

Appendix J

Operational Checklists

19780902 FL-LPS

FORM J-1

On-board Lead Project Scientist Checklist

DATE 2 SEPT 1978AIRCRAFT 41CFLT HURRICANE ELLA

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>BURPEE</u>	Gust Probe	
Cloud Physics	<u>WILLIS</u>	Omega Sonde	<u>DOUGLAS</u>
AXBT		Sys Eng	<u>SCHRICKE</u>
Hot Film		Data Tech	<u>BRANCH</u>
Radar	<u>PARRIS - GOLDSTEIN</u>	El Tech	
Flt DIR/MET	<u>MILHIE</u>	Other	

Time Off 1130 Z Location MIAMITime On 1930 Z Location MIAMI

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon	MSLP
<u>2 SEPT</u>	<u>00 Z</u>	<u>31.3N</u>	<u>72.9W</u>	
<u>2 SEPT</u>	<u>0553Z</u>	<u>31.4</u>	<u>73.2W</u>	

DATE	TIME	Lat	Lon	MSLP
<u>2 SEPT</u>	<u>1151Z</u>	<u>31°30'</u>	<u>73°22'</u>	<u>979 mb</u>
<u>2 SEPT</u>	<u>1344Z</u>	<u>31°32'</u>	<u>73°20'</u>	<u>50 knots</u>
<u>2 SEPT</u>	<u>1452Z</u>	<u>31°34'</u>	<u>73°17'</u>	<u>65 knots</u> <u>etc</u>

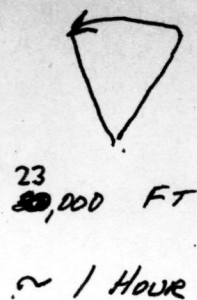
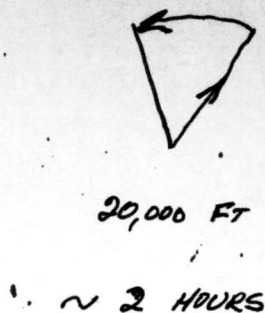
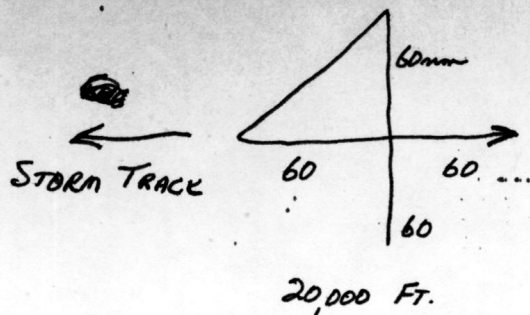
C. Mission Briefing

D. Equipment Status

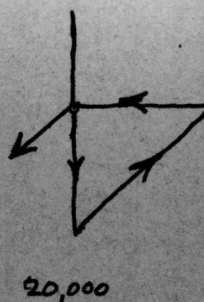
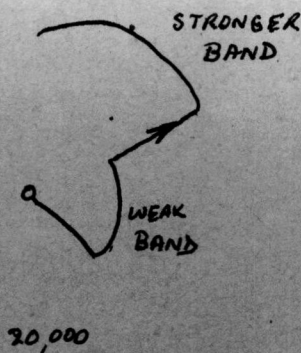
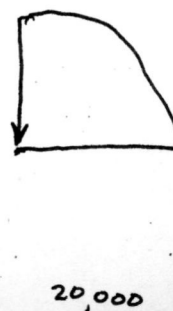
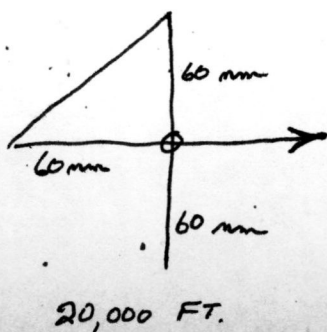
<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	✓	✓	✓	
Radar	✓ *	✓ *	✓ *	
Cloud Physics	✓	✓	✓	
Data Sys	✓	✓	✓	
Omega Sondes	8 INOPERATIVE	—	—	
AXBT				
Gust Probe				
Hot Film				
Photography	FORWARD LOOKING ONLY	FOR ✓	✓	

