19831010I1_LPS

On-board Lead Project Scientist Checklist

DATE 10/10/83 AIRCRAFT 43RF FLT 83101011

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	Jorgensen	~~Gust Probe~~	
Cloud Physics	Bogert	~~Omegasonde~~	
~~AXBT~~ Doppler	Marks	Sys Eng	Schricker
~~Hot Film~~ Radar	LeMone	Data Tech	Stone
Radar	Churchill	~~El Tech~~ Sys Eng	Dugranrut
Flt Dir/Met	Darby	Other	

Take Off 1349 Z Location Guad. Landing 2225 Location Guad.

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
~~1145 Z~~				
10/10	1145 Z	12.5	114.6	~80 knots

C. Mission Briefing

Rainband Experiment #1

Eyewall Experiment #2

D. Equipment Status

Equipment	Pre Flt	In Flt	Post Flt	Reports Collected
Aircraft	ok			
Radar	ok			
Cloud Physics	ok			
Data Sys	ok			
Omegasondes	–			
AXBT	–			
Gust Probe	–			
Hot Film	–			
Photography	ok			

REMARKS

E. Proposed and Actual Flight Patterns

Rainband Experiment pgs 26 - 28 of Hurricane Field program plan.

1205

1845

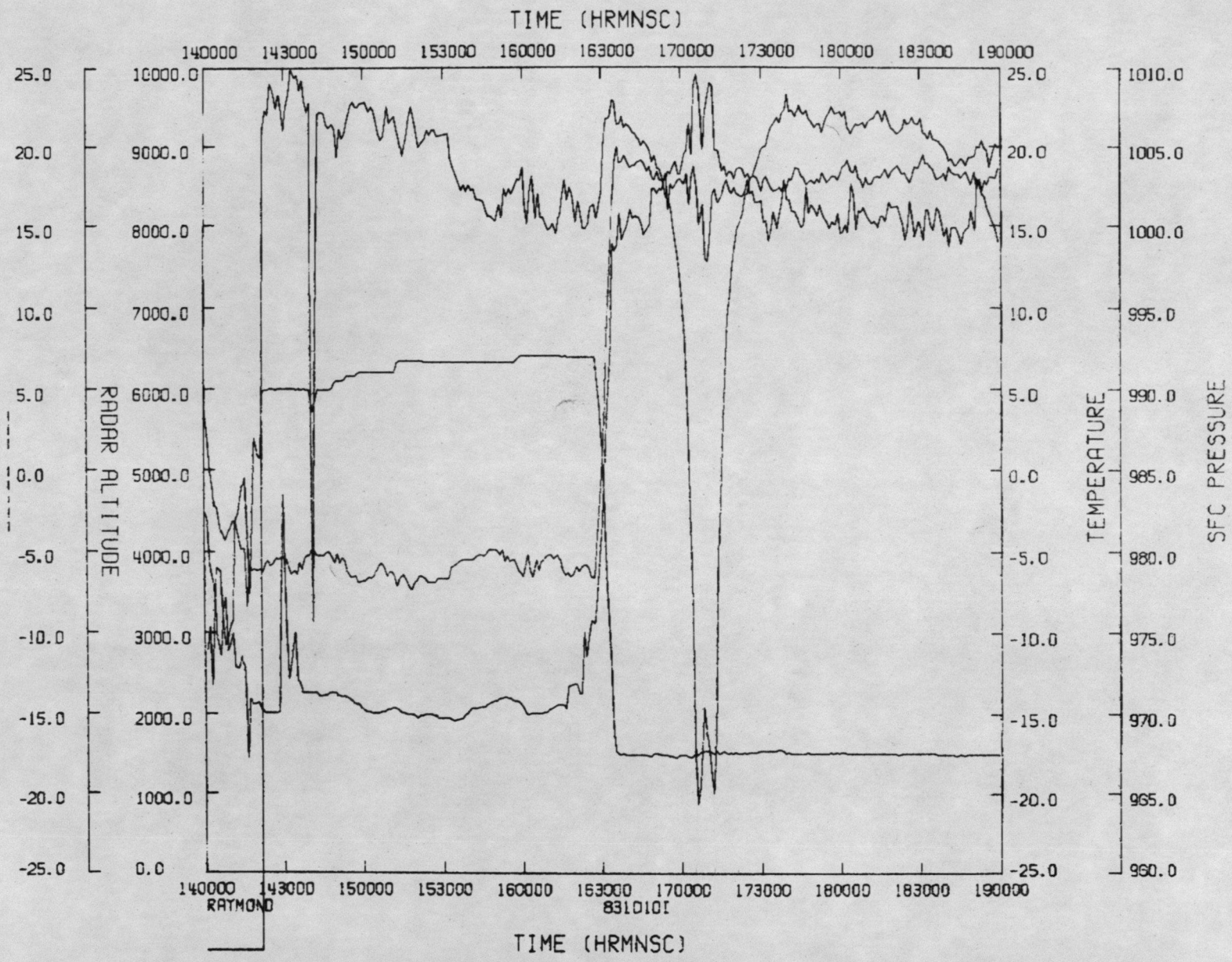
DATE 10/10/83 FLIGHT 831010 I1 LPS JORGENSEN

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
T.O.	1349Z	Guad 20.51 N 103.31 W	
descent	1628	13.34 113.89	~160 miles out
At 5kft	1635	13.07 114.44	~120 miles out
Eye	170650	11.94 116.27	Max wind ~50 ms⁻¹ 96.6 ms
Exit Eye	1712	12.06 116.26	
Start leg 1	1735	12.22 114.96	
turn to 52°	1738	12.26 114.85	TRK 52°
4h in sight	174015	12.41 114.61	
Start #2	174040		
End	174353	12.65 114.81	
Start #3	174451	12.66 114.87	trk 236°
End	174814	12.53 115.05	
Start #4	174904		trk 146°
End	175300	12.32 114.94	
Start #5	175350		trk 56°
Start #6	175624	12.42 114.76	trk 331°
~~Start #7~~ END	180145	12.76 114.95	
Start #7	18024	12.76 115.02	trk 235°
End	180529	12.67 115.17	
Start #8	180624	12.63 115.16	trk 145°

*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.

