

Appendix J

Operational Checklists

19800808 FI. LPS

FORM J-1

On-board Lead Project Scientist Checklist

DATE 800808 FIAIRCRAFT 41CFLT 1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>JORGENSEN</u>	Gust Probe	<u>—</u>
Cloud Physics	<u>—</u>	Omega Sonde	<u>—</u>
AXBT	<u>—</u>	Sys Eng	<u>Schwicker</u>
Hot Film	<u>—</u>	Data Tech	<u>Duglart</u>
Radar	<u>LIEN</u>	El Tech	<u>Calvert</u>
Flt DIR/MET	<u>DARBY</u>	Other	<u>—</u>

Time Off 1623Z Location MCA Time On 0100Z Location New Orleans

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon	Date	Time	Lat	Lon	MSLP
8/7	21Z	21.5	86.5					
8/8	10Z	22.8	90.2					
8/8	18Z	23.8	92.2					
8/9	06Z	25.0	95.0					

C. Mission Briefing

Eye wall experiment 42 at 18-20 Kft 41 at 12 Kft and 43 at 5 Kft. 42, 41 8ly PA 43 RA
 Cross patterns - will try to complete two complete patterns - land at New Orleans

D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	ok	ok		
Radar	ok	ok		
Cloud Physics	—	—		
Data Sys	ok	ok		
Omega Sondas	—	—		
AXBT	—	—		
Gust Probe	—	—		
Hot Film	—	—		
Photography	—	—		

REMARKS

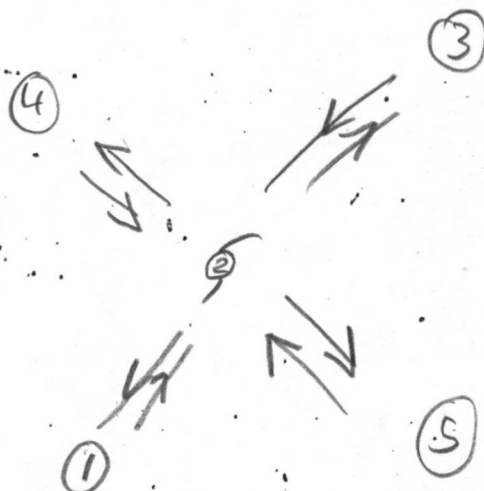
Will try to fly same track as 43 on its
1500 ft leg to storm for NASA

