Appendix J

Operational Checklists

19780918FI_LPS

FORM J-1 On-board Lead Project Scientist Checklist

DATE 18 SEPT AIRCRAFT NOAA 41 FLT GRETA

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	BURPEE	Gust Probe	
Cloud Physics	WILLIS	Omega Sonde	ROSSBY / DATZMAN
AXBT		Sys Eng	SCHRICKER
Hot Film		Data Tech	DARBY
Radar	/ PARRIS	El Tech	
Flt DIR/MET	DARBY	Other	

Time Off 1133Z Location MIAMI Time On 1955Z Location MIAMI

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon
17 SEPT	16 Z	15.4	82.4
17 SEPT	22 Z	15.5	83.4
18 SEPT	04 Z	15.7	84.0
18 SEPT	12 Z	16.0	85.5
19 SEPT	00 Z	16.5	87.5

Date	Time	Lat	Lon	MSLP
19 SSEPT	1400Z	16.5N	85.5°W	FROM 43 RADAR
	1415	16°29'N	86°9'N	

C. Mission Briefing

GRETA APPROX 20mm FROM HONDURAS - FLIGHT PATTERN WILL BE ADJUSTED DEPENDING ON THIS DISTANCE.

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D. Equipment Status

Equipment	Pre Flt	In Flt	Post Flt	Reports Collected
Aircraft	✓	✓	✓	
Radar	✓	?	?	
Cloud Physics	✓	✓	✓	
Data Sys	✓	✓	✓	
Omega Sondes	✓	✓	✓	
AXBT				
Gust Probe				
Hot Film				
Photography	No Downward Looking Camera	✓	✓	

REMARKS ROSEMONT NOT WORKING AT TAKEOFF - TERRY GOT IT WORKING AGAIN SHORTLY AFTER TAKEOFF.

1ST SONDE 21°N, 81°40'W

2ND SONDE 18°30'N 83°15'W

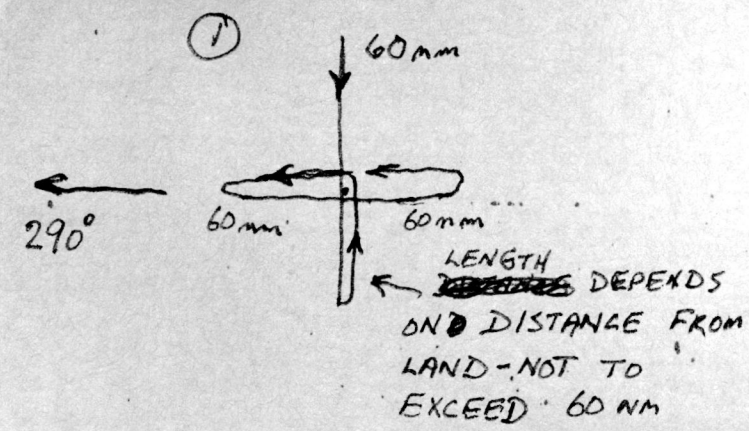
3 ADDITIONAL SONDES IN STORM, ONE IN EYE, TWO BETWEEN BANDS

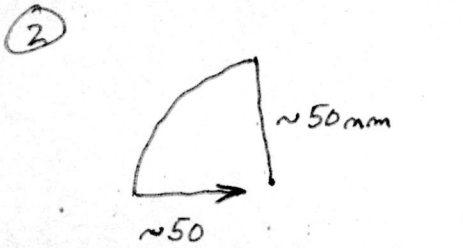
SOME PROBLEMS WITH SIGNAL FROM NORWAY + LIBERIA

CONVECTIVE BANDS APPEARED TO BE WELL FORMED ON RADAR BUT THE CONVECTION WAS RELATIVELY WEAK, SO WE REMAINED AT 20,000 FT.

LEVEL 2 SWITCH ON RADAR WAS NOT WORKING PROPERLY, RADAR DISPLAY WAS CONTOURING FOR ONLY PART OF THE FLIGHT.

