19910810I1-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.

_____ 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. Obtain a copy of the 10-s flight listing from the OAO flight director. Turn in with completed forms.

_____ 5. Determine next mission status, if any, and brief crews as necessary.

_____ 6. 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 Check List

Date 8/10/91 Aircraft 43RF Flight ID 910810I

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	Marks / Willis	Flight Director	Parrish
Cloud Physics	B. Black	Pilots	McKim / Player
Radar	Kabeche	Navigator	Strong
Doppler	Testud / Houze	Sys. Engr.	~~Rote~~ Wade
Photographer	—	Data Tech.	Ozzie / Rote
Omegasonde	—	El. Tech.	Raines
AXBT/AXCP	—	Other	Hallett / Saunders

Take-Off 1554 Location MIA Landing Location

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind

C. Mission Briefing CaPE flights.

D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	✓		
Radar	✓		
Cloud physics	✓		
Data system	✓		
Omegasondes	—		
AXBT/AXCP	—		
Doppler	✓		
Photography	—		

REMARKS:

CapE

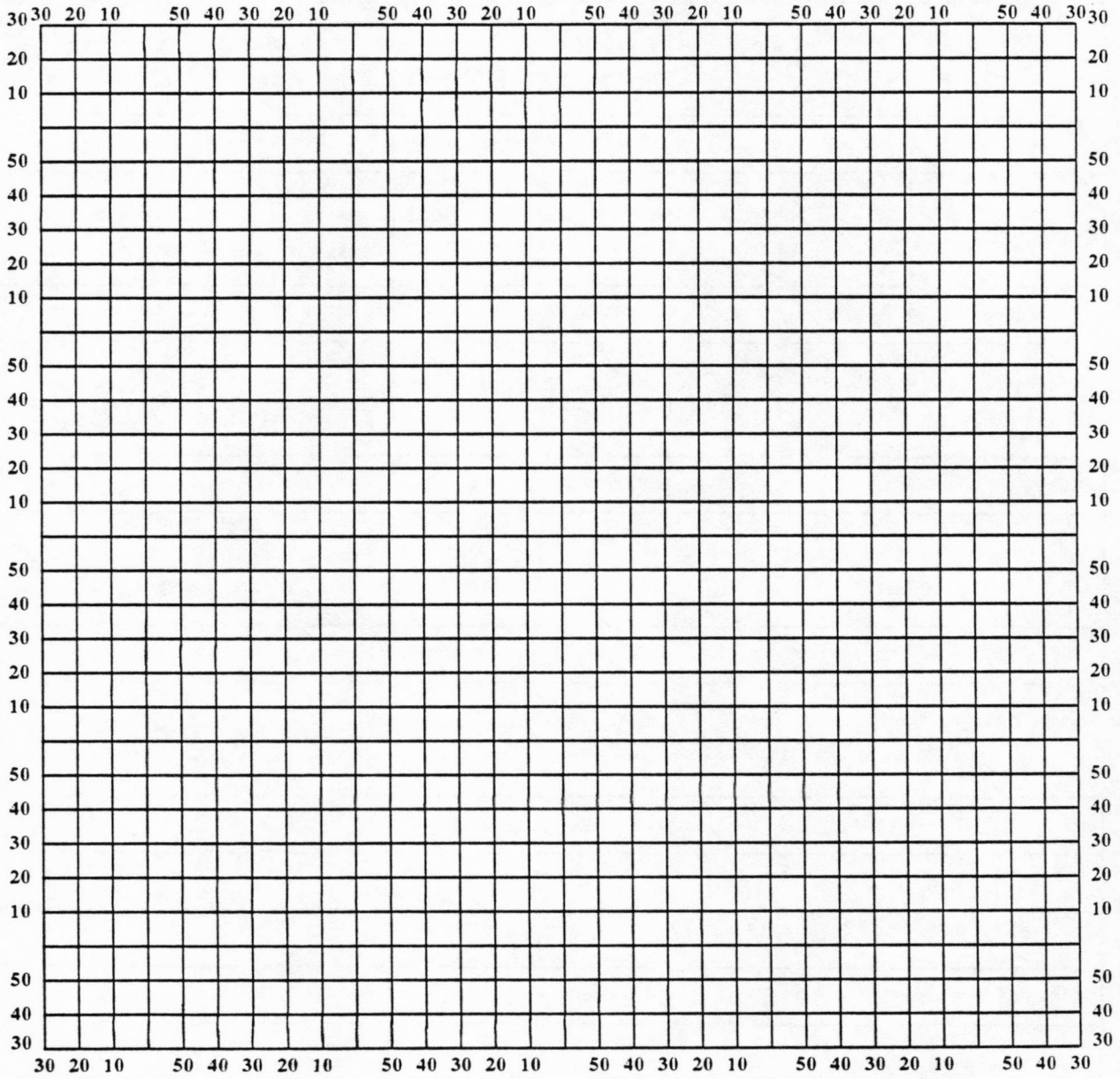
E. I. Proposed Flight Pattern (sketch or designate by number)

