RFC-1 WORK FORM
(7-76)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
RESEARCH FACILITIES CENTER
MIAMI, FLORIDA

FLIGHT LOG

AIRCRAFT	N43RF
FLIGHT NO.	43-83
FLIGHT ID	830823I
DATE	AUG. 23, 83

TAKE OFF (City or airport)	LAND (City or airport)	ALTITUDE
MIA	MIA	5K

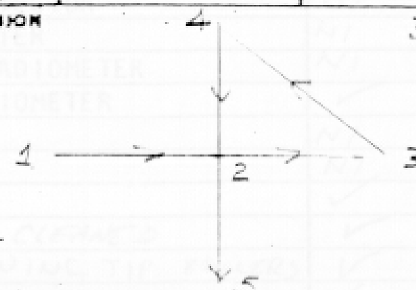
PURPOSE: HRD RESEARCH - PRE-TS BARRY

PROPOSED TAKEOFF TIME:	1100Z	PROPOSED FLIGHT DURATION:	9HRS
TIME IN:	2105Z	TIME ON:	2059Z
TIME OUT:	1100Z	TIME OFF:	1113Z
BLK. TIME:	10:05HRS	FLIGHT TIME:	9:46HRS

FLIGHT PERSONNEL

OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
TURNER	NUNN	DAVIS		JORGENSEN	FEINBERG
NOBLE		GOLDSTEIN		FRANKLIN	WILLIS
NELSON		[illegible]		CHENG	
FLEURY				LORD	

PROPOSED MISSION



3 PATTERNS - ROTATED 20° AFTER
EACH EXECUTION. LEGS 80NM
AT POINT 5, PT EXTENDED
[illegible]
NO FIXED ORIGIN [illegible]

ACTUAL MISSION AND REMARKS

MIA ALT. SP 1016.0 A/C 1017.5
MIA ALT SP 1019.3 A/C 1019.1
AS PLANNED
[illegible]
[illegible] CENTER [illegible]
[illegible] 215°/45KTS

DATA COLLECTED AND REMARKS

1 STD FLT LVL TAPE; 8 RADAR TAPES; 3 DOPPLER TAPES;
2 CLD PHY TAPES; 3 [illegible] FILM
RADAR, DOPPLER, PMS TAPES TO HRD

RFC/SIG FLIGHT PERFORMANCE LOG

T TECH: ASG/DHS FLIGHT I.D.: 830823I

CRAFT: N43RF MISSION: RECCO / RESEARCH

IME: (Pre-Flt) 0920Z (Take-Off) 1112Z (Land) 2054Z

SYSTEM		ALIGN PI	AID	PRE-FLIGHT	INFLIGHT	POST-FLIGHT LAT	POST-FLIGHT LON	POST-FLIGHT GS
NAV	INE1	1	Y	✓		-0.8	-1.6	1
NAV	INE2	3	Y	✓		-1.4	+0.2	2
NAV	ONE			✓				
NAV	DOPLR			✓				
RADAR		INTEGRATION(PRI'S)						
RADAR	NOSE			✓				
RADAR	L/F			✓				
RADAR	TAIL			✓				
RADAR	DATA SYSTEM			✓		#TAPES:		
RAMS DATA SYSTEM				(1) ON 1056 (3)(9)(5)				
TEMP	CAL HI	CAL LO		AMBIENT		CAL HI	CAL LO	
TEMP #1	+30.5	-30.1		26.1		+30.4	-30.1	
TEMP #2	+31.0	-30.1		27.1		+30.9	-30.1	
DEW POINT (CLEANED:Y/N) N				22.0				
ATTACK ANGLE				✓				
SLIP ANGLE				✓				
ABSOLUTE PRESSURE				✓				
DIFFERENTIAL PRESSURE				✓				
RDR ALTM. S/N: SN-1				✓				
J&W				✓	(2)			
PMS	OAP 2D-C			✓				
PMS	OAP 2D-P			✓				
PMS	FSSP-100			✓				
PMS	DATA SYSTEM			✓		#TAPES:		
FOIL IMPACTOR				NI		#INCHES:		
ICE RATE DETECTOR				NI				
CO2 RADIOMETER				NI				
MICROWAVE RADIOMETER				NI				
SURFACE RADIOMETER				✓				
SEEDER				NI				
GUST PROBE				NI				
ASDL				✓		#MESSAGES: 19		
TAPE HEADS CLEANED				✓				
ROSEMT WING TIP KNOCKERS				✓				
DOPPLER				✓				
NOSE RADAR RECEIVER				INOP				
PHOTO		RATE		(COUNTS)			(COUNTS)	
PHOTO	FORWARD	1		NI				
PHOTO	VERTICAL			NI				
PHOTO	RIGHT SIDE	1/5		000 11302	6832 21002			
PHOTO	LEFT SIDE	1/5		000 11302	6839 21002			
AXBT SYSTEM				NU				
ODW SYSTEM								