Event	time	Position		Comments
End	181020	12.47	115.04	End upwind
Start #9	181100	12.49	114.98	trk 60°
End	181302	12.53	114.91	
Start #10	181417	12.60	114.91	trk 337°
End	181648	12.75	115.01	
Start #11	181733	12.76	115.06	trk 250
End	181910	12.72	115.18	Outside turn
Start #12	182210	~~12.65~~	~~115.19~~	trk 160
End	182419	12.64	115.18	
Start #13	182500			
End	182639	12.66	115.06	
Start #14	182733	12.71	115.04	TRK 354
End	182924	12.84	115.05	
Start #15	183850	12.60	115.56	TRK 236
End	184206	12.49	115.73	
Start #16	184325	12.43	115.72	
End	184913	12.19	115.85	
Start #17	185030	12.21	115.52	TRK 63°
End	185130	12.29	115.47	
Start #18	185215	12.29	115.47	
END	185603	12.54	115.61	
Climb out	190820	12.92	115.20	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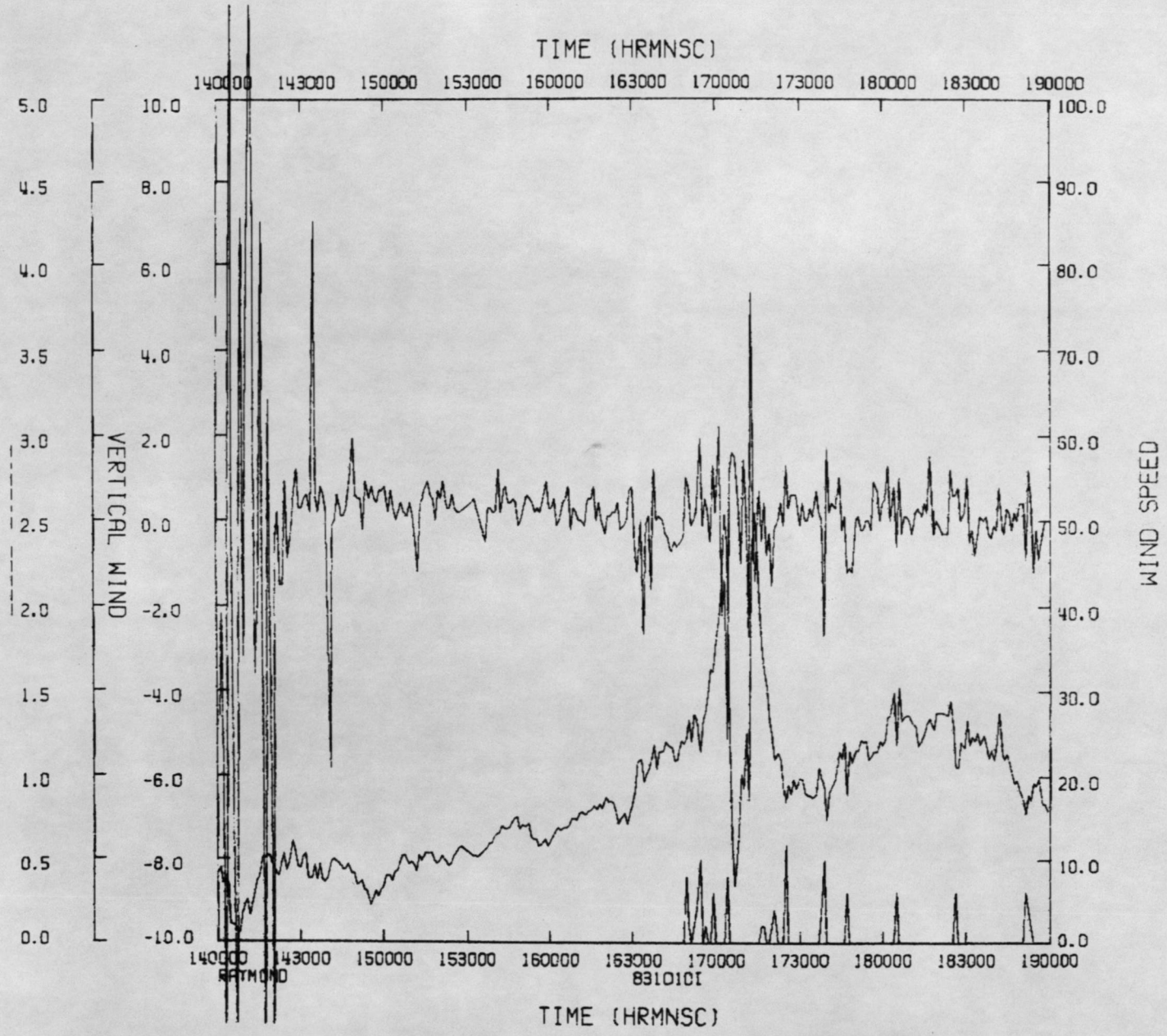
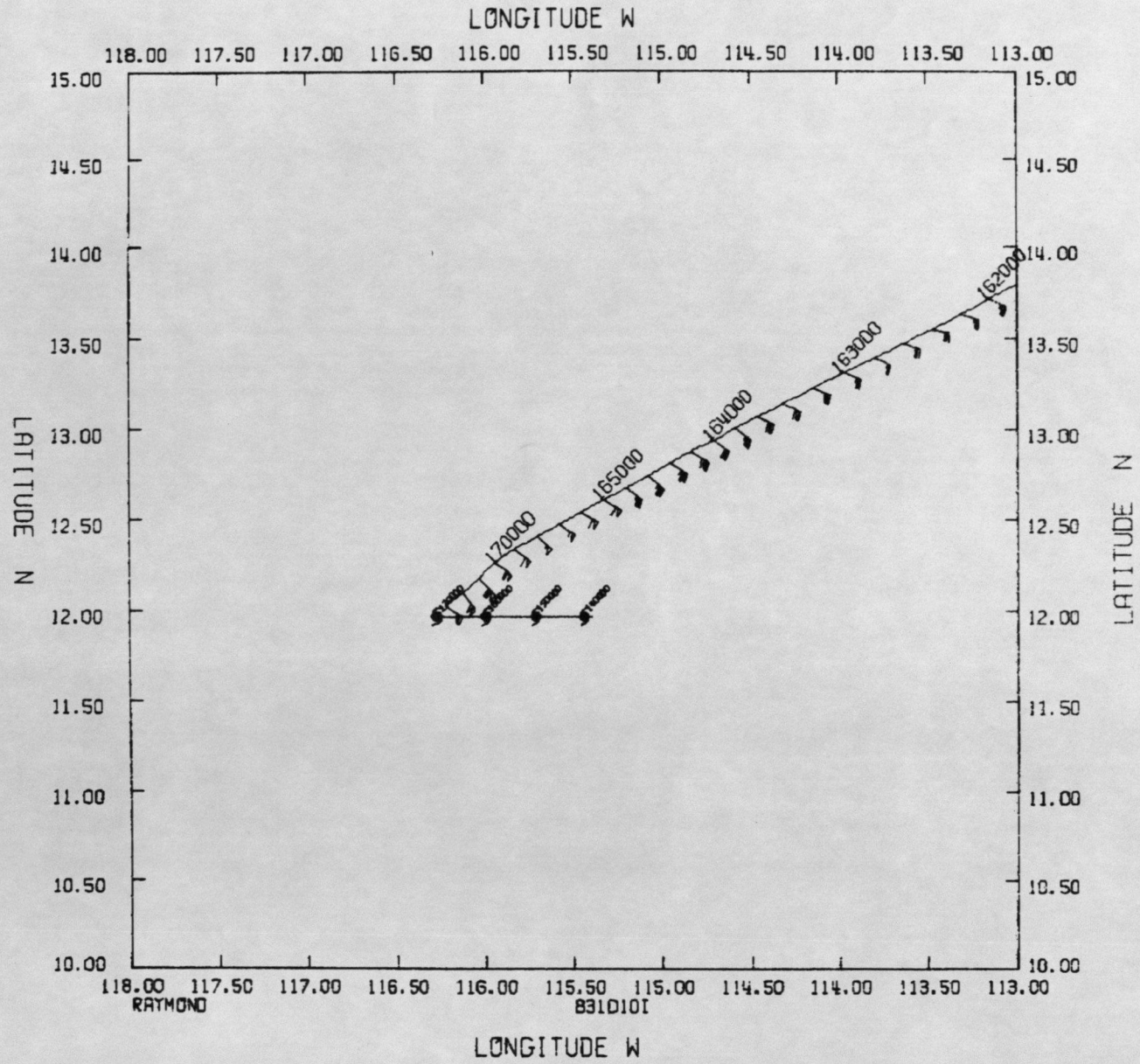
140000 143000 150000 153000 160000 163000 170000 173000 180000 183000 190000
25.0 20.0 15.0 10.0 5.0 0.0 -5.0 -10.0 -15.0 -20.0 -25.0
10000.0 9000.0 8000.0 7000.0 6000.0 5000.0 4000.0 3000.0 2000.0 1000.0 0.0
RADAR ALTITUDE
TEMPERATURE
1010.0 1005.0 1000.0 995.0 990.0 985.0 980.0 975.0 970.0 965.0 960.0
SFC PRESSURE
RAYMOND
8310101
TIME (HRMNSC)