43 will drop BT at initial pt

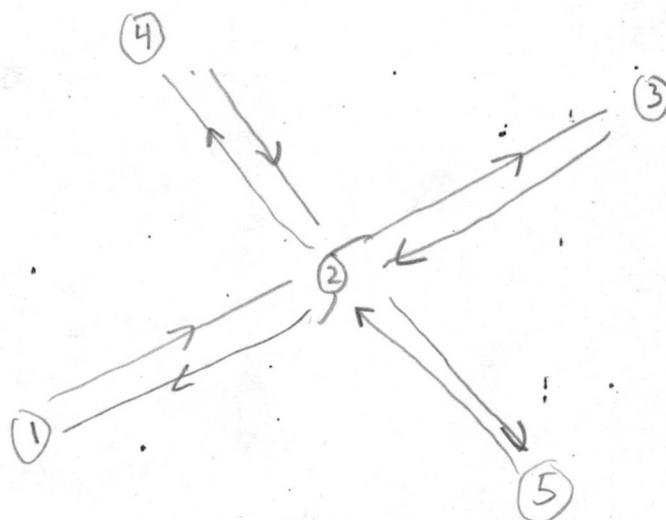
ETA IP 1850 ±

1823 43 at 23.92 89.89 146° 36 m sec⁻¹ 23.9 °C
SST

E. Proposed Flight Patterns



F. Actual Flight Patterns



5-2-4-2-1-2-3-2-5

Done at 12kft

5-2-4-2-1-2-3

