

19930827H1-CP

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.

EMILY93

Form E-2
Page 1 of 5

On-Board Lead Project Scientist Check List

Date Aug 27, 1993 Aircraft N42RF Flight ID 930827H1

A. Participants

HRD

OAO

Function	Participant
Lead Proj. Sci.	<u>Gomache</u>
Cloud Physics	
Radar	<u>m. Black</u>
Doppler	
Photographer	
Omegasonde	
AXBT/AXCP	
Scatterometer	
- M. De Maria & Paylor	

Function	Participant
Flight Director	<u>Parrish</u>
Pilots	<u>Ticknor & Philipshorn</u>
Navigator	<u>Strong</u>
Sys. Engr.	
Data Tech.	
El. Tech.	
Other	

Take-Off	Location	Landing	Location
<u>1946Z</u>	<u>MIA</u>	<u>0142Z</u>	<u>BERMUDA</u>

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
<u>218</u>	<u>26.5 6</u>	<u>64.8</u>	<u>993</u>	<u>9</u>
<u>28 0Z</u>	<u>26.5</u>	<u>64.9</u>		<u>70 kts</u>
<u>28/12</u>	<u>26.5</u>	<u>66.2</u>		<u>80 kts</u>
<u>290/10</u>	<u>26.8</u>	<u>68.0</u>		<u>85 kts</u>
<u>29/12</u>	<u>27.2</u>	<u>70.2</u>		<u>90 kts</u>
<u>30/12</u>	<u>28.8</u>	<u>75.0</u>		<u>90 kts</u>

C. Mission Briefing

Signature. 43 will be primary (only) aircraft on Vortex Interaction. We will be on the inner (lower) aircraft at 8,000 ft. TEAL 16 (AUFORCE) will be in at 5,000 ft to start, possibly going to 10,000 ft. We will be at 8,000 ft PA. Figures 4's and coordination for the whole research pattern.

D. Equipment Status

<u>Equipment</u>	<u>Pre-Flight</u>	<u>In-Flight</u>	<u>Post-Flight</u>
Aircraft	<u>✓</u>	<u> </u>	<u> </u>
Radar	<u>✓ 1536</u>	<u> </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:

We fly.

1736 Z 26°30'
 64°26' N
 990 mb
 68 kts 20 mbs out
 in ground
 70 kts surface
 eye just popped
 out
 to satellite


 coordinated. Next ~~to~~
 figure 4 by yourself.
 rotate & repeat
 then finish with one
 more figure 4.