E. Proposed Flight Patterns

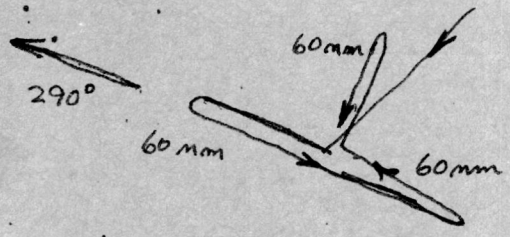




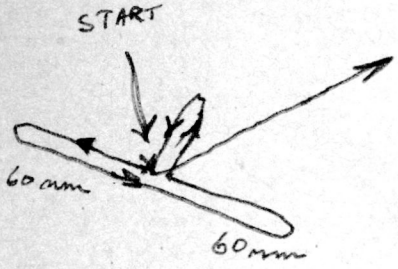
I ① AND ② AT 20,000 FT

II ① AND ② AT 23,000 FT OR 24,000 FT ~ -15°C

F. Actual Flight Patterns



DIDN'T. 60 · SOUTH OF CENTER BECAUSE OF PROXIMITY TO LAND



DIDN'T FLY DOWN BANDS AT PAUL's REQUEST, CONVECTION NOT INTENSE ENOUGH

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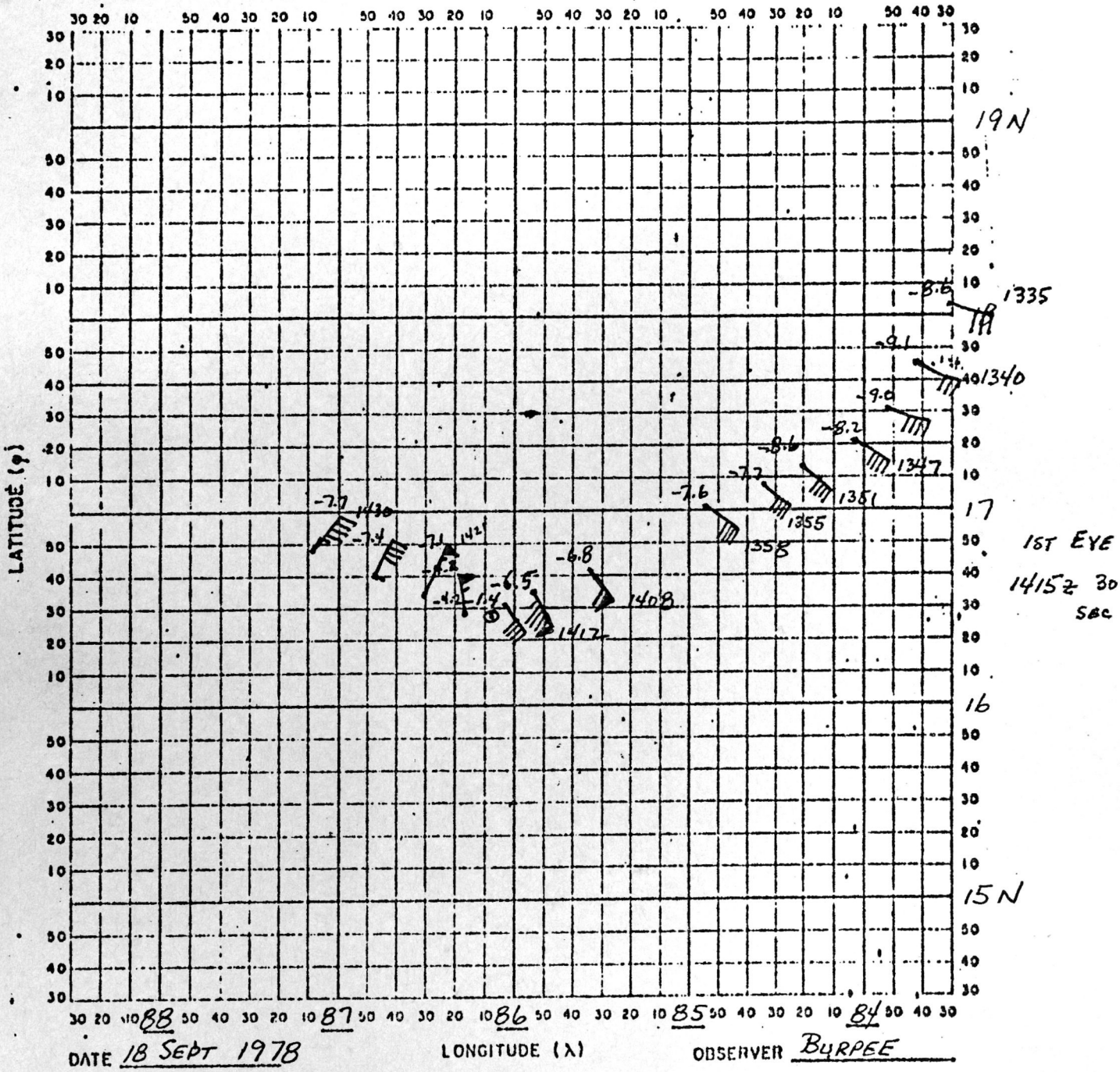
HURRICANE RECCO PLOTTING CHART