then to New Orleans

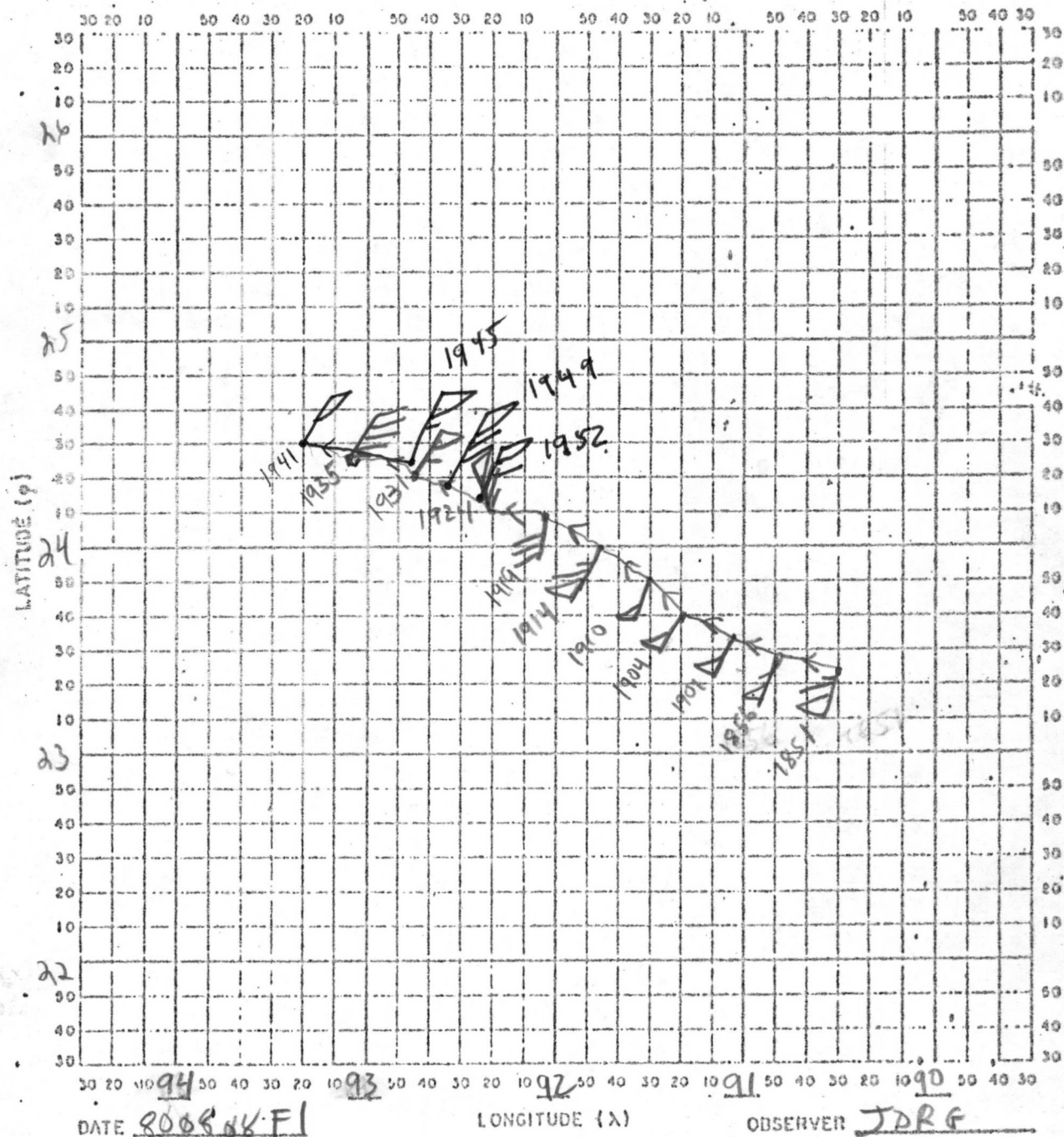
Dropsonde on last
pass through

937

24 10.5', 934
92 0.6.7

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

①

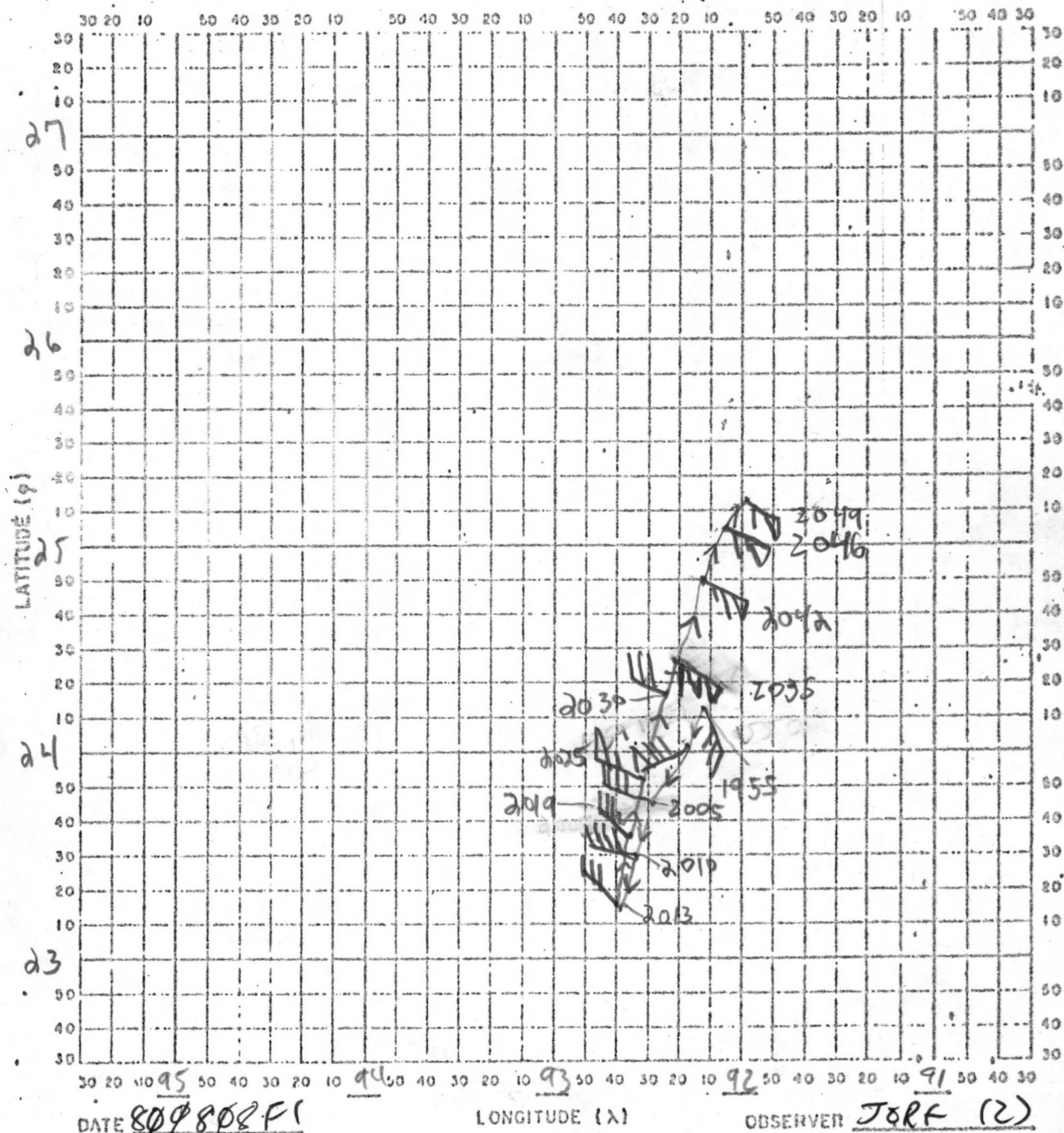
18 kft

These are knots

930 mb
928 mb