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

E. II. Actual Flight Pattern

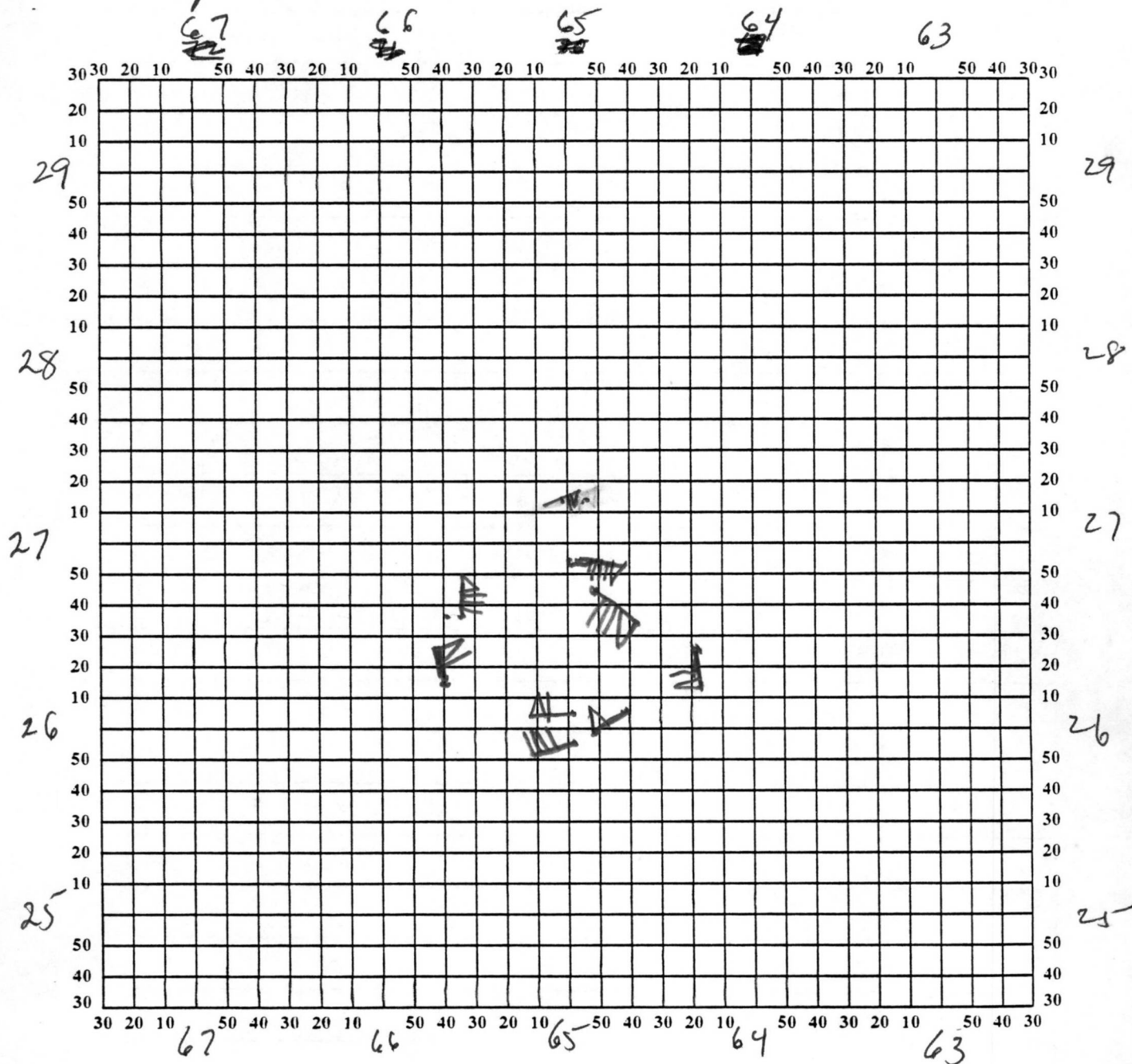
Hurricane Recco Plotting Chart

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

Date Aug 27 1993

Longitude _____

