

Appendix I

Operational Checklists

MODIFIED EYE WALL EXP

FORM I-1

On-board Lead Project Scientist Checklist

DATE 8 AUG 1980

AIRCRAFT 432F

FLT 800808I

A. Participants

<u>Function</u>	<u>Participant</u>	<u>Function</u>	<u>Participant</u>
Lead Proj. Sci.	<u>WILLOUGHBY</u>	Gust Probe	_____
Cloud Physics	<u>ZIPER</u>	Omega Sonde	_____
AXBT	<u>J. HAWKINS</u>	Sys Eng	<u>GOLDSTEIN</u>
Hot Film	_____	Data Tech	<u>BROWNSON</u>
Radar	<u>MARKS</u>	El Tech	_____
Flt DIR/MET	<u>DAVIS</u>	Other	_____

Time Off 081622 Location MIA

Time On 090033 Location NEW ORLEANS

B. Past and Forecast Storm Position - Observed Positions

<u>Date</u>	<u>Time</u>	<u>Lat</u>	<u>Lon</u>	<u>SEE ITEM F</u>				
<u>Date</u>	<u>Time</u>	<u>Lat</u>	<u>Lon</u>	<u>MSLP</u>				
<u>080510</u>	_____	<u>22°31'</u>	<u>88°55'</u>	_____	_____	_____	_____	_____
<u>080909</u>	_____	<u>23°06'</u>	<u>89°50'</u>	_____	_____	_____	_____	_____
<u>081144</u>	_____	<u>23°20'</u>	<u>90°24'</u>	_____	_____	_____	_____	_____

C. Mission Briefing

FLY MODIFIED EYEWALL EXPERIMENT GET

082100Z AND 090000Z FIXES

D. Equipment Status

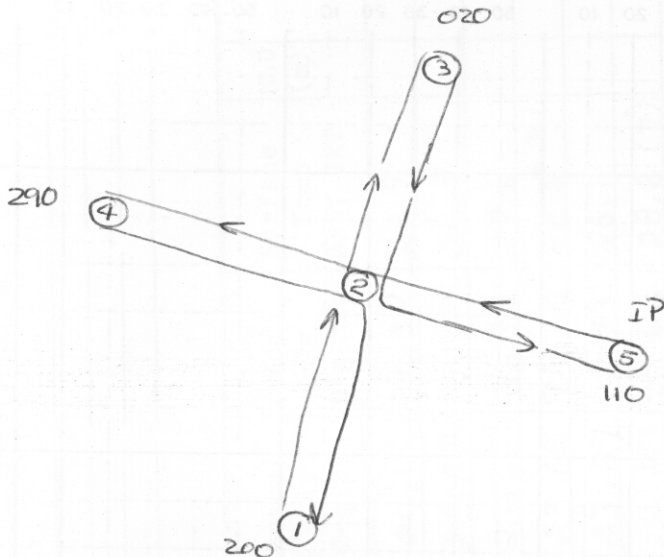
<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	↑	↑		
Radar ¹	↑	↑		
Cloud Physics ²	↑	↑		
Data Sys	↑	↑		
Omega Sondes	NOB			
AXBT	↑	↑		
Gust Probe	NOB			
Hot Film	NOB			
Photography	↑	↑		

REMARKS

¹ ANTENNA HAS FOCUS AND ALIGNMENT PROBLEMS ON LIF RADAR
PRESENTATION POOR

² HAVE ONLY 5 CLOUD PHYSICS TAPES

E. Proposed Flight Patterns



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

41C AT 12000 FT
 4212F AT 18000 FT
4312F AT 5000 FT

F. Actual Flight Patterns

TIMES AT TURN POINTS & LAT LON OF ②

5	1837				
2	1859	24.04°	92.12°	940 mb	
4	1915				
2	1928	24.14°	92.17°	937	
1	1943				
2	2000Z	24.17°	92.28°	934	
3	2017				
2	2033	24.26°	92.38°	929	
5	2055				
2	2118	24.23°	92.60°	924	
4	~2150				
2	2202	24.32°	92.74°	921	
1	2220				
2	2233	24° 31'	92.76	917	
3	2256				
2	2318	24° 36'	92.84	916	DROP FROM 42 913
5	2340				
	RTB				

