

19940822H1-LPS

940822H

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 AOC 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 AOC 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 AOC flight director 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 AOC flight director.]
- 4. Obtain a copy of the 10-s flight listing from the AOC 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.

On-Board Lead Project Scientist Check List

Date 8/22/94 Aircraft 42RF Flight ID 940822H

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Marks</u>	Flight Director	<u>Bogert</u>
Cloud Physics	<u>Franklin</u>	Pilots	<u>Ticknor/Tennison</u>
Radar	<u>Dorst</u>	Navigator	<u>Strong</u>
Workstation	<u>—</u>	Sys. Engr.	<u>Wade/Torrey</u>
<u>C-SCAT</u> Photographer	<u>Papstafania</u>	Data Tech.	<u>Roles/McMillen</u>
<u>SEMR</u> Omegasonde	<u>P. Blacke</u>	El. Tech.	<u>Goldstein</u>
AXBT/AXCP	<u>—</u>	Other	<u>Anderson/Kinney</u>

Take-Off SJU Location 53545 Landing MIA Location 192258
15°24' 64°06"

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

C. Mission Briefing

SJU -
Survey to MIA with dust survey
on C-SCAT cal.

D. Equipment Status

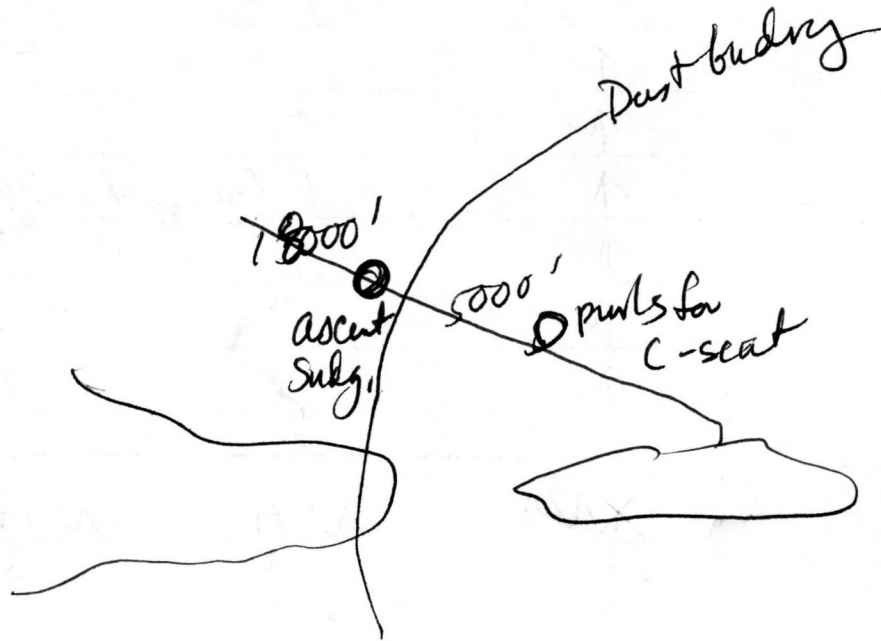
Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	↑	↑	↑
Radar/LF	↑	↑	↑
Radar/TA (Doppler)	↑	↑ (swapped transmitter)	↑
Cloud physics	↑	↑	↑
Data system	↑	↑	↑
Omegasondes	↑	↑	↑
AXBT/AXCP	-----		
Workstation	XNA	NA	NA
Photography	↑	↑	↑

(Jim Roles thinks we have a component failure on ~~DDP~~ probe)

REMARKS:

Sorry STV-MIA
do dust boundary profile
42RF 5000'
43RF 10000'
43RF a/c sounding ^{to 5000ft} on departure in clear
42RF 3 sets of punts for C-SCAT calib.
a/c sounding in clear w/ no dry

