

790911F

Appendix J

Operational Checklists

19790911F1-LPS

FORM J-1

On-board Lead Project Scientist Checklist

DATE 11 SEPT 79AIRCRAFT 41CFLT FREDERIC

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>BURPEE</u>	Gust Probe	
Cloud Physics	<u>LAHIFF</u>	Omega Sonde	<u>CARPENTER</u>
AXBT		Sys Eng	<u>SCHRICKE</u> / <u>DUGRANUT</u>
Hot Film		Data Tech	<u>BRANCH</u>
Radar		E1 Tech	
Flt DIR/MET	<u>MICHIE</u>	Other	<u>AIR FORCE LIGHTNING (2)</u>

Time Off 1054ZLocation MIAMITime On 1710Z Location MIAMI

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon	Date	Time	Lat	Lon	MSLP
<u>11 SEPT</u>	<u>0800Z</u>	<u>23.9°N</u>	<u>84.2°W</u>	<u>11 SEPT.</u>	<u>1210Z</u>	<u>24°23'</u>	<u>84°40'</u>	<u>8</u>
					<u>1250Z</u>	<u>24°25'</u>	<u>84°52'</u>	
					<u>1330Z</u>	<u>24°28'</u>	<u>85°00'</u>	<u>880</u> 970
					<u>1411Z</u>	<u>24°29'</u>	<u>84°56'</u>	
					<u>1453Z</u>	<u>24°34'</u>	<u>85°01'</u>	
					<u>1532</u>	<u>24°35'</u>	<u>85°05'</u>	

C. Mission Briefing

FLIGHT PATTERN II - STORM MOTION TOWARD NORTHWEST
AT 5 KNOTS - ENTER STORM FROM NORTHEAST - DROP WINDSONDES
WHEN POSSIBLE AT LOCATIONS SHOWN IN PATTERN - 42 RF
FLYING AT 1500 FT AT SAME TIME
41 DELAYED 45 MINUTES BY INERTIAL FAILURE

D. Equipment Status

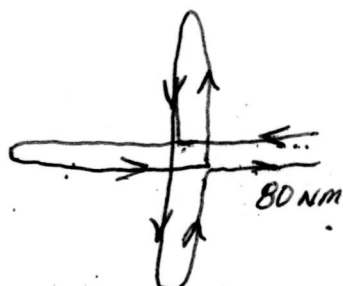
<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	✓	<i>see note below</i>	✓	
Radar	✓	✓	✓	✓
Cloud Physics	✓	✓	✓	✓
Data Sys	✓	✓	✓	
Omega Sondes	✓	✓	✓	✓
AXBT				
Gust Probe				
Hot Film				
Photography	✓	✓	✓	

REMARKS

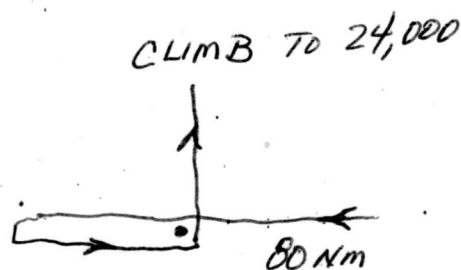
1539Z - Wing over-heat light - descend to 10,000 ft
head for home

5 Omega dropwindsondes were made - the locations of these drops are shown on my patterns - see Paul Carpenter's report for brief summary

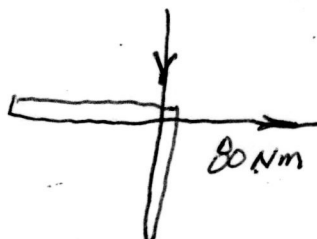
E. Proposed Flight Patterns



20,000 FT



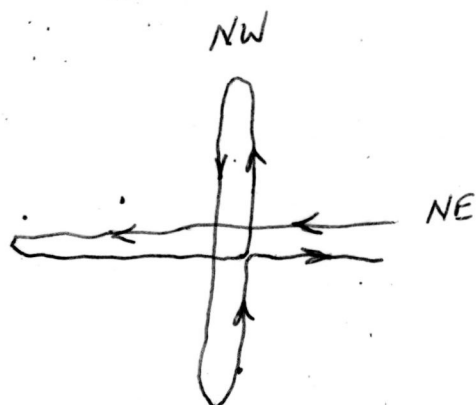
20,000 FT



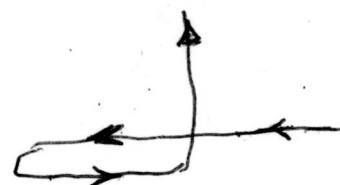
24,000 FT

F. Actual Flight Patterns

nearly all of flight pattern completed at 20,000 ft.