Flight No 80808I Julian Day _____ AXBT Contract No. _____
 Takeoff time _____ Landing time _____
 On station time _____ Depart station time _____
 Operator _____
 Time _____
 Rm SE _____
 Vm 100KTS _____
 Pm 940 _____

AXBT CHECK SHEET

AXBT	Chan- nel#	Lot# yr	Predicted Drop Time (HHMMSS)	Actual Drop Time (HHMMSS)	Predicted Lat Deg Min	Predicted Long Deg Min	Actual Lat Deg Min	Actual Long Deg Min	Surface Temp AXBT IRT	MLD (m)	Comments
1	12	G4		181445	—	—	24.19	89.34	23.9		✓
2	14	B4		182700			23.82	90.09	24.9		✓
3	16	A3		184100			23.60	90.92	27.6		✓
4	12	A4	184450	184450			23.68	91.18	28.5 ^{26.1}		✓
5	14	F3	184830	184830			23.77	91.43	28.1		✓
6	16	F1	185220	185215			23.87	91.68	28.6 (7)		✓
7	12	B3	1855	185520			23.97	91.87	28.6		✓
8	14	C3		190000			24.13	92.15			Eye ✓
9	16	E1		190400			24.22	92.41	28.4		✓
10	14	E3		190800			24.32	92.70			Carrier
11	12	F2		191225			24.43	93.03	28.9		✓
12	12	E2		192040			24.32	92.66	28.8		✓

24.04
92.12

Calibration at beginning + just before last 2 drops
 Last 2 drops are on last fast tape

D3 Bad

Flight No 800808T Julian Day _____ AXBT Contract No. _____
 Takeoff time _____ Landing time _____
 On station time _____ Depart station time _____
 Operator _____

Time _____
 Run _____
 Vm _____
 Pm _____

203408
 NE SE NW NE NE
 120kt 120kt 120 150kt 140kt 140kt
 937 934 928 923 920 917 916
 ② ③ ④ ⑤ ⑥ ⑦ ⑧

AXBT CHECK SHEET

AXBT	Chan- nel#	Lot# yr	Predicted Drop Time (HHMMSS)	Actual Drop Time (HHMMSS)	Predicted Lat Deg Min	Predicted Long Deg Min	Actual Lat Deg Min	Actual Long Deg Min	Surface Temp AXBT IRT	MLD (m)	Comments
13	12	D2		194425	-	-	23.21	92.46	-		Carrier
14	12	C2	194930	194940	-	-	23.51	92.43	29.0		✓
15	16	B2	-	195710	-	-	23.99	92.25	28.8		✓
16	16	D1	200450	200435	-	-	24.45	92.17			Dud
17	14	B1	200850	200735	-	-	24.62	92.08	28.7		✓
18	12	A1		201137			24.88	91.96	28.4		✓
19	14	A2		201700			25.21	91.91	27.9		✓
20	16	C1		234505	-	-	24.48	91.12	28.0		SST off after
21	14	D3		234920			24.54	90.88			Carrier