REMARKS * RADAR HAD TO BE PLACED ON MANUAL FREQUENCY CONTROL DIGITAL
 EARLY IN FLIGHT AS WAS DONE YESTERDAY. A RADAR
 VALUES ON DATA TAPES PROBABLY VARY CONSIDERABLY
 DURING FLIGHT (PROBABLY HEAT PROBLEM) - NAVIGATOR
REPORTED THAT HE HAD TO CHANGE FREQUENCY EVERY 3-5 MINUTES.
 DROPWIND SONDE INOPERATIVE - A WIRE WAS APPARENTLY
 NOT PROPERLY CONNECTED

E. Proposed Flight Patterns



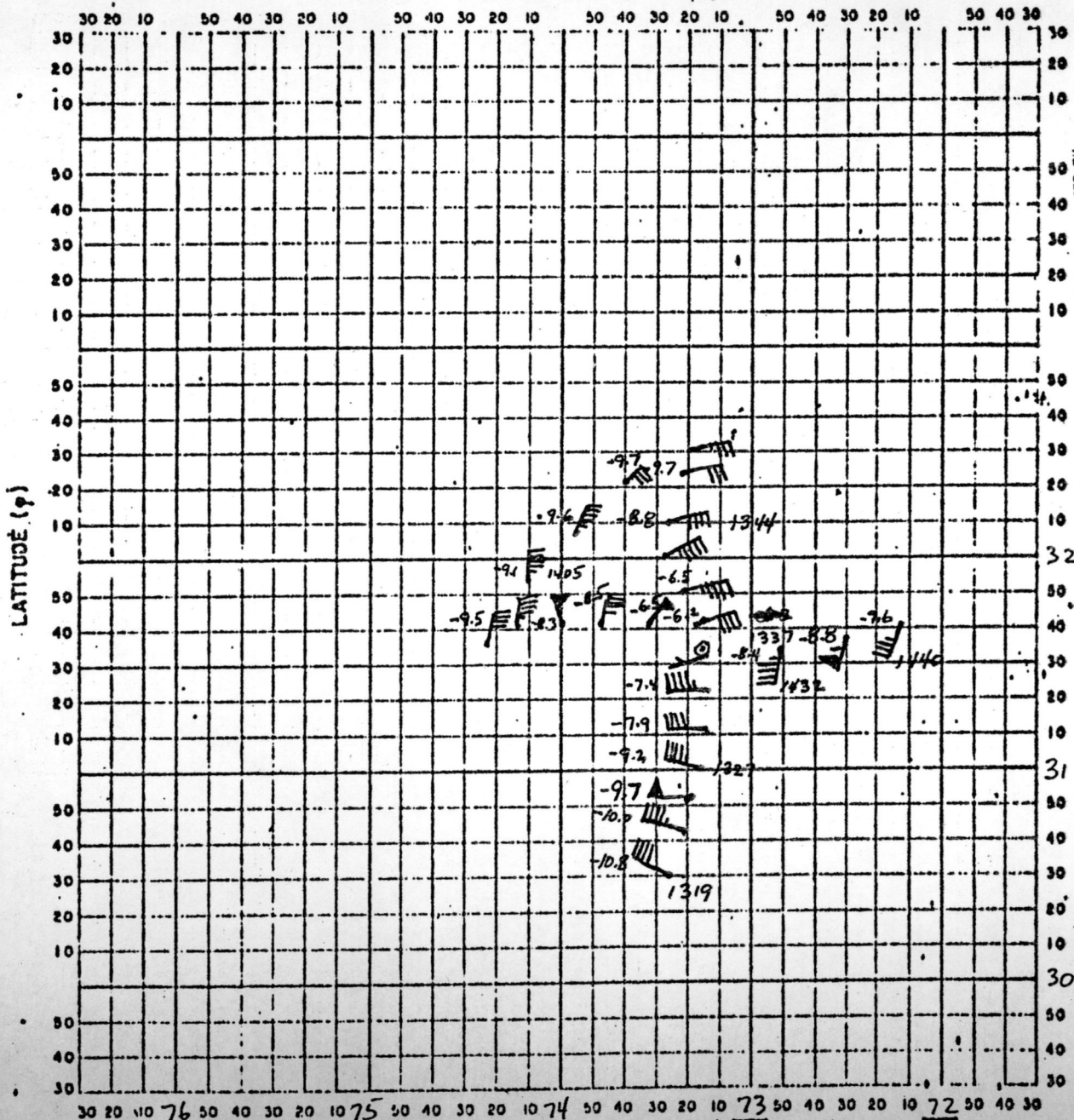
F. Actual Flight Patterns



WEST SIDE MOSTLY OPEN
BANDS WERE GENERALLY
WEAKER THAN YESTERDAY.
BANDS OUTSIDE THE
EYEWALL WERE WEAK AT
20,000 - DIFFICULT TO
FOLLOW DOWN BANDS -
DECIDED NOT TO GO TO
23,000. FIG. 4 TERMINATED
JUST BEFORE COMPLETION
AT END

