

Appendix J

Operational Checklists

19790904HI-LPS

FORM J-1

On-board Lead Project Scientist Checklist

DATE 9/4/79AIRCRAFT 422FFLT 790804H

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Black</u>	Gust Probe	
Cloud Physics	<u>Martin</u>	Omega Sonde	<u>Gibbstein</u>
AXBT	<u> </u>	Sys Eng	<u>McCrory</u>
Hot Film	<u> </u>	Data Tech	<u>Lambrecht</u>
Radar	<u>Wifel</u>	El Tech	<u> </u>
Flt DIR/MET	<u>Davis</u>	Other	<u>White law</u>
<u>Werle, Rose, Langlitz</u>			

Time Off	Location	Time On	Location
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1707 ~~1807~~

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon	Date	Time	Lat	Lon	MSLP
<u>9/4</u>	<u>0315Z</u>	<u>28°30'</u>	<u>80°33'</u>	<u>9/4</u>	<u>1822</u>	<u>31.49°</u>	<u>81°10'</u>	<u>26.8</u>
<u>9/4</u>	<u>0544Z</u>	<u>28°55'</u>	<u>80°52'</u>	<u>9/4</u>	<u>2005</u>	<u>31°50'</u>	<u>81°10'</u>	<u> </u>
<u>9/4</u>	<u>1142Z</u>	<u>30°08'</u>	<u>80°51'</u>	<u>9/4</u>	<u>2100</u>	<u>31.87°</u>	<u>81°18'</u>	<u> </u>
				<u>9/4</u>	<u>2155</u>	<u>31.95°</u>	<u>81°15'</u>	<u> </u>
				<u>9/4</u>	<u>2253</u>	<u>32.05°</u>	<u>81°20'</u>	<u> </u>
					<u>2346</u>	<u>32°10'</u>	<u>81°10'</u>	<u> </u>

C. Mission Briefing

1st pass at 10k ft
butterfly at 1500 ft
butterfly at 5000 ft
extend north legs to find radius of 65kt winds
receive CV 990 dropwindsonde data

Note: none of above was accomplished except
1st pass at 10k ft

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	✓	RA actnig up		
Omega Sondes				
AXBT				
Gust Probe				
Hot Film				
Photography	2.5 FPS			

REMARKS

∴ No drop reception

Wind box indicated 10 kt difference between cross wind legs in opposite directions - something needs calibrating.

at 1000 ft :

090° track :

180° / 34 m s⁻¹

270° track :

184° / 29 m s⁻¹

360° track :

165° / 32 m s⁻¹

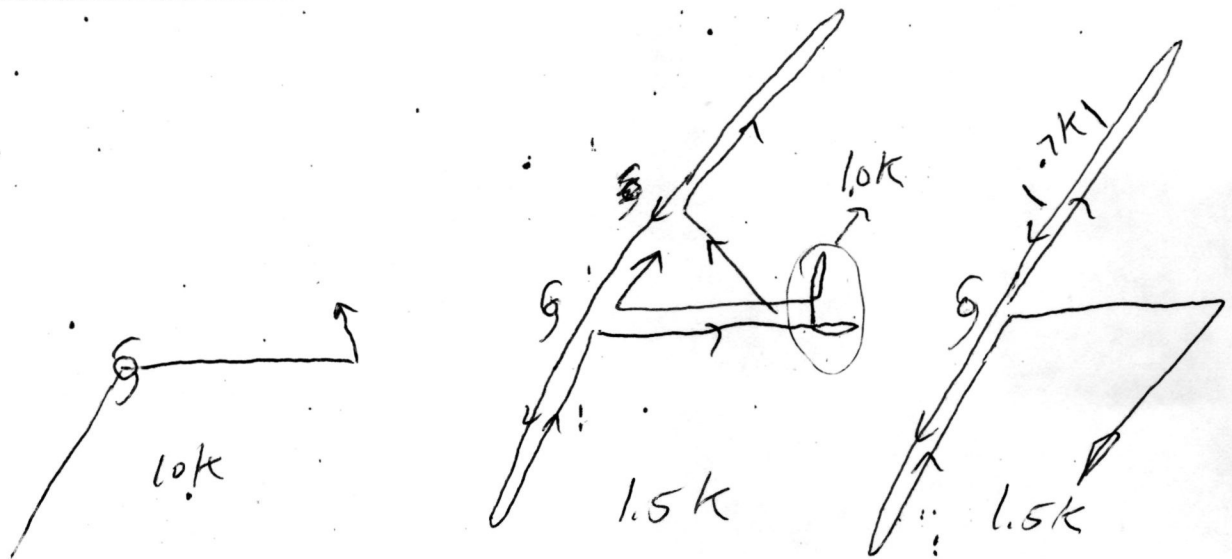
180° track :