TIME (HRMNSC)
140000 143000 150000 153000 160000 163000 170000 173000 180000 183000 190000
5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0
10.0 8.0 6.0 4.0 2.0 0.0 -2.0 -4.0 -6.0 -8.0 -10.0
VERTICAL WIND
100.0 90.0 80.0 70.0 60.0 50.0 40.0 30.0 20.0 10.0 0.0
WIND SPEED
140000 143000 150000 153000 160000 163000 170000 173000 180000 183000 190000
RFTMOND
831010I
TIME (HRMNSC)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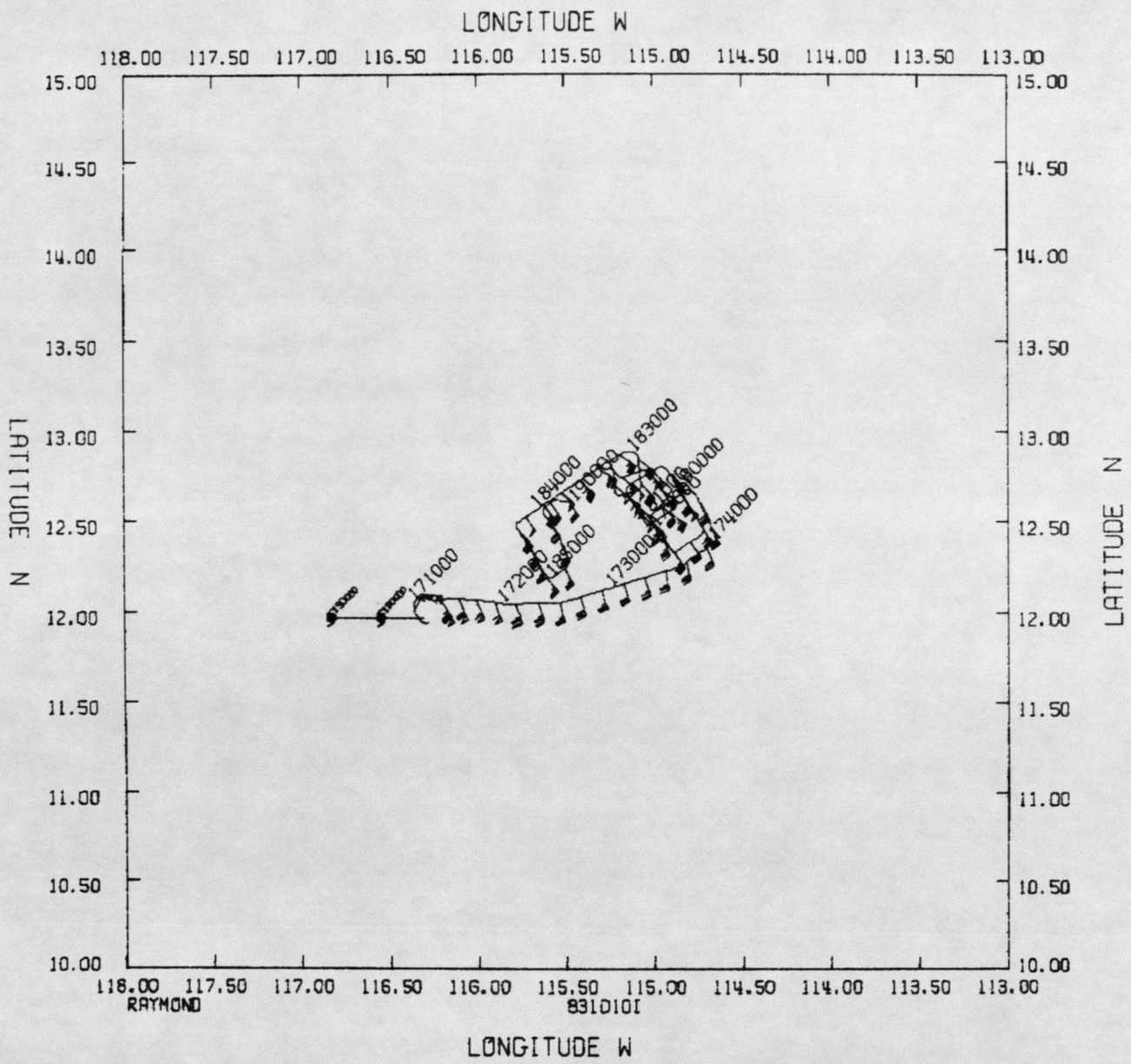
15.00
14.50
14.00
13.50
13.00
12.50
12.00
11.50
11.00
10.50
10.00
LATITUDE N
170000
165000
164000
163000
162000
RAYMOND
831D10I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14.50