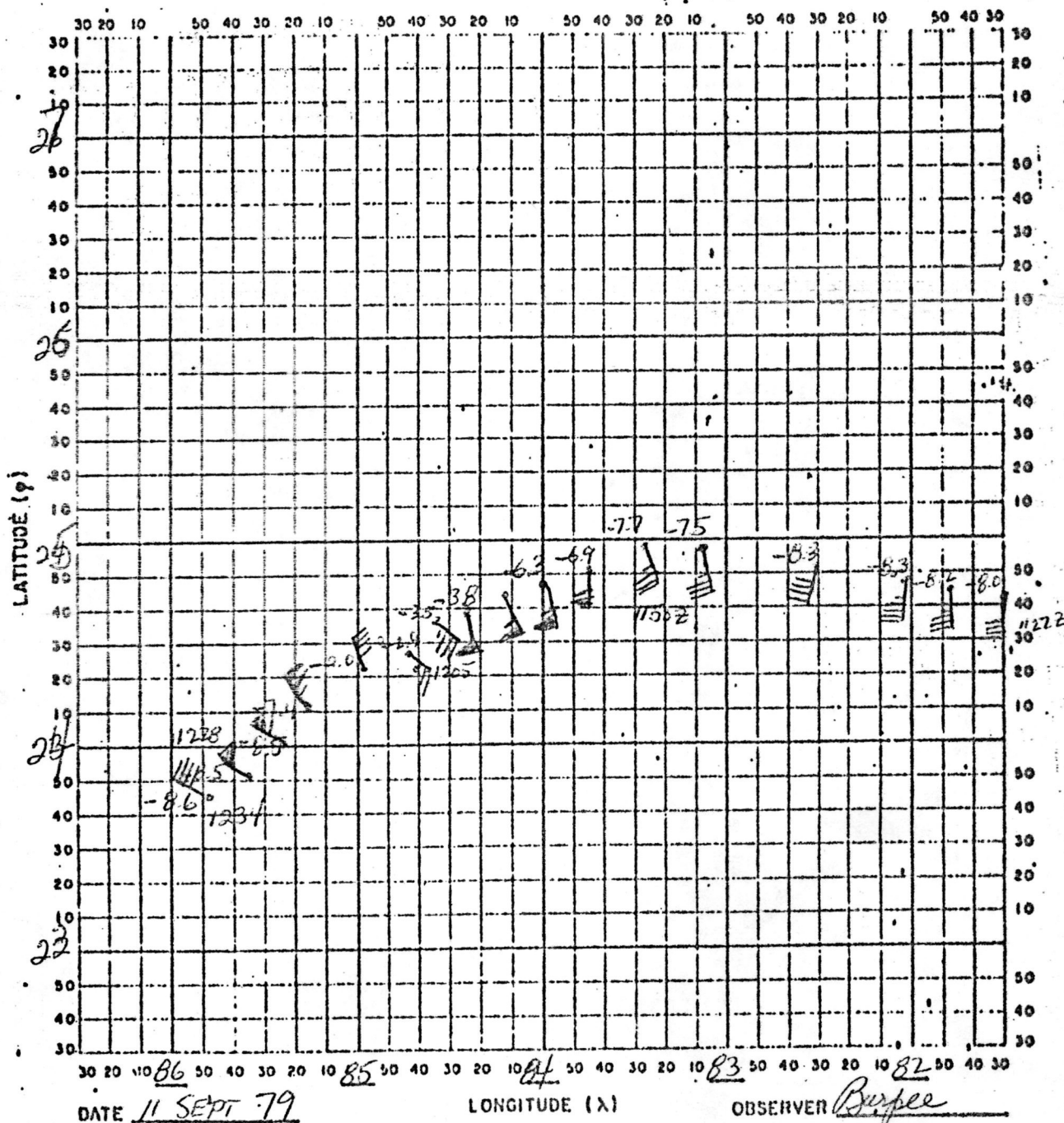
20,000 ft



20,000 ft

HURRICANE RECCO PLOTTING CHART

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



