19950823H1_FDIR

950823H N42RF Tropical Storm Jerry Recco, C-Scat Test

Sensor or system	Number or Name
INE	2 (See note)
Accelerometer	2
Temperature Probe	1
Dew Point Probe	1
Altimeter	APN-159
Altitude change option (for vertical winds)	RA
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2951.CON

Notes:

INE 2 positions were corrected periodically with good GPS positions. No corrections were made to groundspeeds.

Dewpoint #1 failed during ferry return to MacDill after C-scat testing.

JW Liquid Water instrument inoperative during this flight.

Special note. Locations 80, 81 and 82 of the Type 5 record on the Standard Tape contain vertical groundspeed, vertical airspeed and vertical wind, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

Jack Parrish, Flight Director

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OAOWF1 FILE

FLT ID: 950823H	FM: MCF	TO: MCF
FLT NO: 95-39	BLK IN: 2024	ATA: 2017
ETD: 1345Z	BLK OUT: 1337	ATD: 1356
ETE: 7	BLK TIME: 6:47 (6.8)	FLT TIME: 6:21 (6.4)
SPONSOR ORG: NHC	PROGRAM: RECCO	PURPOSE: T.D. 11

OAO PERSONNEL

AC Tickner ✓	SYS ENG Coles ✓
CP O'Mara ✓	DATA SYS Lynch ✓
NAV Rathbun ✓	RADAR Barr ✓
FE Wade / Torres	BT/ODW McMillan ✓
RADIO Sans Souci ✓	CLD PHYS Heglund ✓
FD Parrish ✓	~~DOPPLER~~ ~~Cassidy~~ ?

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Black, M. ✓	Radar	HRD
Popstefania, I. ✓	C-Scat	Quadrant Elec
Goodberlet, M. ✓	"	"

1755
0
29.84
81/79
010/2
1010.2
81/2027
27.5
25.5
1009.9
40/4

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #) 81 79

0311A CYCLONE Low-level → 26.0N, 79.5W.
- My printer screwed - spurious d/waters.
14 21 ↓ to 1K.

From John P. (8/24/95) 5.3 for RECCO.

1850Z
88/81
310/9
29.76
1007.5

1 1504Z 26°47'N, 79°48'W 1008 mb

1 1634Z 26°57'N, 79°50'W 1007 mb

1816ZEP 27°05'N, 80°10'W 1006 mb

FLEW C-SCAT circles (10, 20, 30, 40 3K), then across rainband at 6K
TW1 went cold at end.
SP 1006 Fm-5K DS 1007?

