

19920924 I1-LPS

920924 I1
① proto Virgil?
② Hunt. Tina

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 AOC 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 AOC 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 AOC flight director 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 AOC flight director.]
- ☐ 4. Obtain a copy of the 10-s flight listing from the AOC 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.

On-Board Lead Project Scientist Check List

Date 9/24/92 Aircraft N43RF Flight ID 920924J1

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Gansche, Willis</u>	Flight Director	<u>Parrish</u>
Cloud Physics	<u>R. Blosky, Hallett</u>	Pilots	<u>Turner, Phillips, Brown</u>
Radar	<u>Leighton</u>	Navigator	<u>Kozak</u>
Workstation	<u> </u>	Sys. Engr.	<u>Al Goldstein</u>
Photographer	<u> </u>	Data Tech.	<u>Salvatore</u>
Omegasonde	<u>Wallis</u>	El. Tech.	<u>Kevin Lynch</u>
AXBT/AXCP	<u> </u>	Other	<u>Flight Eng: Bust</u>

Take-Off	Location	Landing	Location
<u>155305</u>	<u>Puerto Vallarta</u>	<u> </u>	<u> </u>

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
<u>14Z</u>	<u>Est 17N</u>	<u>104W</u>	<u>?</u>	<u>?</u>
<u>18Z Prog</u>	<u>12.4</u>	<u>110.8</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

920924I1

D. Equipment Status

<u>Equipment</u>	<u>Pre-Flight</u>	<u>In-Flight</u>	<u>Post-Flight</u>
Aircraft	✓	engine prob	
Radar/LF	✓	✓	
Radar/TA (Doppler)	✓	✓	
Cloud physics	2DP yes 2DC ?	2DC good 2DP ?	
Data system	✓	✓	
Omegasondes	✓	None	
AXBT/AXCP	none	none	
Workstation	none	none	
Photography	✓		

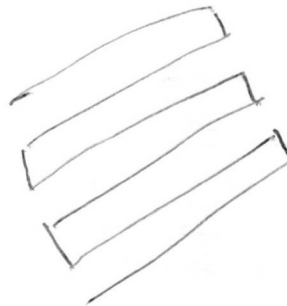
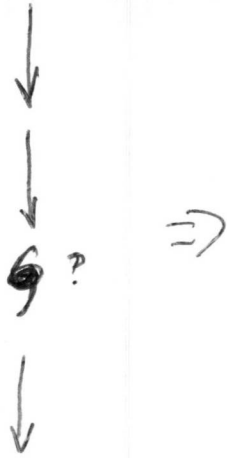
REMARKS:

ING 2 alignment problem.

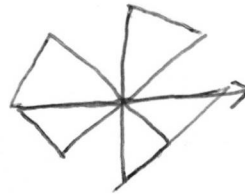
Radar is using ING 1

First we tried to fly a dual-Doppler structure pattern in a cloud cluster which we thought had a significant circulation, but couldn't find 15-20 kts. Then we flew three passes of the eye wall structure flight plan before beginning electrification. On the first pass at 17,000 ft, we encountered a rpm problem with the #3 prop engine ending scientific flight. The NF2RF stayed on and continued flying figure 4's in Harmonic Time

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

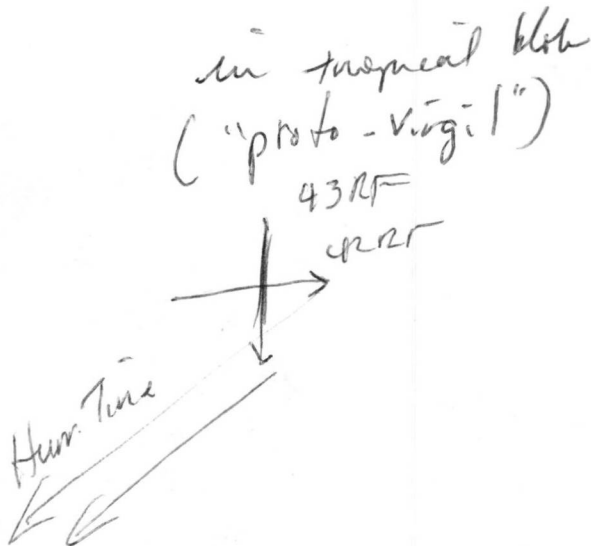


tex max type
grid
pattern
01



rotating alpha
pattern
"eyeball
evolution"