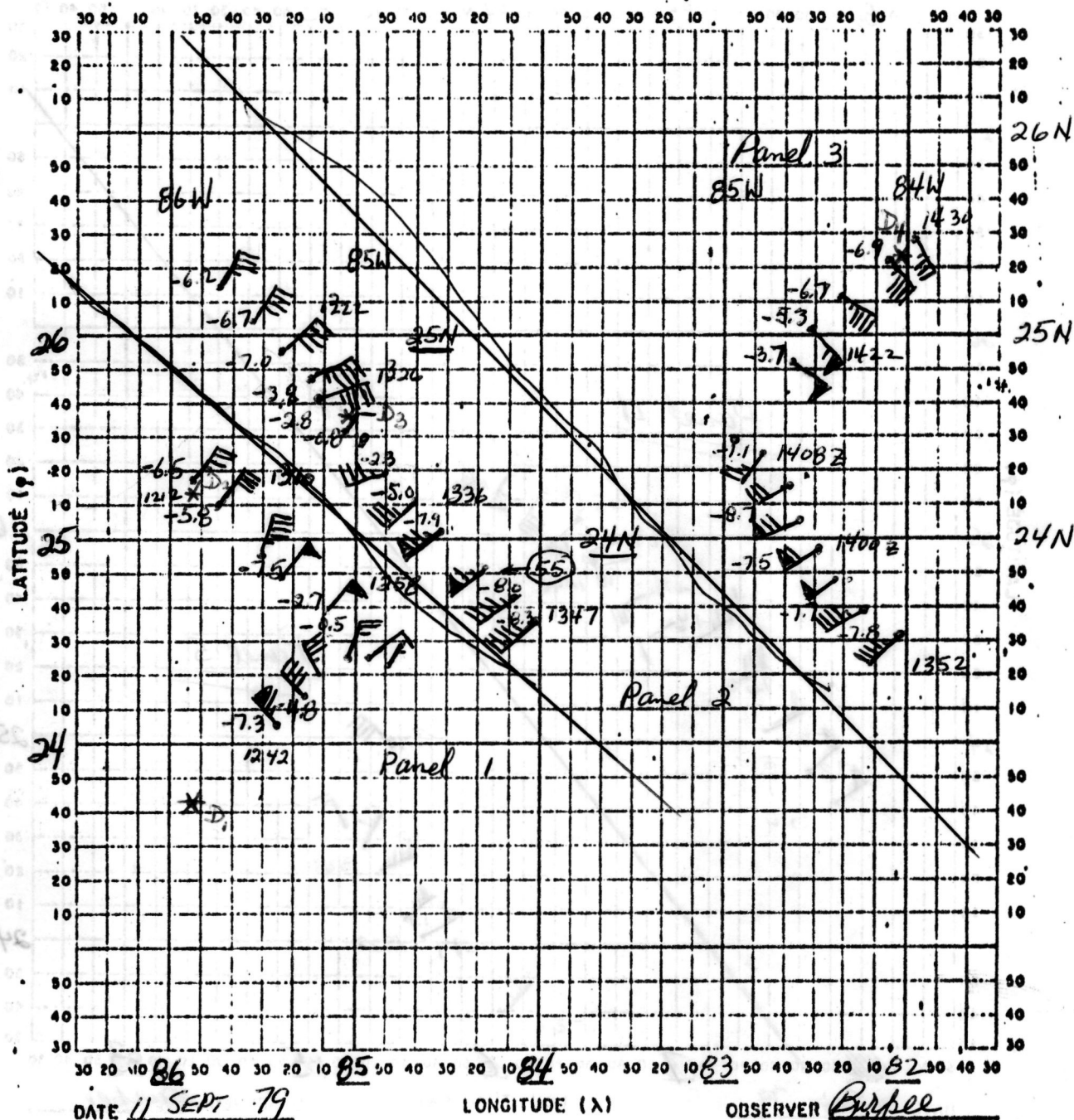
NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