HURRICANE RECCO PLOTTING CHART

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



DATE 2 SEPT 1978

LONGITUDE (λ)

OBSERVER BURPEE

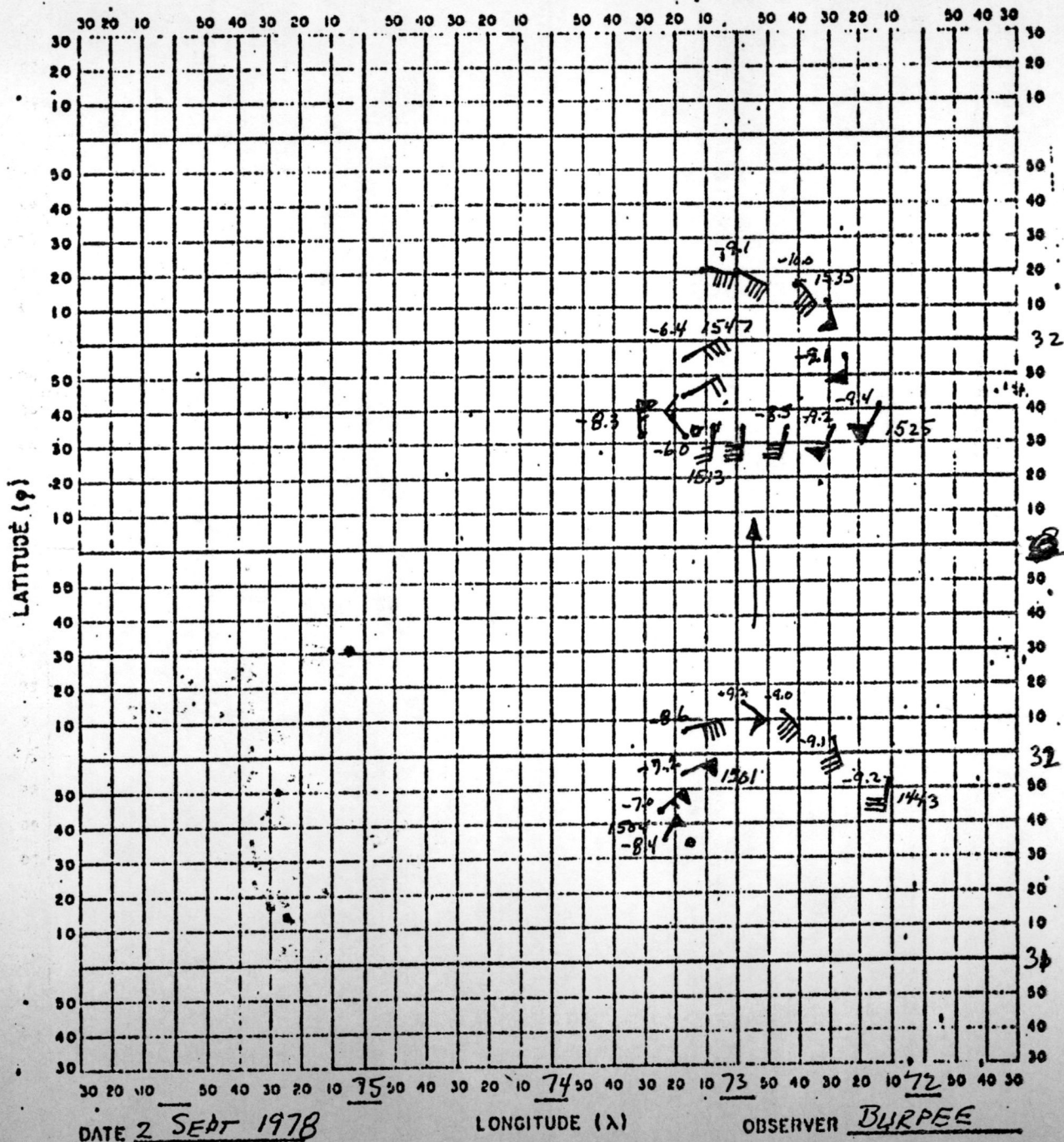
NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

