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 Ticknor ✓	SYS ENG Roles
CP O'Mara ✓	DATA SYS Lynch
NAV Rathbun ✓	RADAR Barr
FE Wade / Torres	BT/ODW McMillan ✓
RADIO Sans Souci ✓	CLD PHYS Hegland ✓
FD Parrish ✓	~~DOPPLER~~ ~~[illegible]~~ ?

PARTICIPATING SCIENTIST/VISITORS/OAO

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

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

0311A CYCLONE LOW-LEVEL → 26.0N, 79.5W.
– My printer screwed – spurious characters.
1421 ↓ to 1K.

From John P. (8/24/95) 5.3 for RECCO. ~~[illegible]~~ ~~18.50~~

§ 1504Z 26°47'N, 79°48'W 1008 mb
§ 1634Z 26°57'N, 79°50'W 1007 mb
1816Z EP 27°05'N, 80°10'W 1006 mb

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

Left margin notes: 1255, 29.84, 81/79, 010/2, 1010.2, 1009.7, 27.5, 25.5, 1009.9, 40/4, 1010.6, Em.5K, SP 1010.8, Em1K, SP 1010.5, Em 1.7K, 1858Z, 88/81, 310/9, 29.76, 1007.5

29.82

WB Form 413-50
2 - 63

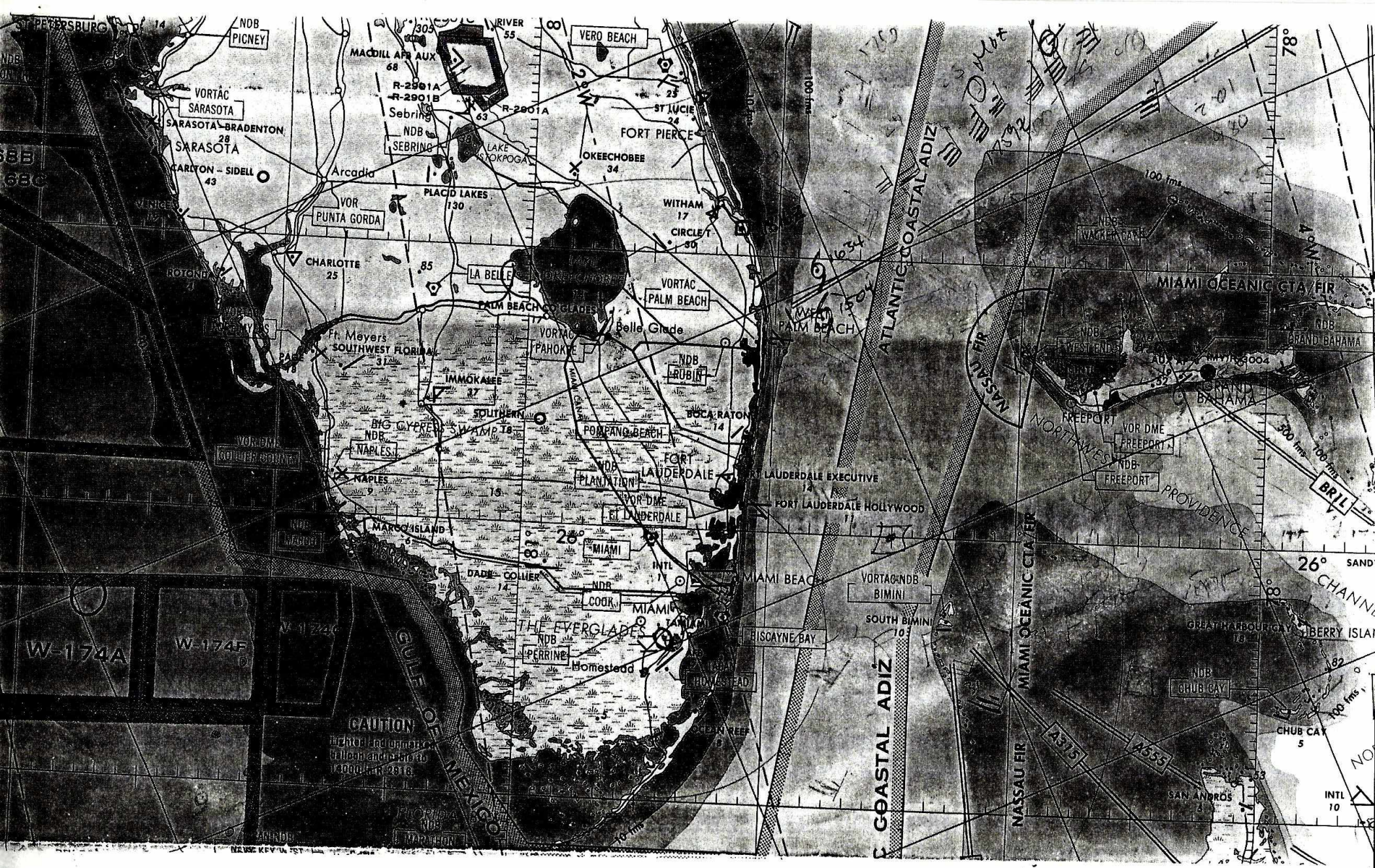
25 35
79 38

25 08
79 38
204/23

950823H T.D. 11 RECCO

83/76

Time	LAT	LON	TK	WD	WS	PA	GA	TA	TD	SP	PS				
1337	27 51	82 ~~25~~				29		34.8	27.7		1006.8				
1358	27 52	82 24	82	16	9.3	811	830	22.7	19.8	1010.5	852	↑			
1400 15	27 55	82 16	68	27	9.6	1742	1789	16.2	15.2	1008.5	814	↑			
1408	28 015	8143.9	80	44	10.4	3155	3264	9.4	8.8	1004.3					
1418	28 07	80 55	90	111	15.5	2780	2901	12.4	7.1	1007.8	721.0	-			
1433	27 46	79 57	127	128	26	496	494	23.8	23.0	1009.9	955.1				
1437	27 40	79 45	176	121	28	496	452	23.9	23.4	1009.6	955.3	IP			
1448	27 03	79 43	177	122	24	496	480	23.9	22.4	1007.7	955.1				
1504	26 48	79 53					2?	23.1	22.5	1007					
155515	26 08	78 38	41	190	.35	499	503	23.0	23.0	1010.8	954.7				
1604	26 35	78 11	40	176	34	502	512	24.0	—	1011.3	9548				
1607	26 47	78 01													
1620	26 53	7853	275	178	43	499	487	23.0	21.8	1008.9	954.4				
163400	26 57.2	79 50.1								1007					
1700	25 38	79 03	150	204	26	499	505	23.1	—	1011.0	954.8				