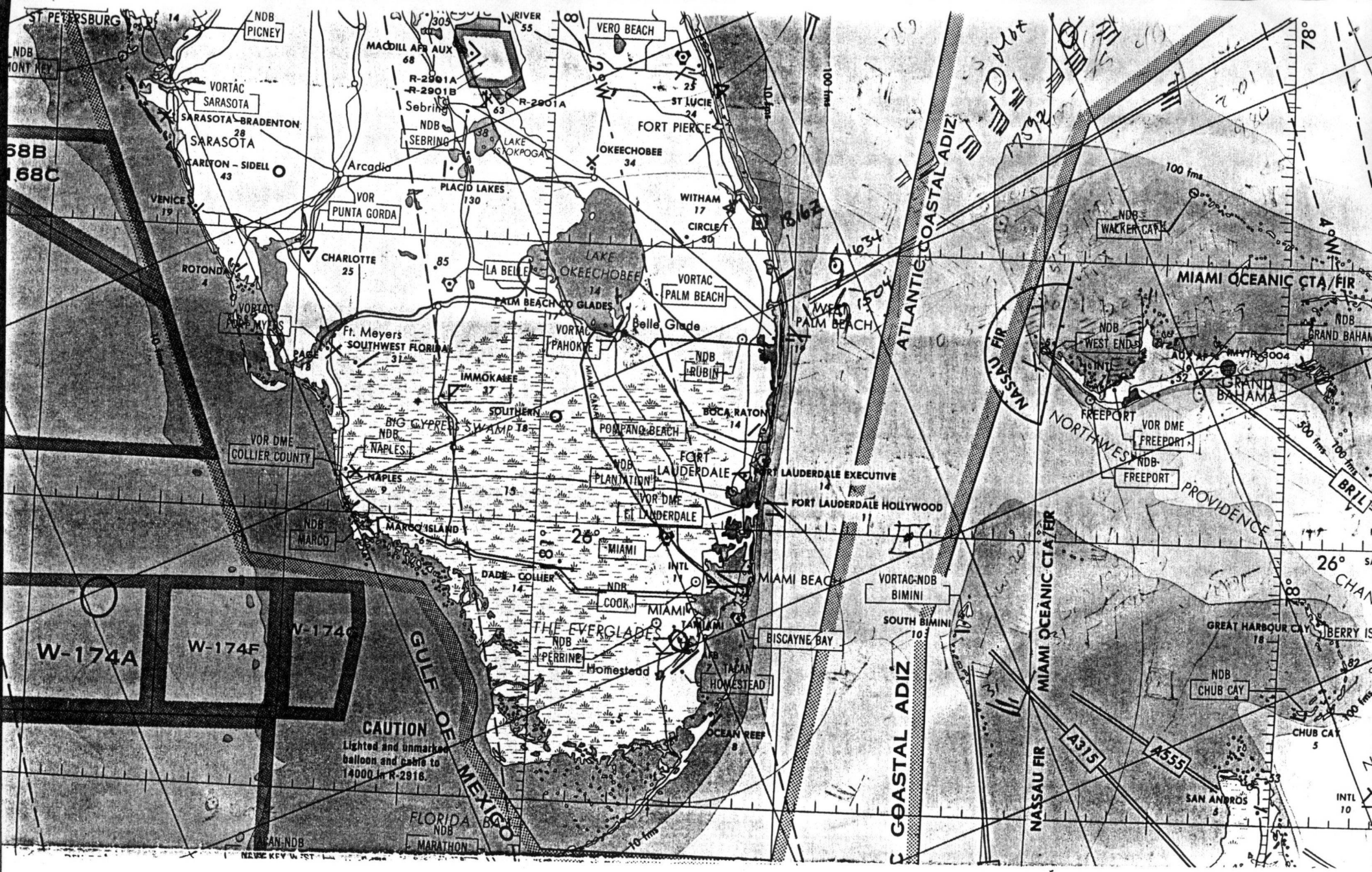
WB Form 419-50
2 - 63
25 35
79 38

25 35
79 38
204/23

950823H T.D. 11 RECO

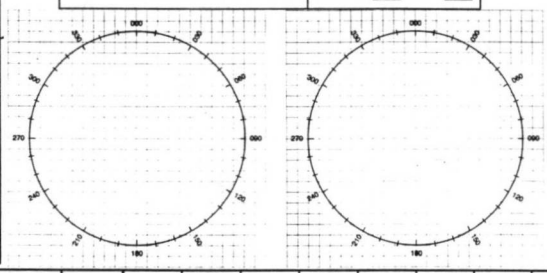
83/76

Time	LAT	LON	TK	WD	WS	PA	GA	TA	TD	SP	PS				
1337	2751	8225				29		34.8	27.7		1006.8				
1358	2752	8224	82	16	9.3	811	830	22.7	19.8	1010.5	852	↑			
140015	2755	8216	68	27	9.4	1742	1785	16.2	15.2	1008.5	814	↑			
1408	28 015	8439	80	44	10.4	3155	3264	9.4	8.8	1004.3					
1418	28 07	8055	90	111	15.5	2780	2901	12.4	7.1	1007.8	721.0	-			
1433	2748	7957	127	128	26	496	494	23.8	23.0	1009.9	955.1				
1437	2740	7945	176	121	28	496	492	23.9	23.4	1009.6	955.3	IP			
1448	2703	7943	177	122	24	496	480	23.9	22.4	1007.7	955.1				
1504	2647	7953					27	23.1	22.5	1007.7		G			
155515	2608	7838	41	190	35	499	503	23.0	23.0	1010.8	954.7				
1604	2635	7811	40	176	34	502	512	24.0	—	1011.3	9548				
1607	2647	7801													
1620	2653	7853	275	178	43	499	487	23.0	21.8	1008.9	954.4				
163400	2653	7950.1								1007		G			
1700	2538	7943	15.0	204	26	494	505	23.1	—	1011.0	954.8				
1710	2554	7849	10	190	33	496	500	22.0	—	1011.1	954.5				
1720	2626	7841	8	175	33	501	501	23.7	22.1	1010.0	954.7				
1733	2731	7821	10	170	35.5	497	500	23.7	21.1	1010.9	954.4				
1741	2803	7824	11	149	31	497	510	23.4	23.5	1011.6	954.8				
174230	2808	7827	NE	PT	- TURN	220	TO	COAST							
1752	2751	7853	232	154	38	[illegible]	217	494	496	1008.7	954.4				
1840	2802	7845	STARTED	C-SCAT		10°	R -	TURN							
185730	2806	7902	STARTED	L	200°	CIRCLE	W	CLEAR							
190714	2811	7905	Started	30 DEG	L-CIRCLE										
191310	2813	7908	Started	40 DEG	L-CIRCLE										
191730	↑ to	6K	RR	For	rainbow	crossing									
1920		Crossing	rainbow	for	Begin	C-scat	work								
193215	2818	7926	263	136	40.5	1741	1804	17.5	13.8	1008.9	820.6	FINISHED C-SCAT WORK			
1951	2805	8056	263	102	12	4536	5168	-0.3	-1.7	1000.5	544.8				
2006	2755	8216	201	37	16	1822	1862	17.3	-0.9	1006.6	873.7	↓ to	land		
2024	2751	8229.6				60		29.8	Out		1006.1	BLK			


