19930829I1_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. 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.

Hurricane Emily

Form E-2
Page 1 of 5

On-Board Lead Project Scientist Check List

Date 29 August 1993 Aircraft NOAA43 Flight ID 930829I

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	Burpee	Flight Director	Bogert
Cloud Physics		Pilots	McKim, Phillipsborn
Radar	Marks	Navigator	Kathleen Kozak
Doppler		Sys. Engr.	Goldstein
Photographer	N.A.	Data Tech.	Lynch
Omegasonde	Franklin	El. Tech.	Bradas
AXBT/AXCP		Other	
Workstation	Griffin		

Take-Off 1800402 Location Bermuda Landing Location

B. Past and Forecast Storm Locations

	Date/Time	Latitude	Longitude	MSLP	Max. Wind
	29/1332Z	30.2°N	69.3°W	978	70 kt
forecast	29/1800Z	30.5	70.0		75
	30/0600Z	31.0	72.2		80

C. Mission Briefing

Synoptic flow experiment on the north side of Hurricane Emily. Because of the relatively poor performance of the ODW data system on the previous 2 days, the plan is for NOAA43 to remain on the north side of the storm in relatively clear air - no eyewall penetrations are in the plan to maximize the performance of the ODW system.

D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	✓	✓	✓
Radar	✓	✓	✓
Cloud physics	cloud OK 2DP ~~some~~ minor problems	no change -	no clouds
Data system	✓	✓	✓
Omegasondes	~~Omega signal good on ground~~	~~weak signals after takeoff~~	✓
AXBT/AXCP	NA	NA	NA
Doppler	✓	✓	✓
Photography	not on airplane	NA	NA
workstation	✓	✓	✓

some problems just before takeoff but fixed

REMARKS:

completed pattern as diagramed
some bad sondes

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

see attached diagram

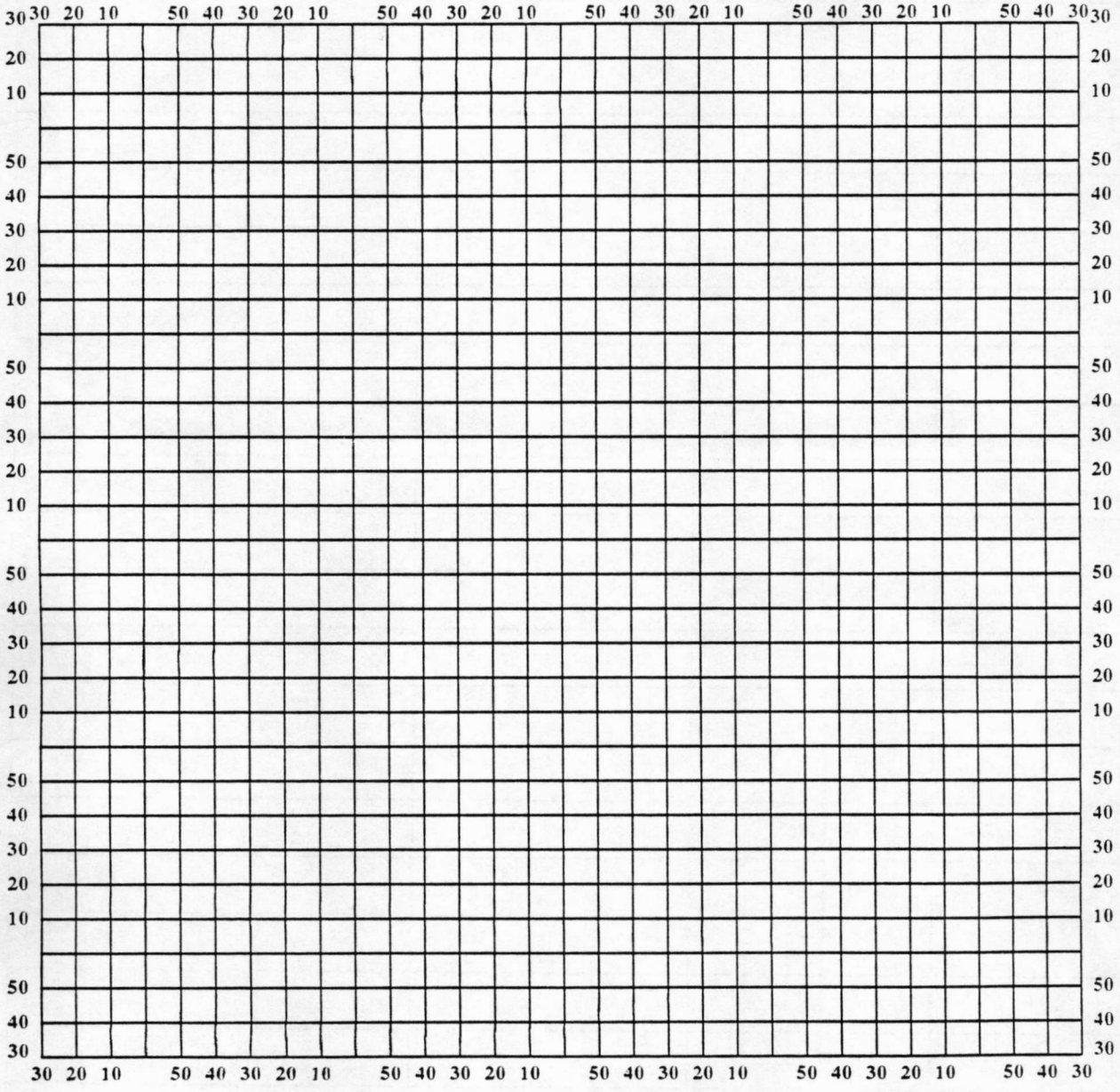
E. II. Actual Flight Pattern

as in diagram

Hurricane Recco Plotting Chart

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

Date_____ Longitude _____ Observer _____

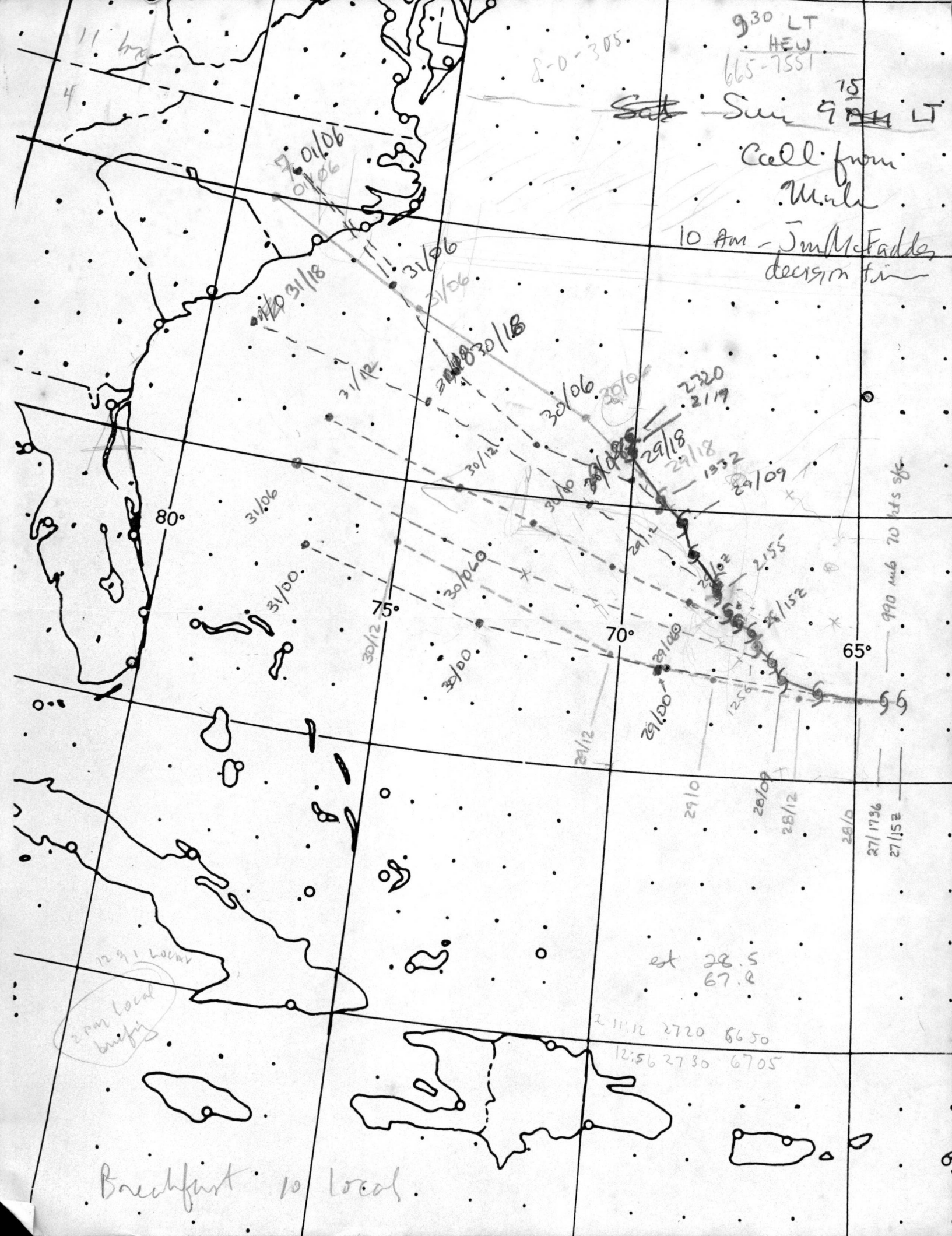


Note: Label full degrees according to location of flight area.

Lead Project Scientist Event Log

Date ________________ Flight ________________ LPS ________________

Time	Event	Position	Comments


9:30 LT
HEW
665-7551
Sun 9 LT
Call from
Mark
10 AM - Jim McFadden
decision time
80°
75°
70°
65°
31/06
31/18
31/12
30/06
30/18
30/12
29/18
29/12
29/09
29/00
28/12
28/09
27/1736
27/15Z
990 mb
est 28.5
67.8
Breakfast 10 local