1710	25 54	78 49	10	190	33	496	500	23.0	—	1011.1	954.5				
1720	26 36	78 41	8	175	33	501	501	23.7	22.1	1010.0	954.7				
1733	27 31	78 31	10	170	35.5	497	500	23.7	21.1	1010.9	954.8				
1741	28 03	78 24	11	149	31	497	510	23.4	23.5	1011.6	954.8				
174230	2808	78 23	NE	PT	- TURN	220	TO	COURSE							
1752	27 51	78 53	232	154	38	24.0	21.7	499	496	1009.7	954.6				
1840	28 02	78 45	STARTED		C-SCAT	10°	R -	TURN							
185730	28 06	79 02	STARTED		L	200°	CIRCLES	IN	CLEAR						
190714	28 11	79 05	started	30	DEG	L-CIRCLE									
191310	28 13	79 08	started	40	DEG	L-CIRCLE									
191730	↑ to	6K	AA	for	rainband	crossing									
1920	~~Start~~	Crossing	rainband	- for	precip	C-scat	work								
193215	28 18	79 26	263	136	40.5	1741	1804	17.5	13.8	1008.9	820.6	FINISHED C-SCAT WORK			
1951	2805	80 56	263	102	12	4936	5168	-0.3	-1.7	1000.5	544.8				
2006	27 55	82 16	201	37	16	1822	1862	17.3	-0.9	1006.6	823.7	↓ to land			
2024	27 51	8229.6				60		29.8	Out		1006.1	BLK			


NDB PICNEY
VORTAC SARASOTA
SARASOTA-BRADENTON
SARASOTA
CARLTON – SIDELL
VOR PUNTA GORDA
CHARLOTTE
MACDILL AFB AUX
R-2901A
R-2901B
Sebring
NDB SEBRING
LAKE STOKPOGA
PLACID LAKES
RIVER
VERO BEACH
ST LUCIE
FORT PIERCE
OKEECHOBEE
WITHAM
CIRCLE T
LA BELLE
VORTAC PALM BEACH
Belle Glade
VORTAC PAHOKEE
NDB RUBIN
Ft Meyers
SOUTHWEST FLORIDA
IMMOKALEE
SOUTHERN
BIG CYPRESS SWAMP
NDB NAPLES
VOR DME COLLIER COUNTY
NAPLES
MARCO ISLAND
POMPANO BEACH
VOR PLANTATION
FORT LAUDERDALE
VOR DME FT LAUDERDALE
BOCA RATON
MIAMI
INTL
DADE-COLLIER
NDB COOK
MIAMI
THE EVERGLADES
NDB PERRINE
Homestead
MIAMI BEACH
BISCAYNE BAY
VORTAC NDB BIMINI
SOUTH BIMINI
GULF OF MEXICO
CAUTION
W-174A
W-174F
ATLANTIC COASTAL ADIZ
NASSAU FIR
MIAMI OCEANIC CTA/FIR
NDB WACKER CAY
NDB WEST END
NDB GRAND BAHAMA
GRAND BAHAMA
FREEPORT
VOR DME FREEPORT
NDB FREEPORT
NORTHWEST PROVIDENCE
FT LAUDERDALE EXECUTIVE
FORT LAUDERDALE HOLLYWOOD
GREAT HARBOUR CAY
NDB CHUB CAY
CHUB CAY
SAN ANDROS
A315
A555
BRILL
100 fms
500 fms
78°
26°
25°