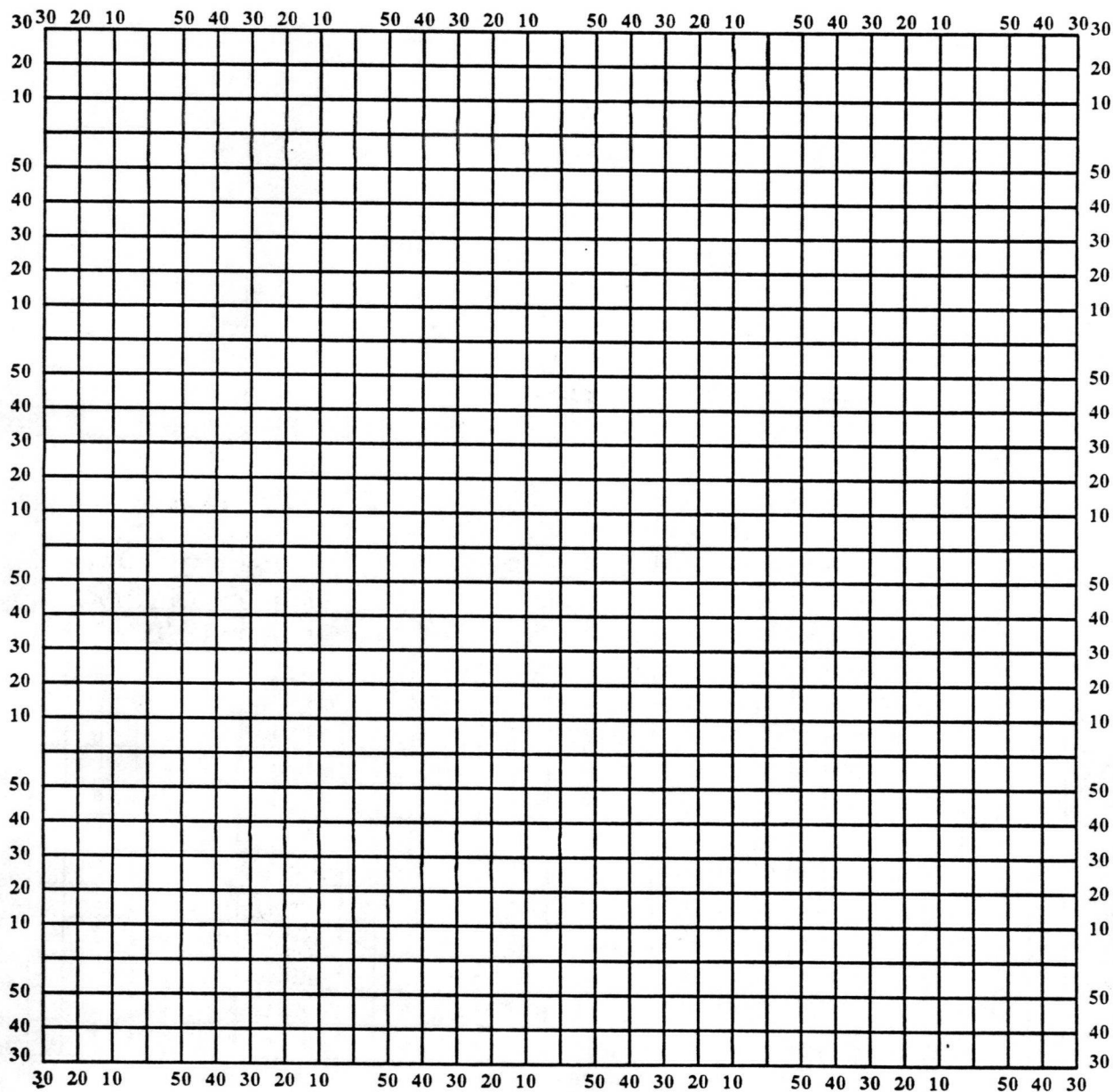
E. II. Actual Flight Pattern



Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Date _____ Aircraft _____ Observer _____