24.36 }
 92.38 } 203408

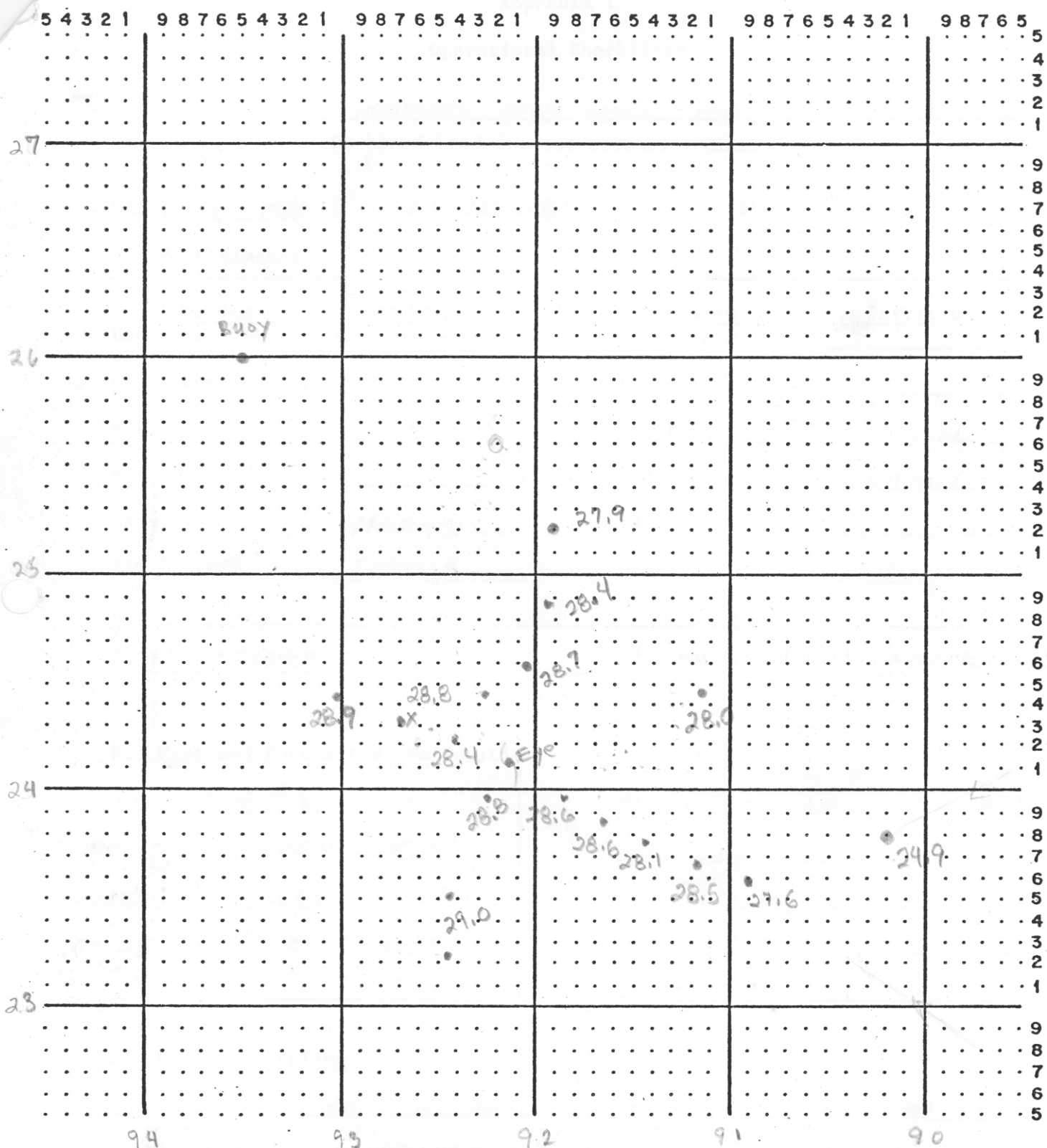
06

HURRICANE RECCO PLOTTING CHART

True at 25° latitude, in degrees and tenths of ϕ and λ

FLIGHT 800808 I LEVEL _____

LATITUDE (ϕ)



DATE 8-8-80
 OBSERVER Hawkins

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA.

FLIGHT DATA LOG

FLIGHT: 800808TI STORM: ALLEN

TIME: Z TO: Z

ON-BOARD LEAD PROJECT SCIENTIST: WILLOUGHBY

Flight summary (include status of instrumentation and recording equipment, as well as any problems, malfunctions or outages with approximate times):

TAIL RADAR NOB

DATA VOLUME

STANDARD METEOROLOGICAL TAPES: _____

FAST TAPES: 0

RADAR TAPES: DIGITAL 9 VIDEO 2 LF TA NO
CASSETTS

CLOUD PHYSICS/KNOLLENBERG TAPES: 5

FORMVAR? FOIL?

