

19871012I1-LTS

E.2 Lead Project Scientist (On-Board)

Floyd
871012I1

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.

On-Board Lead Project Scientist Checklist

Date 12 Oct. 1987 Aircraft 43RF Flight ID 871012E1

A. Participants

| HRD | | OAO | |
|---------------|----------------|--------------|--------------------------|
| Function | Participant | Function | Participant |
| Lead Proj Sci | <u>Marky</u> | Flight Direc | <u>Damiano</u> |
| Cloud Physics | <u>—</u> | Pilots | <u>Geuzinger/Treknor</u> |
| Radar | <u>Wiggert</u> | Navigator | <u>Gerish</u> |
| Doppler | <u>Gamache</u> | Sys Engr | <u>Du G.</u> |
| Photographer | <u>—</u> | Data Tech | <u>—</u> |
| Omegasonde | <u>—</u> | El Tech | <u>—</u> |
| AXBT/AXCP | <u>—</u> | Other | <u>—</u> |

| Take-Off | Location | Landing | Location |
|----------|------------|---------|----------|
| | <u>MIA</u> | | |

B. Past and Forecast Storm Locations

| Date/Time | Latitude | Longitude | MSLP | Max Wind |
|---------------|-------------|--------------|------------|---------------|
| <u>12/18Z</u> | <u>24.8</u> | <u>81.33</u> | <u>994</u> | <u>70Kts.</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

Recco South of Florida

—

—

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 | ✓ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

REMARKS:

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



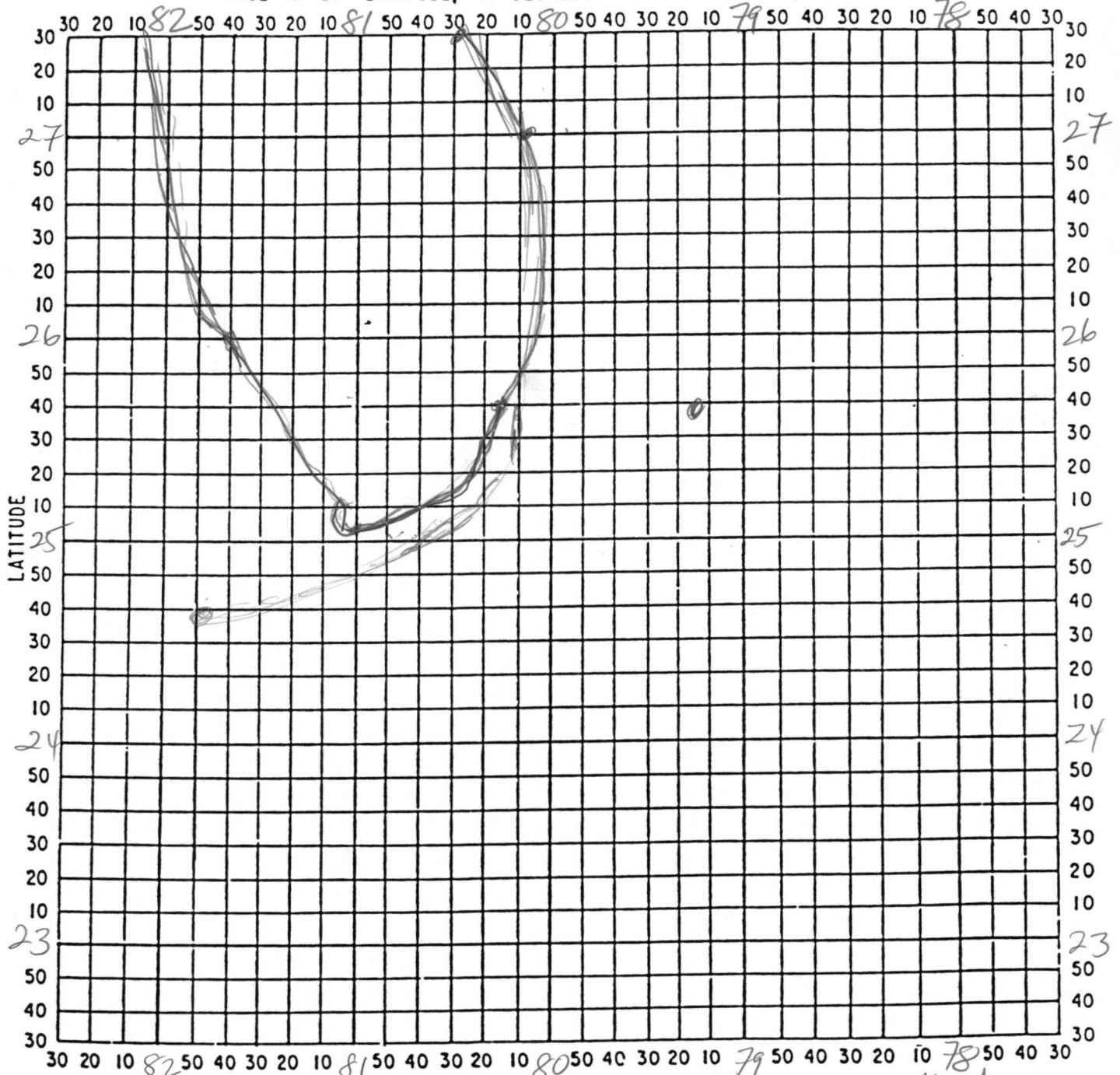
*Frustrated
Fig 4
Kite pattern*

E. II. Actual Flight Pattern

P1

HURRICANE RECCO PLOTTING CHART

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



