

19880826 I1 - 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. *NOP*
- ☒ 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.

On-Board Lead Project Scientist Check List

Date 26 Aug 1988 Aircraft 43RF Flight ID 880826 I 1

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	<u>MARKS</u>	Flight Director	<u>Parrish</u>
Cloud Physics	<u></u>	Pilots	<u>Gunnoc /</u>
Radar	<u>Dorst / Dodge</u>	Navigator	<u>Nokutis (Steve)</u>
Doppler	<u>Carbone</u>	Sys. Engr.	<u>Schricker</u>
Photographer	<u></u>	Data Tech.	<u>Lynch</u>
Omegasonde	<u></u>	El. Tech.	<u>(Saleem)</u>
AXBT/AXCP	<u></u>	Other	<u>McFadden</u>
<u>SEMR</u>	<u>Karen</u>	<u>(WHASS)</u>	
Take-Off	Location <u>MIA</u>	Landing	Location <u>MIA</u>
<u>101225Z</u>	<u>INS 25°48" 80°17.7"</u>		
	<u>CLR 25°48.4" 80°18.1"</u>		

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
<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></u>	<u></u>	<u></u>	<u></u>	<u></u>

C. Mission Briefing

reconnaissance

D. Equipment Status

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

REMARKS:

TD-7 invest NE of Cuba
1500'

make copy of Radar tape DITI for Terry's
demos

Hasselblad had some problems

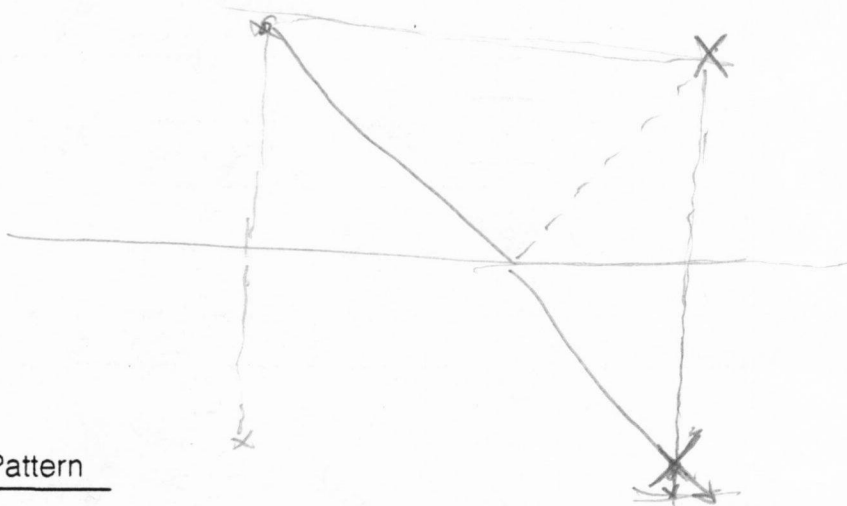
1225 - 1305 Z good
displays

(Neal says film may have run through)
he's not sure

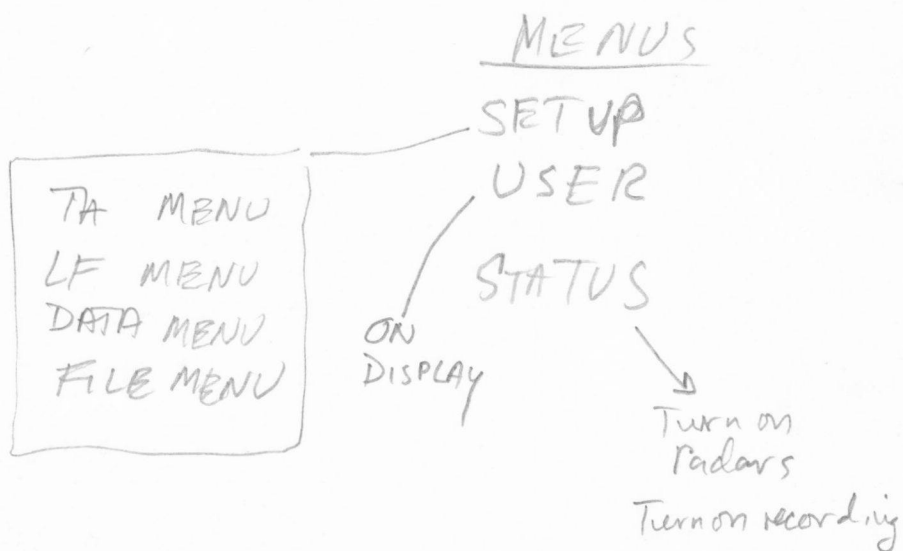
Science

Rif thinks he has way to detect
swell orientation and movement using TA Poplar
and LF Ref. LF sea clutter gives swell orientation
(directions). TA Dop gives motion relative to antenna
angle. Use orientation to get components of motion.