14.00
13.50
13.00
12.50
12.00
11.50
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10.50
10.00
LATITUDE N
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172000
173000
174000
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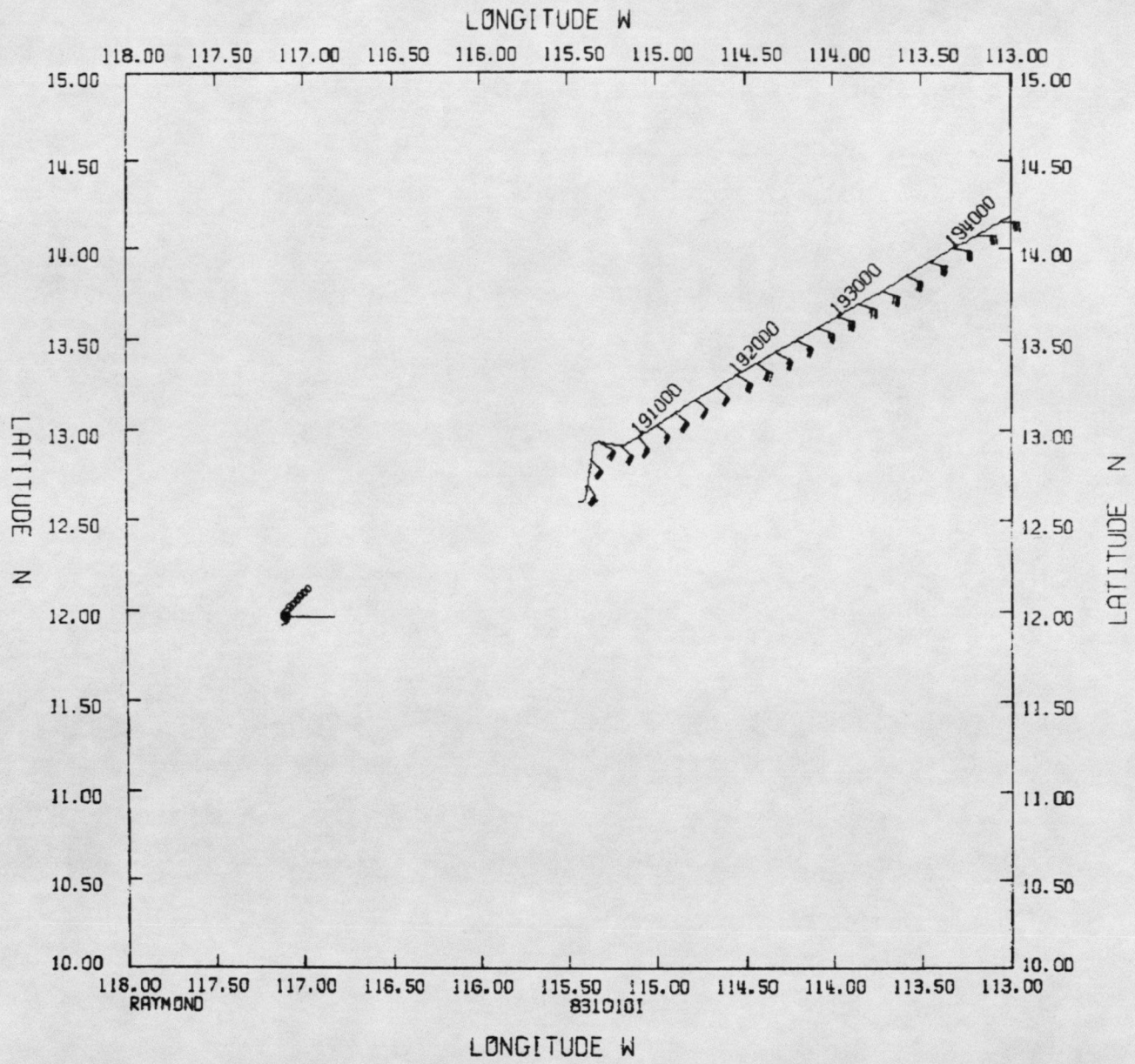
184000
RAYMOND
831010I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13.00
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11.50
11.00
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10.00
LATITUDE N
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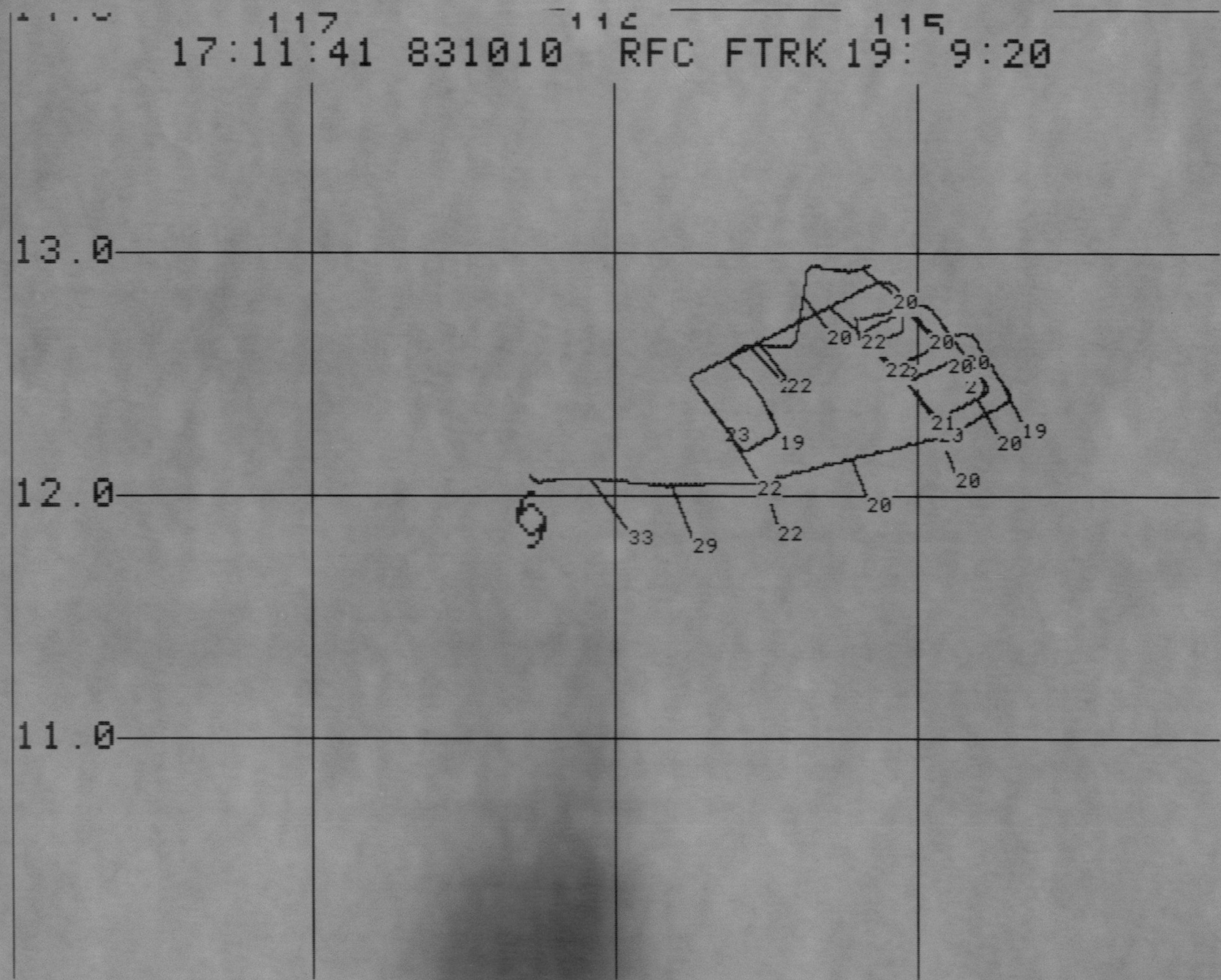
194000
RAYMOND
8310101
LØNGITUDE W
LATITUDE N



