

Appendix J

Operational Checklists

19780901H1-LPS

FORM J-1

On-board Lead Project Scientist Checklist

DATE 9/1/78AIRCRAFT 42RFFLT 780901H

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>SHEETS</u>	Gust Probe	<u>N/A</u>
Cloud Physics	<u>KELLER</u>	Omega Sonde	<u>DATZMAN</u> <u>PARADIS</u> RISBY
AXBT	<u>N/A</u>	Sys Eng	<u>CONNER</u>
Hot Film	<u>N/A</u>	Data Tech	<u>BRUNSON</u>
Radar	<u>WIRFEL</u> <u>PARADIS</u>	EI Tech	<u>FENNEL</u>
Flt DIR/MET	<u>DARBY</u>	Other	

Time Off 1716 Z Location N/A Time On _____ Location _____

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon	Date	Time	Lat	Lon	MSLP
..								
		<u>31.1</u>	<u>72.4</u>	<u>9/1</u>	<u>1940Z</u>	<u>31.1</u>	<u>72.4</u>	

C. Mission Briefing

20,000 FT TO 24,000 FT CLOUD PHYSICS. NO FIX
RESPONSIBILITIES

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	✓			
AXBT	N/A			
Gust Probe	N/A			
Hot Film	N/A			
Photography	✓			

REMARKS

~ 1840 until ?

Systems down on computer. TAS out

First 2 loop not too good

System lock up at ~ 1930Z.

Former stopped ~ 1940Z.

Self from SW to NE being repeated in case data was lost on earlier pass

492 Repeated min press ~ 955MB at ~2045z

Had to repeat part of 20K pattern due to equip outage.

Flying rainbands on N side

Rainbands are poorly defined and weak.

Difficult to find them.

Much easier to find bands with STC off

2255z	31	15N	72	36'W	
SW	110	FLT	92		492

217 959

1941 31.1 72.4

2032 31.18 72.48

2111 31.24 72.52

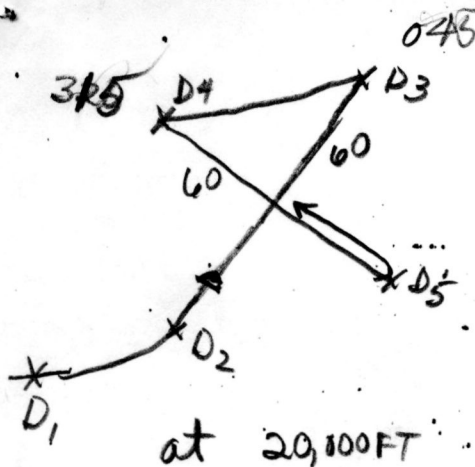
2134 31.23 72.56

2249 31.21 72.65

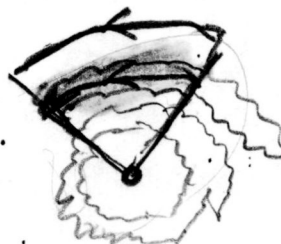
New York center would not give clearance to 10,000ft.