AXBT's? NO. of DROPS: 9 PRINTOUT?

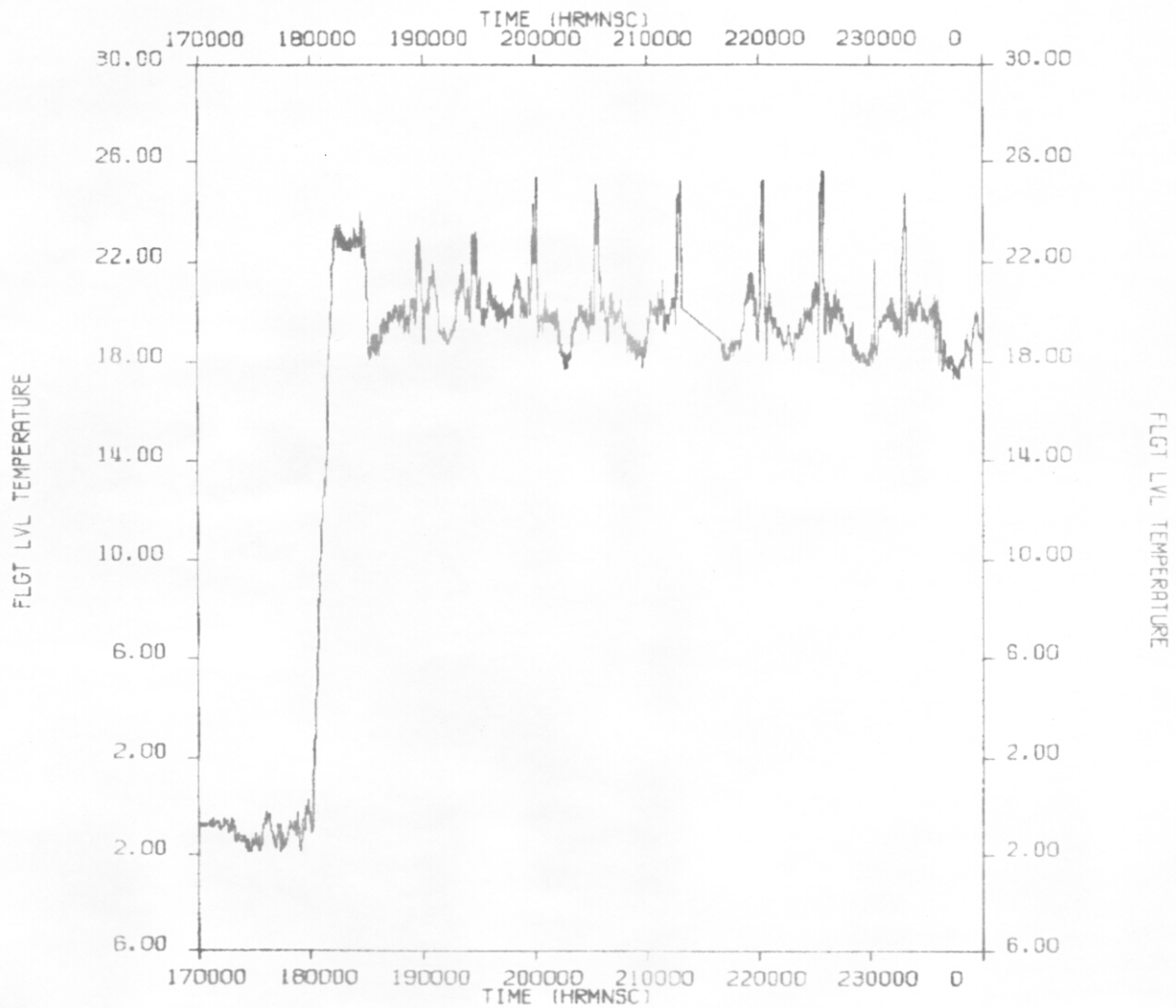
OMEGA DROPWINDSONDES? NO. of DROPS: 0

NO. of CASSETTES _____ PRINTOUT? STRIP CHARTS?