17:11:41 831010 RFC FTRK 19: 9:20
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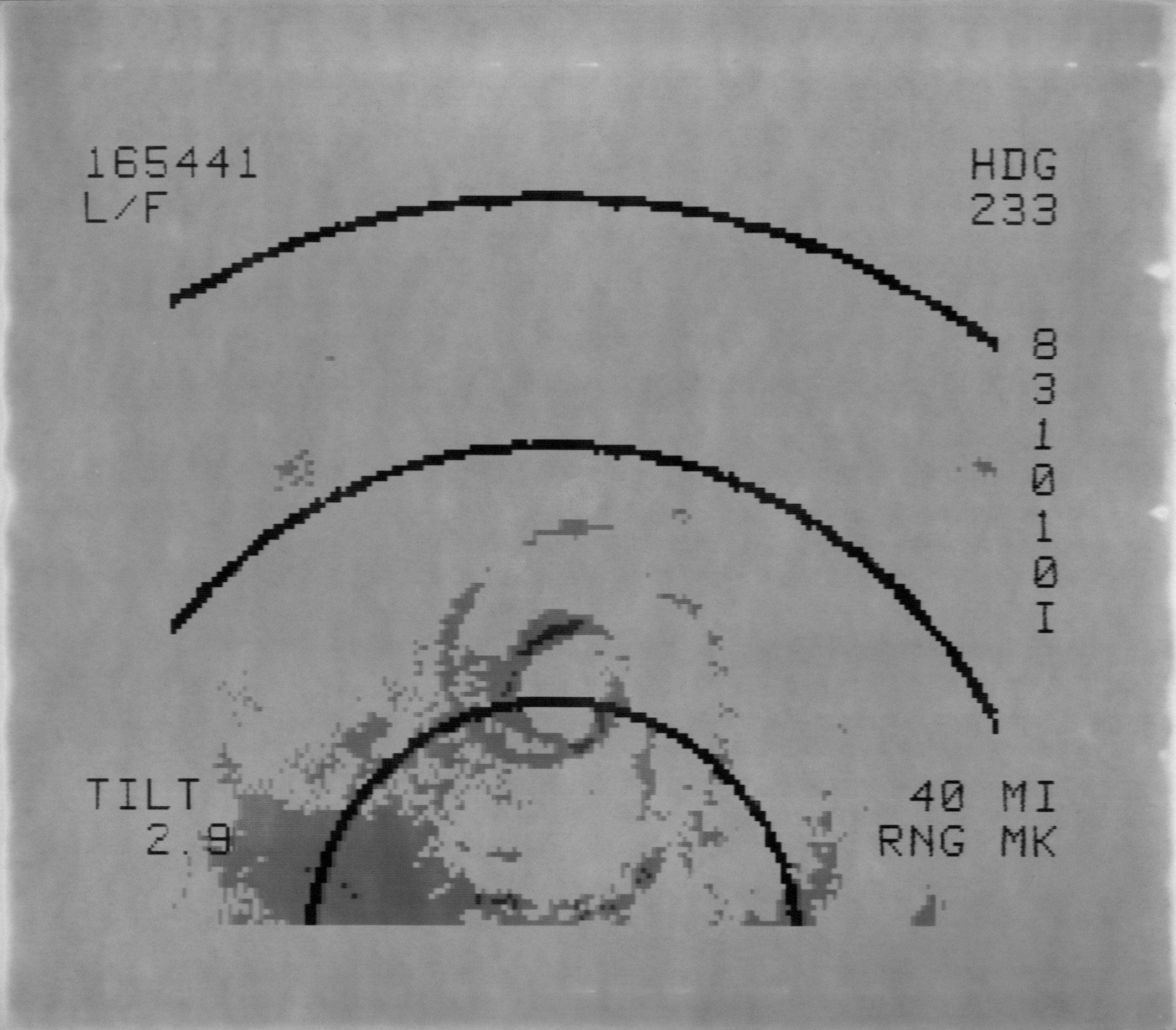
12.0
11.0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HDG
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1
0