Repeat pattern at 17,000 ft. similar to 20,000 ft pattern

E. Proposed Flight Patterns



STM MIN



20,000 FT.
REPEAT AT 24,000 FT

F. Actual Flight Patterns

1745Z 31°07' 72°15' 100KTS at 19,000 FT
310° 10-12 KTS

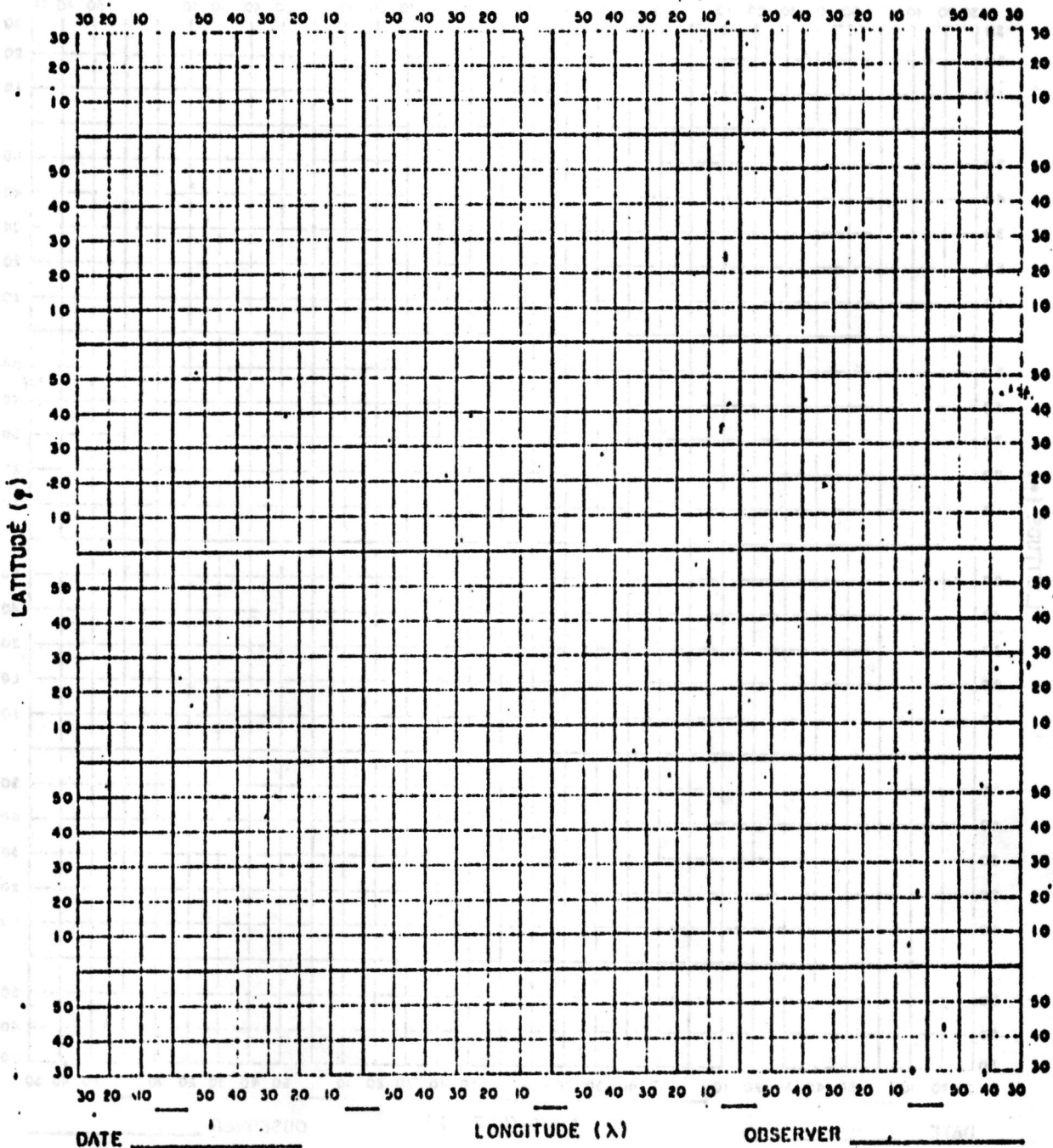
2344Z 31°19'N 72°40'W 113KT FLT LVL

961 MB

0036Z 31.21 72.71

HURRICANE RECCO PLOTTING CHART

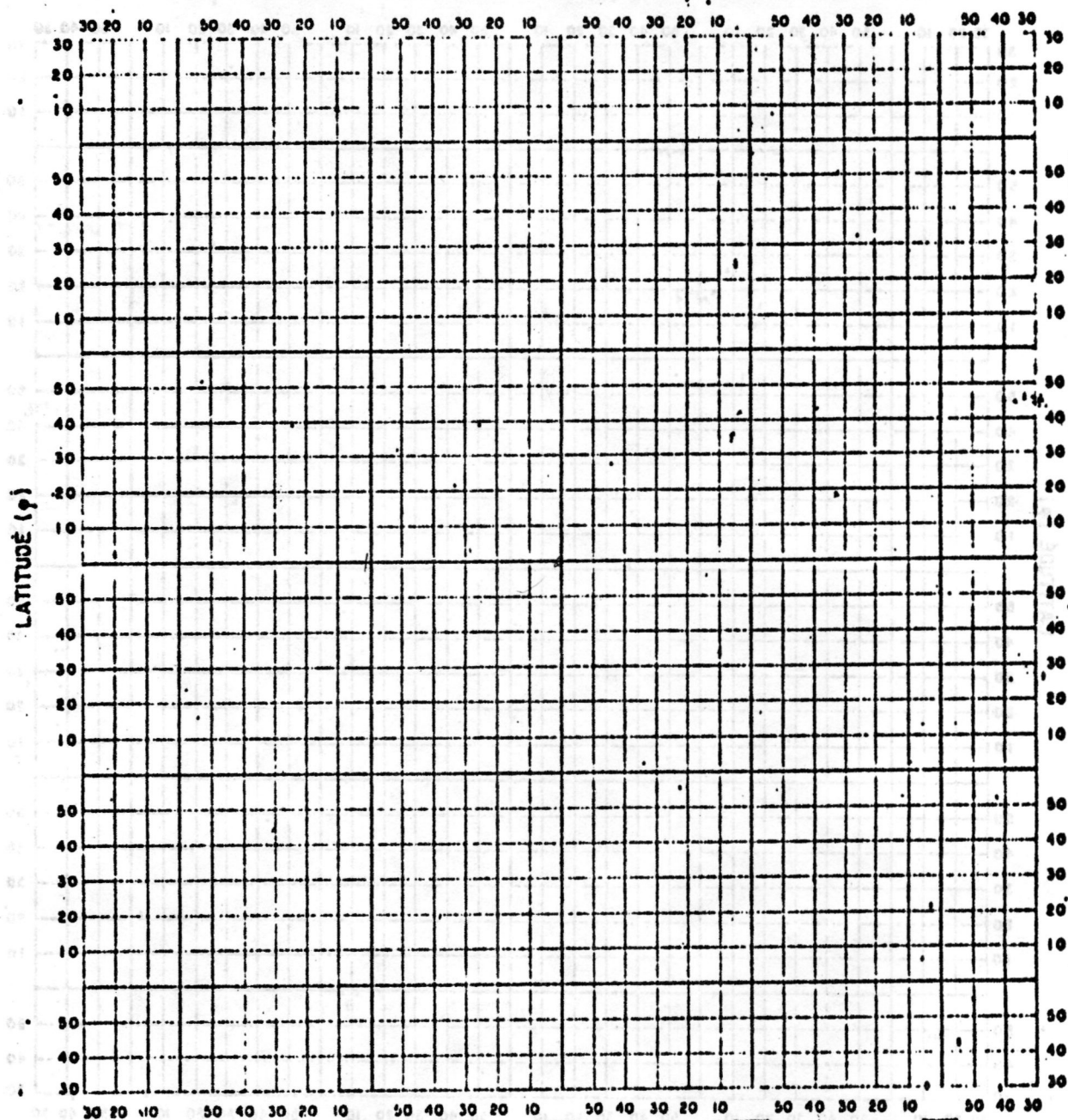
TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

