19900830I1_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
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On-Board Lead Project Scientist Check List

Date _____ Aircraft _____ Flight ID _____

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.		Flight Director	
Cloud Physics		Pilots	
Radar		Navigator	
Doppler		Sys. Engr.	
Photographer		Data Tech.	
Omegasonde		El. Tech.	
AXBT/AXCP		Other	

Take-Off	Location	Landing	Location

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
AF 1500	27.1	57.8	971 mb	

C. Mission Briefing

D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	✓		
Radar	✓		
Cloud physics	We'll see how it goes		
Data system	✓		
Omegasondes	None		
AXBT/AXCP	None		
Doppler	✓		
Photography			

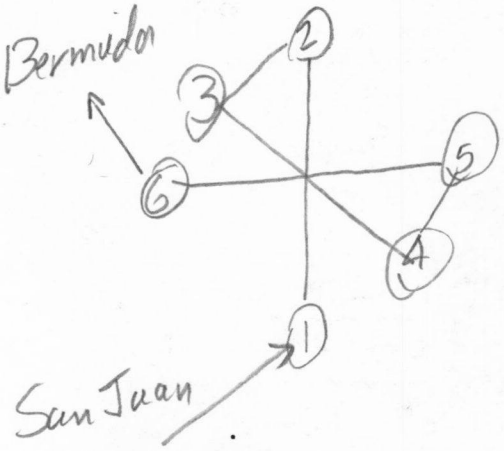
REMARKS:

Abbreviated pattern of "Eyewall Evolution" on ferry from San Juan to Bermuda. We may do "Energetics" tomorrow. This will be the 3rd day going as 3 days of inner-core evolution, day-to-day with several hours as well as 3 days of hour-to-hour evolution

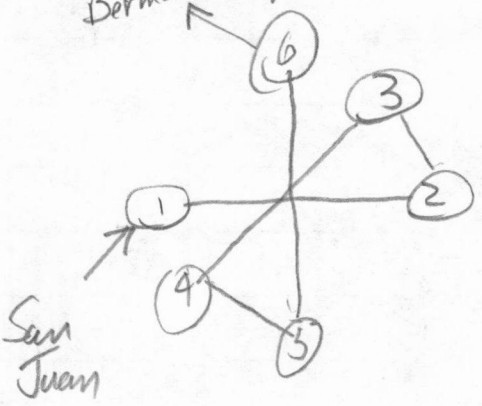
Problems with radar data in S.E. FAST scan