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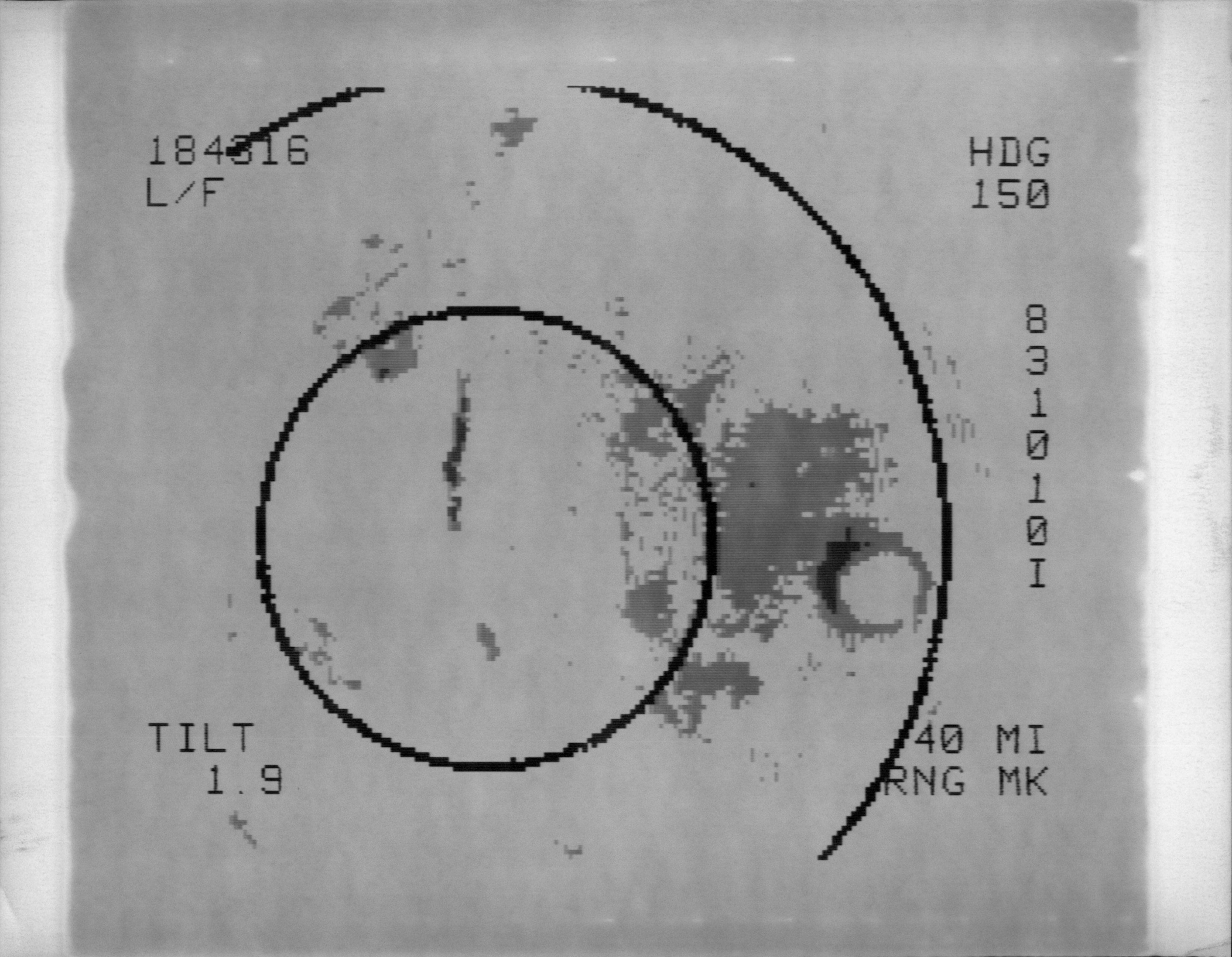
TILT
2.9
40 MI
RNG MK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HDG
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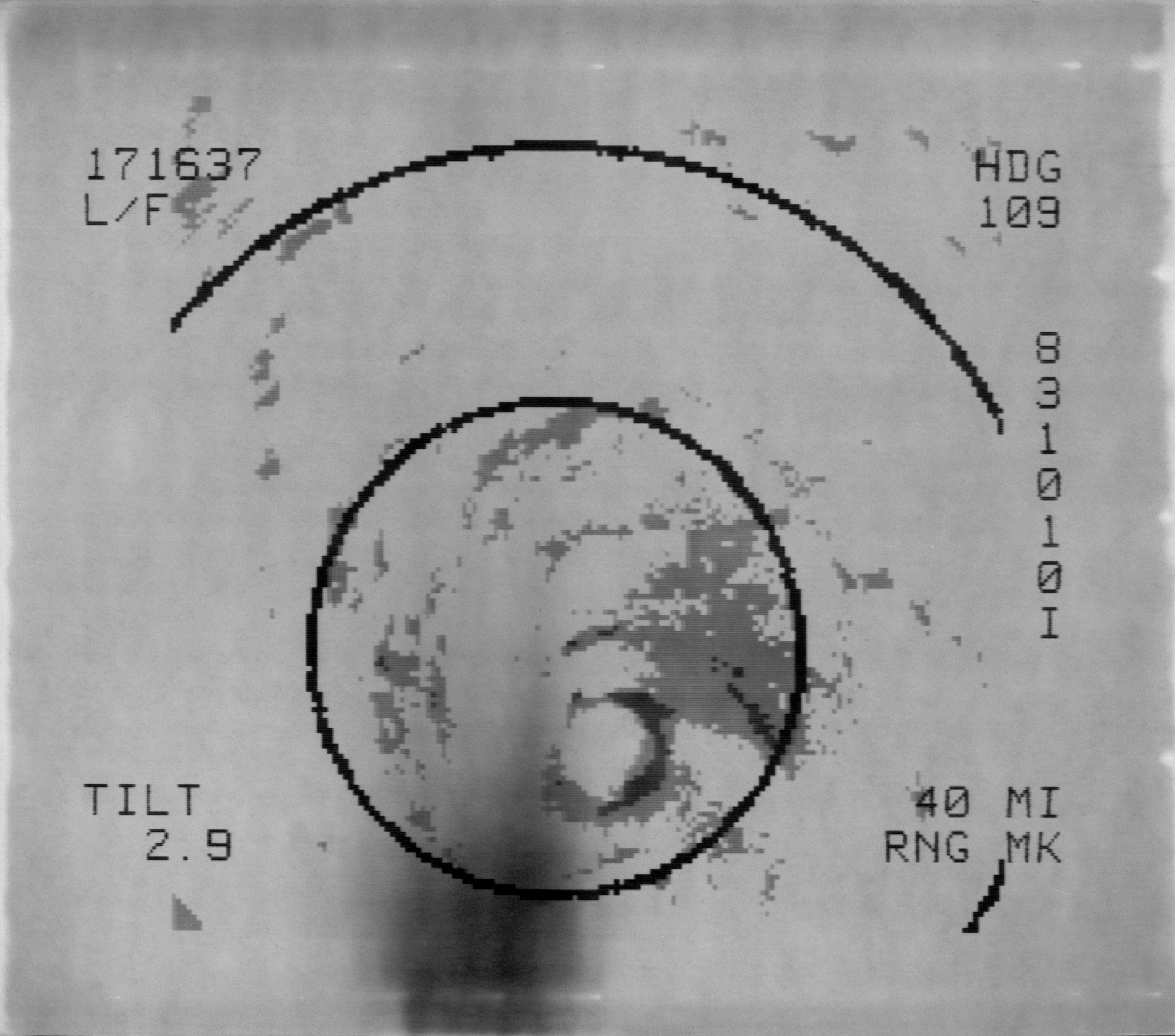
I
TILT
1.9
40 MI