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



E. II. Actual Flight Pattern



①

Lead Project Scientist Event Log

Date 26 Aug 1988 Flight 880826JI LPS MARKS

Time (Z)	Event	Position	Comments
101225	TD	MIA $25^{\circ} 48''$ $80^{\circ} 17.7''$	1500'
1202Z	TK ESE		found wind shift
1236Z	TURN N		just N of Cuba Coast
1250Z	Pass east of center.		
1300Z	turn SW $TK 250^{\circ}$	$21^{\circ} 30''$ $73^{\circ} 40''$	hunting for G
			130325-130450 RAMS down
1316Z	turn 290°		hunting for circ G
			131755-132530 RAMS down
1340Z	turn $TK 50^{\circ}$		get N of G
1400Z	turn $TK 180^{\circ}$		head S to find G
1418Z	turn $TK 70^{\circ}$		
1433Z	turn $TK 360^{\circ}$	$21^{\circ} 24''$ $74^{\circ} 1.7''$	turn N to check extent of gale force winds. CARCAH's order
1456	turn $TK 110^{\circ}$ 138°	23° 74°	turn SE in precip storm strength winds
1529	turn $TK 260^{\circ}$	22° $72^{\circ} 30''$	turn to WSW
1541		$21^{\circ} 53''$ $73^{\circ} 28''$	great TA data
			1544 big stuff

8/27/88 42RF 6:30 AM TO
backup for AF (2)
SAT PM

Lead Project Scientist Event Log

Date 26 Aug 1988 Flight 880826I1 LPS MARKS

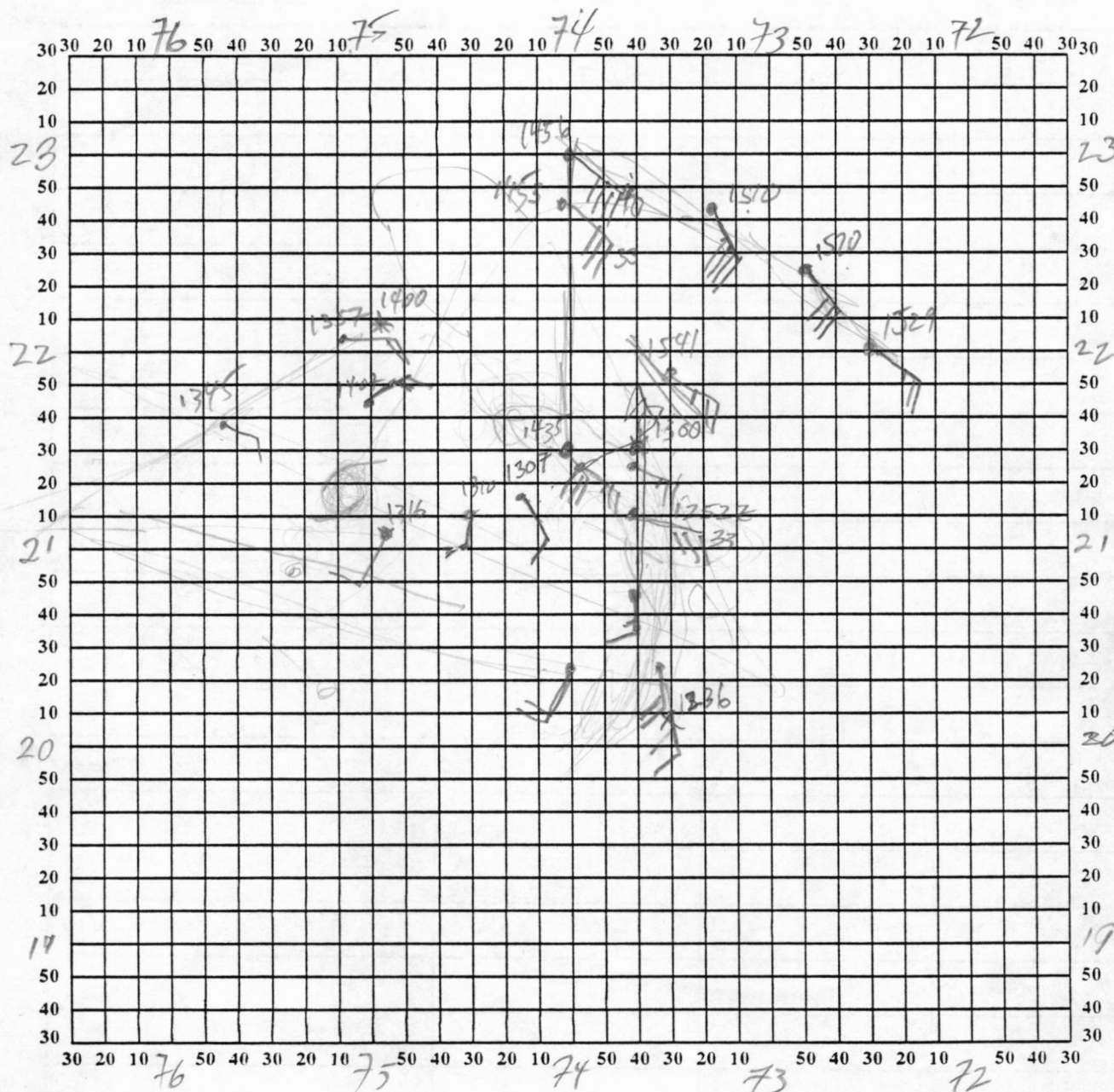
Time	Event	Position	Comments
1605	Turn TK 360	21°09" 74°50"	1609.9 turn N to
1620		good TA display	get extent of gale
1634	turn TK 270	22°54" 75°00"	turn SW to get
		just south of KI	into ADIZ before it
			closes at 1705Z
1649	turn TK 180 to G	22°09" 75°27"	
1659	G	21°30" 75°22"	1009 mb big broad center ~80-100 km
	turn TK 035 out of ADIZ		from correction to The E and NE
1714		great TA data	
1720	TURN TO 290°	22°30" 74°30"	
1727		good TA data	
1740	TA DSC went down when someone at the data tech station accidentally turned off the display sinc generator		
1741	climb out for ferry to MIA		

Hurricane Recco Plotting Chart

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

1500'

Date 26 Aug 1988 Longitude _____ Observer MARKS



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

Date 26 Aug 1988 Flight 880826I LPS MARKS

[illegible]