

E.2 Lead Project Scientist (On-board)

19870923IL LPS

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 (FQOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

On-Board Lead Project Scientist Checklist

Date 9/23/87

Aircraft 43RF

Flight ID 870923J ^{Emily}

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj Sci	<u>Markus</u>	Flight Direc	<u>Masters</u>
Cloud Physics	<u>Willis</u>	Pilots	<u>Gunnore / Myers</u>
Radar	<u>Dodge</u>	Navigator	<u>Secretan</u>
Doppler	<u>Dodge / Markus</u>	Sys Engr	<u>Ricci</u>
Photographer	<u></u>	Data Tech	<u>Jarvis / Garzaquez</u>
Omegasonde	<u>Franklin</u>	El Tech	<u>Schneider</u>
AXBT/AXCP	<u></u>	Other	<u></u>

Take-Off 1753

Location STU

Landing

Location MIA

B. Past and Forecast Storm Locations

<u>Date/Time</u>	<u>Latitude</u>	<u>Longitude</u>	<u>MSLP</u>	<u>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></u>

C. Mission Briefing

Synoptic flow (1 aircraft)

D. Equipment Status

<u>Equipment</u>	<u>Pre-Flt</u>	<u>In-Flt</u>	<u>Post-Flt</u>
Aircraft	✓	✓	✓
Radar	✓	✓	✓
Cloud Physics	✓	✓	✓
Data System	✓	✓	✓
Omegasondes	✓	✓	✓
AXBT/AXCP	✓	✓	✓
Doppler	✓	✓	✓
Photography	✓	✓	✓
_____	_____	_____	_____
_____	_____	_____	_____

~~A~~
tapes

10

14

30 sondes

5

REMARKS:

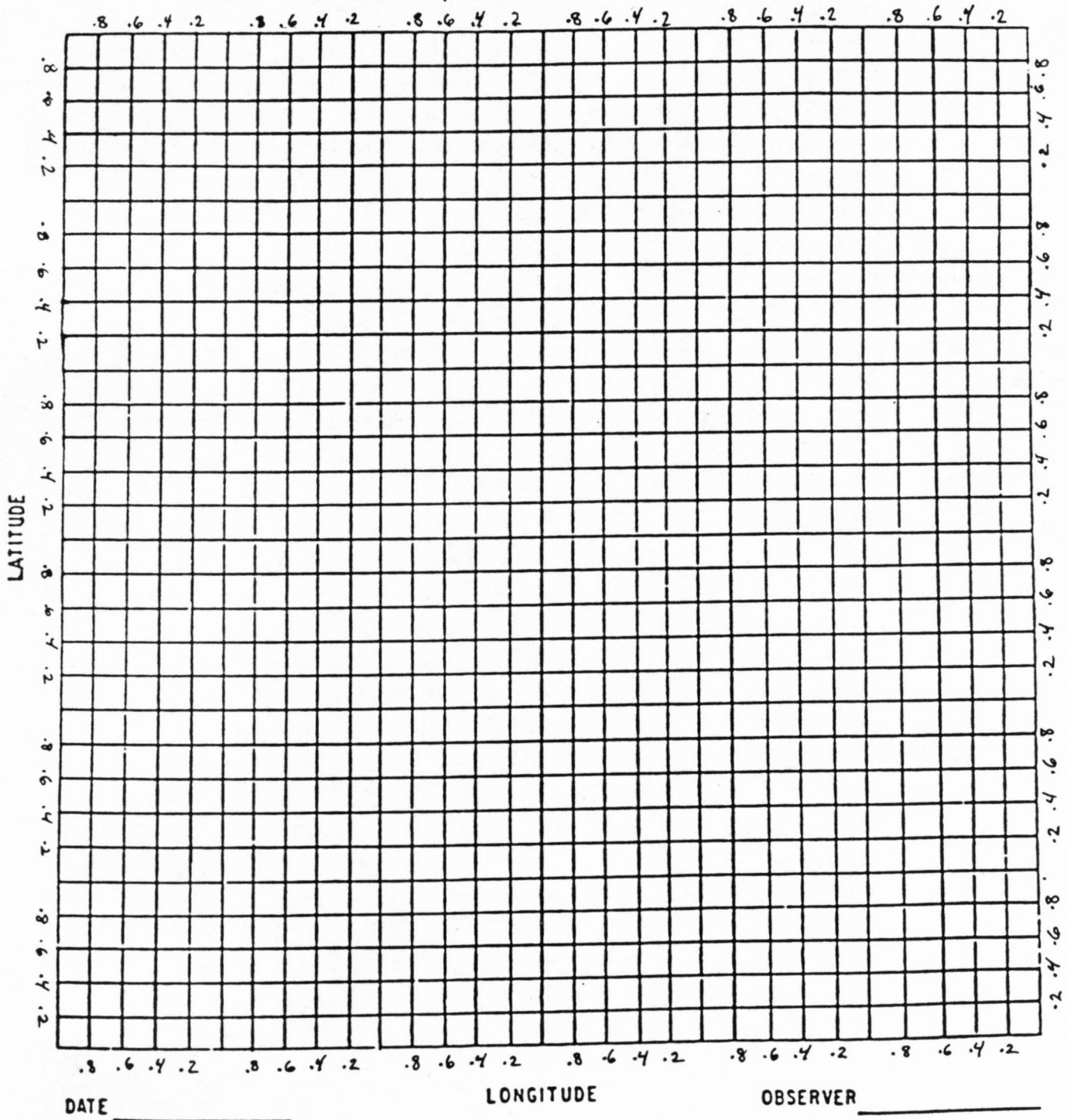
E.I. Proposed Flight Pattern (Sketch or designate by number)

