

GABRIELLE

9/3/89

19890903II - 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.

29J-11EOP0891

Form E-2
Page 1 of 5

On-Board Lead Project Scientist Check List

Date 9/3/89 Aircraft 43RF Flight ID 890903I1

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Willis</u>	Flight Director	_____
Cloud Physics	<u>Garnach/Willis</u>	Pilots	_____
Radar	<u>Garnache</u>	Navigator	_____
Doppler	<u>Garnache</u>	Sys. Engr.	_____
Photographer	_____	Data Tech.	_____
Omegasonde	<u>Franklin, Brueck, DeMoria</u>	El. Tech.	_____
AXBT/AXCP	_____	Other	_____

Take-Off	Location	Landing	Location
<u>1603/24</u>	<u>BTN</u>		<u>BTN</u>

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
<u>03/10Z</u>	<u>16N</u>	<u>48W</u>	<u>960</u>	<u>110kts</u>
<u>18Z</u>	<u>16.4</u>	<u>50W</u>	_____	_____
<u>04/06Z</u>	<u>17.2</u>	<u>53W</u>	_____	_____
<u>04/18Z</u>	<u>18</u>	<u>56W</u>	_____	_____
<u>05/06</u>	<u>19.5</u>	<u>60W</u>	_____	_____

C. Mission Briefing

ENERGETICS AND BUDGET - OUTER RING

D. Equipment Status

<u>Equipment</u>	<u>Pre-Flight</u>	<u>In-Flight</u>	<u>Post-Flight</u>
Aircraft	<u>✓</u>	<u>lost #3 ENGINE</u>	<u> </u>
Radar	<u>✓</u>	<u>prop hydraulic</u>	<u> </u>
Cloud physics	<u>✓</u>	<u> </u>	<u> </u>
Data system	<u>✓</u>	<u> </u>	<u> </u>
Omegasondes	<u>✓</u>	<u> </u>	<u> </u>
AXBT/AXCP	<u> </u>	<u> </u>	<u> </u>
Doppler	<u>✓</u>	<u> </u>	<u> </u>
Photography	<u>✓</u>	<u> </u>	<u> </u>

REMARKS:

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

SEE ATTACHED

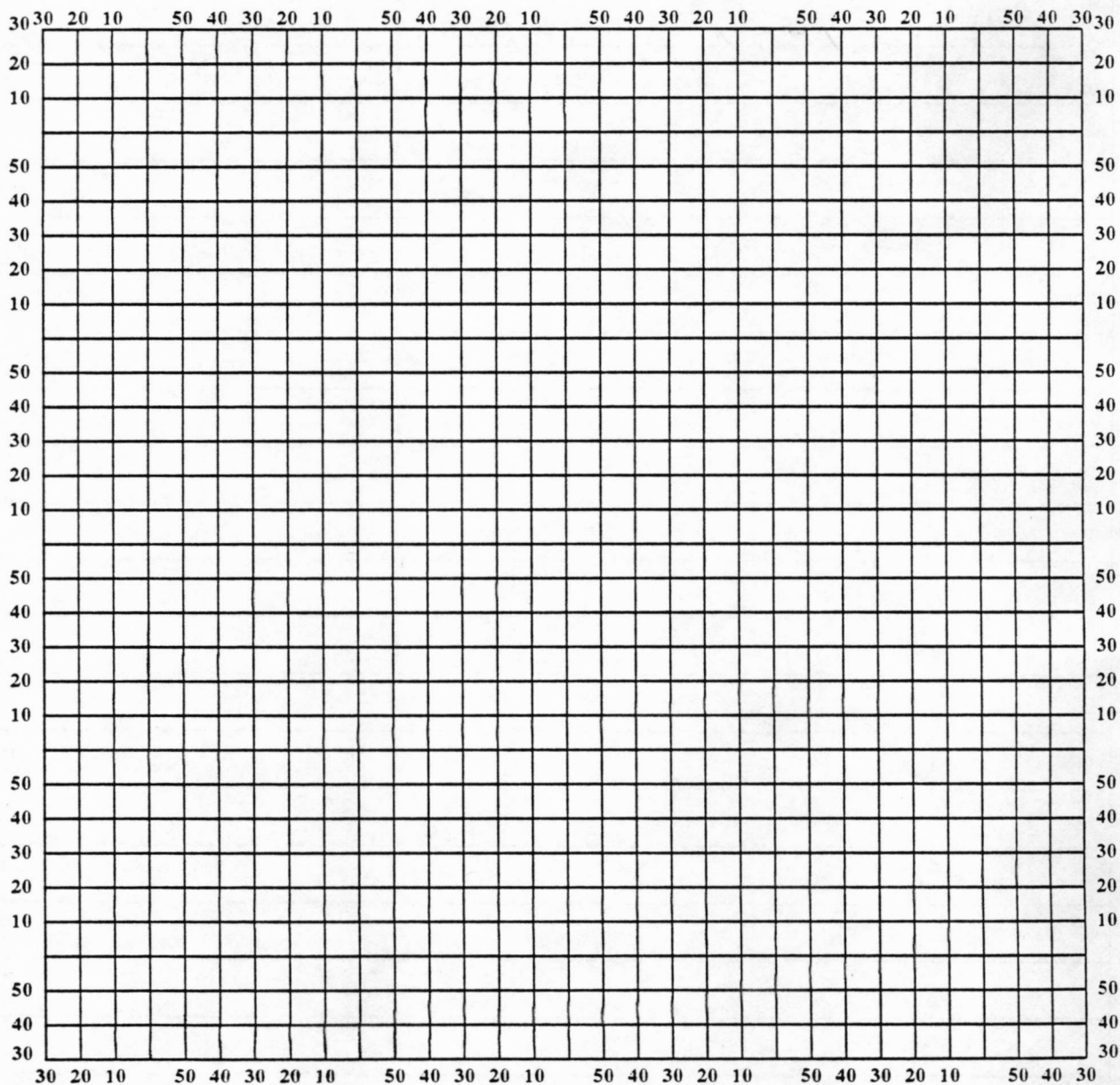
E. II. Actual Flight Pattern

SEE ATTACHED

Hurricane Recco Plotting Chart

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

Date _____ Longitude _____ Observer _____



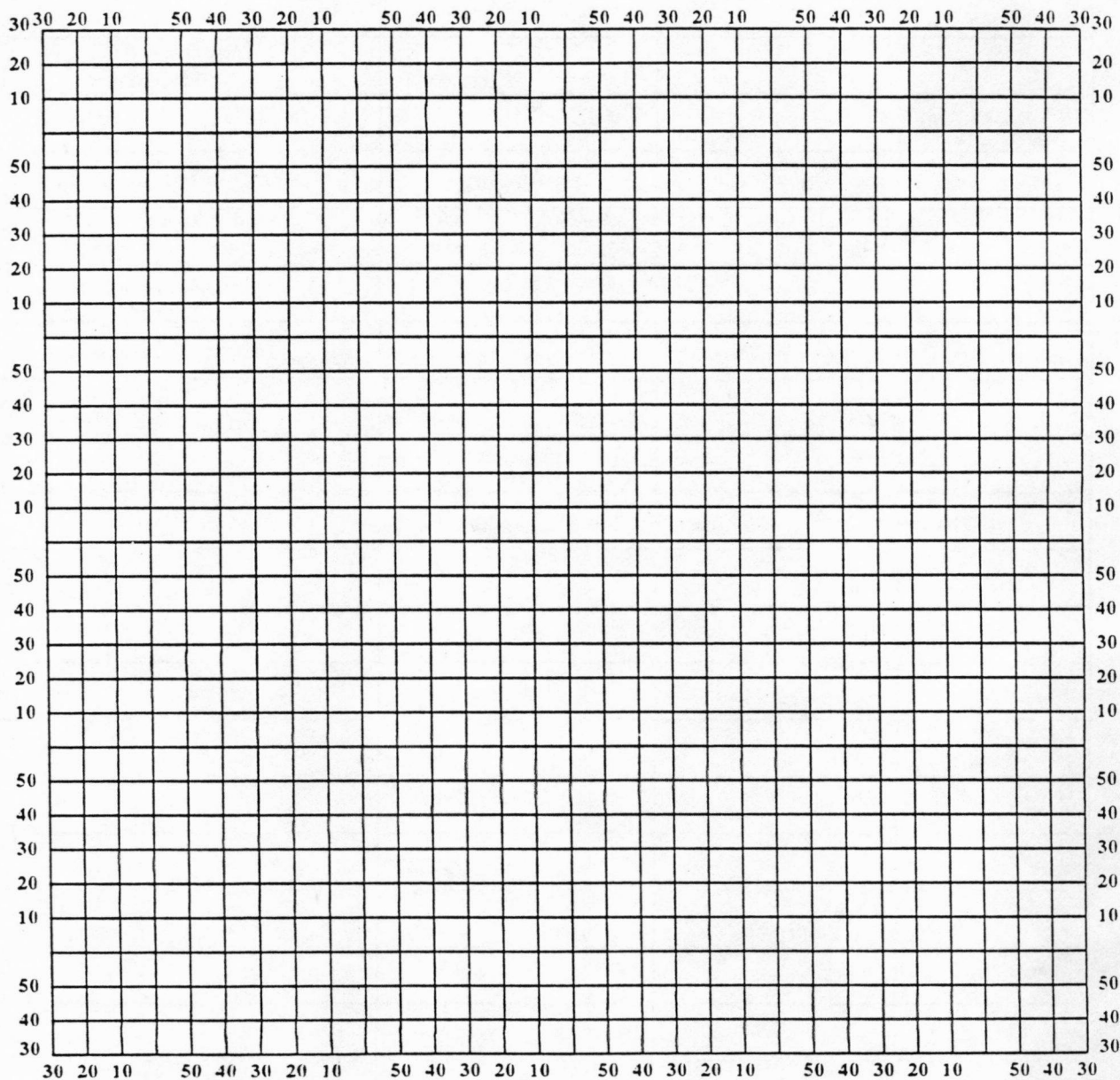
Note: Label full degrees according to location of flight area.