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



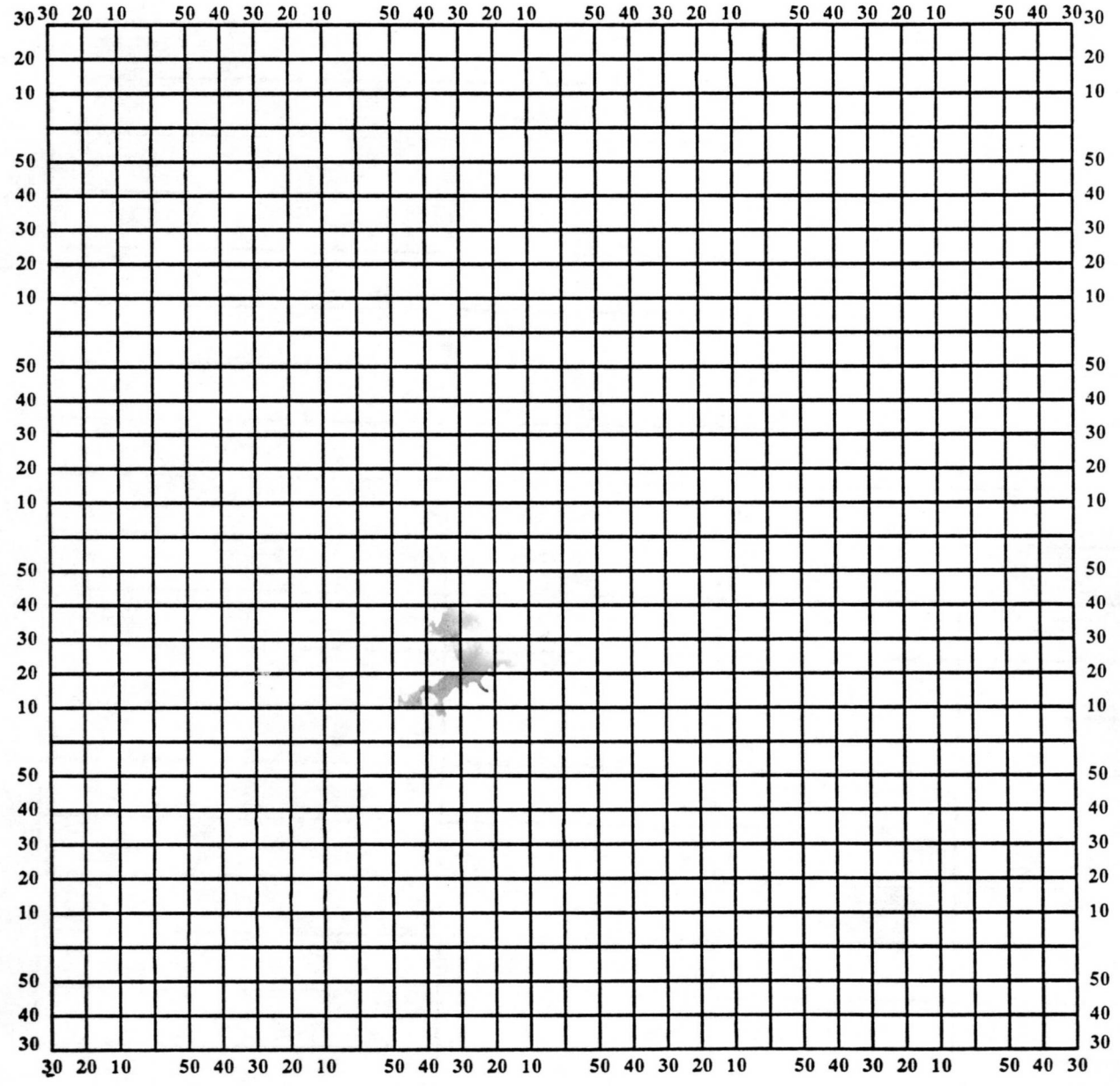
E. II. Actual Flight Pattern

<u>5000'</u>	
155539	10° purt right. for C-seat
1604	<u>end 10° purt</u>
160625	20° purt right " "
161140	<u>end 20° purt</u>
161335	<u>30° purt right</u>
161811	end 30° purt
1635	approaching dust boundary - clouds increasing Cb's ahead 60nm
1643	punch cloud
1646	start descent - get profile thru nose of front
165530	start climb R... 150°

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Date _____ Aircraft _____ Observer _____



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

(1)

Lead Project Scientist Event Log

Date 8/22/94

Flight 940822H

LPS Markus

Time	Event	Position	Comments
153545	TO	STU	
			5000 f
155539	19° 20", 66° 56"		purl right 10° for C-SCAT cal
1604	19° 24", 67° 00.2"		end 10° purl
160625	19° 33", 67° 01"		start purl 20° right
161140	19° 36", 66° 58"		end purl 20°
161335	19° 36", 66° 50"		start 30° purl right
16194	19° 33", 66° 51"		end 30° purl
1635	20° 05", 67° 50"		approaching dust budry clouds increasing, line of ch's 60 nm ahead
1648	20° 21", 68° 18"		punch 2 clouds to check 2D probes
1646	20° 28", 68° 30"		start descent profile through nose of dust budry pass under line of clouds
165530	20° 40", 69° 09"		start climb from 150' → 20 kft.
171658	21° 13.5", 70° 37.6"		ODW out good
172258	OPR		level