HURRICANE RECCO PLOTTING CHART

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

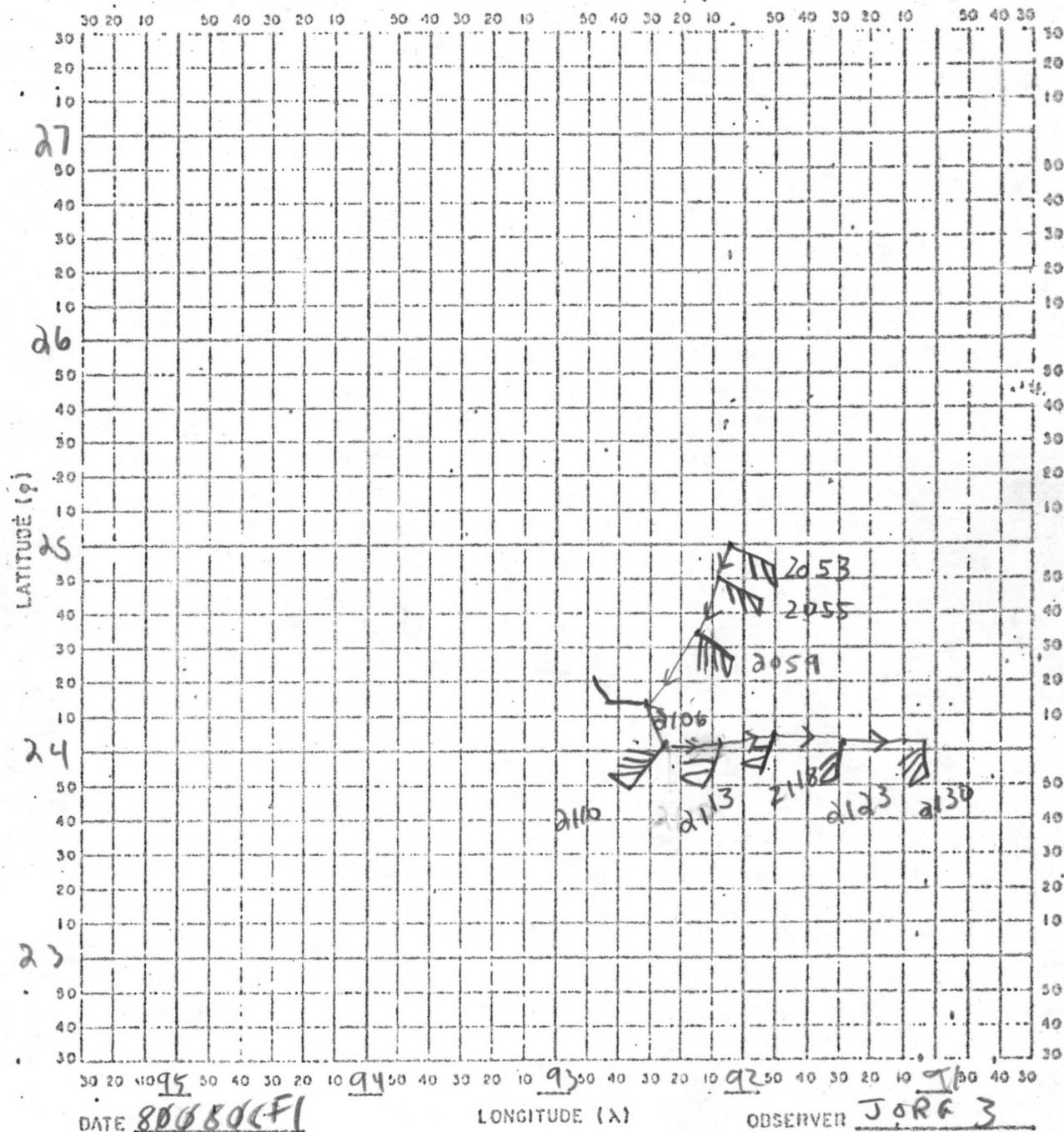


NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

Knots

HURRICANE RECCO PLOTTING CHART

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