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

43 RF "us"



Bermuda 42 RF



Start in San Juan
Land in Bermuda

E. II. Actual Flight Pattern

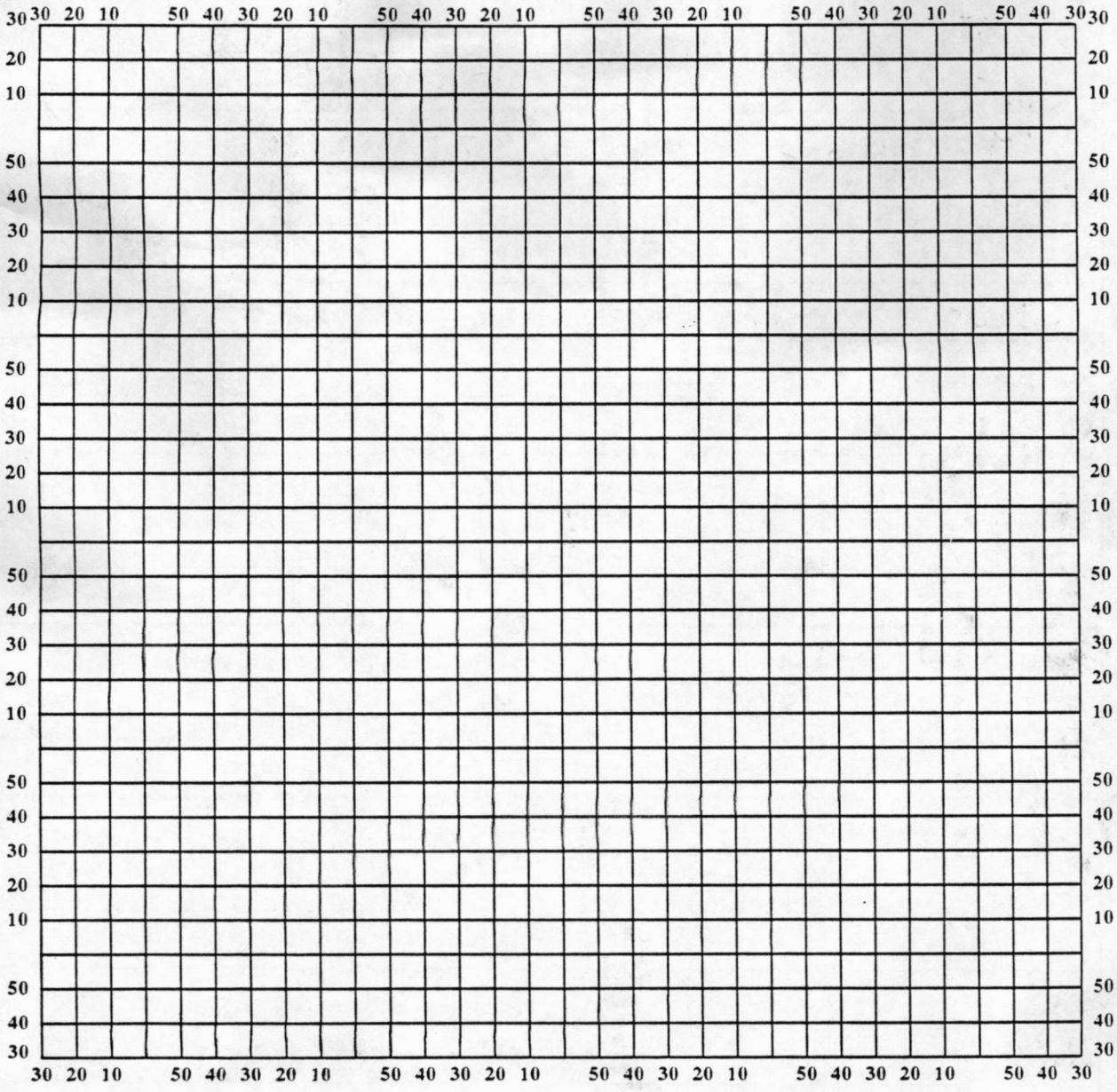
As planned.

4 tapes Radar/Doppler

Hurricane Recco Plotting Chart

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

Date 8/30/90 Longitude 900830I1 Observer Gamache



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

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"Gustav"