Observer GAMALHO



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

Lead Project Scientist Event Log

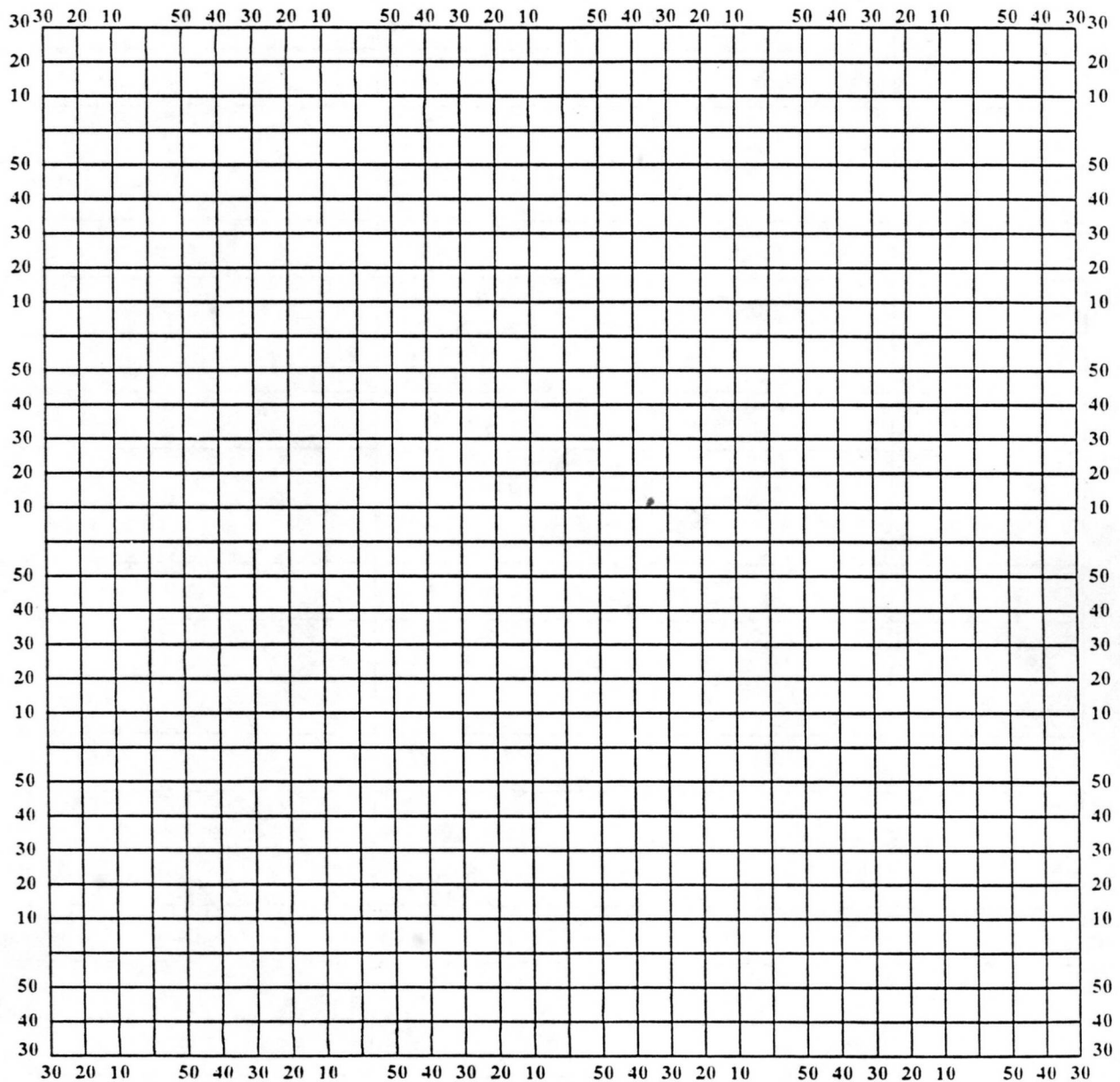
Date _____ Flight _____ LPS _____

[illegible]

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]