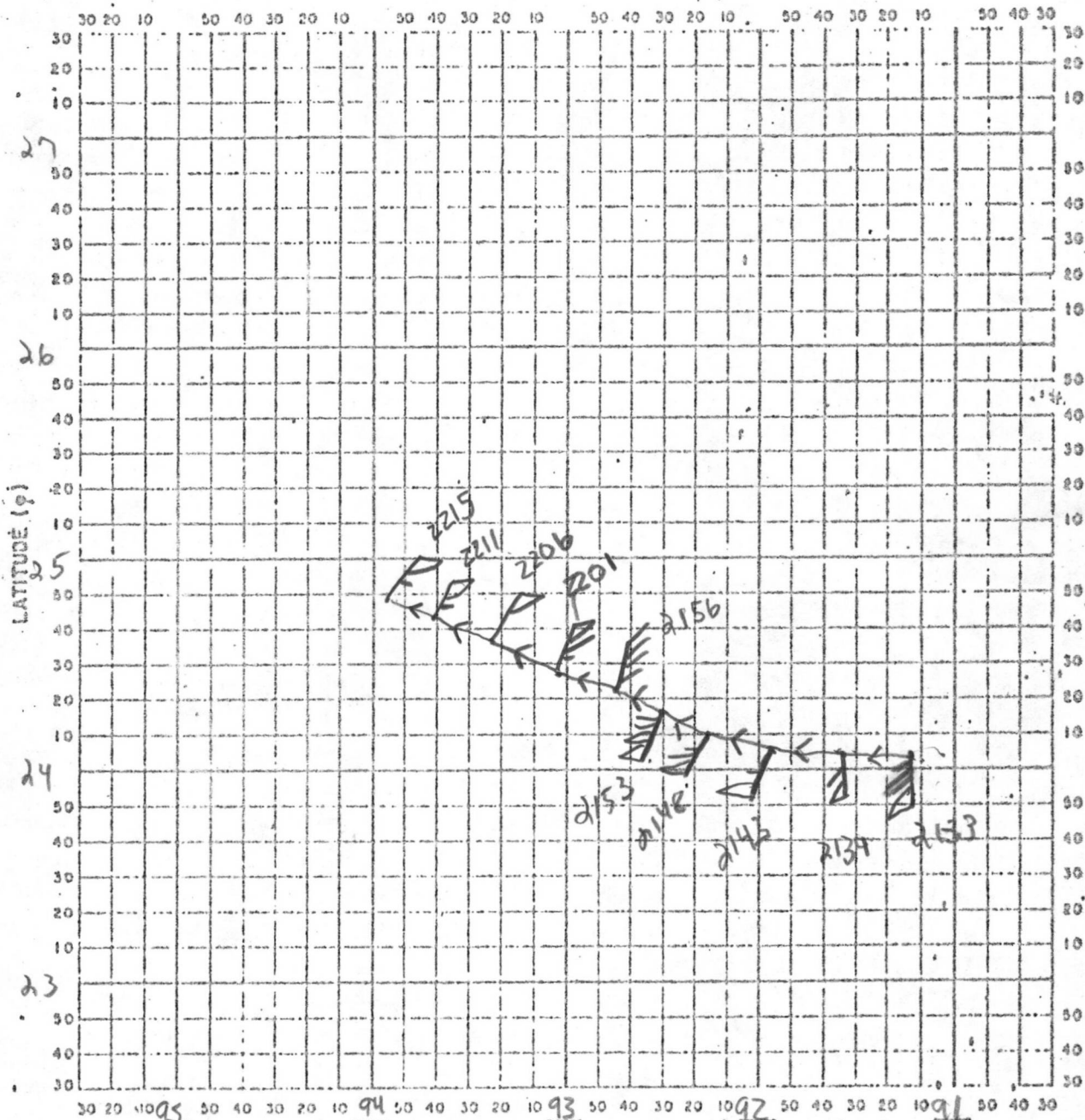


NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

24.21.6.917
92 42.1

HURRICANE RECCO PLOTTING CHART

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



DATE 800808F1

LONGITUDE (λ)