950823H T.S. JERRY NOEL RENAN

135600	0.0	0.0	51.4	30.9	51.4	30.9
150330	+0.1	-0.5	45.6	52.5	45.6	52.5
154530	0.0	-0.3	38.0	06.8	38.0	6.8
163330	+0.1	-1.2	57.4	49.4	57.4	49.4
172500	0.0	-0.7	57.6	37.0	57.6	37.0
181630	-0.8	-1.7	03.8	02.5	03.8	02.5
190700	-0.2	-2.3	12.2	06.2	12.2	06.2
194500	-1.6	-2.3	07.7	24.8	07.7	24.8
(9) 202400	-1.1	-2.2	51.0	29.6	51.0	29.6

DATE	SCHEDULED FIX TIME	AIRCRAFT NUMBER	ARWO
4 SEP	15Z	N42RF	Parrish

MANOP HEADING (PRECEDENCE IMMEDIATE)

MISSION IDENTIFIER AND OBSERVATION NUMBER
NOAA2 ~~E~~ 0311A CYCLONE

(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE

A	23/1504 Z		DATE AND TIME OF FIX
B	26 DEG 47 MIN (N) S		LATITUDE OF VORTEX FIX *
	79 DEG 48 MIN E (W)		LONGITUDE OF VORTEX FIX *
C	NA MB NA	M	MINIMUM HEIGHT AT STANDARD LEVEL
D	25	KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED
E	010 DEG 30	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND
F	120 DEG 29	KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	010 DEG 28	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	EXTRAP 1008	MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE
I	23.0C/ 496	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE
J	24.0C/ 496	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE
K	22.0C/ 28.5	C	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE
L	NA		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
M	NA		EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C – Circular; CO – Concentric; E – Elliptical. Transmit orientation of major axis in tens of degrees, i.e., 01–010 to 190; 17–170 to 350. Transmit diameter in nautical miles. *Examples:* C8– Circular eye 8 miles in diameter. E09/15/5 – Elliptical eye, major axis 090–270, length of major axis 15 NM, length of minor axis 5NM. CO8–14 – Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.
N	26 DEG 47 MIN (N) S		CONFIRMATION OF FIX: Coordinates and Time *
	79 DEG 48 MIN E (W)		
	1504 Z		
O	1[illegible]3,4,5/01		FIX DETERMINED BY/FIX LEVEL FIX DETERMINED BY: 1 – Penetration; 2 – Radar; 3 – Wind; 4 – Pressure; 5 – Temperature. FIX LEVEL (Indicate surface center if visible; indicate both surface and flight level centers only when same): 0 – Surface; 1 – 1500 ft; 8 – 850 mb; 7 – 700 mb; 5 – 500 mb; 4 – 400 mb; 3 – 300 mb; 2 – 200 mb; 9 – Other.
P	2 / 10 NM		NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY
Q			REMARKS

FIX MADE FROM 1500 FT.
PEAK FLT LVL WIND ITEMS F & G AT 1446Z.
15 MI WIDE SURFACE CENTER, LIGHT VARIABLE WINDS.
WATERSPOUT SIGHTED AT 25 DEG, 35 MIN N, 79 DEG 38 MIN W AT 1525Z.

INSTRUCTIONS: Items A through G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes. * CHECK SUM REQUIRED IN WESTPAC.