AXBT EXPENDABLES: #ON BOARD: 0 #DROPPED: #GOOD:

DROPSONDES: #ON BOARD: 4 #DROPPED: 0 #GOOD: —

CUMMULATIVE ACCEL. (MELC) (LOG AT END OF FLIGHT)	#1 (2G)	#2 (2.5G)	#3 (3G)	#4 (3.5G)
	8062	6679	5966	2892

CODE: ✓ - OPERATIONAL; X(#) (TIME) - FAILURE (NOTE); See over
NI - NOT INSTALLED; NU - NOT USED

USE REVERSE SIDE FOR NOTES.

REPORT COMPLETION OF PRE-FLIGHT AND INSTRUMENT STATUS TO FLIGHT DIRECTOR

① ADC #1 SOMETIMES MALF

② CLOUD PROBE, CLEAR AIR UPDATING. 1140Z

③ PAR ERROR @ ≈ 1220Z

④ HLT 76 @ 1718 ; Reload-Restart OK

⑤ HALT @ 1956 , Reload - Restart OK

A/C MMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
Turner	Nels	NOAA 43	83080303	1112.	N25 48.2 W080 17.6	03 Aug 83	Storm (H Pursuan

TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
1102	N25 48.2 W080 17.6	4	N 48.1 W Same		N W Same.		B/K.
1112	N25 48.0 W080 18.0	4	N 47.8 W 18.7		N 47.9 W 18.3		T/O 9t. 12.
112709	N25 42.3 W079 17.7	2/9	N25 42.0 W079 17.6		N25 41.5 W079 17.7	Good 1nm.	EBV OVER. Early
120706	N24 02.0 W077 10.0	4/10	N24 03.0 W077 10.6		N 24 03.1 W077 10.7	Good Fix Within 1nm.	Isle OVER
124003		2/10	N25 41.8 W076 37.2		N25 42.2 W076 36.0	FAIR	NASSAU 038/60 ISL ON QF UNK
134900		10	N27 25.8 W075 40.8		N27 26.9 W075 40.0		ISL ON QF 02E
1434	N24 37.7 W075 39.4	4/10	N24 38.2 W075 40.4		N24 37.1 W075 41.0	Excellent FIX 0nm	ALTHURS TWN A/P & OVER. ISL ON QF 026 Bat
150316		10	N24 30.7 W074 41.9		N24 31.2 W074 40.3		ISL QF 026
160658	N27 25.2 W076 56.9	2/10	N27 24.4 W076 54.4		N27 23.5 W076 54.5	FAIR FIX Within 5nm	TREASURE CAY 030/4. ISL ON 026 Bat
161943	N 26 30.7 W077 04.5	4/10	N 26 31.0 W077 04.5		N26 30.3 W077 04.3	EXCellent	MARSH HARBOR A/P & OVER. Treasure Cay ISL ON QF 026 Bat
1708		10	N 26 41.4 W075 04.3		N 26 41.6 W075 02.1		ISL ON QF 026 B
182320	26 33.0 N W076 44.0	4/10	N25 33.8 W076 44.1		N 25 33.8 W076 43.2	Good	ISL ON QF 026