HURRICANE RECCO PLOTTING CHART

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



DATE _____

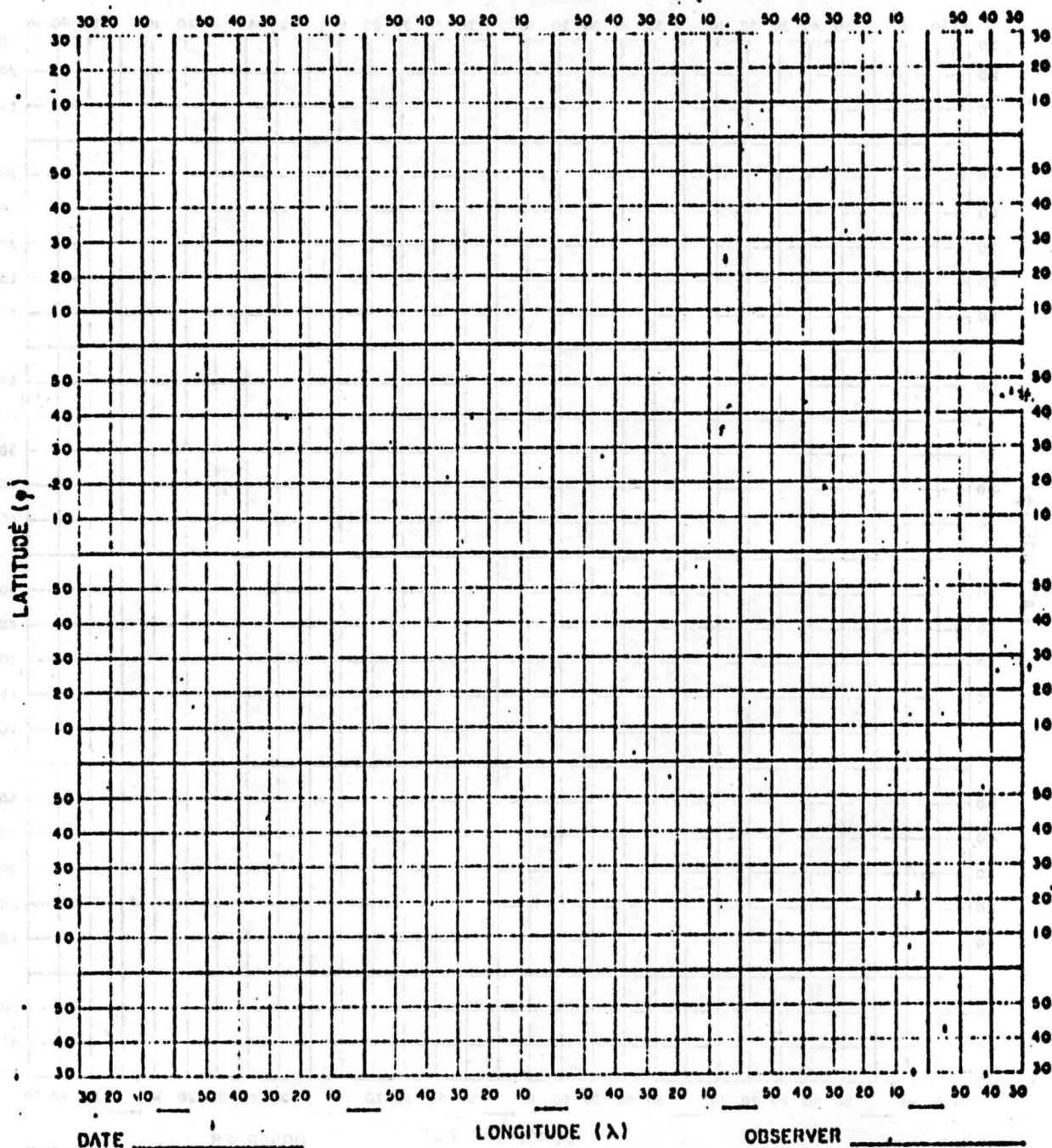
LONGITUDE (λ) _____

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



NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

30.2
73.7 W

780901 H

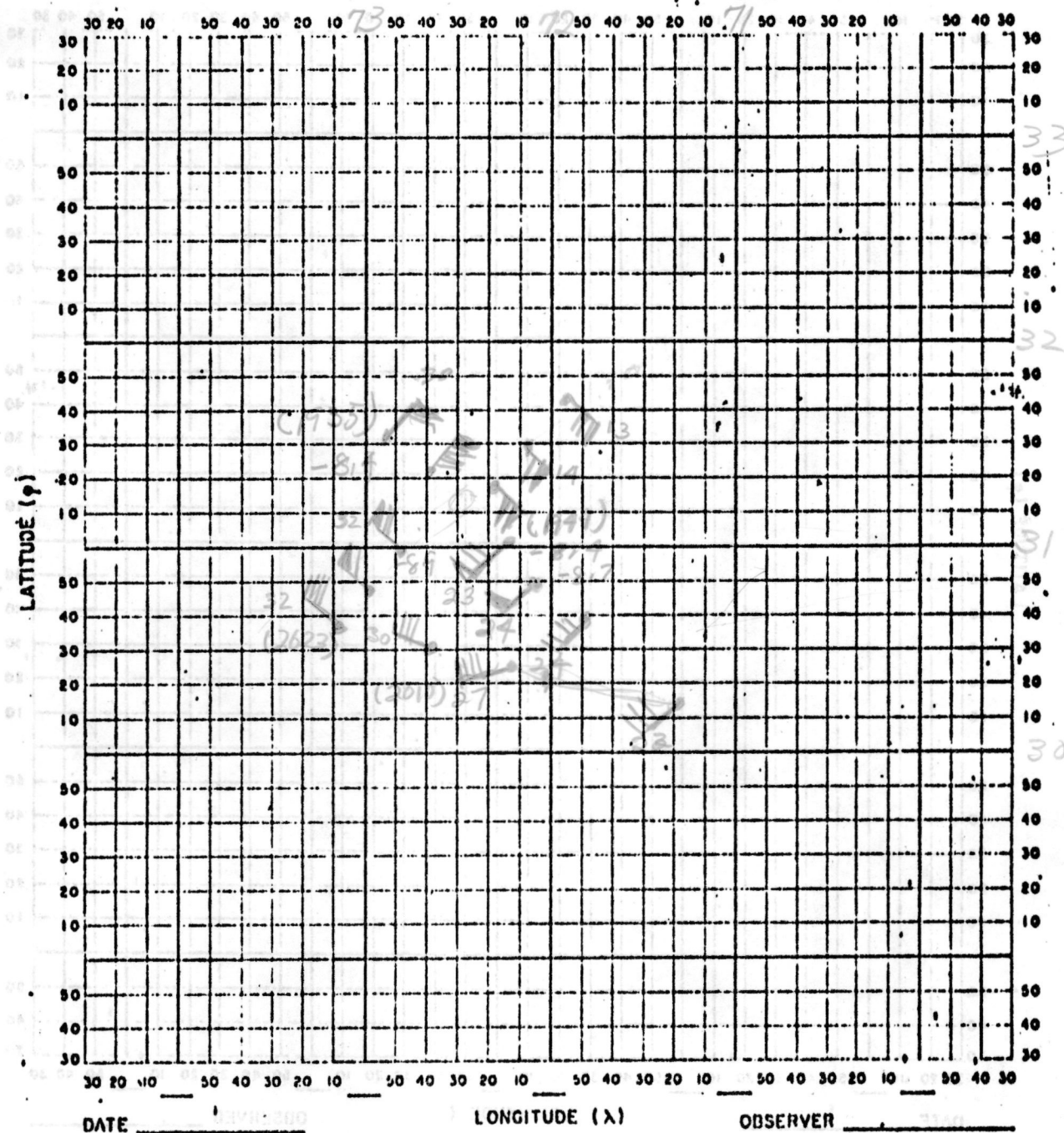
17342
16 = 36
15 = 30
14 = 24
13 = 18
12 = 12
11 = 6