see attached flight track with
drop points.

II. Actual Flight Pattern

HURRICANE RECCO PLOTTING CHART

TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



NOTE: Label full degrees according to location of flight area

Date 9/23/87 Flight 870923T LPS Marden

Lead Project Scientist Event Log

[illegible]

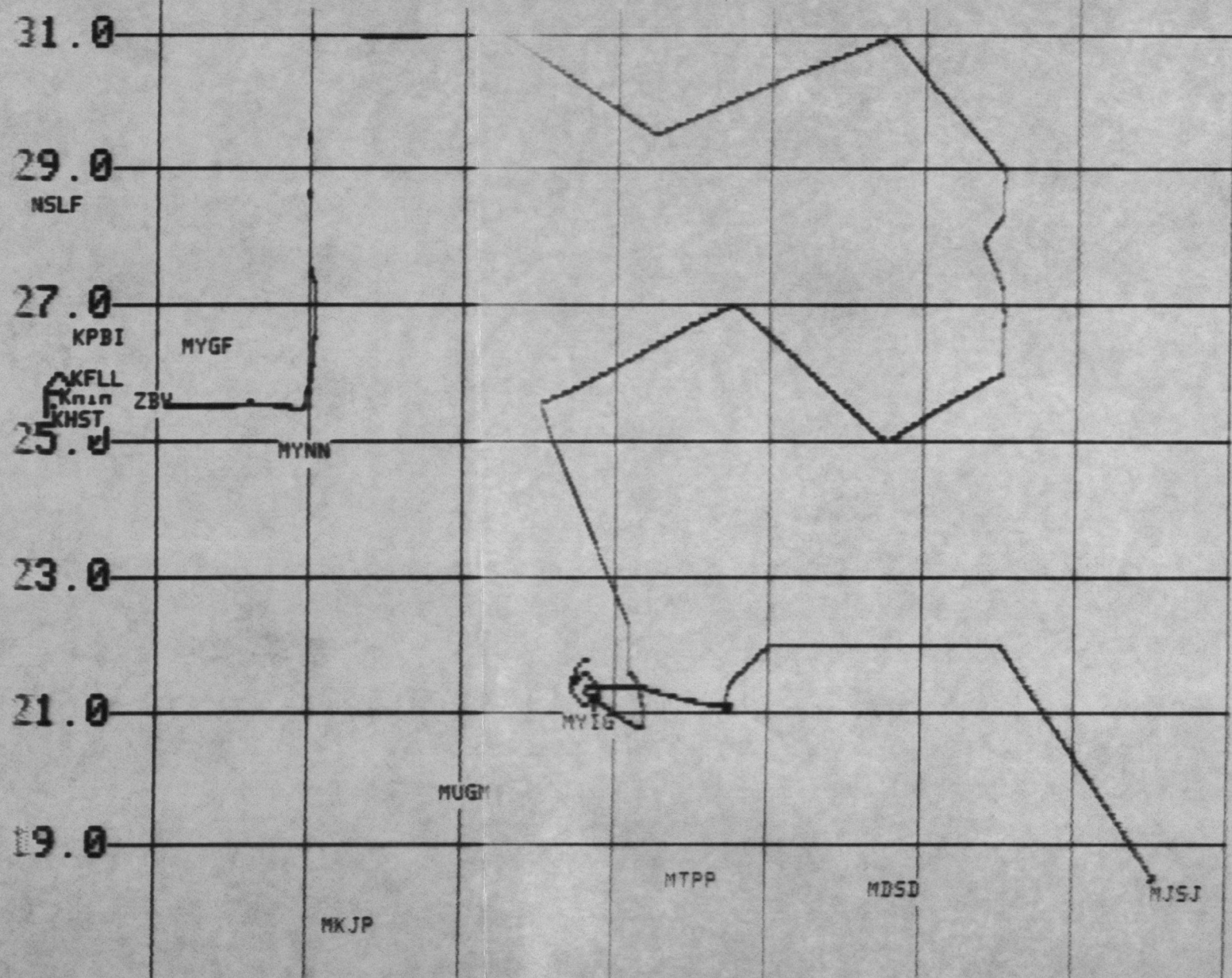
Date _____ Flight _____ LPS _____

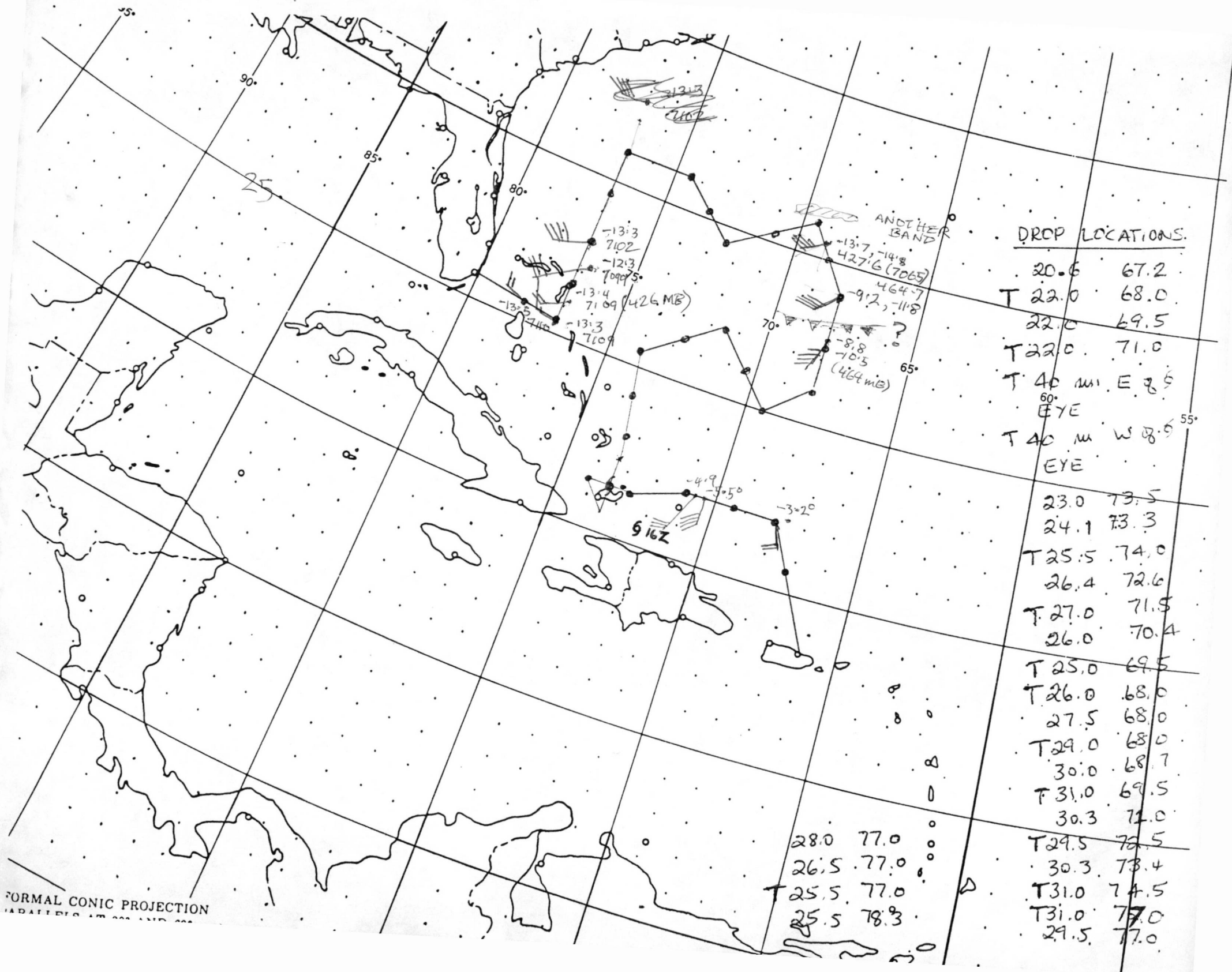
Lead Project Scientist Event Log

[illegible]

9.0 77.0 75.0 73.0 7.0 65

17:43:29 870 231 0A0/FTRK 02:51:36





DROP LOCATIONS.