178° / 27 m s⁻¹

began at 2118Z

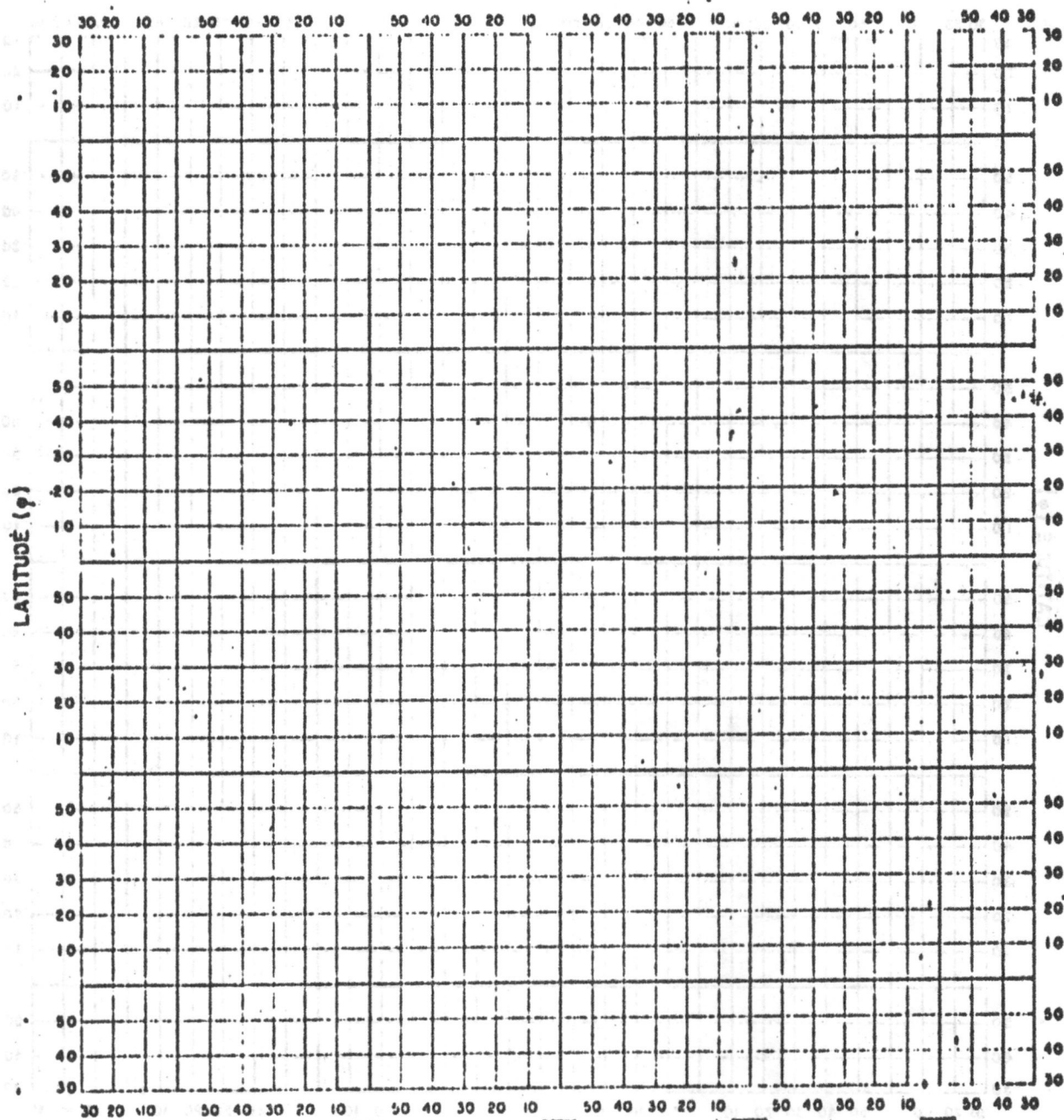
E. Proposed Flight Patterns

F. Actual Flight Patterns



HURRICANE RECCO PLOTTING CHART