PHOTOGRAPHY: VERTICAL? SIDE? NOSE?

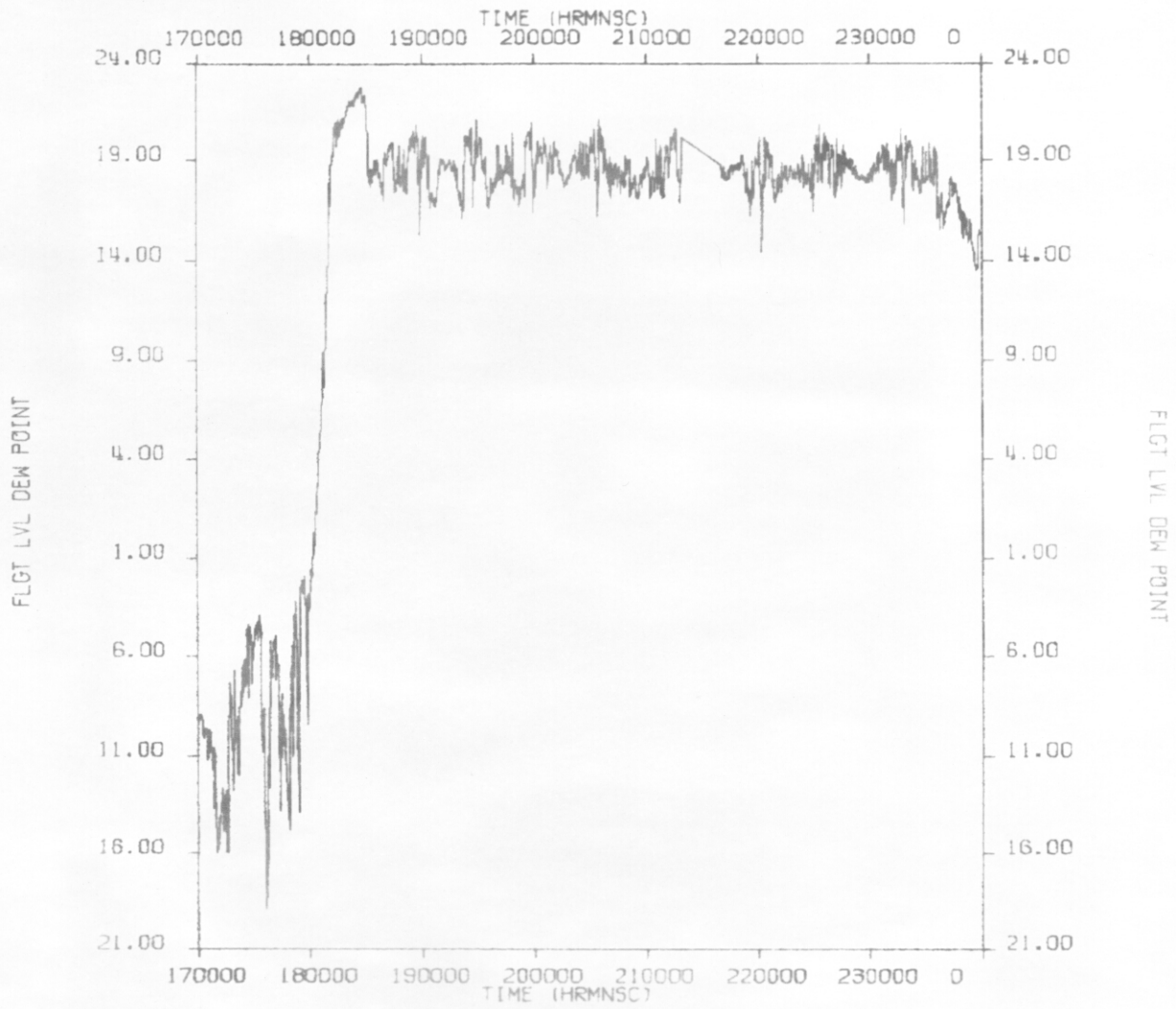
(IF KNOWN) RATE: 1/1 RATE: _____ RATE: _____