DATE 12 Oct 1987

LONGITUDE

Floyd 871012I

OBSERVER

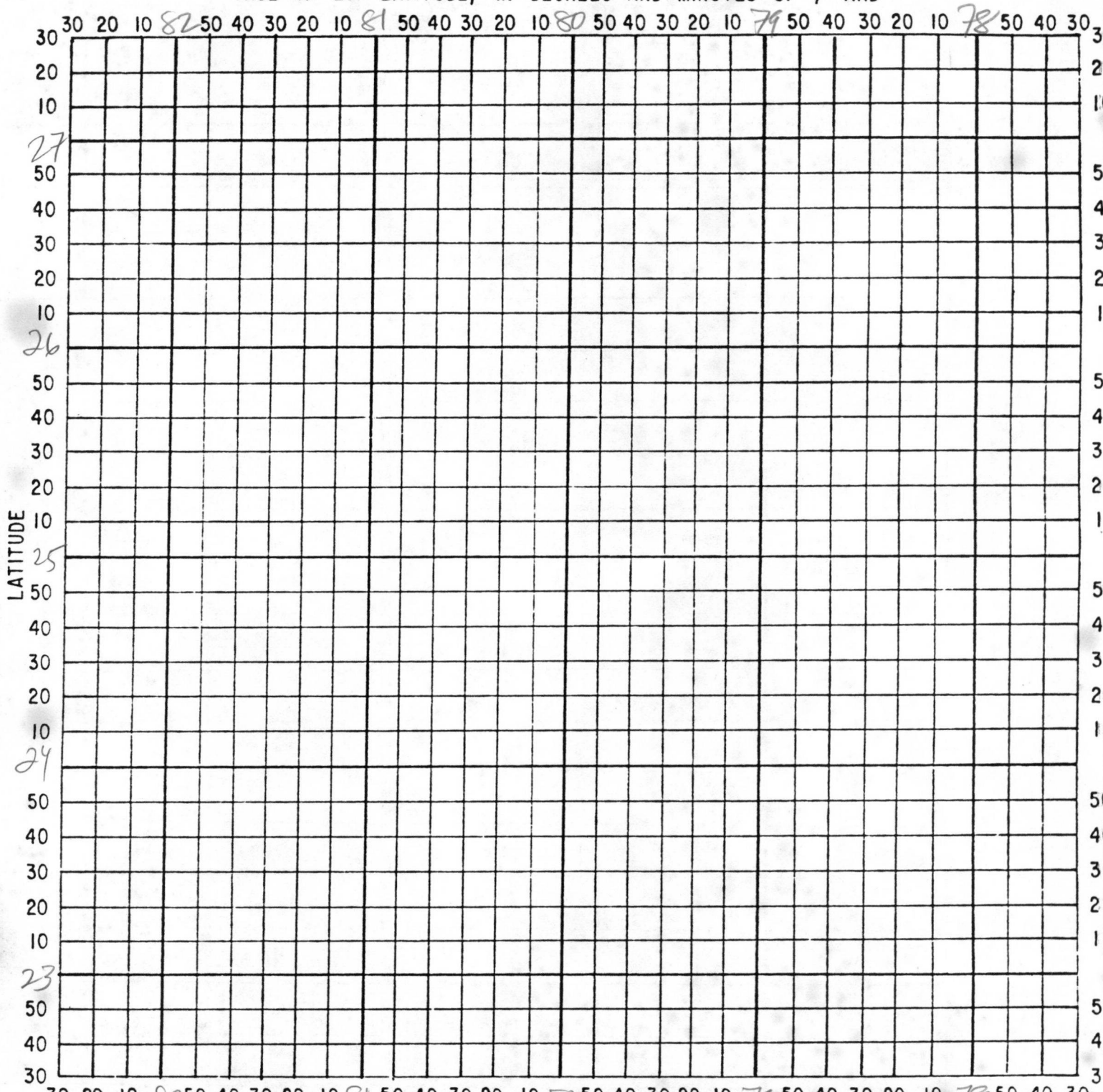
Marks

NOTE: Label full degrees according to location of flight area

2

HURRICANE RECCO PLOTTING CHART

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