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



DATE _____

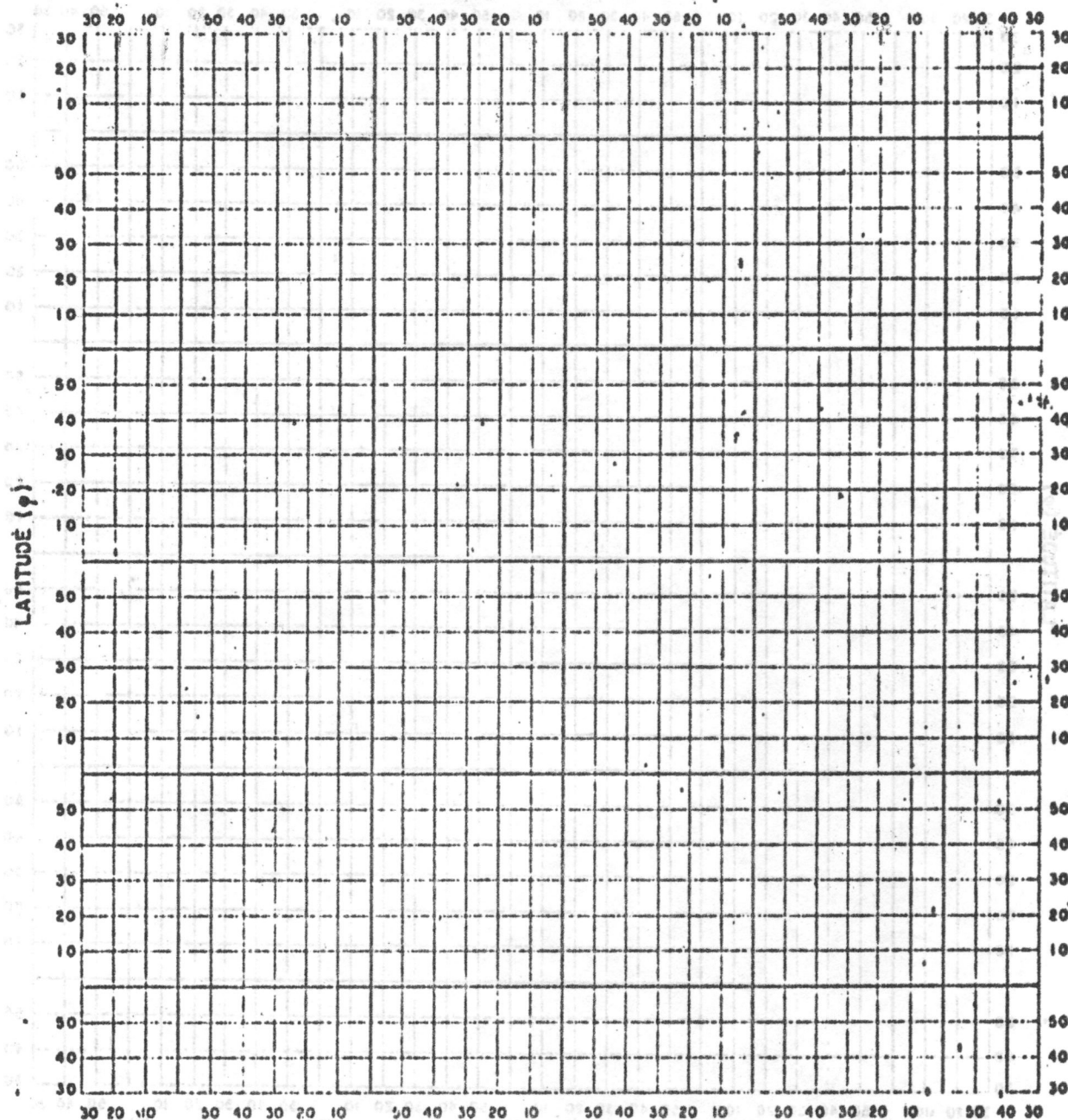
LONGITUDE (λ) _____

OBSERVER _____

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