RNG MK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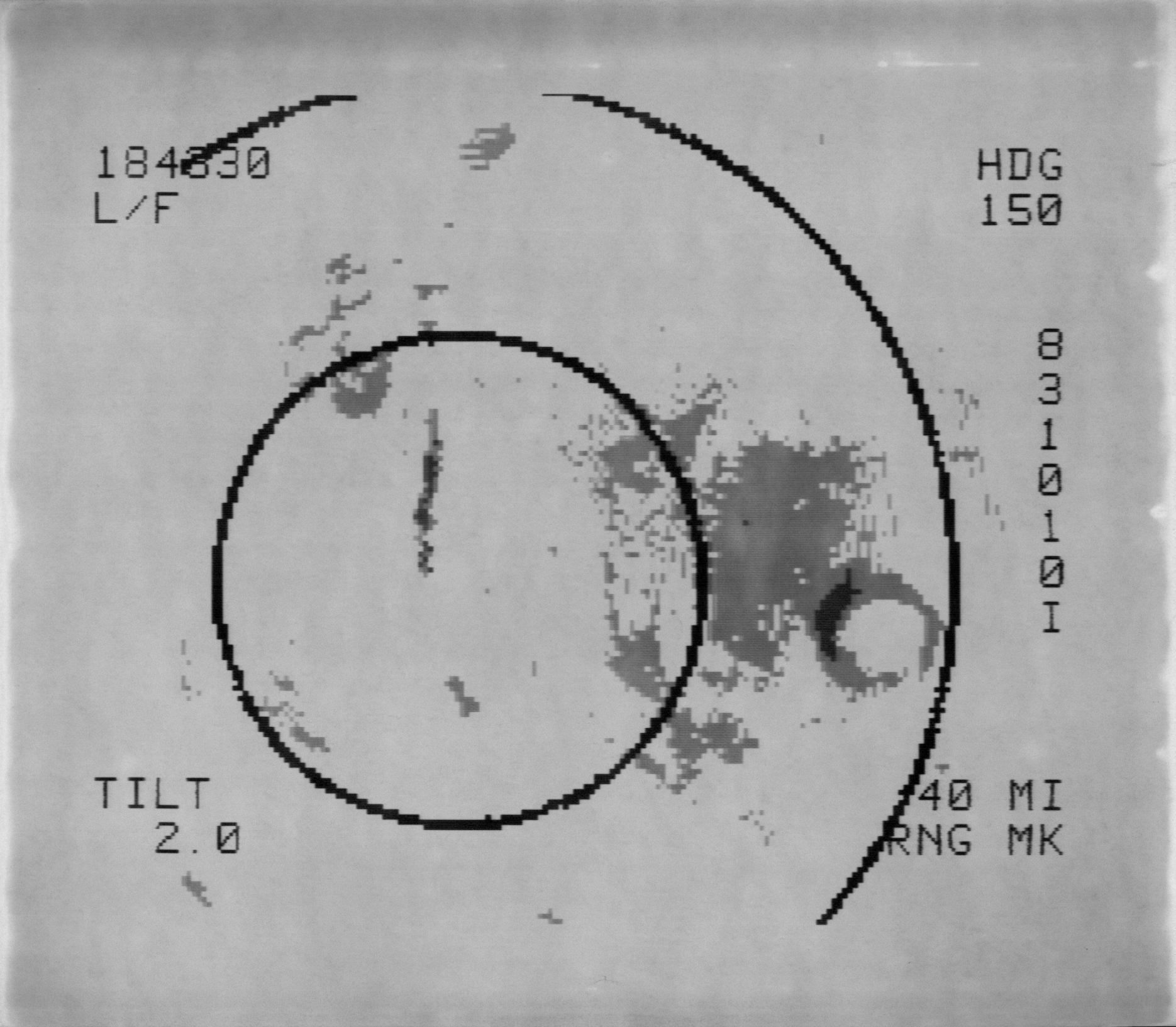
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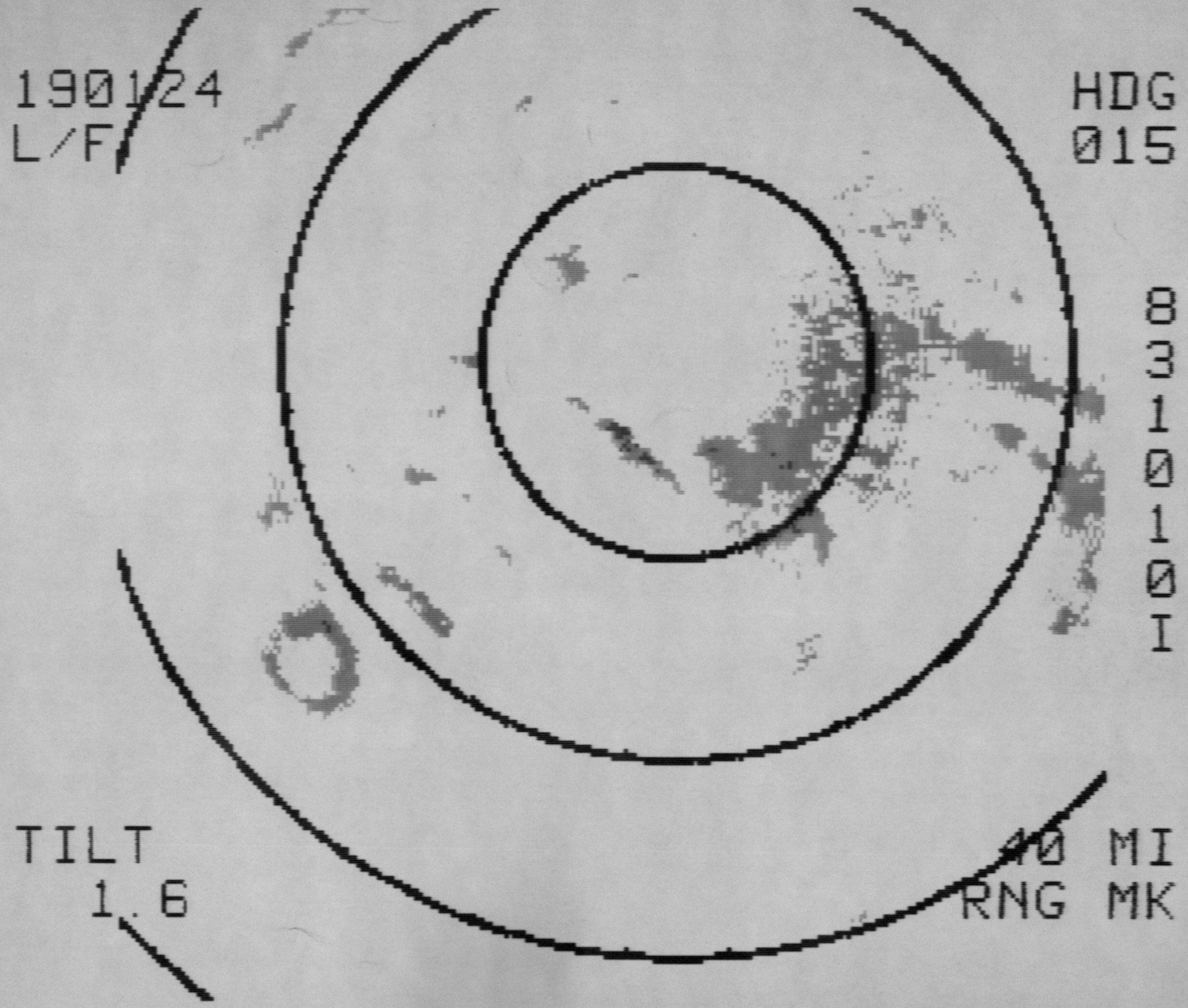
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L/F
HDG
015
8
3
1
0
1
0
I
TILT
1.6
40 MI
RNG MK