Lead Project Scientist Event Log

Date 8/30/90 Flight 900830I1 LPS Gamache

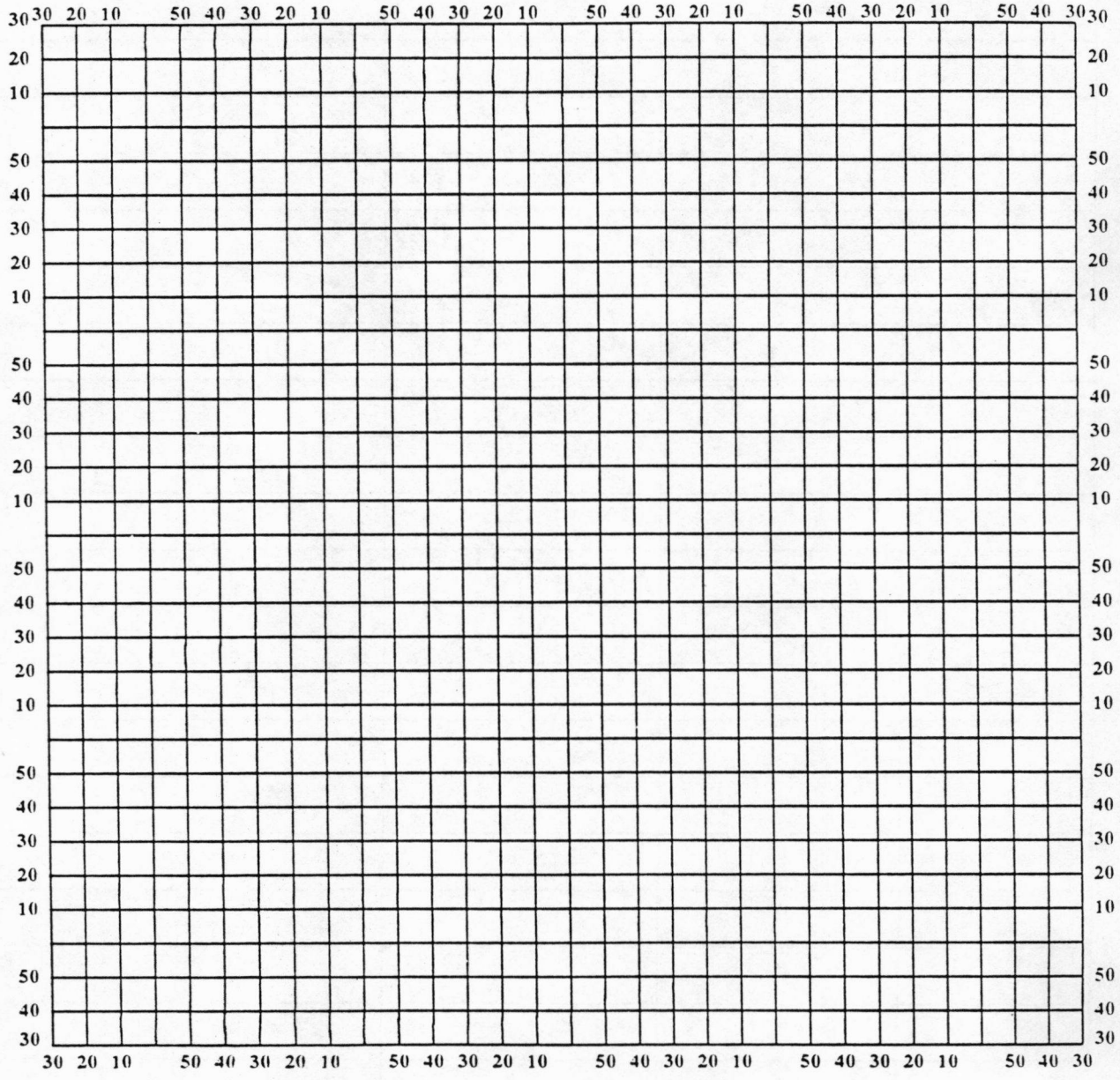
Time	Event	Position	Comments
1715	T/O	San Juan	Nominal
1917		25 35 58 55	Eye at 90° heading 150nm, NW semicircle looks best
1943	turn to 360° (1)	26 56 57 36	
2000			Jet cuts 85kts at surface 100kt Rtl wl
2005			photos taken clockwise from left cockpit to left rear window
~2005	9	28°08' 57 42	962mb 105kts max
			~105kts on N 105°
2018	(2)	28°59' 57 45	
2024	(3)	28°46' 58°17'	
2047	(4)	27°41' 59°4'	D
~~2107~~			radar problem
2107	(5)	28°23' 56°45'	
2115	(6)	28°25' 57°23'	east eyewall 115kts steady
2120	9		955mb
2125	west eyewall	28 25 58°0'	about 90knots
2130	climb FP		
2035	9	28°16' 57°44'	not quite 15 good 96mb
2120	9	28°20' 57°38'	958mb good fix
2302	Landing	~~230~~ Bermuda	