HURRICANE RECCO PLOTTING CHART

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



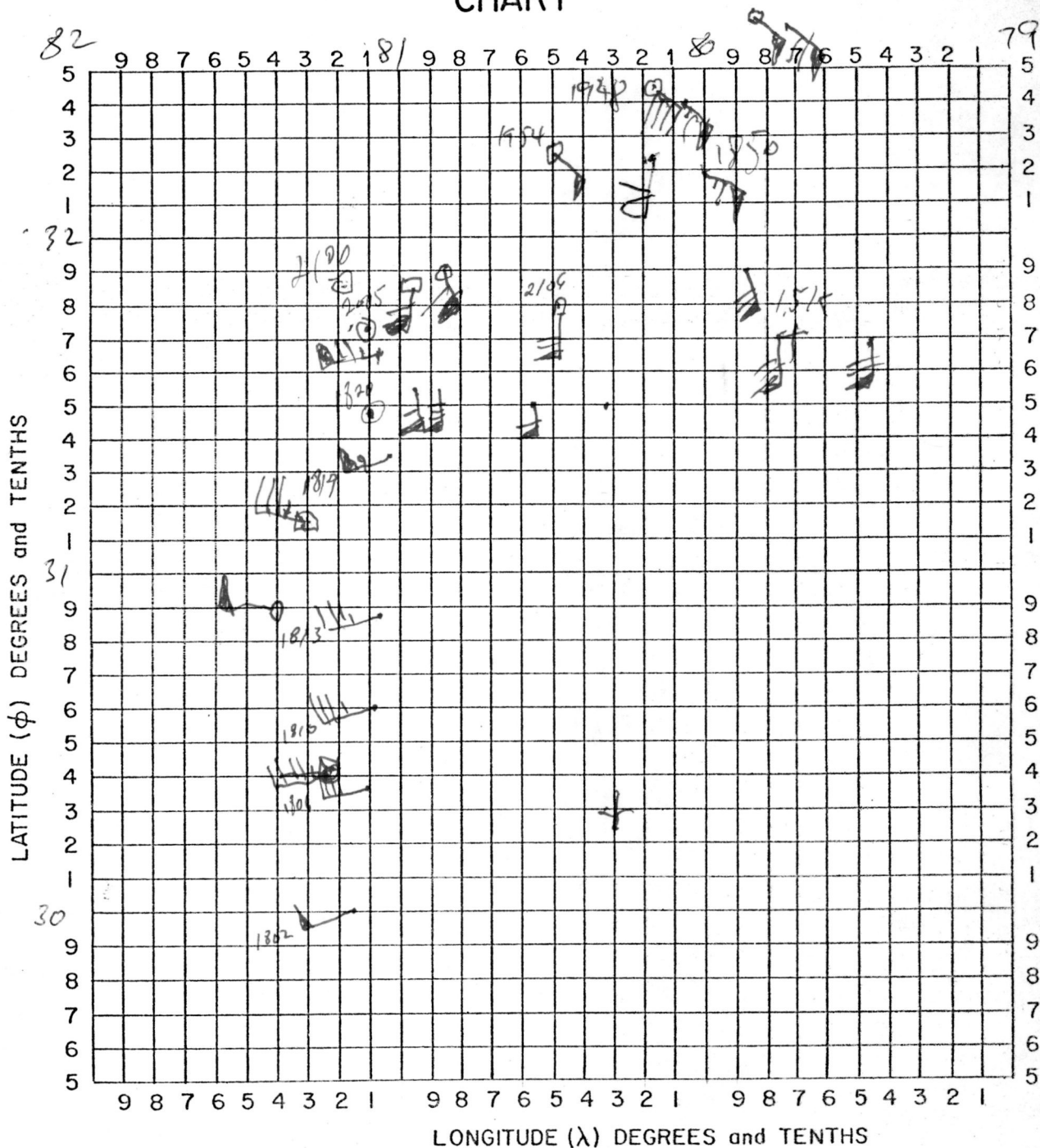
DATE 15 SEP 1960

LONGITUDE (λ)