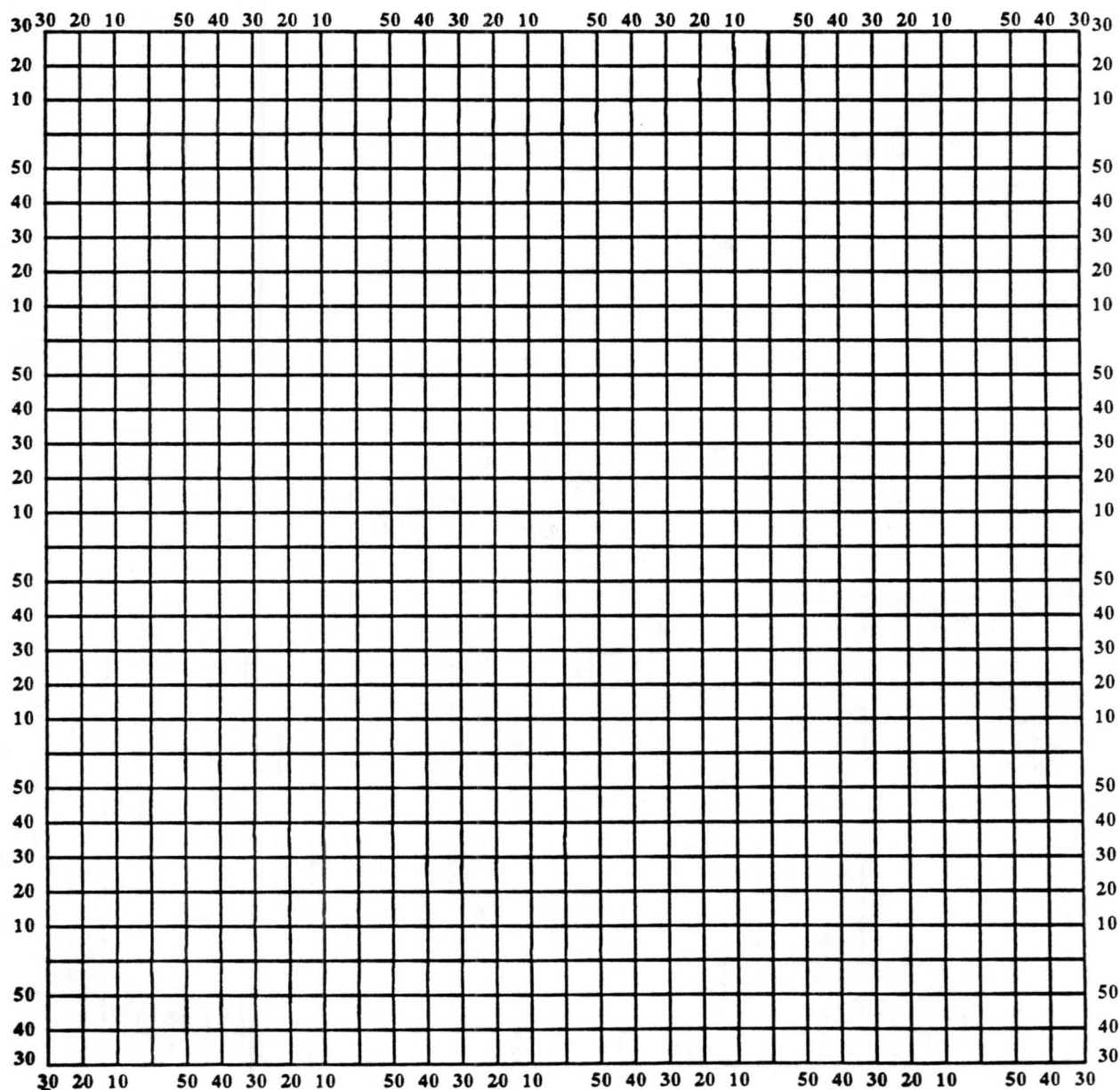


Note: Label full degrees according to location of flight area.

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Date _____ Aircraft _____ Observer _____



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

Lead Project Scientist Event Log

Date _____ Flight _____ LPS _____

[illegible]

Lead Project Scientist Event Log

Lead Project Scientist Event Log

Date _____ Flight _____ LPS _____

[illegible]

17 12
106 30° W

Lead Project Scientist Event Log

Date 9/24/92

Flight 920924I1

LPS Camache

105° 50'

