7 Cloud Physics
3 Doppler
6 Radar

P870930II-LPS

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.

___NA___ 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).

___✓___ 2. Confirm camera mode of operation.

___✓___ 3. Confirm data recording rate.

___✓___ 4. Complete Form E-2.

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.

Form E-2
Page 1 of 5

On-Board Lead Project Scientist Checklist

Date 30 Sept, 1987 Aircraft 43 RF Flight ID 870930I1

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj Sci	Gamache	Flight Direc	Masters
Cloud Physics	Dorst	Pilots	Genzlinger, Eiler
Radar	Wiggert	Navigator	Secretan
Doppler	M. Black	Sys Engr	Schricker
Photographer		Data Tech	Gonzalez
Omegasonde		El Tech	
AXBT/AXCP		Other	

Take-Off	Location	Landing	Location
1808 GMT	Miami, FL		

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max Wind

C. Mission Briefing

Form E-2
Page 2 of 5

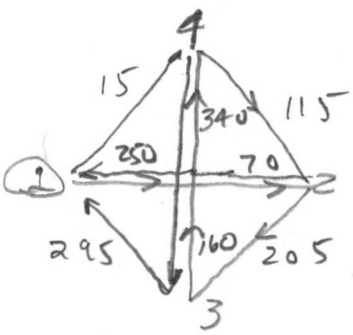
D. Equipment Status

Equipment	Pre-Flt	In-Flt	Post-Flt
Aircraft	✓	✓	
6 Radar	✓	✓	
7 Cloud Physics	2 DP down	✓	
Data System	✓	✓	
Omegasondes			
AXBT/AXCP			
3 Doppler			
Photography			

REMARKS:

Form E-2
Page 3 of 5

E. I. Proposed Flight Pattern (Sketch or designate by number)



E. II. Actual Flight Pattern

25.3 ~~W~~ N
77.6 W

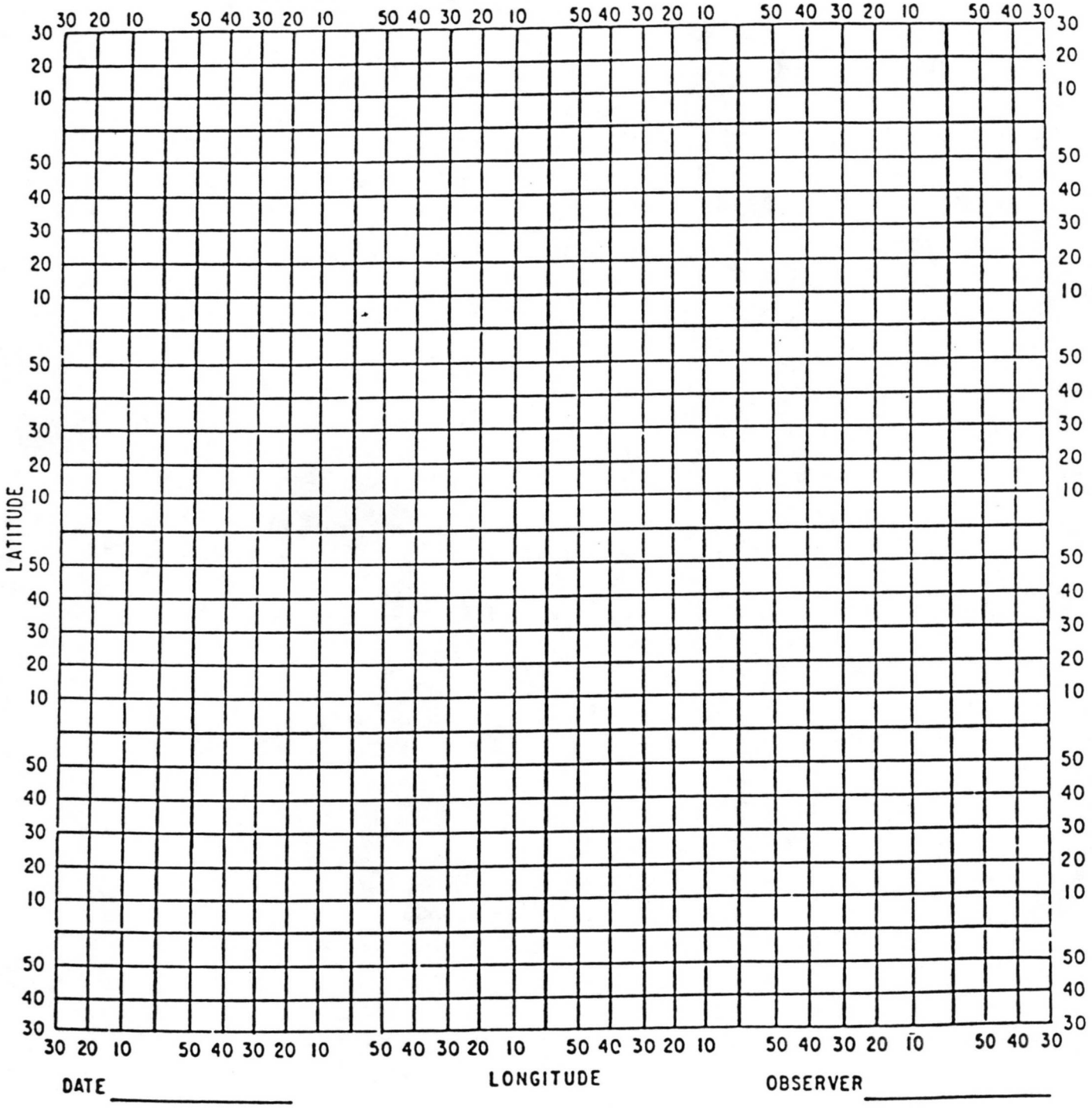
23.5 N
77.6 W

25.3 N
79 W
23.5
79 W

7 - 22,000

HURRICANE RECCO PLOTTING CHART

TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



DATE _____ OBSERVER _____

NOTE: Label full degrees according to location of flight area

<250° 0200 ~~2432 — 9957~~ 2438 7807 ESE WNW

Form E-2
Page 5 of 5

Date 30 Sept. 1987 Flight 870930I1 LPS Gamache

Lead Project Scientist Event Log

Time	Event	Position	Comments
1733		25,48' 80,18'	delay due to INE alignment problems
1745		" "	INE fixed
1808	T/O	" "	In rain after short heavier shower
1823			Talked to Paul looks like they considering area N center off Andros Island
1839			24½ 7755
		Various jotted 42 NE positions	4500 +2°C
			2423 15,000 ~~B-8~~ 784.2 070°
			230° 2940 7807
1855			2443' 782½ NE side
1855			2434' 7813W
1904		Track 250	42 3 05
		Track 15°	
1909		~~Track~~ turn to track 160° to (3)	actually went 130°
1912		turn to track 295° to (1)	
1916		turn to 070° to (2)	
1920		in holding pattern	radar tapes almost out
1923		track 250° to (1)	

Form E-2
Page 5 of 5

Date________________ Flight 870930I1 LPS GAMACHE

Lead Project Scientist Event Log

Time	Event	Position	Comments
1925	turn 025°	① to ④	
1930	turn to 160°	④ to ③	
1935	turn to 295°	③ to ①	
1939	turn to 020°	① to ②	
1946	turn to 205°	② to ③	Talked to Paul.
			We're heading to tip
			of Andros Island.
			24°35 78 22
			24 48 78 03°
[illegible]			24 43' 78 02' 42 position for
			wilcenter
2000	turn to 045°		24 47 77 53
2006			24'47' 77 53'
2008			We have had several
			problems staying in our area
2010		24 42	
			42RF: 24 38' 77 51.6 N
2020		track 210°	
2021			24 54.6 77 48' 42RF

24 49 77 51

Form E-2
Page 5 of 5

Date 30 Sept Flight 870930I1 LPS Gamache

Lead Project Scientist Event Log

Time	Event	Position	Comments
2026		24°38'77 50°	42 RF was 30 nm N of us due to difference in N boundary of clearance
		25	2446 77'495 W
			24 49 77 48
2036	track 250°	2434 7751'	
2038	track to 360°	2432 7750'	will pass N to intercept anything left from Paul's penetrations then head home.
2045	turning to	head home 24°52'	77°50'

Date________________ Flight ______________ LPS______________

Lead Project Scientist Event Log

Time	Event	Position	Comments