OBSERVER SAU

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

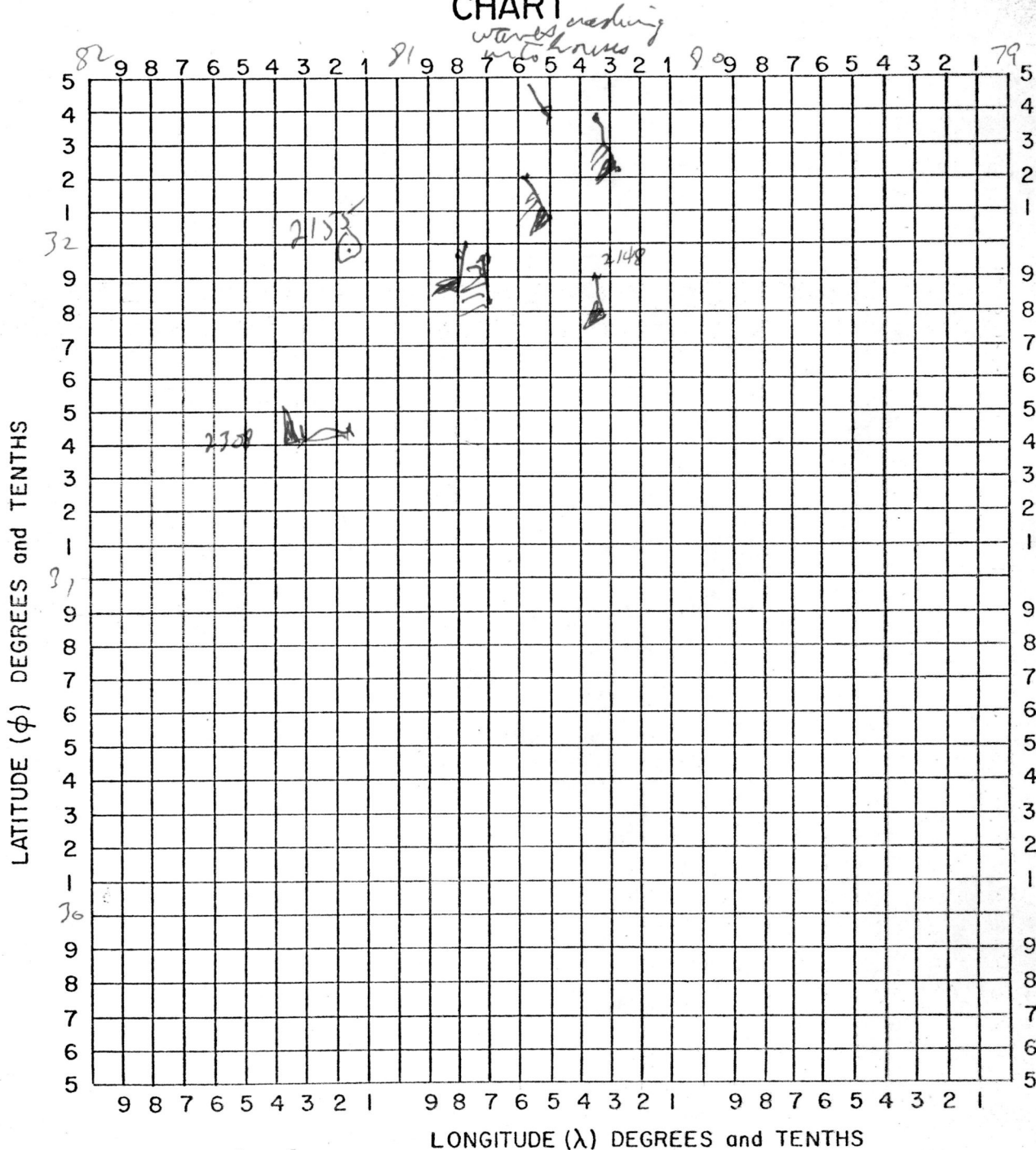
HURRICANE RECCO PLOTTING CHART



DATE 790904CT
OBSERVER Black

NOTE: Label full degrees according to location of flight area

HURRICANE RECCO PLOTTING CHART



DATE 79090414
OBSERVER Blacks

NOTE: Label full degrees according to location of flight area

Form J-2 Cloud Physics Project Scientist Operational Checklist

DATE 9/4/79

AIRCRAFT 42RF

FLIGHT 290904H

A.

INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson Williams	X				
Nimbliometer					
Lyman Alpha					
U. V.	X				
dewpoint					
Foil Impactor	<u>O.K.</u>				
Formvar	<u> </u>				
Knollenberg	<u>OK</u>				
Raindrop	<u>OK</u>				
Cloud Droplet	<u>OK</u>				
FSSP	<u>OK</u>				
Data System	<u>OK</u>				
& Displays	<u>OK</u>				
Ice Particle Counter	X				
Mee					
ERT					
CO ₂ Radiometer	X				
Microwave Radiometer	X				
Aerosol					
Filters					
Bulk Water					
INC					
CCN					

B.

REMARKS

FOIL BROKE AT TAKE OFF