Time	Event	Position	Comments
155305	T/O	P.V.	
1722	Give up	16°22' 105°1'	Gave up on "proto-Vigil" headed to Hurricane Tim
1752		13°40' 107°52'	Wind at surface has picked up thin cirrus canopy
1814		12°22' 109°8'	turning back
1822	(1)	12°12' 108°33'	Tracking 330 to radar center
1838			max winds of 50 kts
184327	6	13°29' 109°16'	min press 988
1901	(2)	14°26' 110°15'	tracking about 208°
1913	(3)	13°33' 110°37'	tracking W to E down a circle
1918	3'	13°30' 110°33'	actual beginning of W-E leg
1926		13°29' 109°58'	50 kts max I saw
19??	6	13°30' 109°17'	center visual off to left 3 mi 986.5 mb
1941		13°30' 108°43'	max winds of 45 kts
1953	(4)	13°30' 107°56'	track 340°
2007	(5)	14°38' 108°21'	will track 225° circling
2018	(6)	14°43' 108°24'	track 221°
2035?	6	13°35' 109°24'	
2046	(7)	13°2' 109°56'	track 112° climbing
2058		12°51' 109°1'	begin cloud physics -1°C

4,000 ft center

down a circle first

1337 109 9

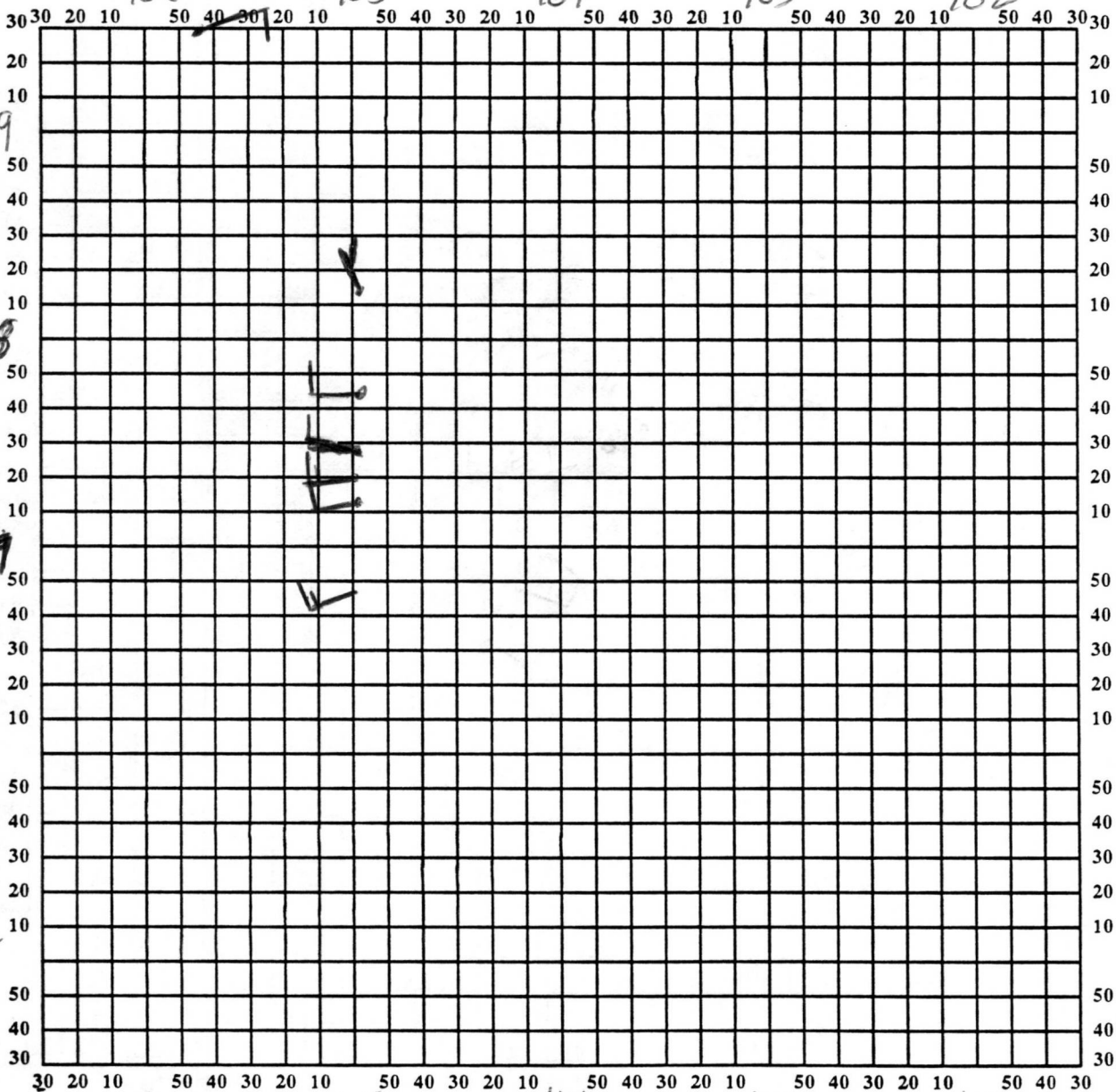
3N30
110 30

13.4 110
12 1/2 111

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Observer

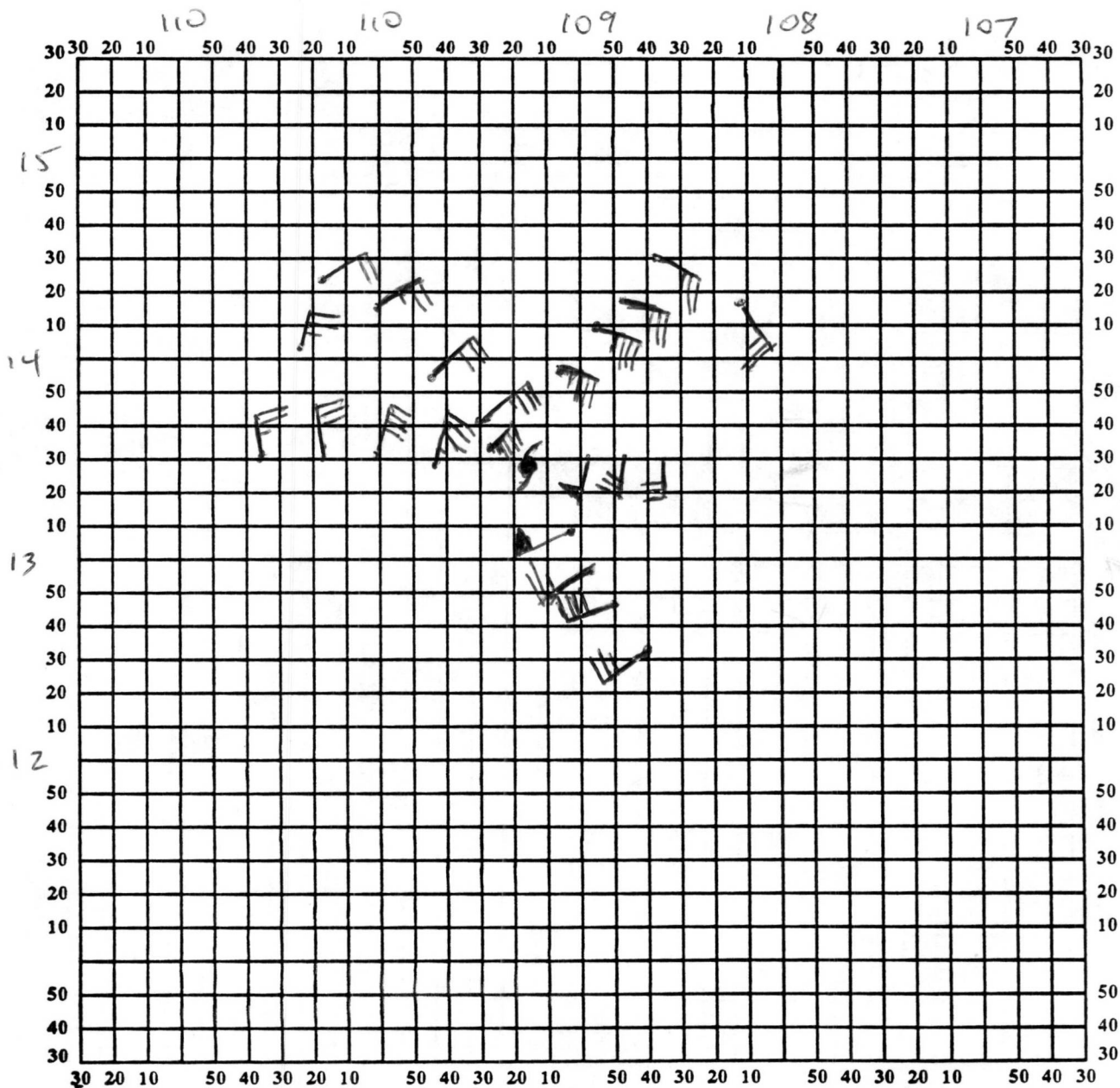


Note: Label full degrees according to location of flight area.

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Date 09/24/92 Aircraft N43RF Observer Gamache



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