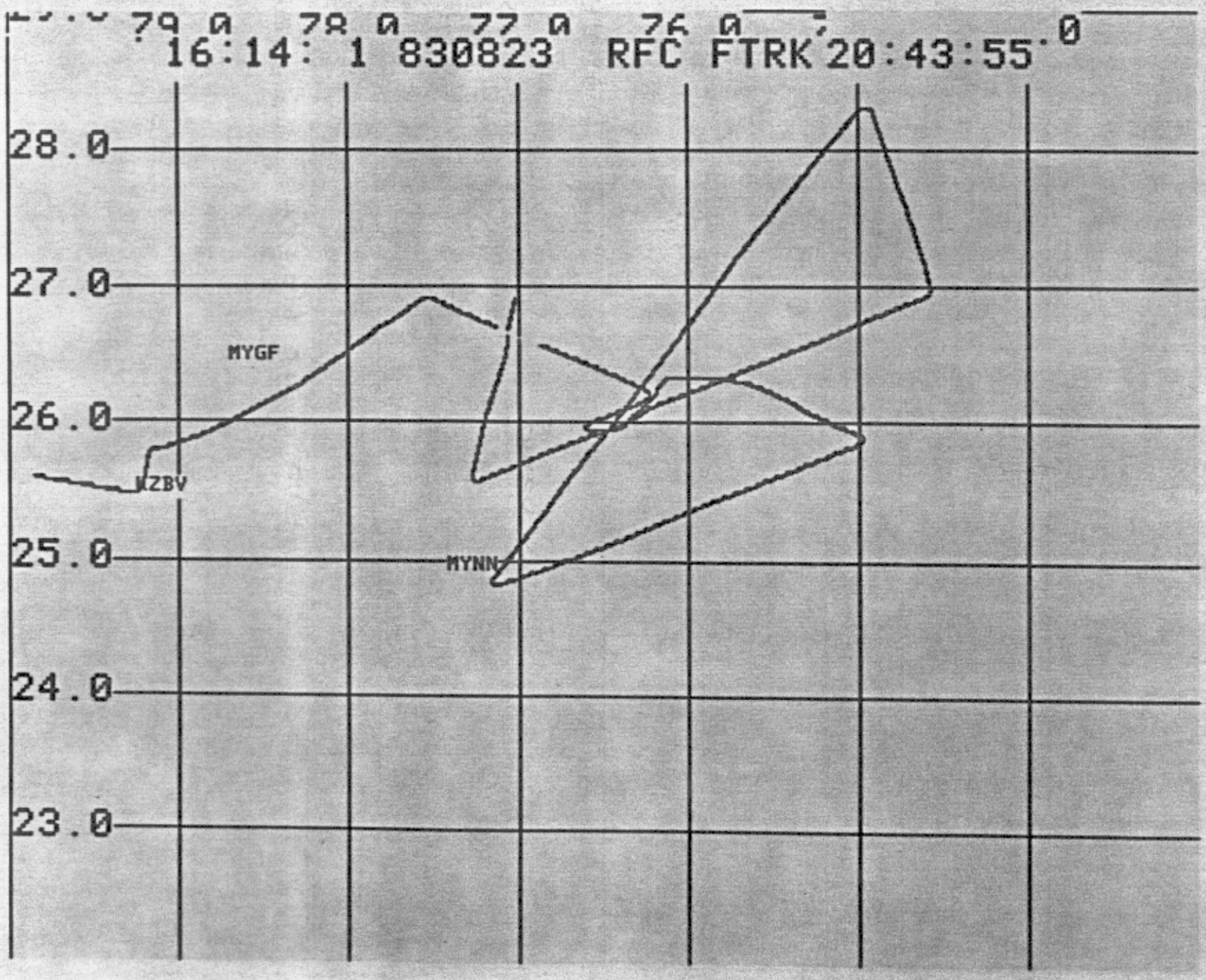
SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE / ELAPSE ALIGN POST TIME	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	ΔT (2)(1)	TERMINAL ERRO LAT	LONG	G
INS 1	1000	Y	Y 050		1	1035.	2104	10.7	-0.8	-1.6	
INS 2 or IMU	1000	Y	Y 050		3	1035	2104	10.7	-1.4	+0.2	