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



DATE 18 SEPT 1978 OBSERVER BURPEE

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

20,000 FT.

(1)

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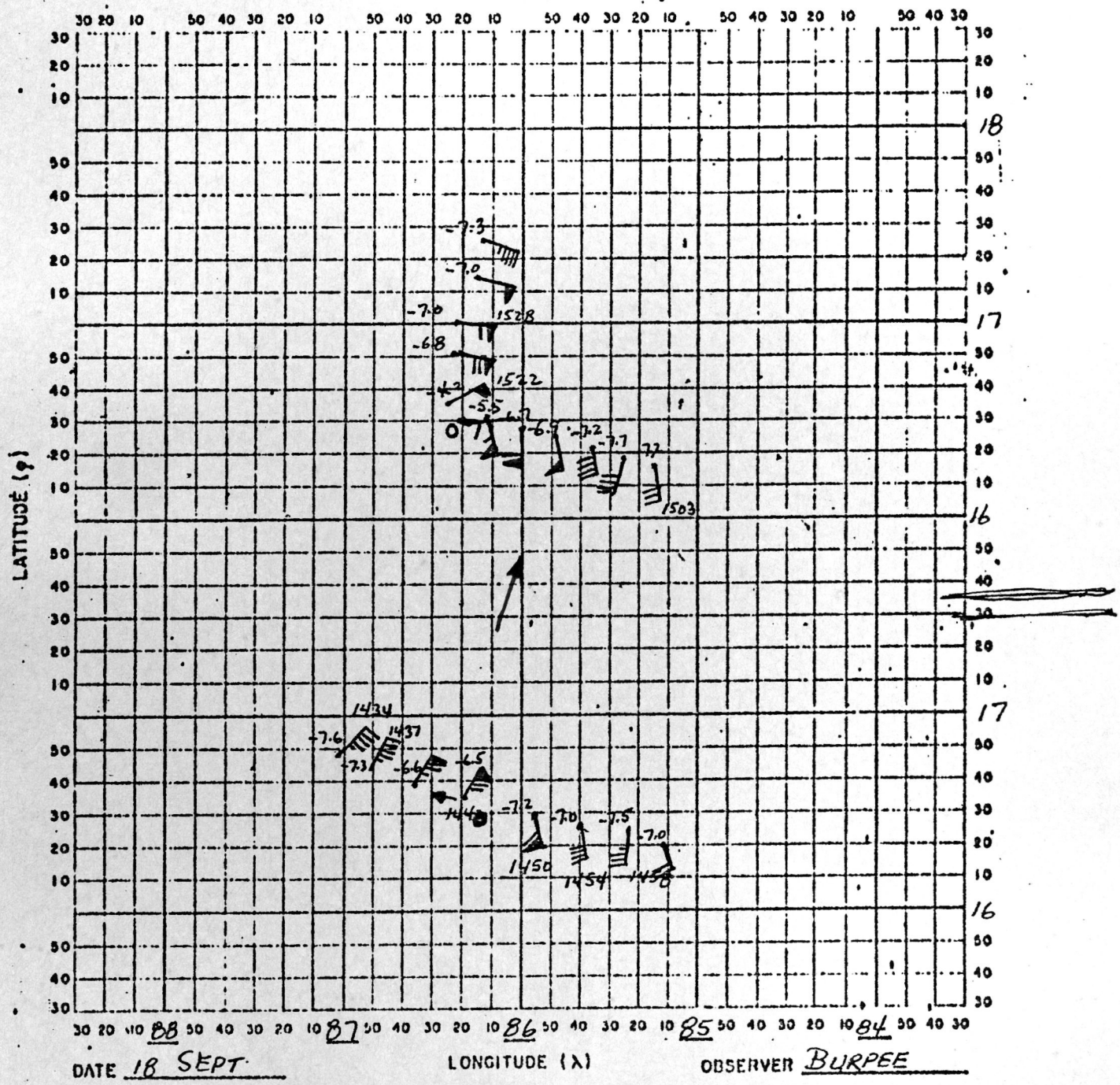

DATE 18 SEPT

OBSERVER BURPEE

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

20,000 FT.