ST PETERSBURG
NDB PICNEY
VORTAC SARASOTA
SARASOTA-BRADENTON
SARASOTA
CARLTON - SIDELL
VENICE
VOR PUNTA GORDA
CHARLOTTE
ROTONDA
VORTAC FORT MYERS
Ft. Meyers
SOUTHWEST FLORIDA
IMMOKALEE
BIG CYPRESS SWAMP
NDB NAPLES
NAPLES
VOR DME COLLIER COUNTY
NDB MARCO
MARCO ISLAND
DADE-COLLIER
MACDILL AFB AUX
R-2901A
R-2901B
Sebring
NDB SEBRING
LAKE KISSIMMEE
PLACID LAKES
Arcadia
LA BELLE
PALM BEACH-GLADES
VORTAC PAHOKEE
VERO BEACH
ST LUCIE
FORT PIERCE
OKEECHOBEE
WITHAM
CIRCLE T
LAKE OKEECHOBEE
VORTAC PALM BEACH
Belle Glade
NDB RUBIN
POMPANO BEACH
BOCA RATON
FORT LAUDERDALE
NDB PLANTATION
VOR DME FT LAUDERDALE
FORT LAUDERDALE EXECUTIVE
FORT LAUDERDALE HOLLYWOOD
MIAMI
INTL
MIAMI BEACH
NDB COOK
THE EVERGLADES
NDB PERRINE
Homestead
TACAN HOMESTEAD
BISCAYNE BAY
OCEAN REEF
W-174A
W-174F
W-174G
GULF OF MEXICO
CAUTION
Lighted and unmarked balloon and cable to 14000 in R-2916.
FLORIDA BAY
NDB MARATHON
TACAN-NDB
ATLANTIC COASTAL ADIZ
NASSAU FIR
MIAMI OCEANIC CTA/FIR
NDB WALKER CAY
NDB WEST END
GRAND BAHAMA
FREEPORT
VOR DME FREEPORT
NDB FREEPORT
NORTHWEST PROVIDENCE
VORTAC-NDB BIMINI
SOUTH BIMINI
GREAT HARBOUR CAY
NDB CHUB CAY
CHUB CAY
A315
A555
SAN ANDROS
78°
26°
100 fms
10 fms
500 fms
700 fms

CLEARANCES			
FREQ	ALT	HDG	OTHER
			1.00 N TO SOUTH 100 N [illegible]
			[illegible] STORM
			[illegible] 70 WEST
			CLEAR [illegible]
			[illegible]

MISSION LOG | **PAGE ___ OF ___**



POSITION REPORT

1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA _____, NOAA _____, NOAA _____

- POSITION _____ N / S _____ E / W AT _____Z
- HEADING _____ TRUE/MAG
- AT _____ KTS TRUE/INDICATED
- FLIGHT LEVEL OR ALTITUDE _____
- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD
- NATURE OF EMERGENCY
- ASSISTANCE DESIRED
- PILOT INTENTIONS
- WE HAVE _____ ENDURANCE REMAINING