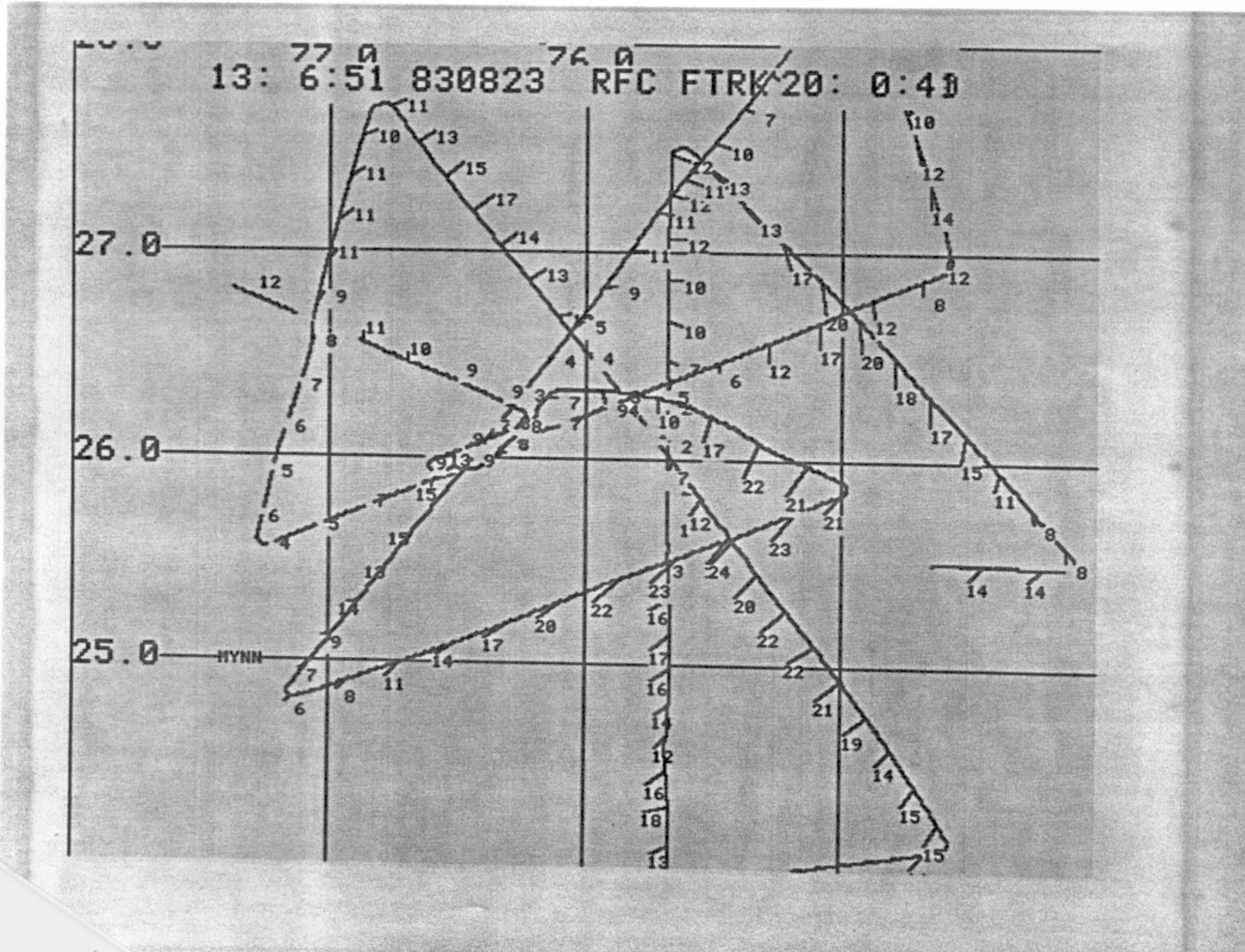
ALIGN REMARKS:

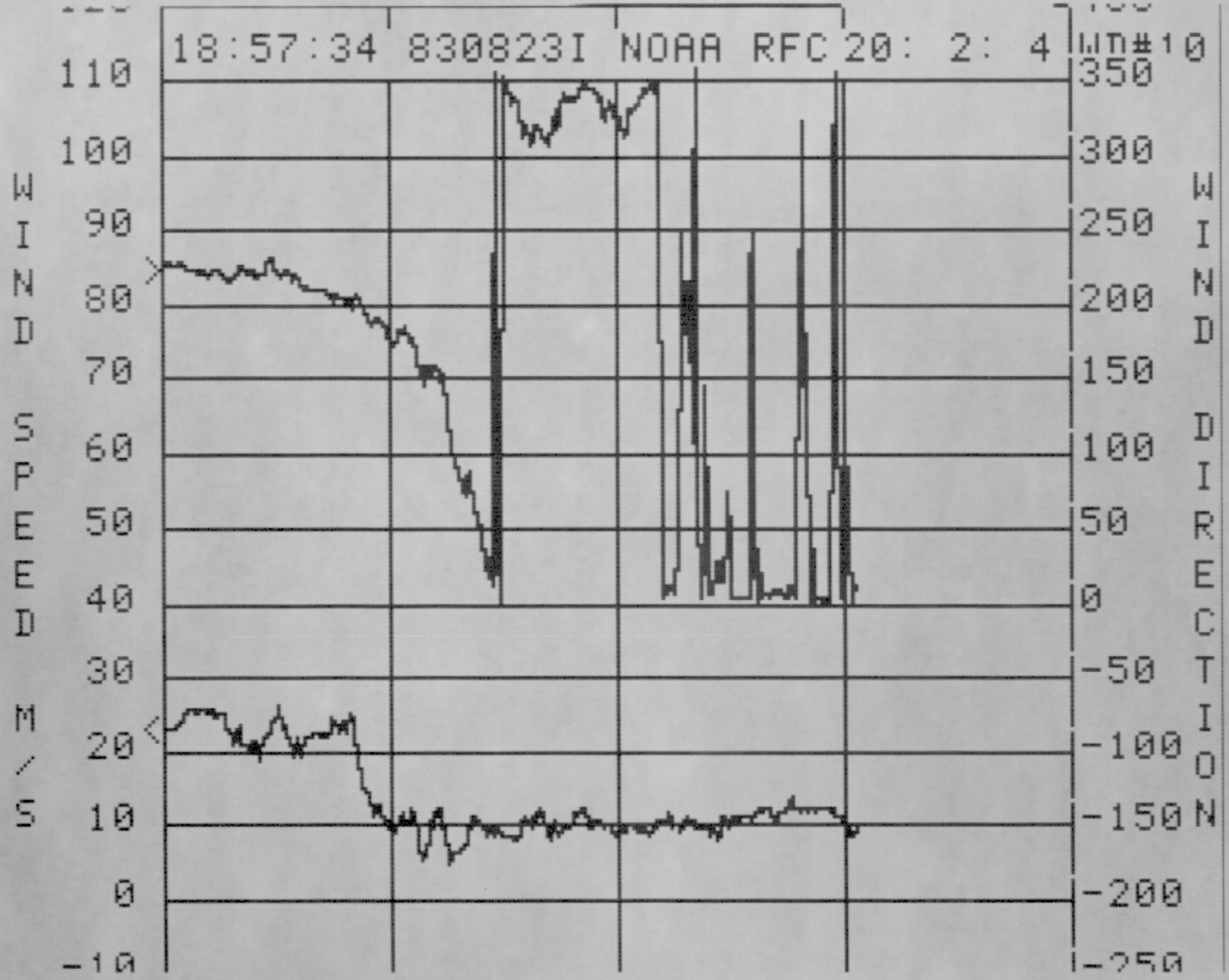
OTHER REMARKS: Mission Flown @ 5K ft RA

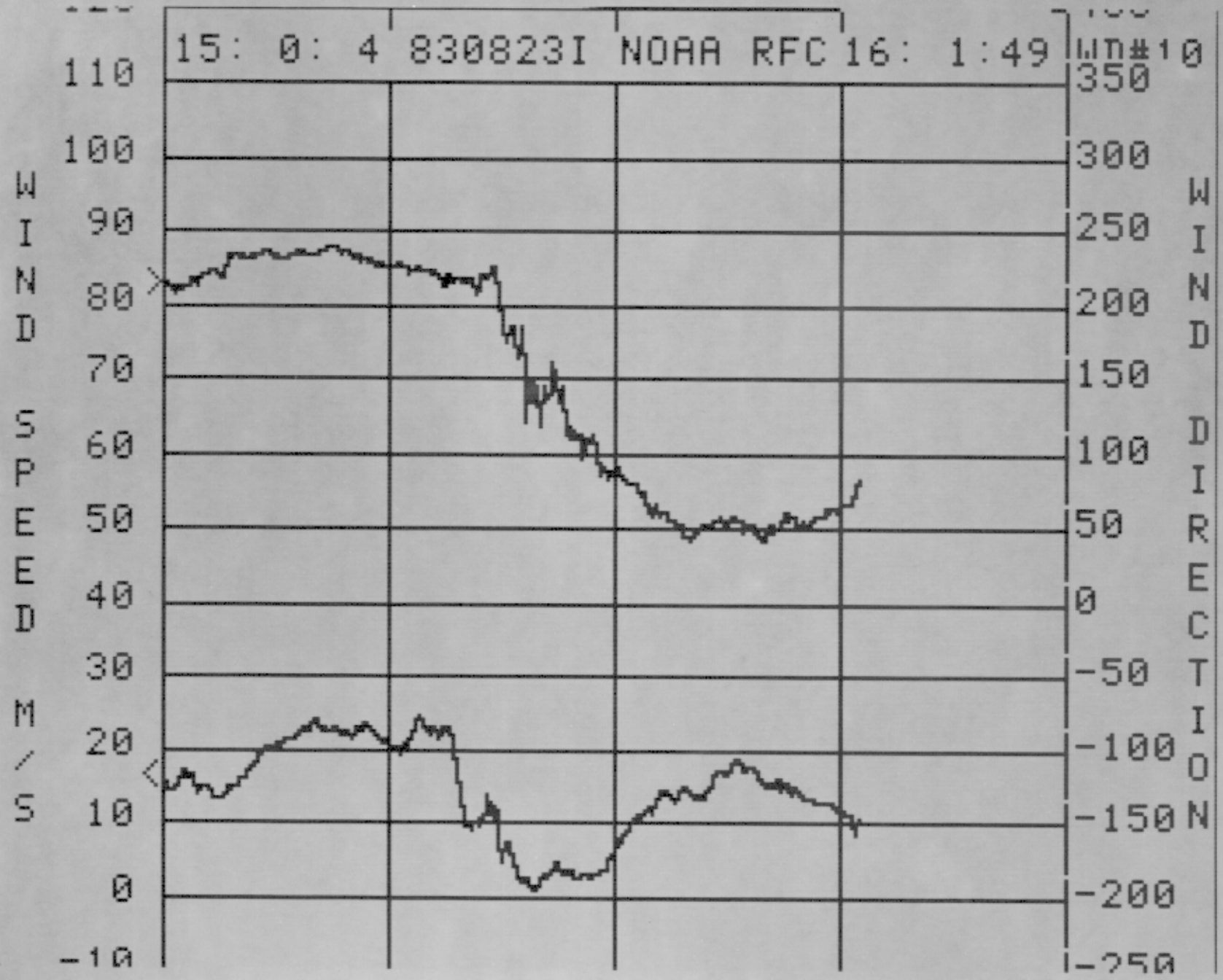
TYPE OF FIX: (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR (7) DOPPLER (8) OMEGA (9) INERTIAL (10) OMEGA - INERTIAL