SEEDING MISSION? FROM THIS A/C? NO. of FLARES: _____



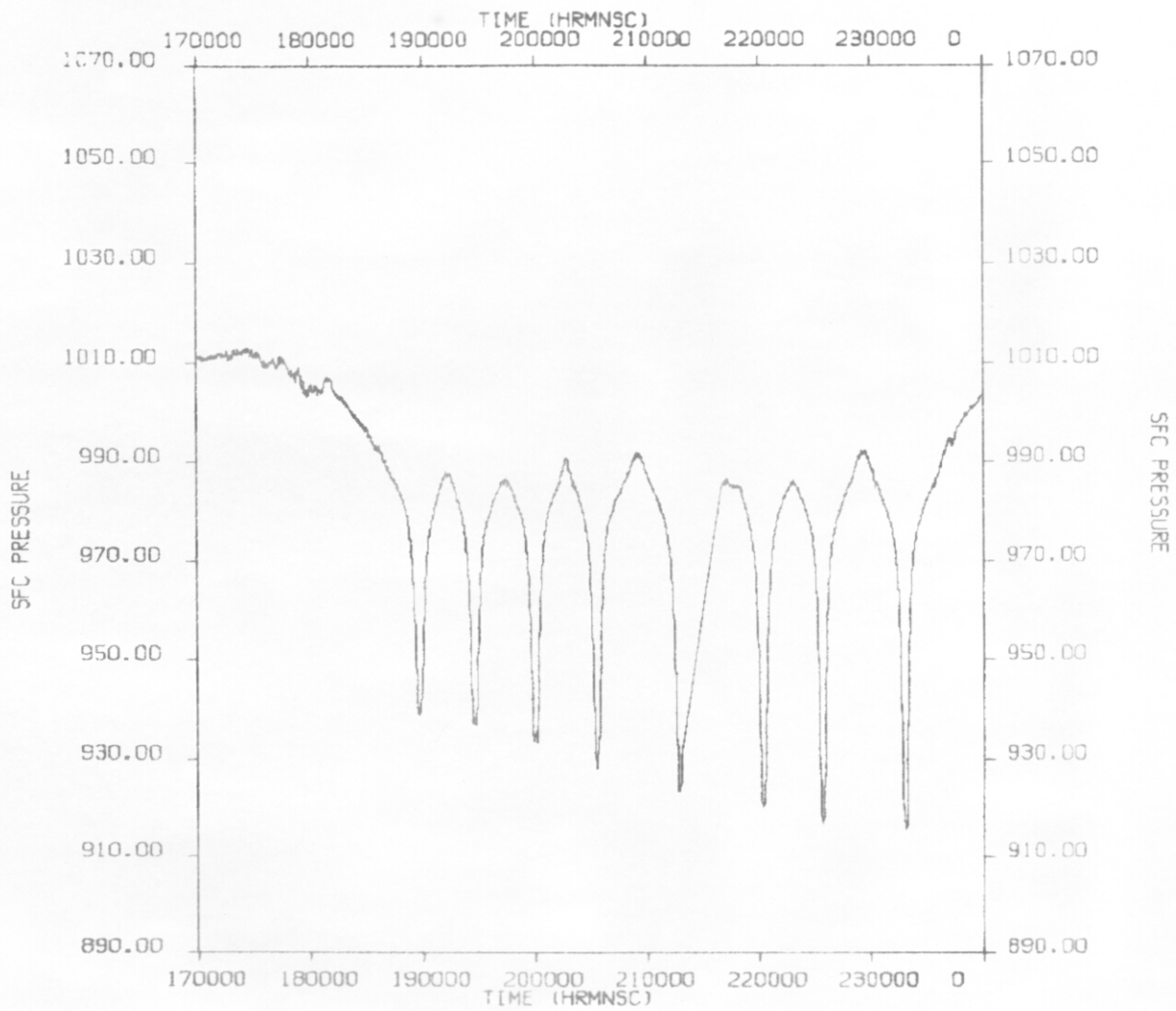
FLIGHT 10=8008081