20,000 FT

(1)

HURRICANE RECCO PLOTTING CHART

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



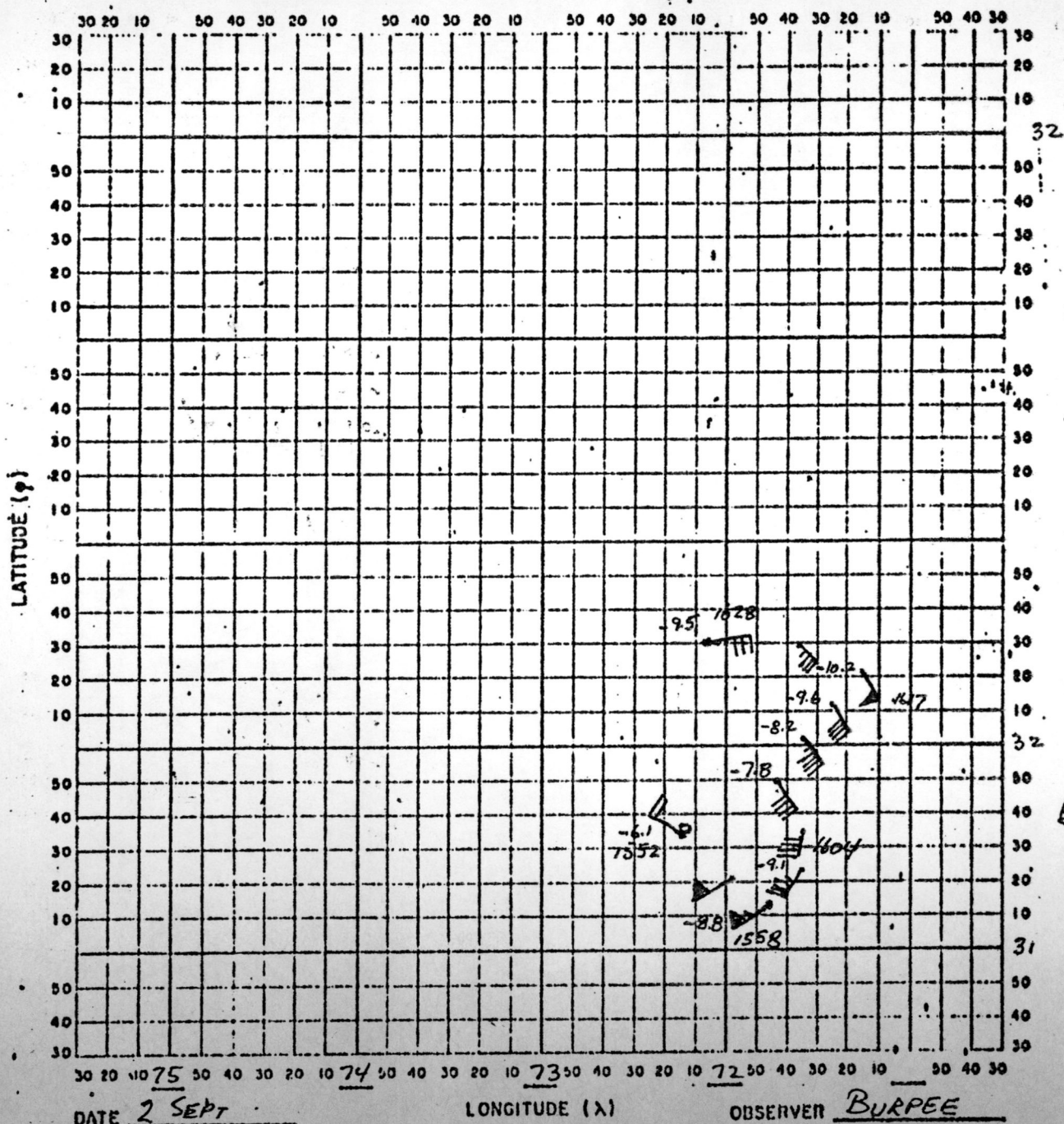
NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