E. II. Actual Flight Pattern

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes of ϕ and λ.

Date_____ Longitude _____ Observer _____



Note: Label full degrees according to location of flight area.

Form E-2

#2

Lead Project Scientist Event Log

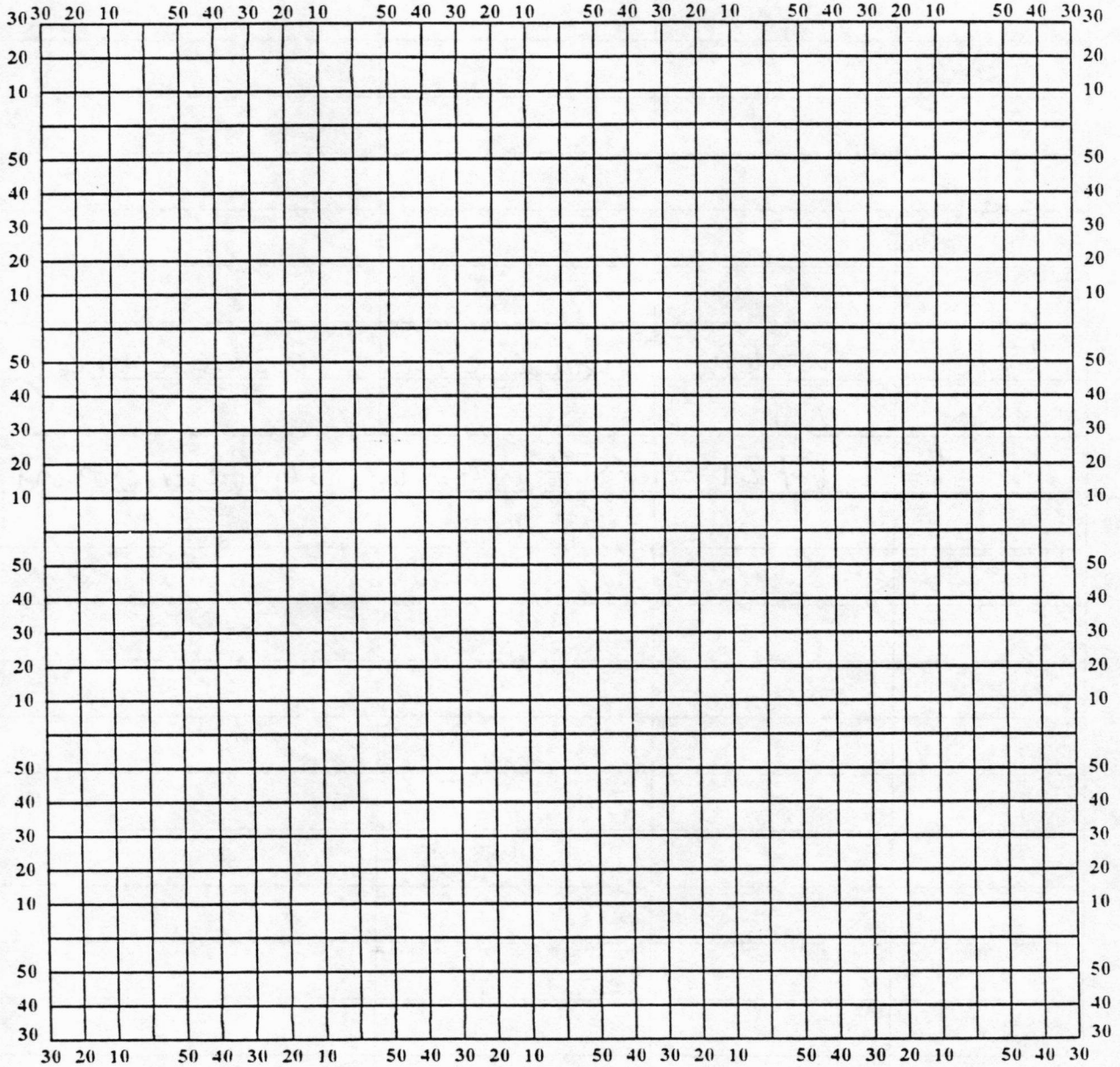
Date 910810I Flight 43RF LPS Marles

Time	Event	Position	Comments

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes of ϕ and λ.

Date_____ Longitude _____ Observer _____



Note: Label full degrees according to location of flight area.

Form E-2
Page 5 of 5

#1

CP-4 329/9
CP-3 341/16

Lead Project Scientist Event Log

Date 910810I Flight 43RF LPS Marks

Time	Event	Position	Comments
TO	1554		trouble with traffic.
1628	contact	Allizator -	wants us to fly
			CP-4, CP-3 baseline
			til wx builds up
1643	descend to	13kft try	and find targets of opportunity
1710	working	small clouds on sea breeze.	
	1721	antenna fault	radar system down
	1721 - 1757	radar system down.	
	Radar Tape	D2T1 may have a stray record at the beginning from when the system came back up.	
1814	still loitering around.		
1818	set up	CP-2 CP-3 baseline runs to	
	watch stuff' NW of CaPE network.		
1904	set up	P. Hildebrand	intercomparison.
		Cancelled	