DATE RUN= 810313



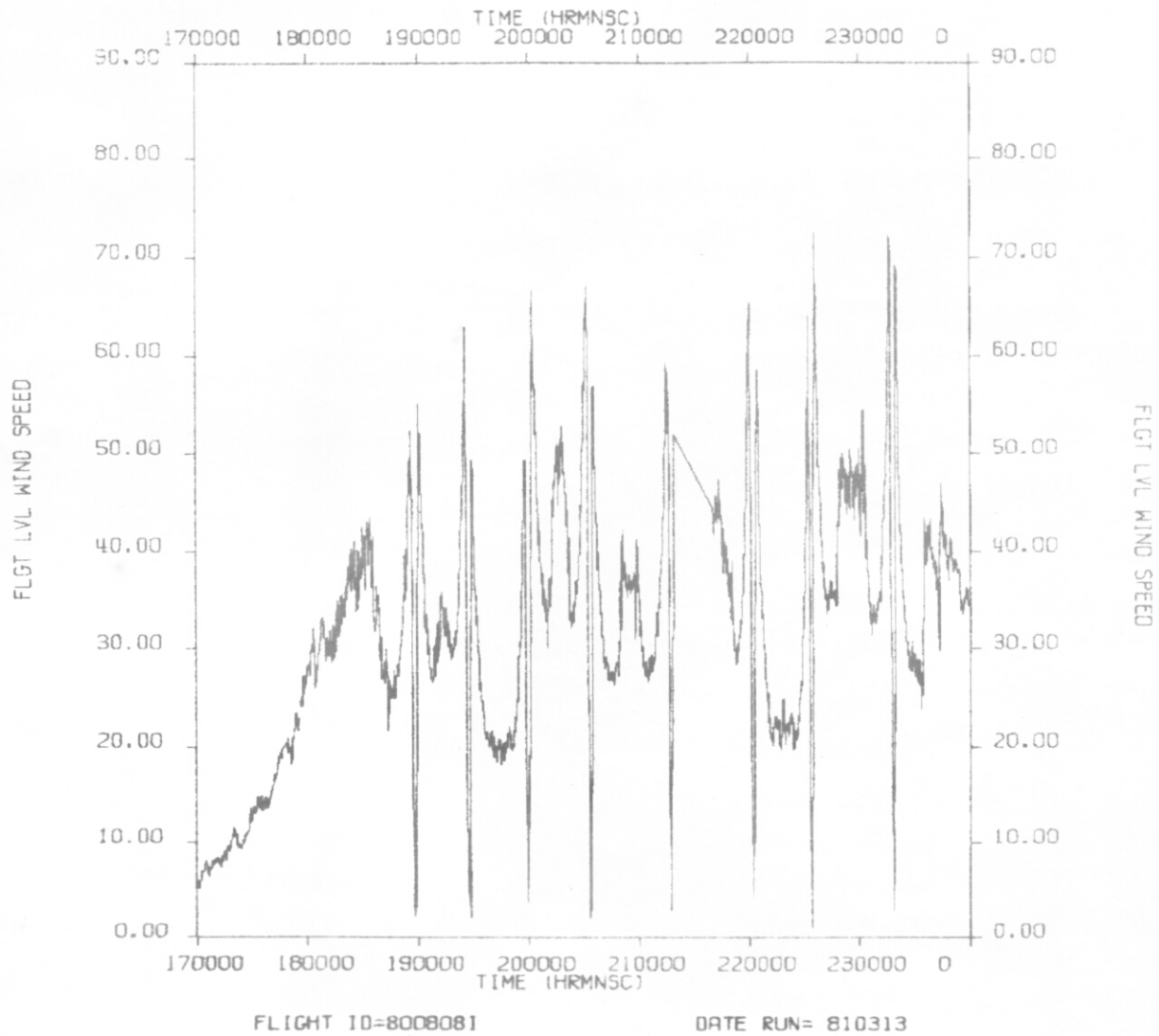
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