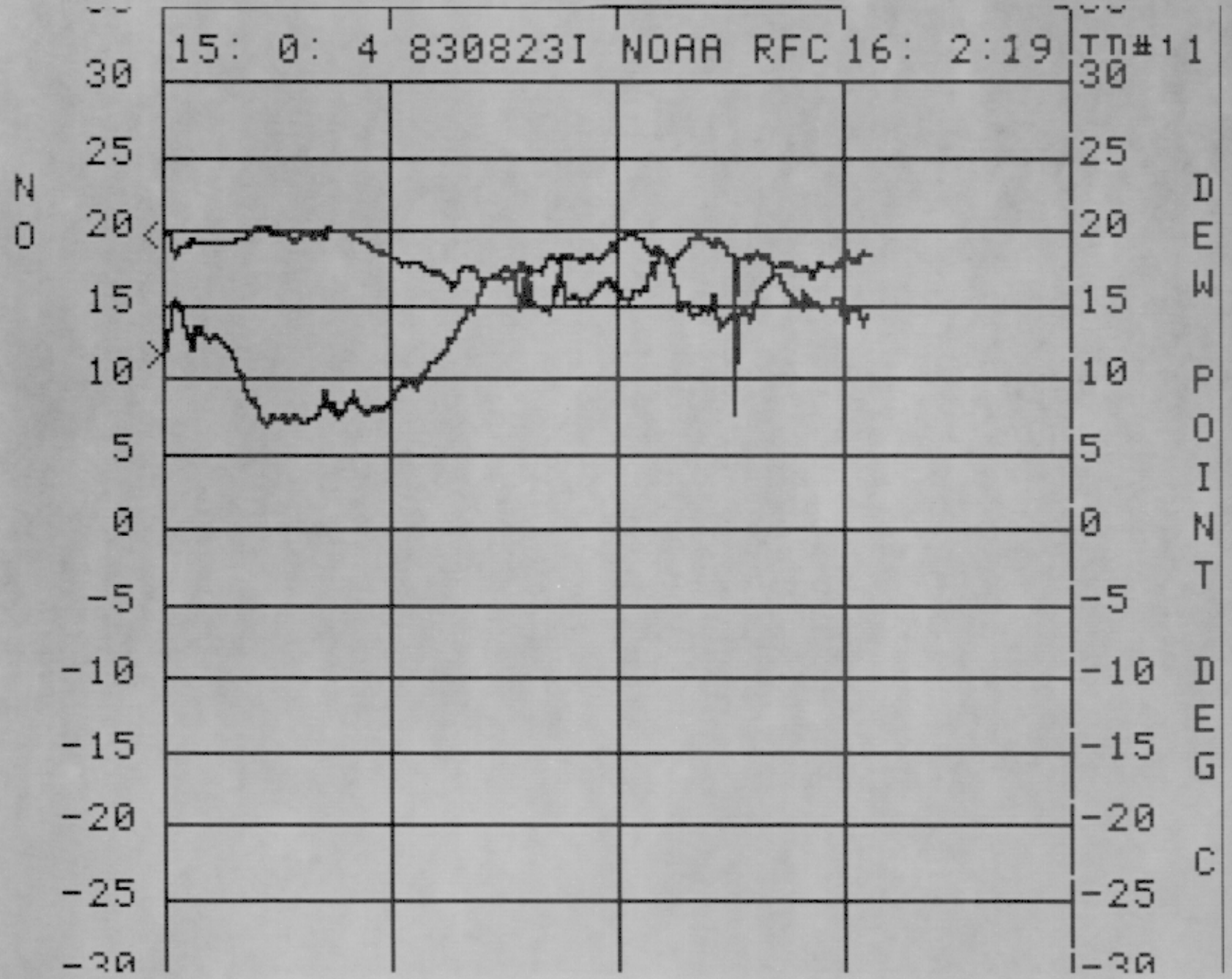
TRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS
185015	N 25 13.4 W 076 15.0	9/10	N 25 14.4 W 076 16.5		N 25 14.1 W 076 14.1	Good TO FAIR 2nm	E/O Thra. Isle. Hwy 9 1mile North TW Isl ON QF unk.
195216		10	N 26 32.9 W 076 53.4		N 26 33.3 W 076 52.2		Isl ON QF 026 Both
3000	N 26 47.8 W 077 21.5	4/10	N 26 47.6 W 077 21.6		N 26 47.7 W 077 19.9	Good Fix 1nm	Island ABEAM. (½ nm) S. Shoaly Isl ON QF 026
2058	N 25 48.0 W 080 18.0	4	N 25 48.8 W 080 19.6		N 25 49.4 W 080 18.0		Ldg KMIA Rwy
3104	N 25 48.2 W 080 17.6	4	N 25 49.0 W 080 19.2	-0.8 -1.6	N 25 49.6 W 08 17.4	-1.4 +0.2	BIK. 1 2