Form J-1, Page 4

31.1 72.4

HURRICANE RECCO PLOTTING CHART

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



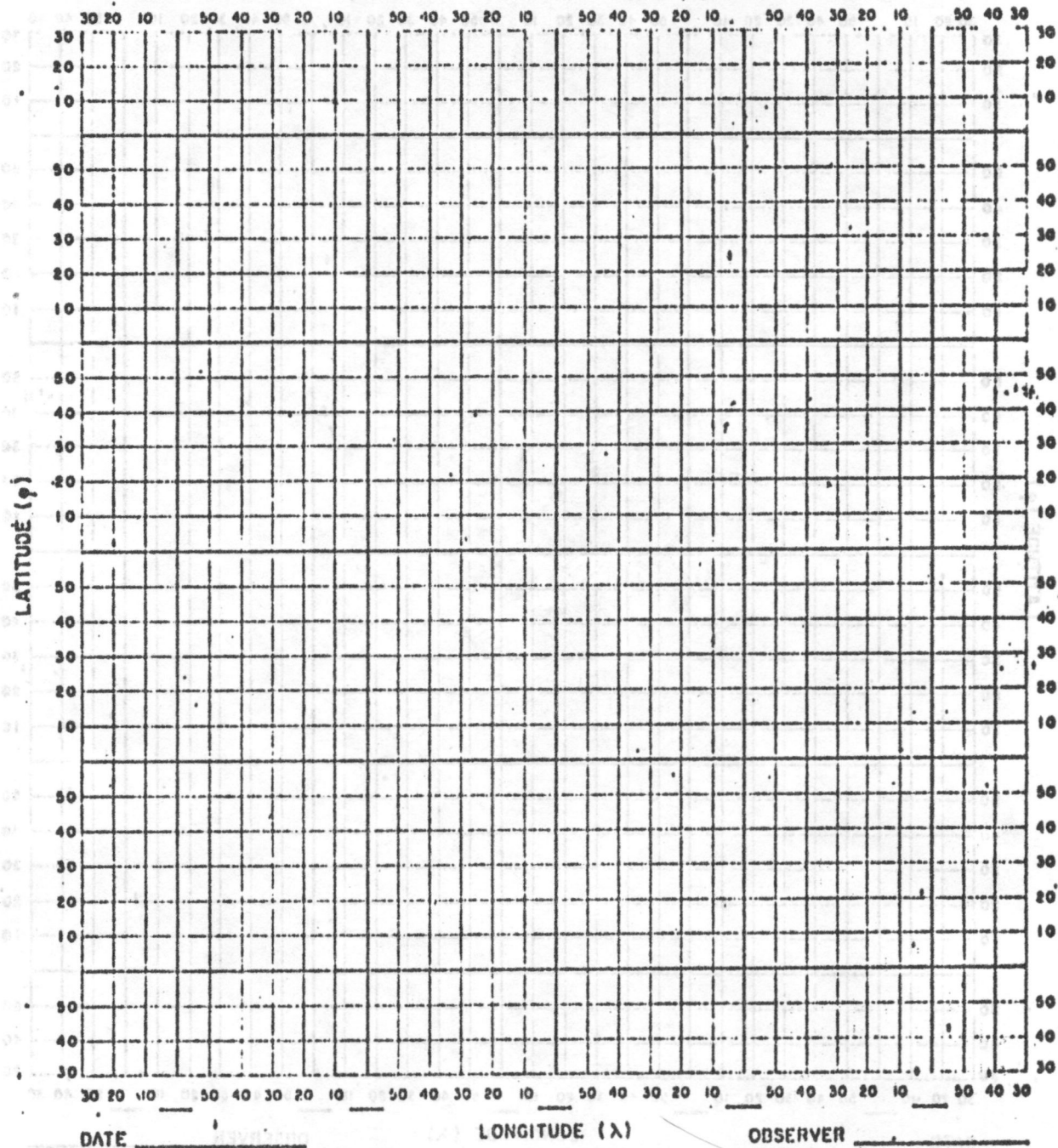
NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

Page 1

20,000 FT (6140M)

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

U.S. DEPARTMENT OF COMMERCE

WEATHER BUREAU

NORTH ATLANTIC HURRICANE TRACKING CHART