20,000 F.T

②

HURRICANE RECCO PLOTTING CHART

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



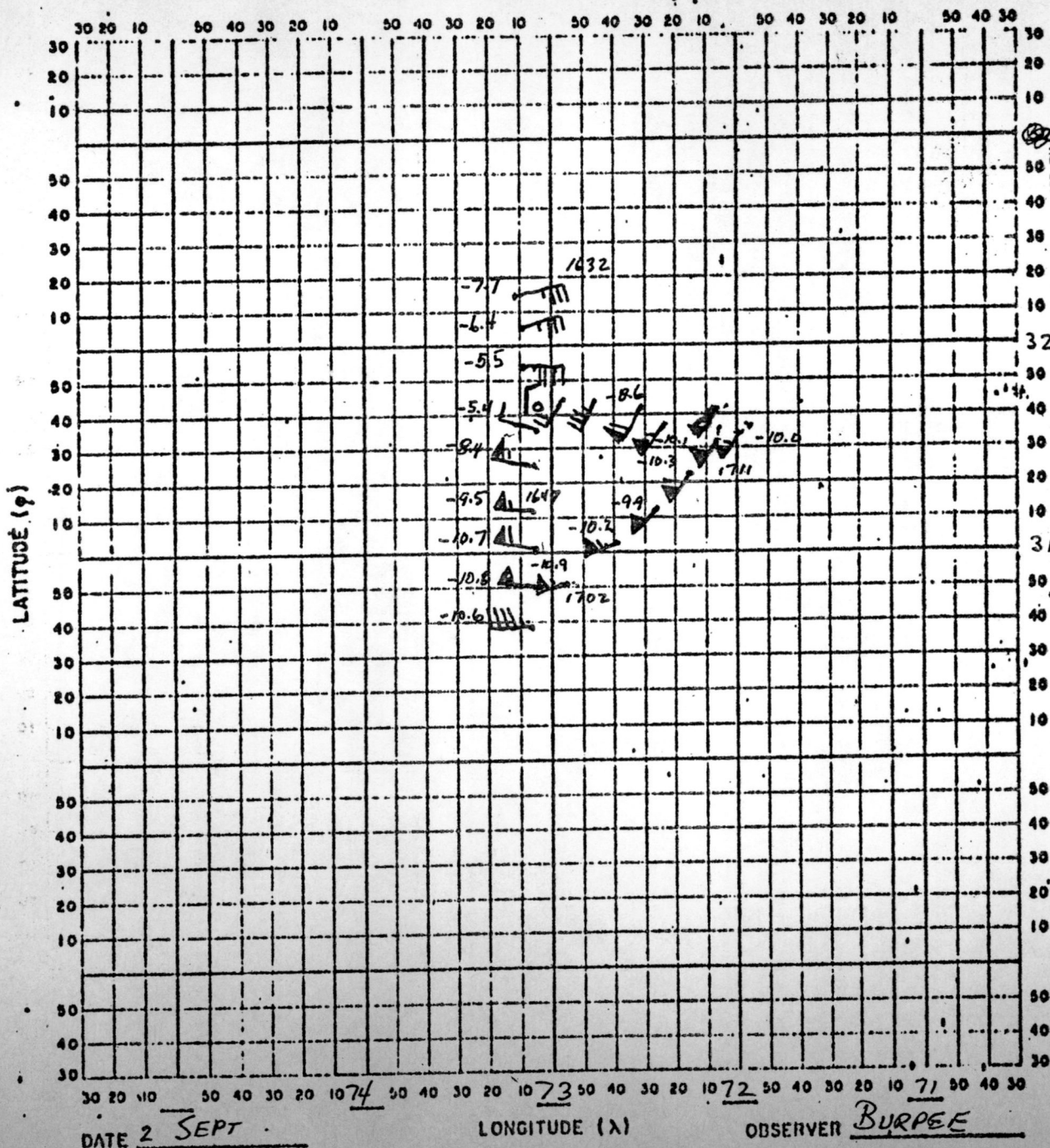
NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

20,000 FT

(3)

HURRICANE RECCO PLOTTING CHART

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



NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

20,000 FT

4