PMS - FORMVAR LOG

DATE 10-10-83 FLIGHT 831010I PAGE 1 OF

CLOUD PHYSICS OPERATOR BOGERT / CHURCHILL

KNOLLENBERG → FORMVAR

ON: 163300

TAPE #	AND EOF TIMES	ROLL #	TIME ON	OFF	FRAME COUNT AT START
1		1	1633	1658	
		2	1656		
2		3.	MSG	1730	
3.		4.	1730	1751	
		5.	1751	183500	
4.		6.	183500		
5.		7.			
		—			
6.					

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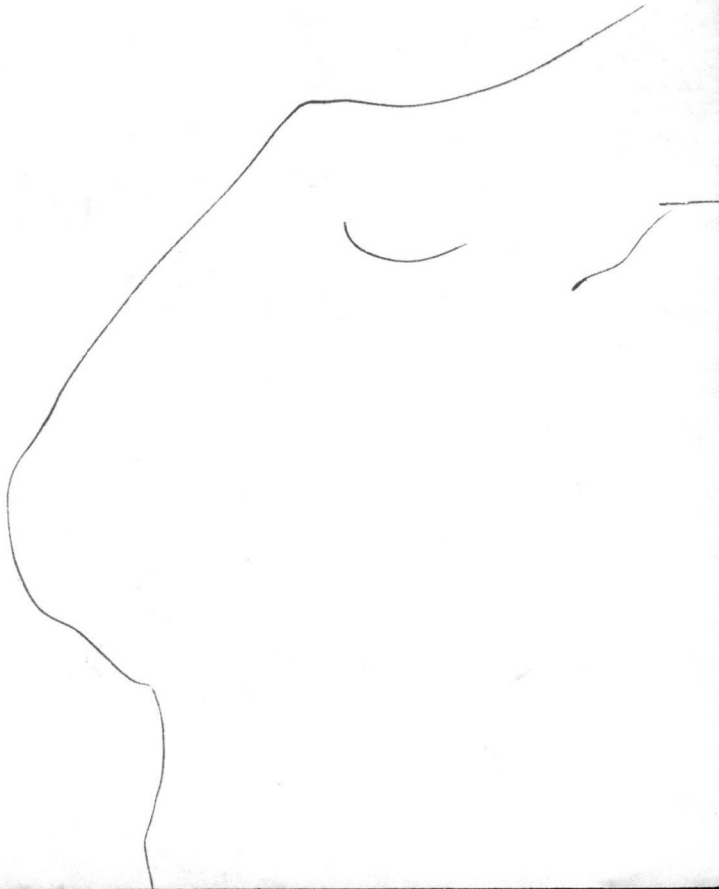
U.W. TRNG...