(2)

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HURRICANE RECCO PLOTTING CHART

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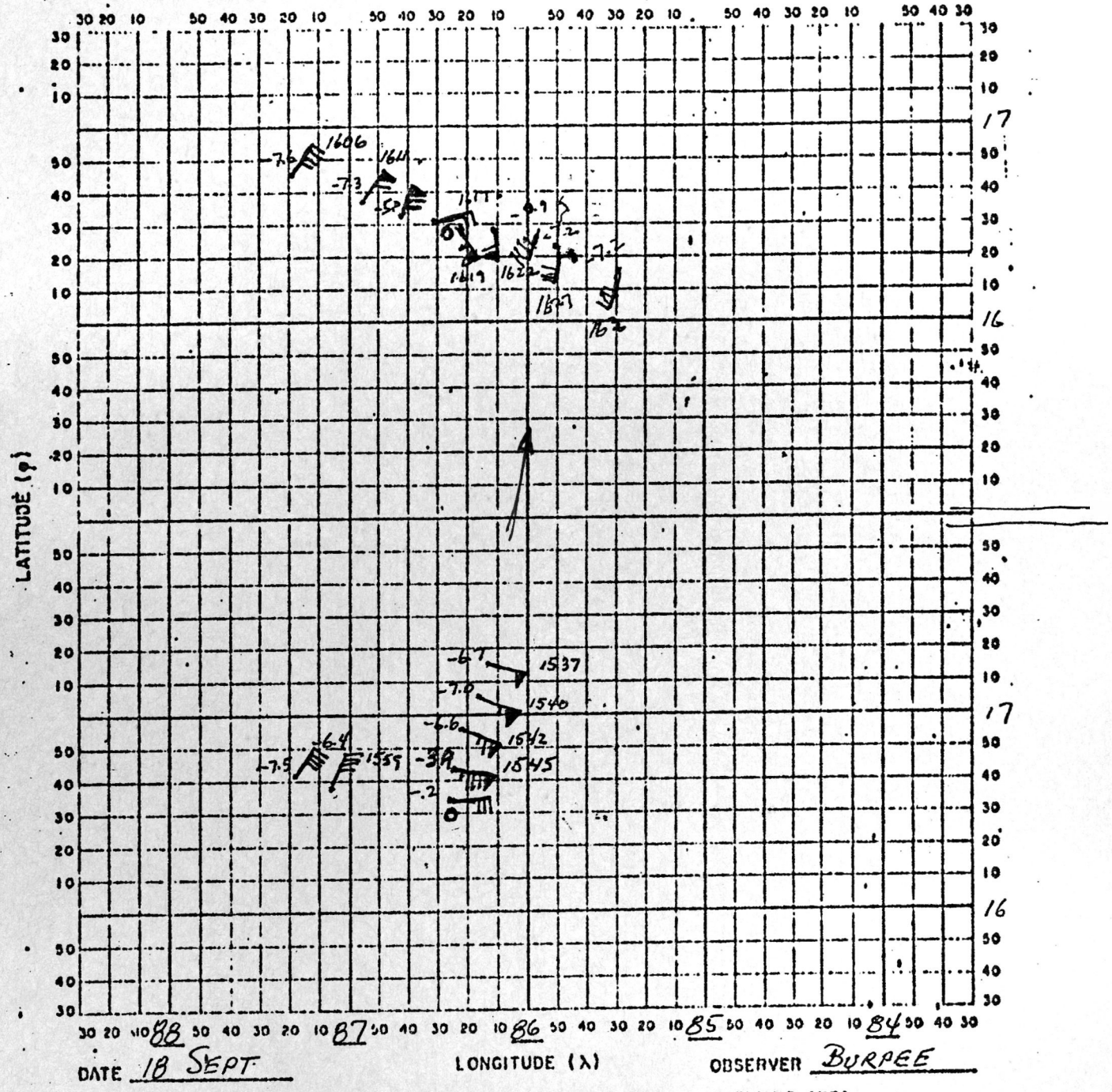

DATE 18 SEPT. OBSERVER BURPEE

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

20,000 FT.