Howard

DATE	SCHEDULED FIX TIME	AIRCRAFT NUMBER	ARWO
23 Aug 95	—	N42RF	PARRISH

MANOP HEADING (PRECEDENCE IMMEDIATE)

MISSION IDENTIFIER AND OBSERVATION NUMBER
NOAA2 0311A CYCLONE

(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE

A	23/1634	Z	DATE AND TIME OF FIX
B	26 DEG 57 MIN (N) S		LATITUDE OF VORTEX FIX *
	79 DEG 50 MIN E (W)		LONGITUDE OF VORTEX FIX *
C	NA MB NA	M	MINIMUM HEIGHT AT STANDARD LEVEL
D	40	KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED
E	095 DEG 42	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND
F	~~175~~ DEG 45	KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER
G	095 DEG 45	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND
H	~~EXTRAP~~ 1007	MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE
I	23.0 C/ 498	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE
J	23.5 C/ 499	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE
K	23.0C/ 28.5	C	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE
L	NA		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.
M	NA		EYE SHAPE/ORIENTATION/DIAMETER. Code eye shape as: C – Circular; CO – Concentric; E – Elliptical. Transmit orientation of major axis in tens of degrees, i.e., 01–010 to 190; 17–170 to 350. Transmit diameter in nautical miles. *Examples:* C8–Circular eye 8 miles in diameter. E09/15/5 – Elliptical eye, major axis 090–270, length of major axis 15 NM, length of minor axis 5NM. CO8–14 – Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.
N	26 DEG 57 MIN (N) S		CONFIRMATION OF FIX: Coordinates and Time *
	79 DEG 50 MIN E (W)		
	1634	Z	
O	1,3,4,5/ 0,1		FIX DETERMINED BY/FIX LEVEL FIX DETERMINED BY: 1 – Penetration; 2 – Radar; 3 – Wind; 4 – Pressure; 5 – Temperature. FIX LEVEL (Indicate surface center if visible; indicate both surface and flight level centers only when same): 0 – Surface; 1 – 1500 ft; 8 – 850 mb; 7 – 700 mb; 5 – 500 mb; 4 – 400 mb; 3 – 300 mb; 2 – 200 mb; 9 – Other.
P	2 / 8	NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY
Q			REMARKS

FIX MADE FROM 1500 FT.
PEAK FL LVL WIND ITEMS F & G AT 1621Z.
NUMEROUS WIDE RAINBANDS S, E OF CENTER.

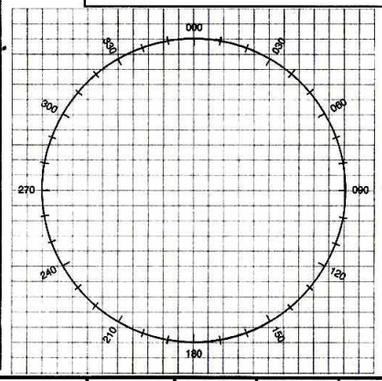
INSTRUCTIONS: Items A through G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available for scheduled fixes and at the ARWO's discretion for unscheduled (intermediate) fixes. * CHECK SUM REQUIRED IN WESTPAC.

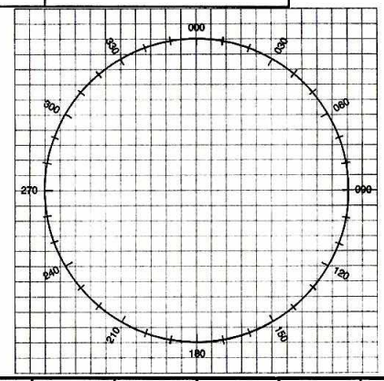
AWS FORM JAN 77 82 PREVIOUS EDITION IS OBSOLETE. ABBREVIATED/DETAILED VORTEX DATA MESSAGE

67-07065

CLEARANCES			
FREQ	ALT	HDG	OTHER
			NORTH TO SOUTH 100NMILES
			EAST OF STORM
			EAST TO WEST
			CLAF R 080 116K
			10K +10 2796
			134.25 1403

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
1331																					ENG START
1336																					TAXI
1354																					TAKEOFF
1411	GPS FM 1	2804.0 8128.0	2804.4 8128.0	-.4 0	2804.1 8127.8	-.1 +.2			081	2L	079	266	142	7	9K	270					
1432		2749.0 7958.0	2749.6 7957.9	-.6 +.1	2749.0 7957.5	0 +.5			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	210	191	3	1.5K	214					
1508		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
1530		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 7910.3	2653.5 7910.1	+.5 +.2	2653.8 7909.3	+.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
1704		2532.7 7853.1	2533.8 7854.0	-1.1 -.9	2533.0 7852.3	-.3 +.8			011	1L	010	252	180	33	1.5K	219					
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					
1802		2726.7 7925.7	2725.9 7924.5	+.8 +1.2	2727.0 7923.7	-.3 +2.0			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					
1927		2820.3 7904.4	2818.5 7903.4	+1.8 +1.0	2821.3 7901.8	-1.0 +2.6			256	8R	264	242	141	37	6K	225					
2017		2751.3 8231.0	2750.5 8232.8	+.8 -1.8	2752.6 8229.0	-1.3 +2.0															LAND

BIMINI 220/48 FREEPORT 050/42 PALM BEACH 050/22

2657.2 1633:50
7950.1

150/100 230/100