EMILY 93

Lead Project Scientist Event Log

Date Aug 27, 1993

Flight 930827H1

LPS GAMACHE

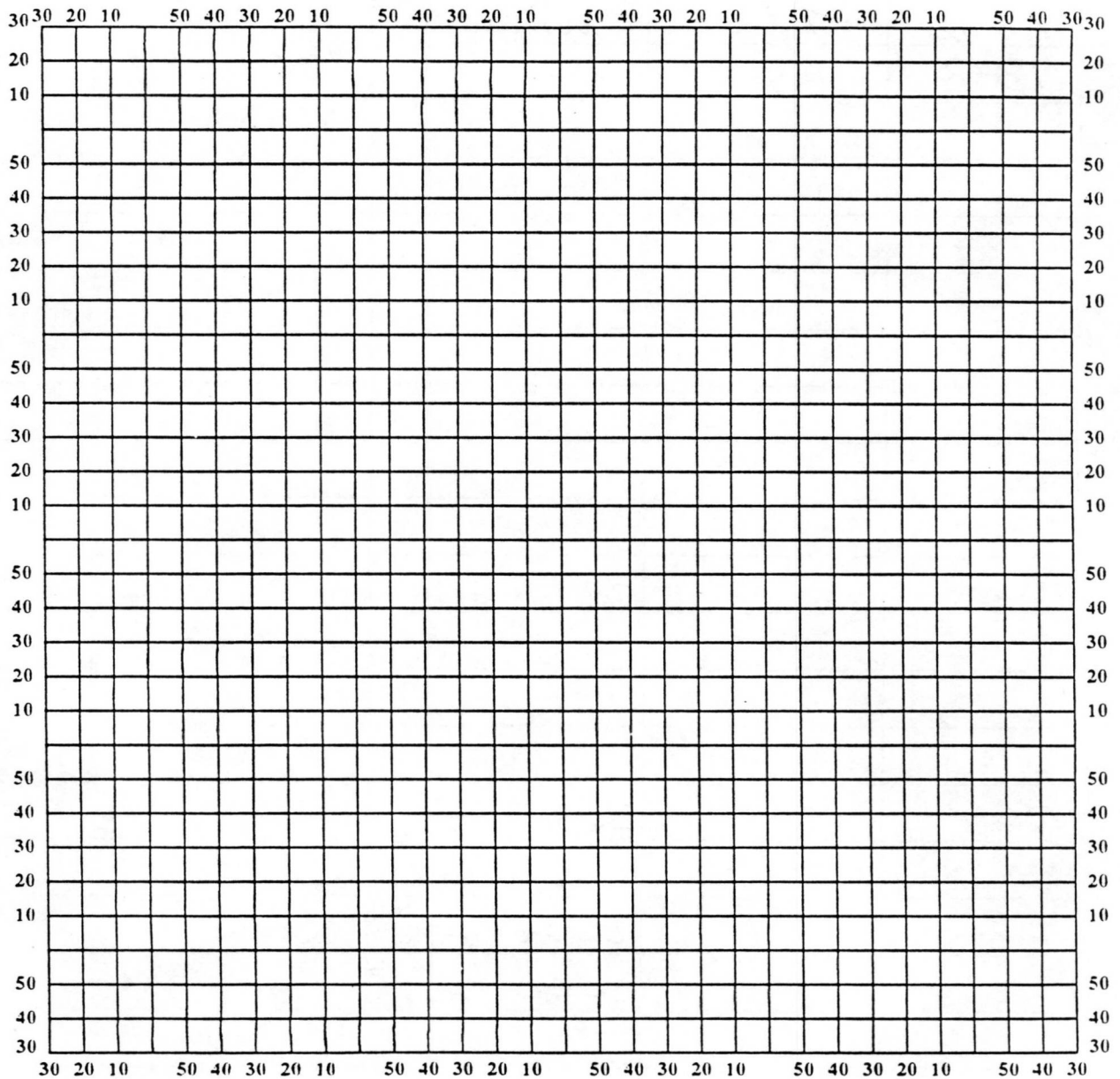
Time	Event	Position	Comments
1846	T/O	MIAMI	
1850			Problem w. TC transponder No overflight of West end
1958	Fix from AF		1736 Z fix 26°30'N 64°26'W
			990 mb 68 kts 70 kts Sfc eye forming
2009	—	26°15' 73°6'	65/04 kts 485 mb
2048			Radar overheating Jim Rebs problem continues walking
2109			We have a tail radar display again
2114		26°57' 67°11'	6125 GA 16/019 at 485 mb
2122			TA down again
2125			42's IP
2145		27°17' 64°54'	TA UP
2147		27°15' 65°0'	heading S. <u>IP</u>
2153		26°52' 65°0'	86 kts
2157			TA down shortly after we'll hunt for center
2158		26°34' 64°57'	983 mb 8000 ft
2208		25°54' 64°57'	(2)
2220		26°34' 64°20'	(3)
2230		26°34' 65°5'	981 mb
2242		26°34' 65°50'	(4)
2254		26°34' 65°12'	below 980 mb
2307		27°3' 64°33'	breaking from pattern will try to fix radar & re-coordinate at point (1)