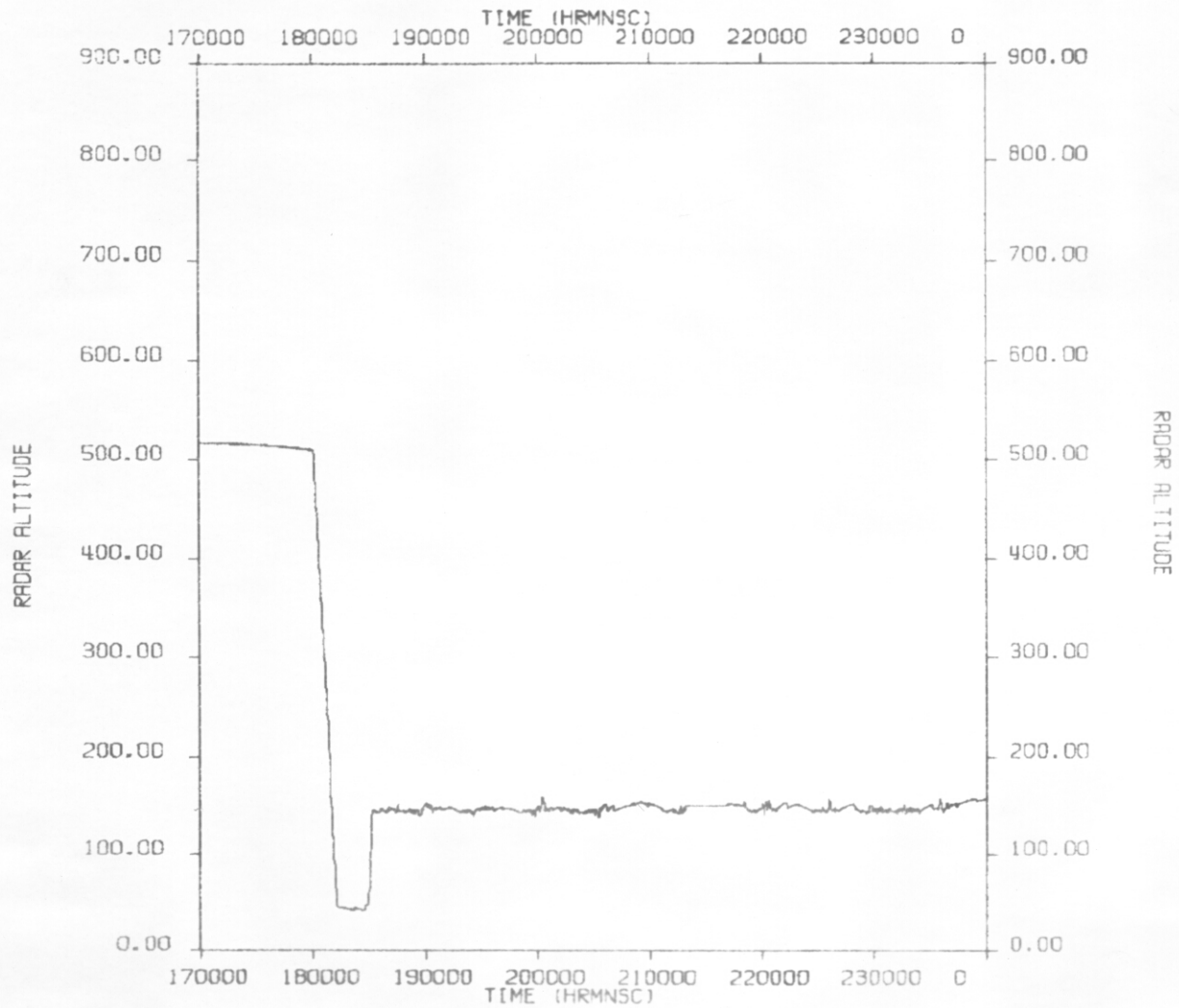
DATE RUN= 810313



FLIGHT 10-8008081

DATE RUN= 810313





FLIGHT ID=8008081

DATE RUN= 810313