OBSERVER J1864

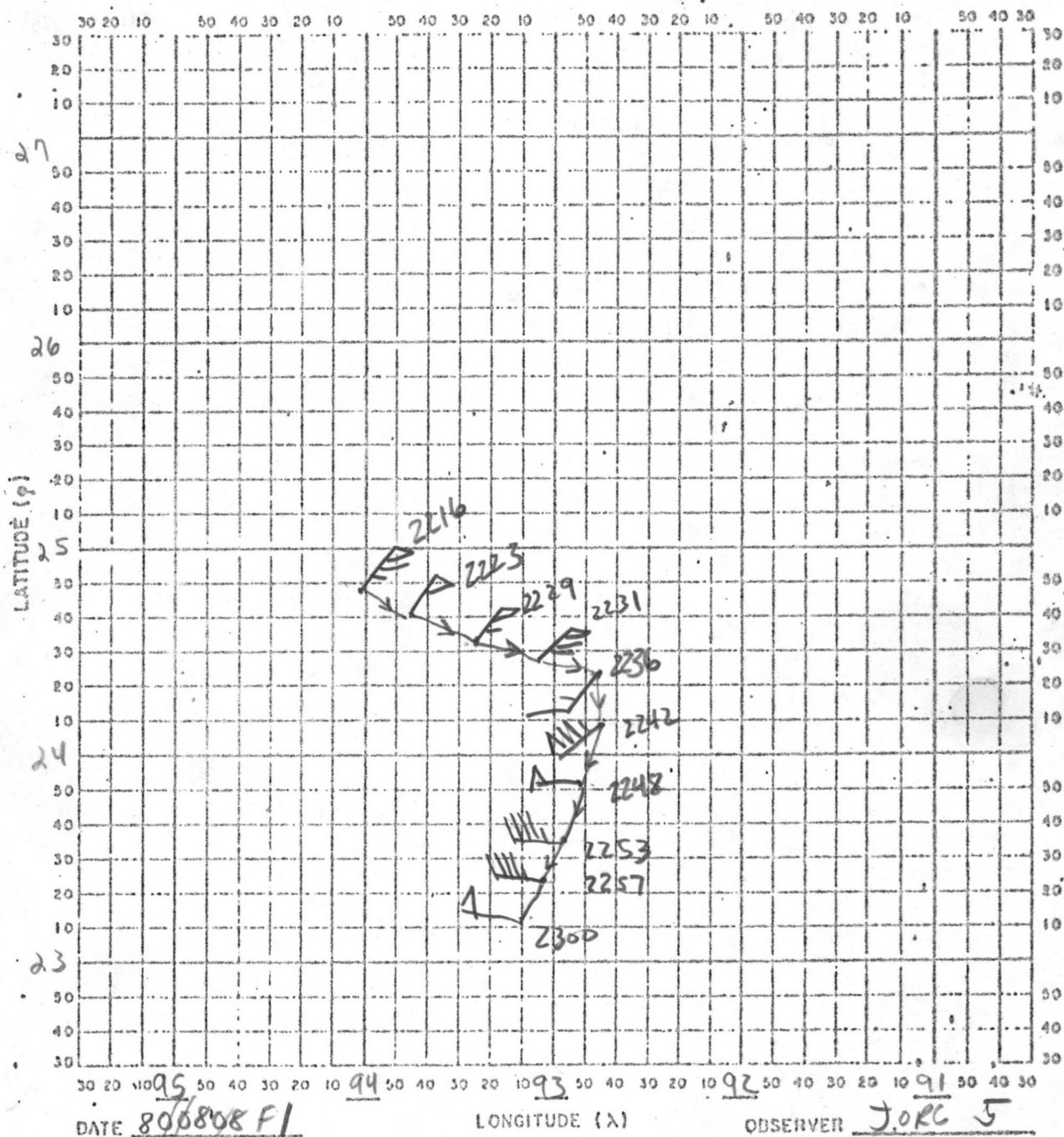
NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