(3)

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HURRICANE RECCO PLOTTING CHART

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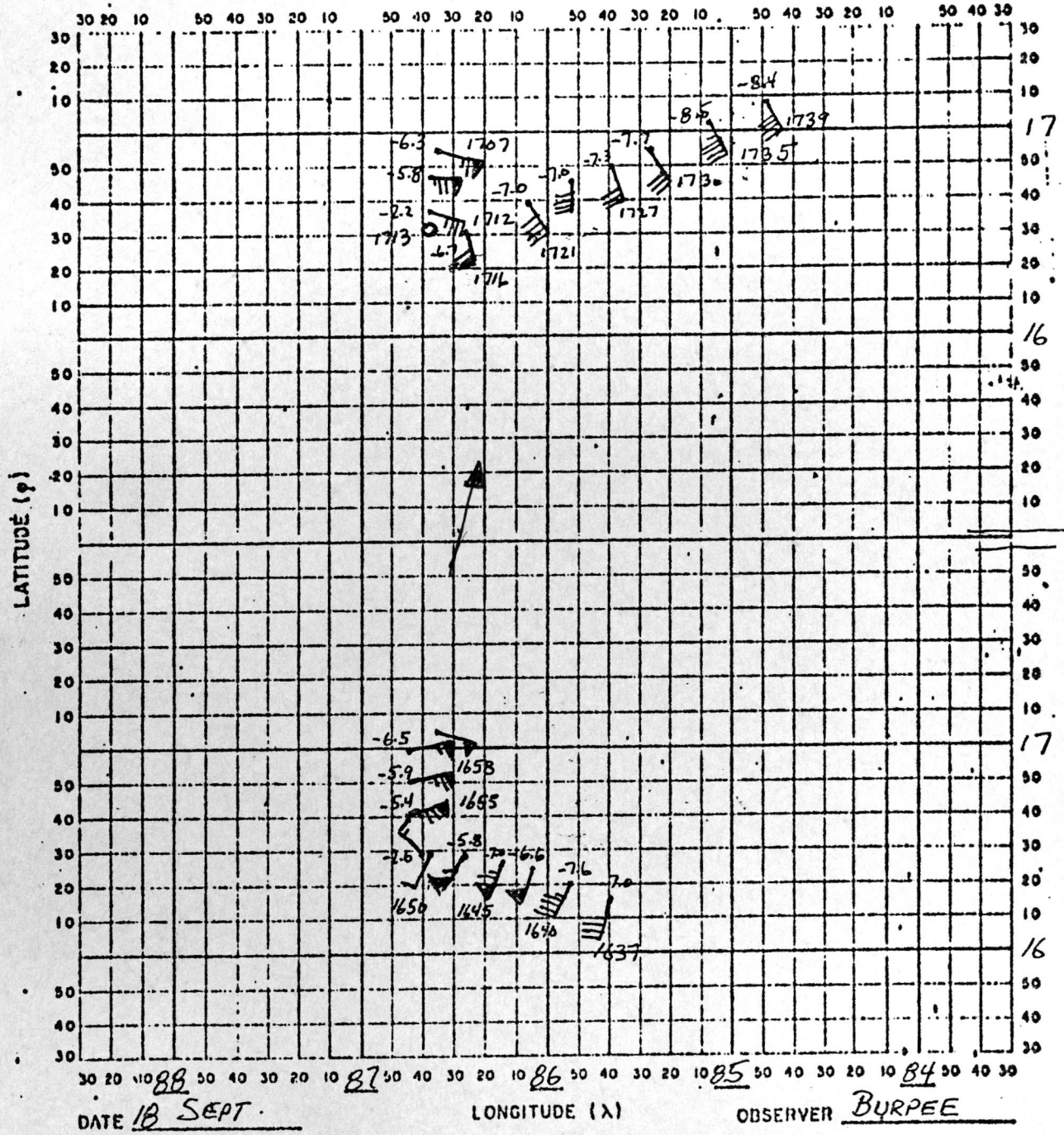

DATE 18 SEPT. OBSERVER BURPEE

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

20,000 FT.

(4)