above
max on
S
side
70 kts

Hurricane Recco Plotting Chart

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

Date _____ Longitude _____ Observer _____



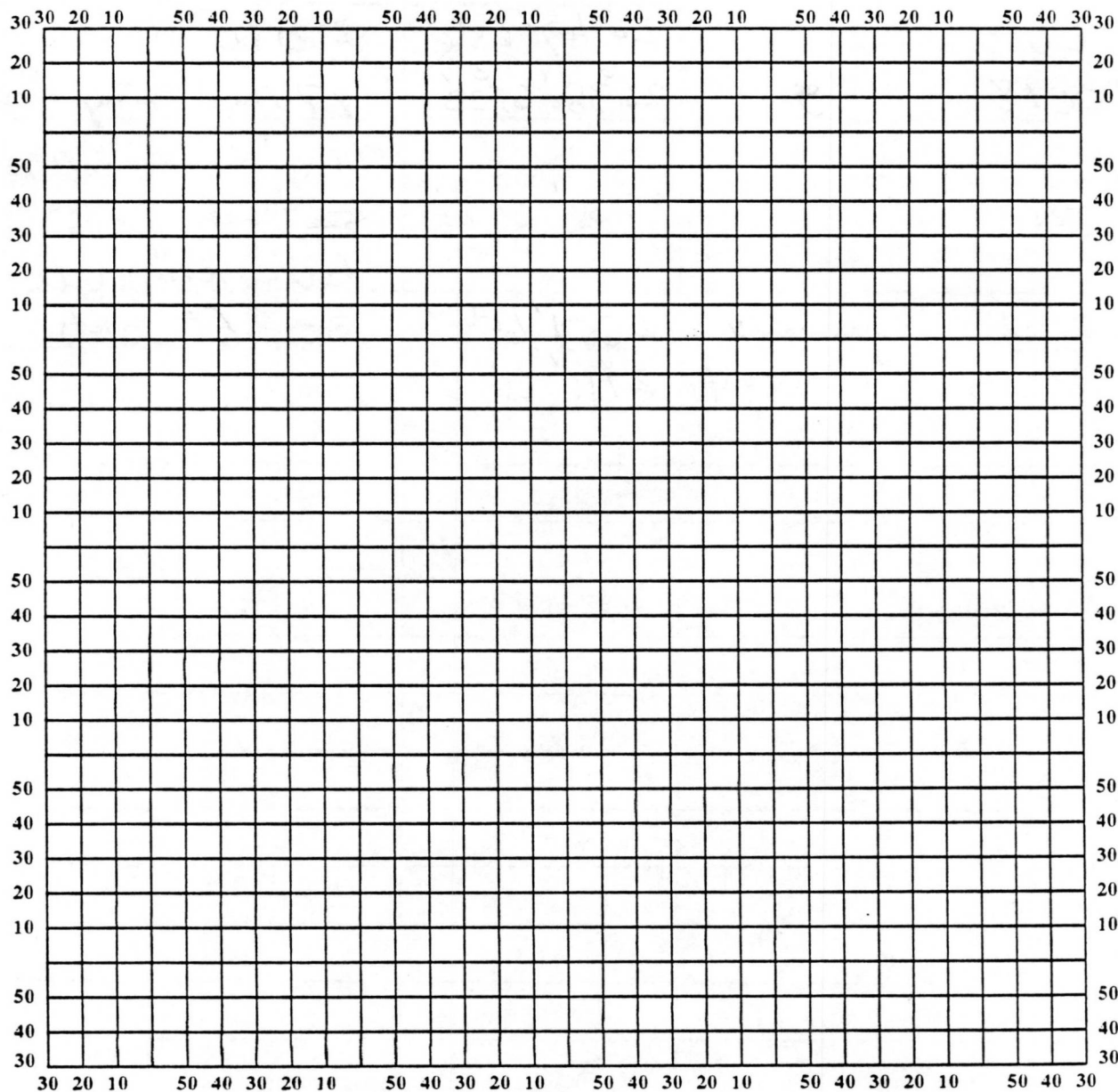
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Lead Project Scientist Event Log

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