Knots

15 K/H

913

HURRICANE RECCO PLOTTING CHART

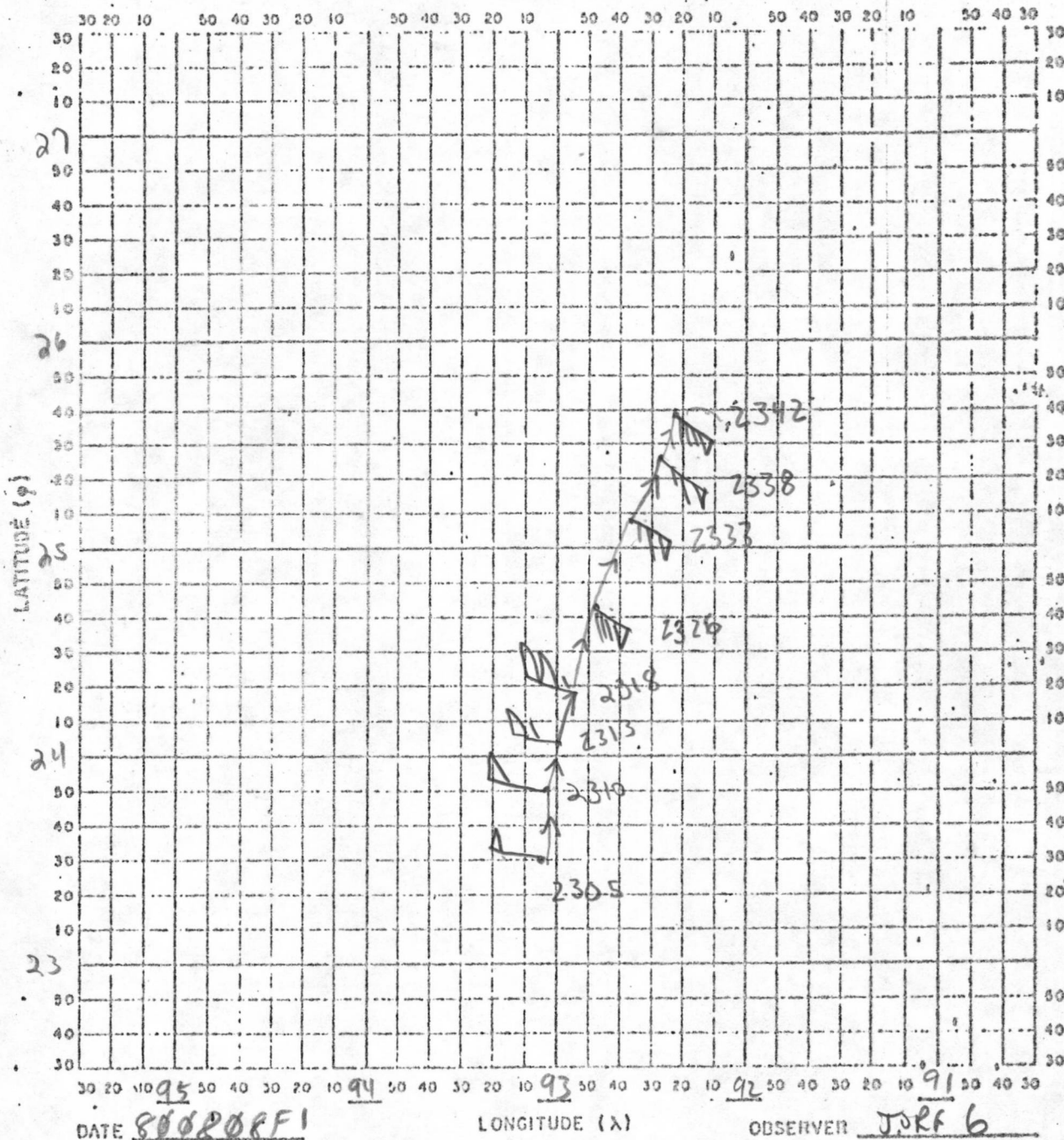
TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ 