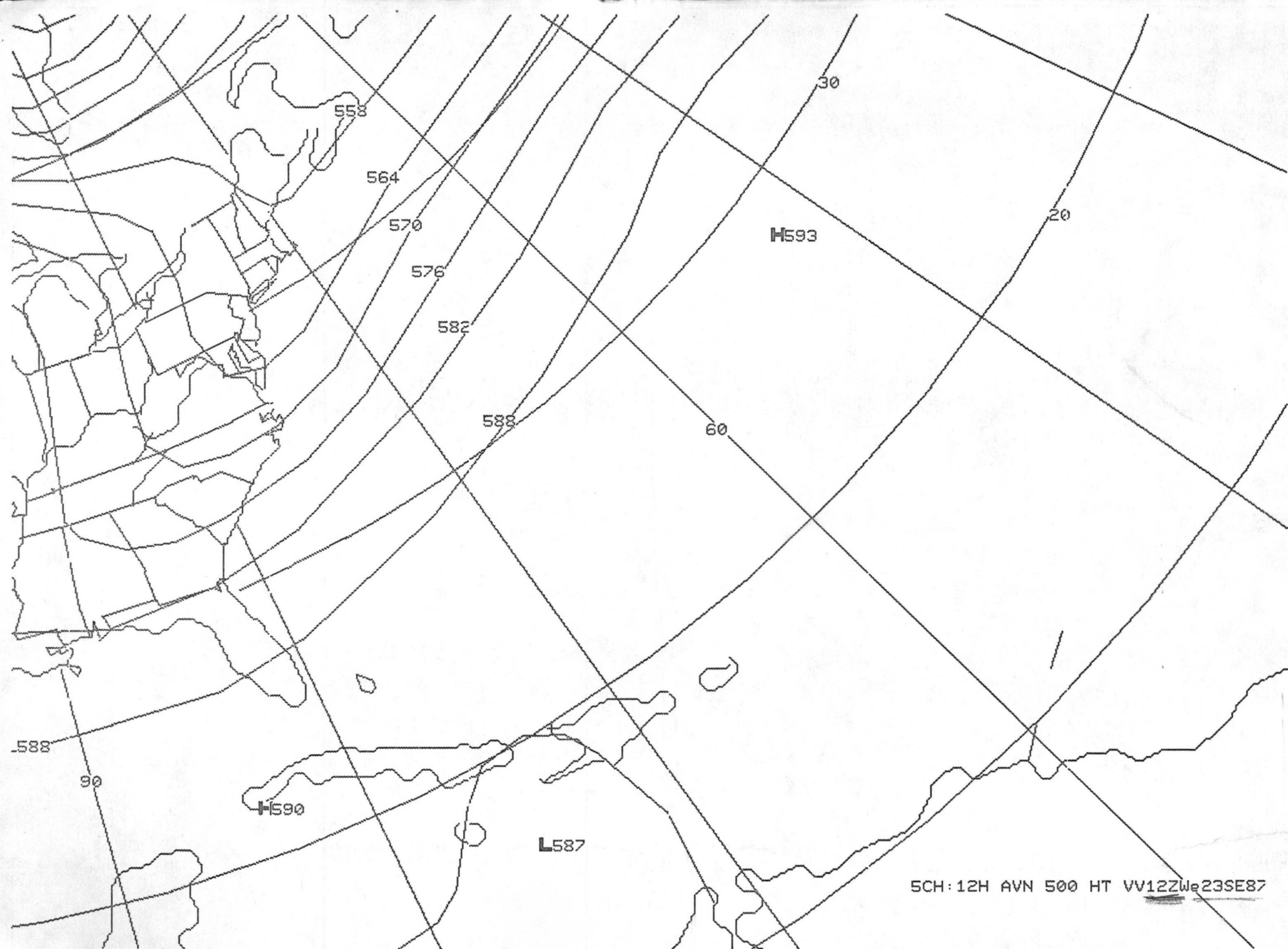
20.6	67.2
T 22.0	68.0
22.0	69.5
T 22.0	71.0
T 40 mi E 8.5	
EYE	
T 40 mi W 8.5	
EYE	
23.0	73.5
24.1	73.3
T 25.5	74.0
26.4	72.6
T 27.0	71.5
26.0	70.4
T 25.0	69.5
T 26.0	68.0
27.5	68.0
T 29.0	68.0
30.0	68.7
T 31.0	69.5
30.3	71.0
T 29.5	70.5
30.3	73.4
T 31.0	74.5
T 31.0	77.0
29.5	77.0

28.0 77.0

26.5 77.0

T 25.5 77.0

25.5 78.3



5CH:12H AVN 500 HT VV12ZWe23SE87