Lead Project Scientist Event Log

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 _____

[illegible]

PLANNED DROP and Turn Points
Gabriella Revised 1

DATE 9/3/89

FLIGHT _____

OPERATOR _____

2-D Knollenberg Data Tape Log

Tape #	EOF #	Time On	Time Off	Comments
1 ✓				14/15.5 N 53/55.0 W
2 ✓				14/49.6 52/13.5
3 ✓				13 9.5 52/24.5
4 ✓				13 56.0 51 5.6
5				12 28.1 50 15.0
6				13 56.0 49 24.0
7				13 18.1 48/5.0
8				14 58.2 48 16.0
9				15 18.1 46 33.2
10				16 36.0 47 58.0
11				17 50.0 46 45.1
12				18 10.0 48 28.5
13				19 53.5 48 29.6
14				19 11.5 50 7.4
15				20 39.4 51/00
16				19 15.2 52 7.2
17				19 57.2 53. 45.0
18				18 17.1 53 31.2
19				18 0.6 55 30.0

20

16 46.5 54 17.1

21

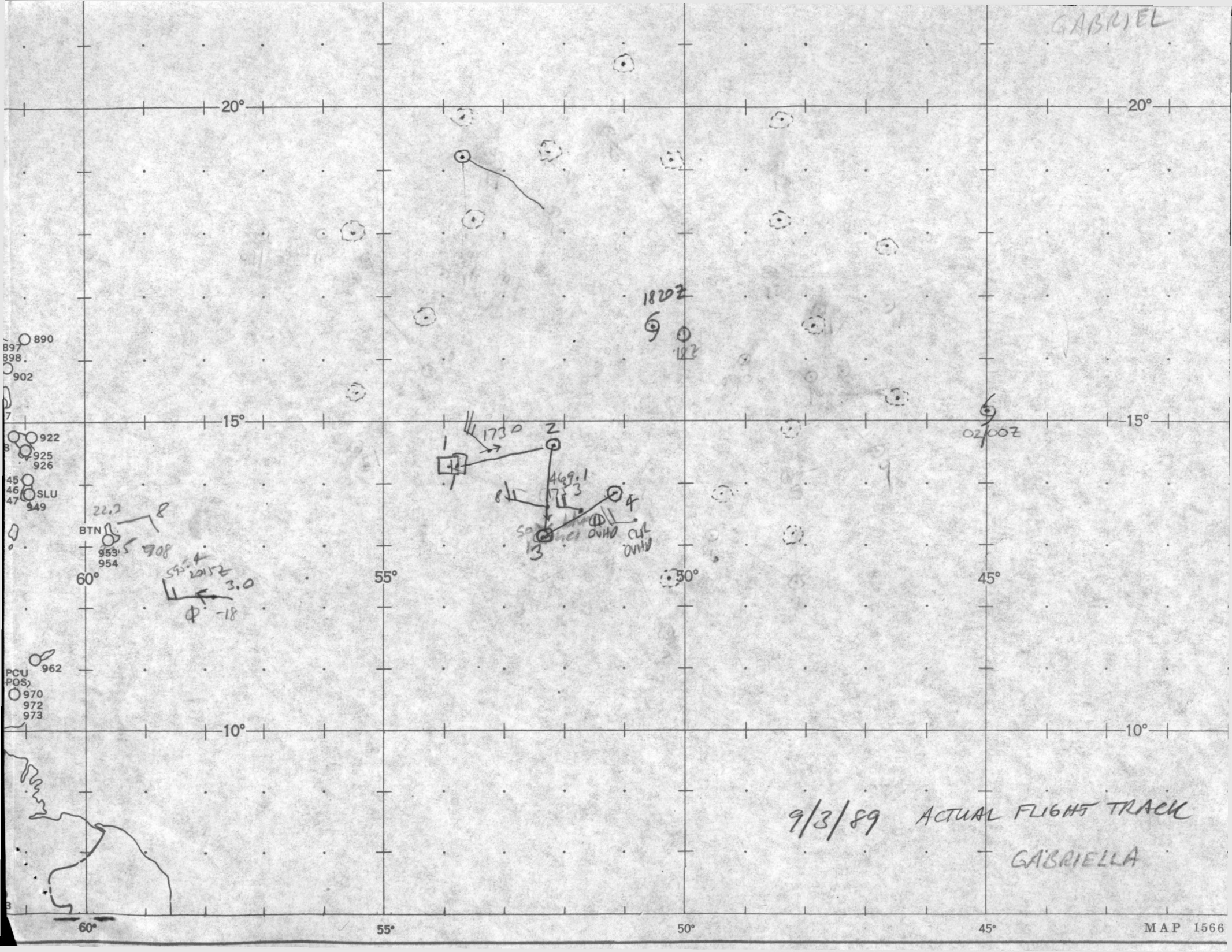
15 24.4 55 23.6

DATE _____ FLIGHT _____ OPERATOR _____

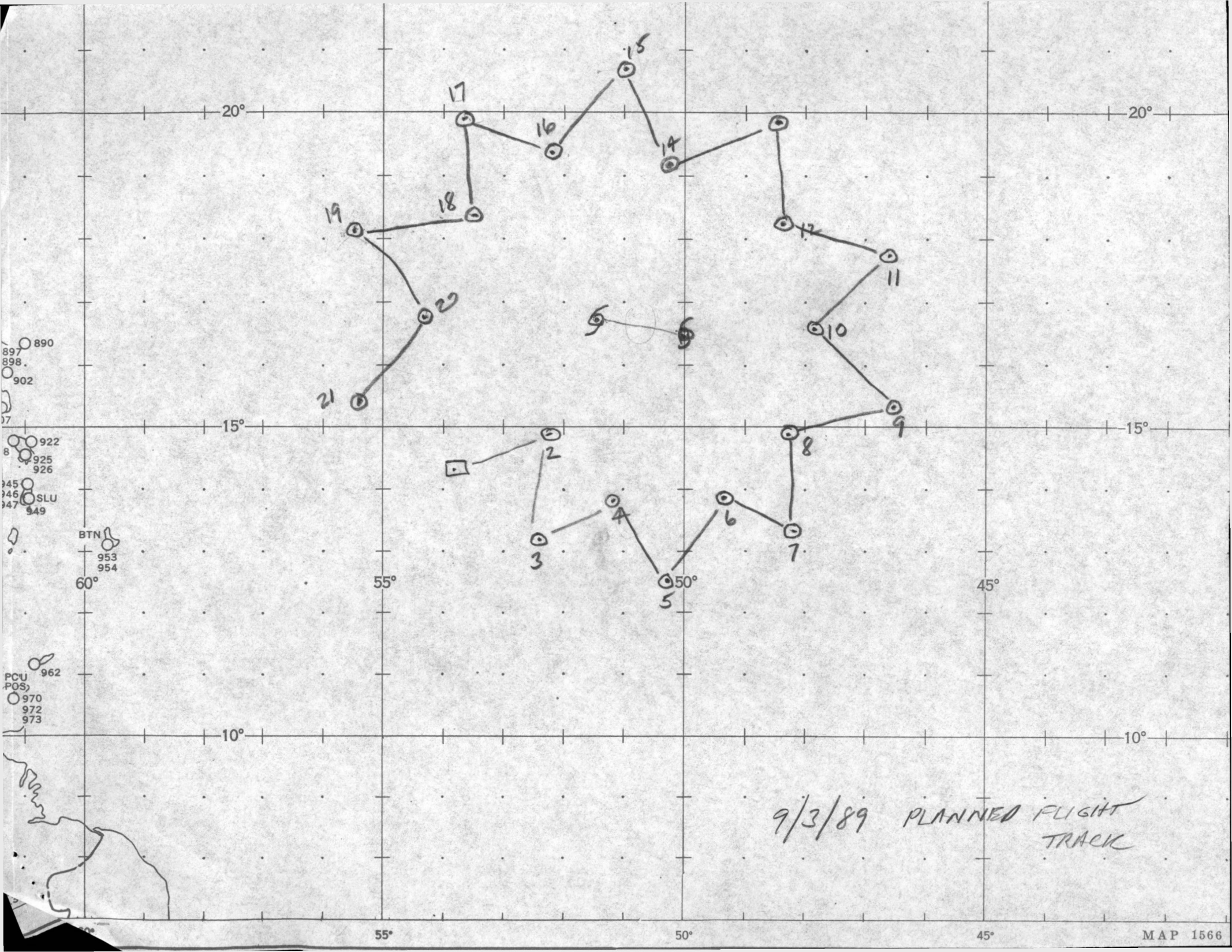
Formvar Log

[illegible]

GABRIEL



9/3/89 ACTUAL FLIGHT TRACK
GABRIELLA



9/3/89 PLANNED FLIGHT
TRACK