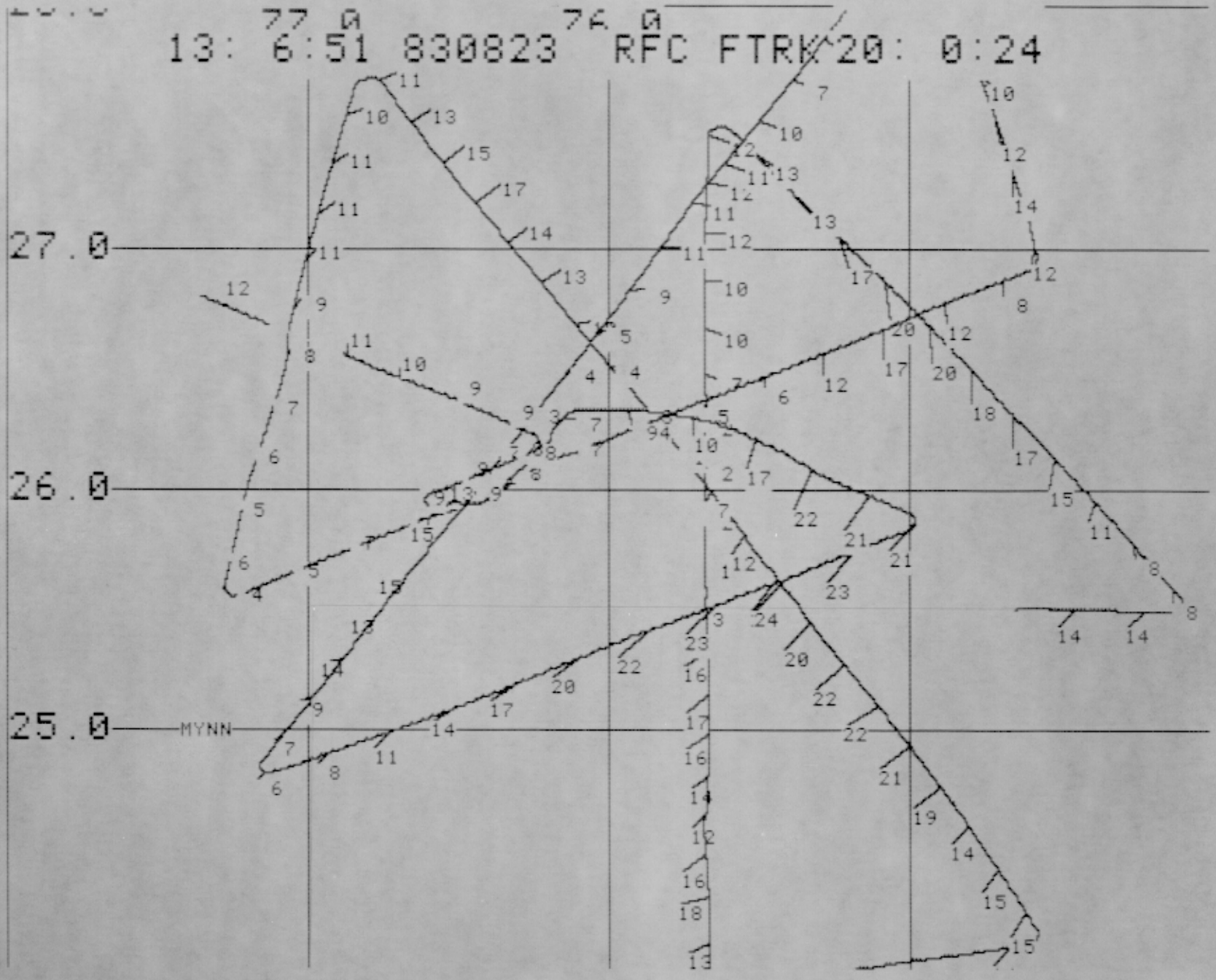

79.0 78.0 77.0 76.0 0
16:14: 1 830823 RFC FTRK 20:43:55
28.0
27.0
26.0
25.0
24.0
23.0
MYGF
KZBV
MYNN


13: 6:51 830823 RFC FTRK 20: 0:41
27.0
26.0
25.0
HYNN


18:57:34 830823I NOAA RFC 20: 2: 4
WD#10
WIND SPEED M/S
WIND DIRECTION
110
100
90
80
70
60
50
40
30
20
10
0
-10
350
300
250
200
150
100
50
0
-50
-100
-150
-200
-250


15: 0: 4 830823I NOAA RFC 16: 1:49
WIND SPEED M/S
110
100
90
80
70
60
50
40
30
20
10
0
-10
WIND DIRECTION
350
300
250
200
150
100
50
0
-50
-100
-150
-200
-250


15: 0: 4 830823I NOAA RFC 16: 2:19
TD#11
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30
N
O
DEW POINT DEG C


13: 6:51 830823 RFC FTRK 20: 0:24
27.0
26.0
25.0
MYNN