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1221 / 1336																					ENG START TAXI
1354																					TAKEOFF
1411	GPS FM1	2804.0 / 8128.0	2804.4 / 8128.0	-.4 / 0	2804.1 / 8127.8	-.1 / +.2			081	2L	070	266	142	7	9K	270					
1432		2749.0 / 7958.0	2749.6 / 7957.9	-.6 / +.1	2749.0 / 7957.5	0 / +.3			128	0	128	200	129	22	1.5K	221					
1452		2647.6 / 7941.9	2647.5 / 7941.7	+.1 / +.2	2647.4 / 7941.4	+.2 / +.5			173	0	173	216	191	3	1.5K	214					
1503/56		2646.6 / 7953.1	2646.4 / 7953.1	+.2 / 0	2646.5 / 7952.6	+.1 / +.5			150	0	150	213	212	2	1.5K	213					CENTER
1534		2522.8 / 7937.9	2523.2 / 7938.2	-.4 / -.3	2522.6 / 7937.5	+.2 / +.4			185	2L	183	189	198	26	1.5K	217					
1600		2622.6 / 7823.7	2623.4 / 7824.2	-.8 / -.5	2622.6 / 7823.3	0 / +.4			047	6L	041	248	185	35	1.5K	222					
1624		2654.0 / 7918.3	2653.6 / 7918.1	+.3 / +.2	2653.8 / 7920.2	+.2 / +1.0			257	7R	264	225	177	20	1.5K	229					
1633		2657.2 / 7950.1	2656.8 / 7949.7	+.4 / +.4	2657.1 / 7949.0	+.1 / +1.1			154	3L	151	224	254	13	1.5K	223					CENTER
[illegible]		2533.7 / 7933.1	2533.8 / 7931.0	-1.1 / -.0	2533.0 / 7932.3	-.3 / +.8			[illegible]	1L	010	252	190	33	1.5K	210					
1735		2739.9 / 7829.0	2739.5 / 7829.5	+.4 / -.5	2739.9 / 7827.9	0 / +1.1			015	4L	011	245	167	34	1.5K	222					
1752		2726.7 / 7922.7	2725.9 / 7921.5	+.8 / +1.2	2727.0 / 7923.7	-.3 / +1.0			234	7R	241	219	152	28	1.5K	221					
1836		2753.5 / 7858.3	2754.3 / 7859.9	-.8 / -1.6	2754.2 / 7857.3	-.7 / +1.0			060	10L	050	216	146	38	3K	215					
1924		2820.5 / 7941.8	2819.2 / 7943.1	+1.8 / -1.2	2821.3 / 7941.5	-1.0 / +0.3			216	8L	214	242	141	30	3K	225					
2017		2751.3 / 8231.0	2750.5 / 8232.8	+.8 / -1.8	2752.6 / 8229.0	-1.3 / +2.0															LAND

BIMINI 230/45 FREEPORT 050/42 PALM BEACH 050/22 [illegible] 153 [illegible] 150 [illegible]

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION	MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
MCF→MCF	TD#11 RECCO [illegible]	[illegible]	TICKNOR	PARRISH	1400Z' 1354Z	23 AUG 95

WP	LAT / LON	RTE	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARKS
1	27 50.9 N 77 29.6 W																	
2	27 54.5 N 82 41.1 W																	
3	28 [illegible] N 80 38.1 W																	
4	27 40 N 79 30 W																	
5	25 56 N 79 48 W																	
6	25 05 N 79 48 W																	
7	26 46 N 77 58 W																	
8	25 30 N 78 53 W	BIMINI	122	24														
9	25 11 N 79 15 W	[illegible]	[illegible]	24														

INS PERFORMANCE

	INS 1	INS 2
BEGIN ALIGN TIME	1130Z	1130Z
ALIGN STATUS (0-5)	0	0
END NAV TIME	2000Z	2000Z
START NAV TIME	[illegible]	[illegible]
DELTA T	6450	6450

TERMINAL ERRORS

	INS 1	INS 2
DELTA LAT	+.5	-1.3
DELTA LON	-1.8	+2.0
RGS	8	3
RADIAL ERROR	2	2

REMARKS

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
AIRCRAFT OPERATIONS CENTER