Hurricane Frederic

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HURRICANE RECCO PLOTTING CHART

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

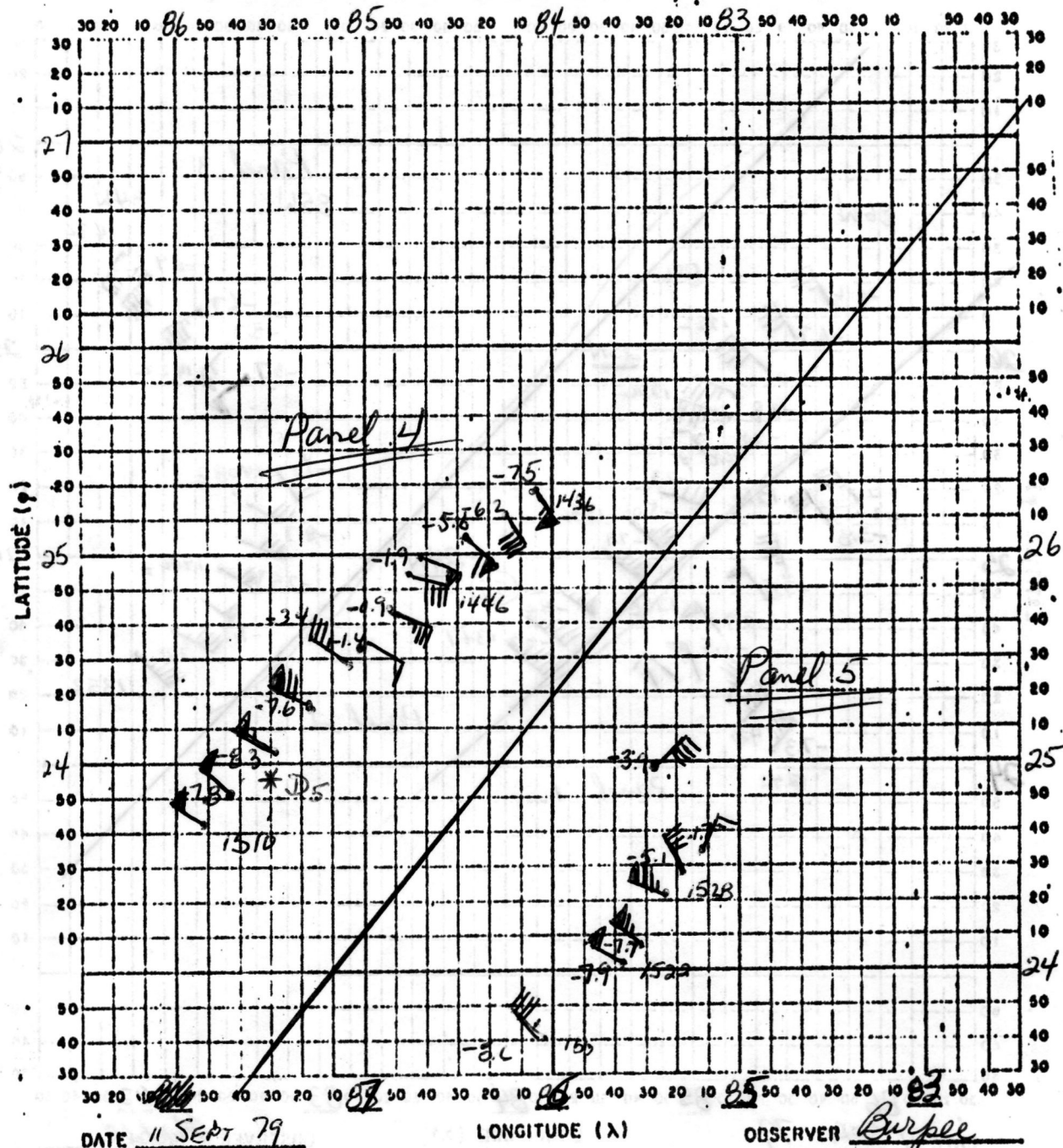


* = Omega Dropwindsonde

See other side

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