Time on slides is 56min slow

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

Lead Project Scientist Event Log

Date 8/30/90 Flight 900830I1 LPS Gamache

Time	Event	Position	Comments

Form E-2
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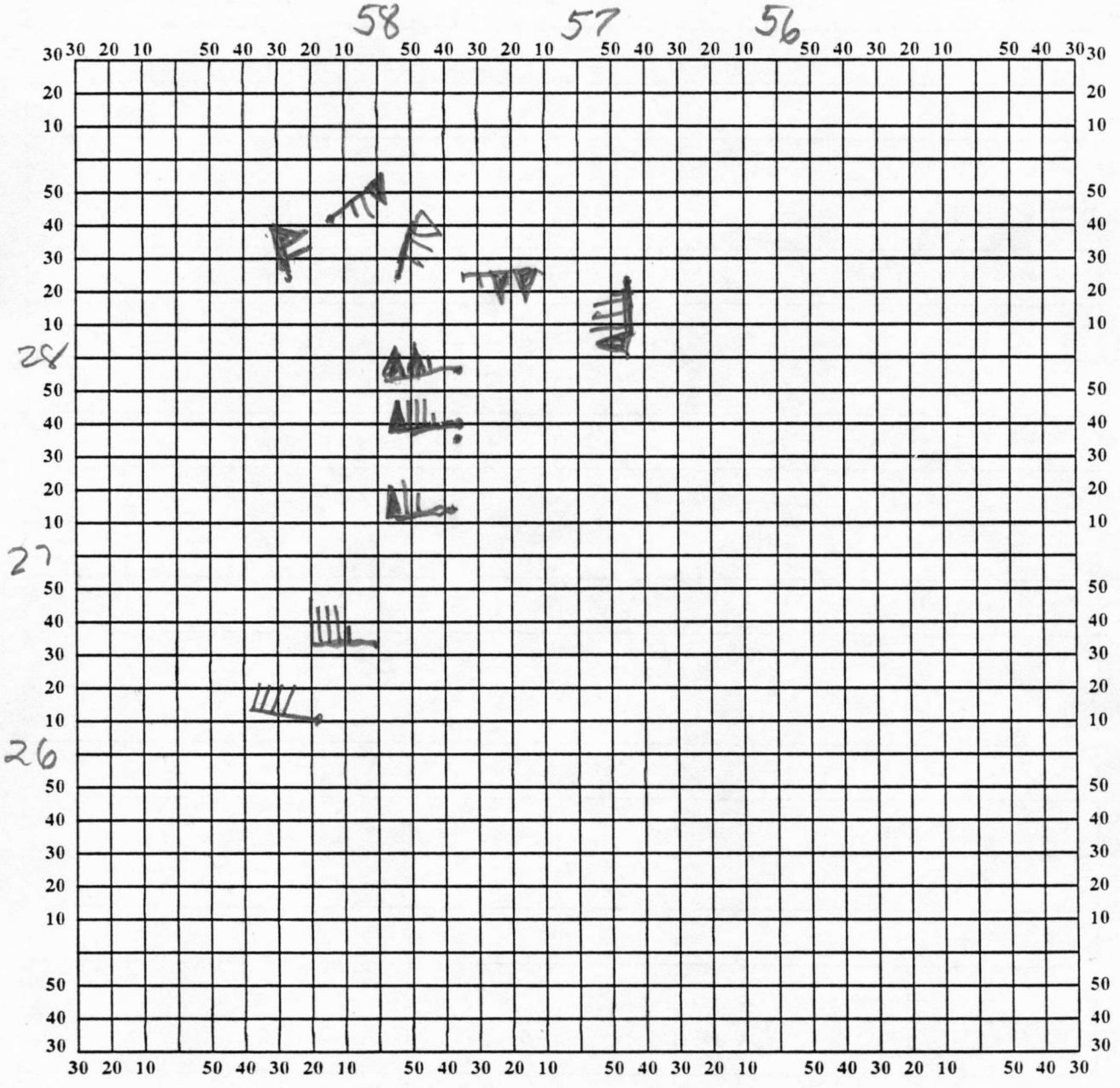
Hurricane Recco Plotting Chart

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

Date 8/30/90 Longitude _____ Observer Gamache



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

Lead Project Scientist Event Log

Date ________________ Flight ________________ LPS ________________

Time	Event	Position	Comments