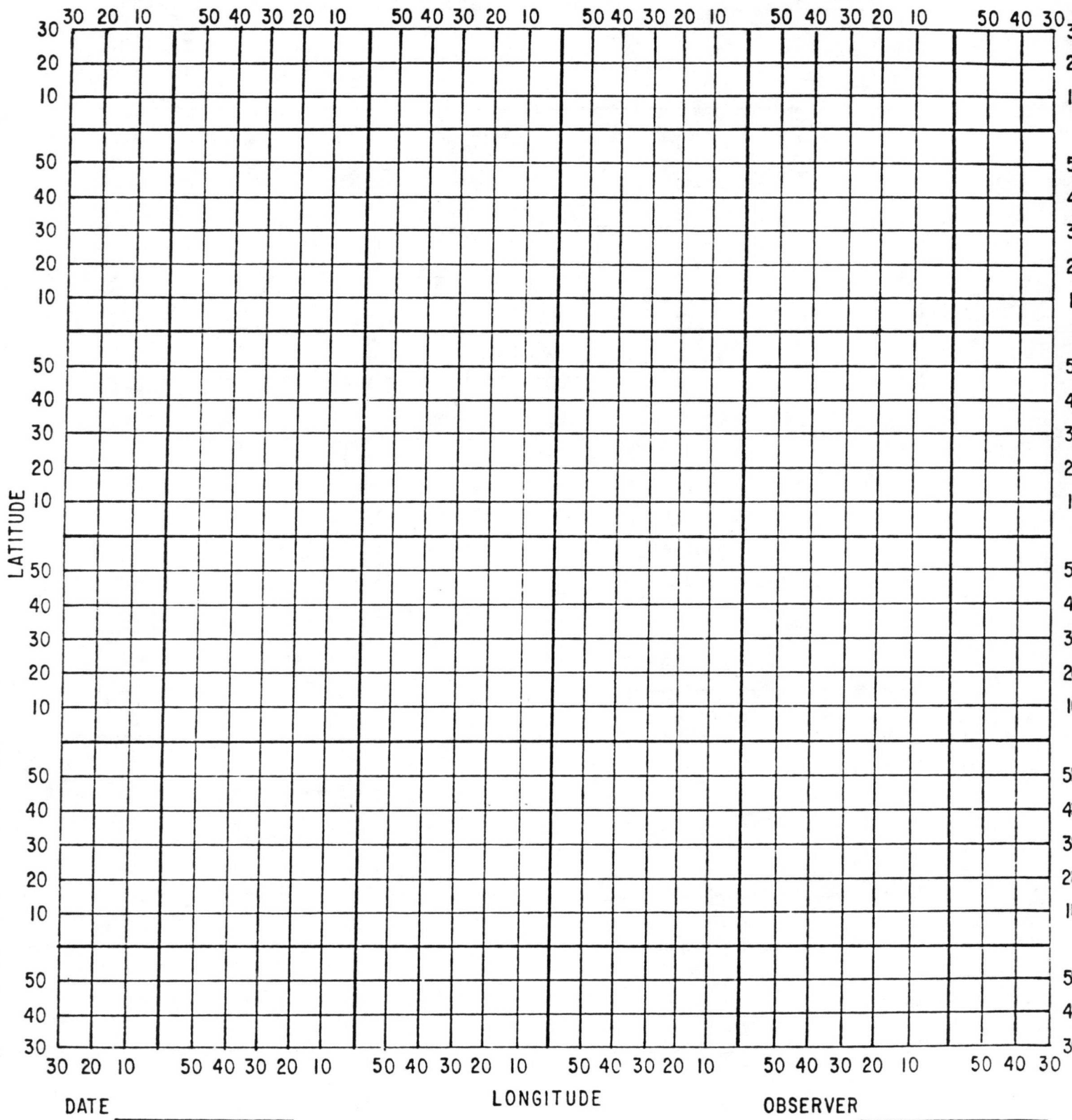
- N/A 1. Confirm from OAO flight director/meteorologist that satellite data link is operative (information).
- ✓ 2. Confirm camera mode of operation.
- ✓ 3. Confirm data recording rate.
- ✓ 4. Complete form E-1.

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

DATE 22 Sept 89

FLIGHT 840922H1

LPS Willis

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
RUNUP & TAXI T/O	1745 Z 1756/02	NORTH ISLAND " "	
WIND CAL	1920 Z	26.45N 114.77W	
23.55 112.80	2013	STORM CLOUDS VISIBLE IN 270/2.8 -8.8 DISTANCE ABOVE -3515	
FIRST CLOUD OF FORM	2111/00	19.49 110.30	030/3.4 6.056 -6.8 -P.2
	2136	17.88 109.19	093/18.1
IP eye	2146	17.19 108.74	289/36 heading out 230
1	2158/00	16.70 109.37	
2 TURN BACK IN	2214	16.80 108.13	93 had grappled at 10K
IP eye	2224	17.45 108.55	
1'	2231/07	17.22 109.11	
2'	2241/58	17.15 108.9	back in on 330
2246/15	17.80 108.99		will rotate pattern down
1	2302 changing	16.82 108.06	terminal
2	2320/50	17.78 108.13	heading 236 back in
IP			JW OUT ON FIRST PASS
1	2328/56	17.36 108.4	
2	2333/59	17.68 108.29	
IP	2336	Boxing cell again	
1	2342/03	17.30 108.87	-7.8°C
2	2349/08	17.22 N 108.26	-10.3°C 5.993km 240/39

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

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

IP

2354/09

17.54 65 108.44

TURNING 090

0103/10

17.64 107.89

END OF PATTERN - HEADING HOME

ALTITUDE HAS SLIPPED