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

Drops on 27°C 55C
913mb

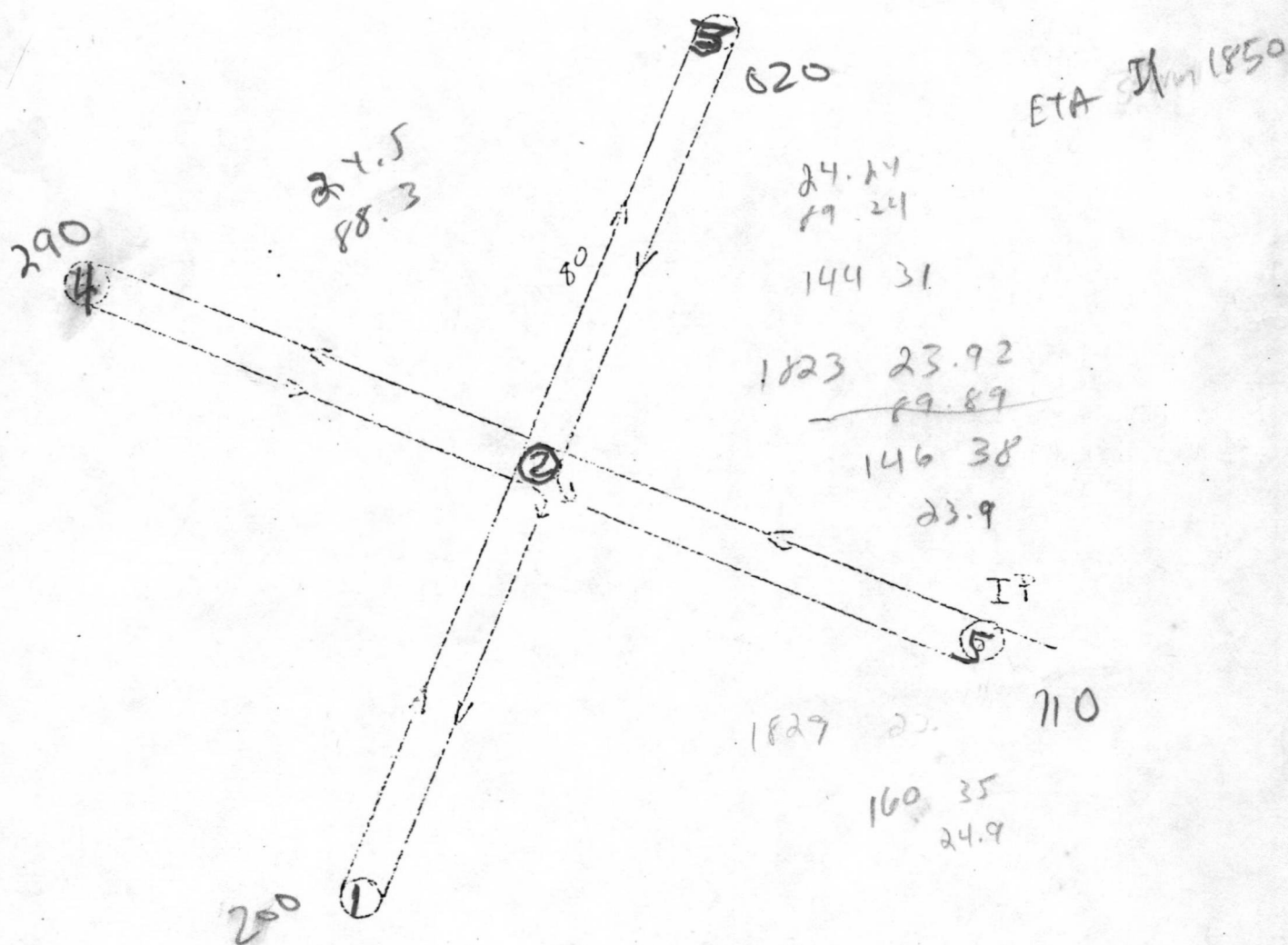
HURRICANE RECCO PLOTTING CHART

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



NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

3 A/C MODIFIED EYE-WALL EXP
OPTION B



ALL AIRCRAFT FLY 5,2,4,2,1,2,3,2,5,2,4,...
FOR DURATION

ALTITUDES 41C 12000 FT
42RF 18-20000 FT
43RF 5000

OPTION B WILL BE FLOWN IF THE
EYE IS LARGE OR IF A SECONDARY
WIND MAXIMUM IS PRESENT