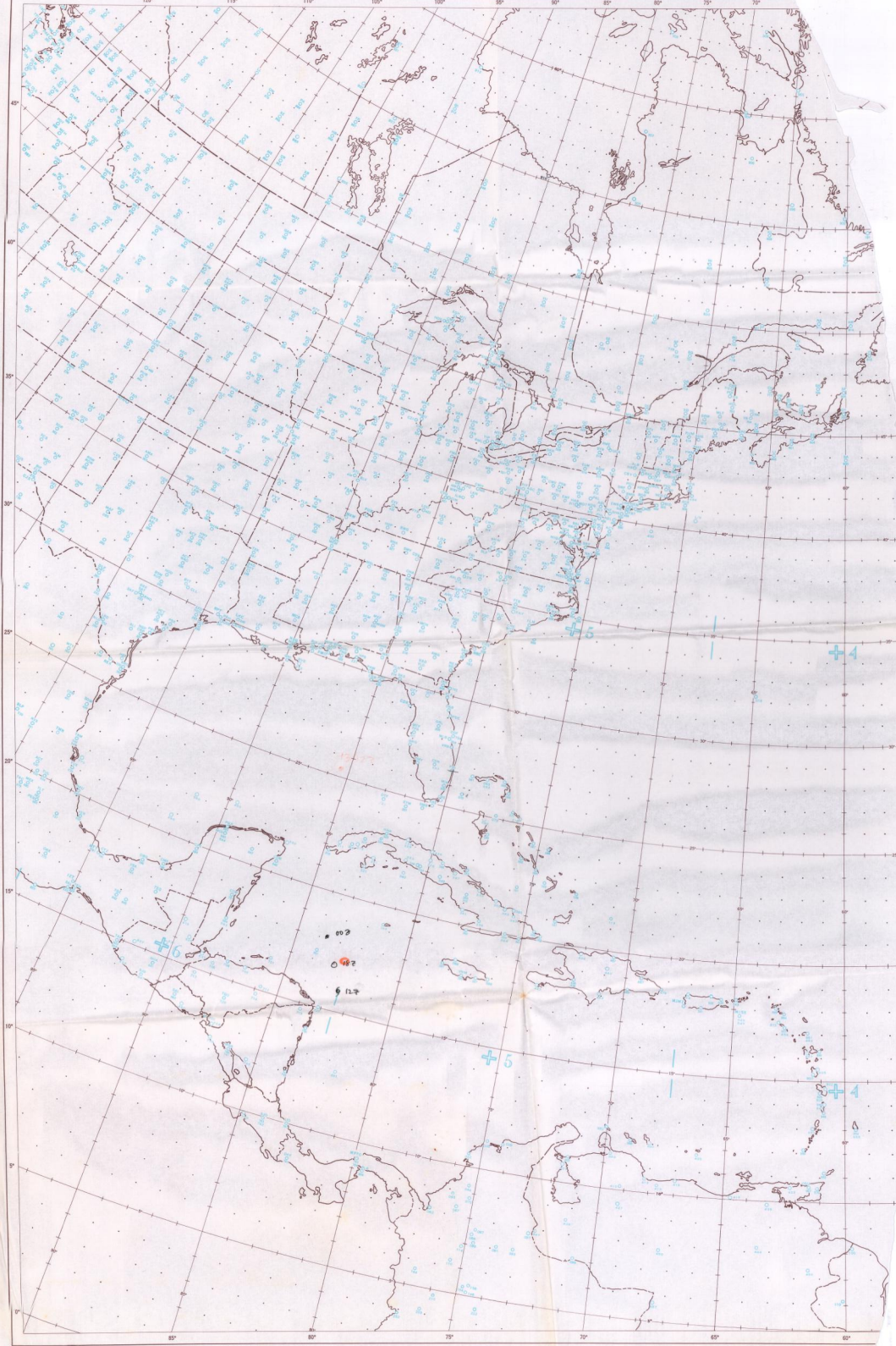


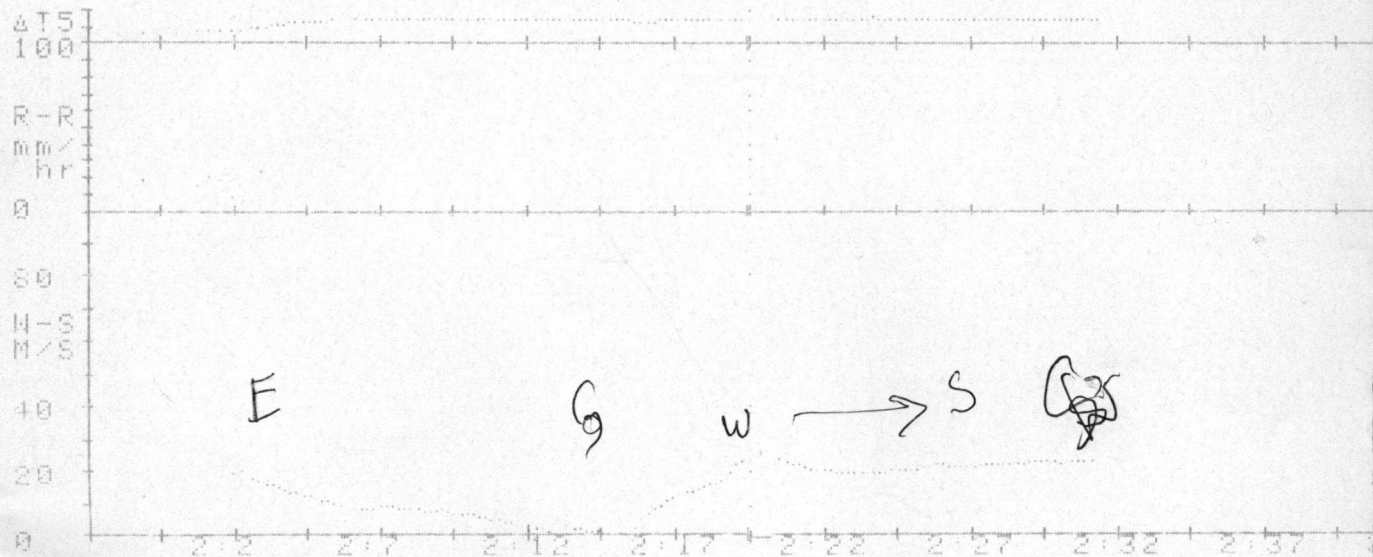
DATE Floyd 871012Z
12 Oct 1987

LONGITUDE

OBSERVER Maulis

NOTE: Label full degrees according to location of flight area





$\Delta T 5$

100

R-R

mm/

hr

0

80

W-S

M/S

40

20

0