353/47

Form E-2
Page 5 of 5

Lead Project Scientist Event Log

CAPE 4

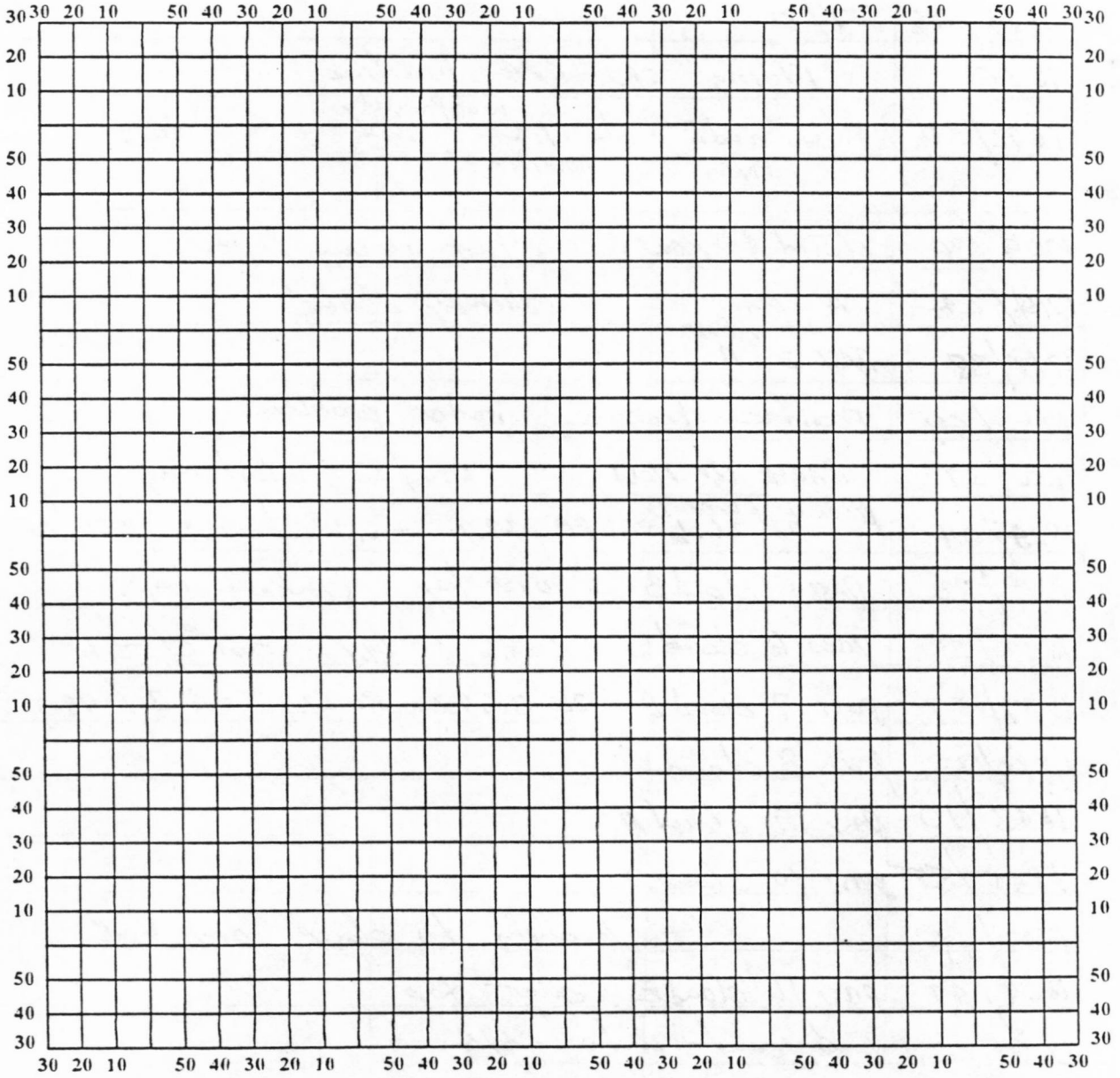
Date 8/10/91 Flight 910810I1 LPS Marks/Willis

Time	Event	Position	Comments
1154/46	T/O	MIA	
1630	Flying CP3 - CP4 baseline		
1642/50	descending to 13 near Patriot looking for targets		
	flying 3-4 baseline		
1709/36	cloud A PASS 1	just skimming top	
1714/29	A PASS 2	skimpy cloud	
1719/38	PASS 3 cloud A		
1720/49	Traffic diversion radar problem.		
1756/57	RADAR UP NOW	010/33 loitering	
1825/04	PASS 4 cloud B 28 26.6	80 49.1 -6.3°C/-10.4 251/06	
1828/32	PASS 5 cloud B	over top, sinking top.	
1832/35	pass 6 cloud C	28 29.6 80 29.1 -6.1°C/-9.6	
1837/57	pass 7 cloud D	28 38.42 80 27.5 -5.3/-14.5	
1840/20	pass 8 cloud D		
1843/10	pass 9 cloud D		
1845/55	pass 10 cloud D		
1847/14		heading to cloud over VAB	
1851/47	pass 11 cloud E	over top	
1916	descent into MIA		

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes of ϕ and λ.

Date_____ Longitude _____ Observer _____



Note: Label full degrees according to location of flight area.