

FLT ID: H960912	FM: KMCF	TO: KMCF
FLT NO: 96-050	BLK IN: 1342Z	ATA: 1334Z
ETD: 0300Z	BLK OUT: 0318Z	ATD: 0331Z
ETE:	BLK TIME: 10:24	FLT TIME: 10:03
SPONSOR ORG: NHC	PROGRAM: HURR RECCO	PURPOSE: H. HORTENSE

DAO PERSONNEL

AC KENNEDY	SYS ENG
CP KENUL	DATA SYS McMILLAN
NAV STRONG	RADAR BARR
FE TORREY	BT/ODW CARPENTER
RADIO ROLES	CLD PHYS
FD DAMIANO	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
WILLOUGHBY	PI	HRD
LANDSEA	RADAR	↓ U-MASS
LAWRENCE		
JONES	DBS	
DONNELLY	C-SCAT	

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

DYN SLIP PLS 4.2 on black out; got the near zero before T/O.

R/LW broke for whole flt

0609Z	0732Z
22 57	21 10
71 27	71 30
964 MB	962 MB
0859Z	1104Z
23 22	23 41
71 36	71 45
959 MB	959 MB

4

U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO.2 DROWF2 FILE

FLT ID: H960912 TIME OFF: 0331Z TIME ON: 1334Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1010.4	29.87	K38 1010.1	29.85

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

RADAR TAPES

2

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

PMS

2

AXBT

AXCP

ODW

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

RECCO H. Hortense

FLIGHT #01 H960912

TYPE OF DATA -----	SENSOR OR OPTION -----
INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA159
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 99
Constants file	CO2964.CON

Notes:

There were several time/data gaps:

035453Z - 035510Z
 041131Z - 041200Z
 045111Z - 045120Z
 065957Z - 070000Z
 090637Z - 090650Z
 111419Z - 111430Z
 132319Z - 132340Z

The King Liquid water probe was inoperable for the entire flight.

Spikes in fuselage static pressure (PSF) were removed and patched during the following time frames:

064200Z - 064500Z
 094000Z - 094300Z
 094600Z - 094900Z
 105000Z - 105300Z
 112300Z - 112600Z
 114000Z - 114300Z
 115400Z - 115700Z

Downward spikes in radar altitude are a result of overflying land.

The aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Takeoff -----	Landing -----
Aircraft static pressure	1010.4mb	1010.1mb

Corrected tower pressure

1011.0mb

1010.8mb

Flight Meteorologist: A. Barry Damiano, (813) 828-3310 ext. 3073

H960912 H. Hortense from HP

032840 -

032841

032850

035453

035454

035458

035459

035500

035504

035505

06

07

08

09

10

041131

041200

045110

065451

58

59

070000

090637

38

39

40

43

44

45

46

47

48

49

50

111419

111420

114121

114130

13...

<

1

1

H960912

RENAV INE1

053900, -.7, 0.
 063900, -.7, +.4
 073900, -.4, 0
 083900, -1.1, 0
 093900, 0.1, 1.1
 103900, 1.2, .5
 113900, 0, 1.0
 123900, .4, 1.8
 133900, 2.8, .9

GX = INE1

GY = INE2

DATA GAPS

~~032840 - 032850~~

12 3 1 31
 12 3 1 32
 3 1 32
 3 1 34
 3 1 34

035453 - 035510

~~035504 - 035510~~

041131 - 041200

~~111719 - 111730~~

→

045111 - 045120

065957 - 070000

090637 - 090650

132319 - 132340

111421 - 111430

~~132324 - 132330~~

~~132332 - 132340~~

2600
~~2800~~
 26

PC spike
 1304 (INE2)

RA159 fix 033031 - 033330 ✓

RA159 = RA232 133431 - 133900

TT spikes
 1105
 123130 high

PSF spikes 0642 - 0645, 1051
 0941, 094830, 112430
 1140 - 1143, 1156

~~WZ~~

WZ plot

~ 0900Z

041121

041210

H960912

TIME	LAT	LONG	TRK	HD	WD	WS	PA	GA	TA	TD	SP	PS		PS
033800	2748	8209	129	129	343	7	2130	2197	14.2	9.2	1007.3	776.7	—	65.7
040100	2709	8027	110	112	268	19	5200	5459	-3.6	-9.6	1006.4	526.0	—	74.4
041600	2642	7908	111	114	277	27	5190	5472	-4.2	-7.1	1010.0	526.7	—	67.2
043800	2605	7721	112	114	268	12	5194	5476	-4.1	-11.1	1009.6	526.4	—	68.4
050000	2527	7539	112	112	330	7	5202	5498	-1.5	-24.2	1006.7	527.7	—	64.2
052300	2447	7354	112	109	32	19	5192	5472	-1.5	-19.2	1004.0	526.6	—	66.1
053800	2413	7258	133	125	62	38	1541	1574	17.1	14.6	1007.8	841.3	—	71.1
055000	2343	7223	136	127	49	37	1539	1535	17.6	15.7	1003.5	841.8	—	73.9
065500	2255	7009	316	316	179	60	1492	1497	18.3	16.6	1004.4	846.2	—	71.1
071700	2353	7039	225	211	128	60	1513	1507	16.9	16.3	1003.7	844.3	—	77.4
075100	2222	7219	207	219	295	32	1523	1508	17.3	16.1	1002.4	845.1	—	71.5
080500	2156	7237	87	86	283	29	1498	1503	19.0	14.0	1004.0	845.3	—	70.1
081900	2202	7131	85	91	234	43	1518	1515	18.2	14.8	1003.4	843.6	—	74.1
083100	2206	7035	85	96	207	45	1515	1526	18.0	13.8	1005.3	843.9	—	71.3
084700	2250	7059	317	304	205	58	1550	1509	17.3	18.0	998.8	840.4	RW+	73.4
094400	2315	7300	182	180	19	22	1509	1502	17.3	16.2	1003.5	844.5	RW	65.7
095500	2231	7303	176	180	318	24	1509	1514	17.9	15.6	1004.3	844.7	RW-	65.2
101400	2219	7151	85	87	253	41	1508	1503	19.2	13.2	1002.9	844.6	CLD	68.0
104000	2233	7036	318	307	198	52	1507	1520	17.4	15.7	1005.8	844.8	BTN CLD	76.0
105000	2303	7101	321	305	207	69	1560	1542	17.6	16.0	1000.9	839.2	IN CLD	66.8
115100	2451	7500	297	298	312	17	7342	7766	-17.0	-32.4	1000.6	391.2	ABV CLD	69.1
122300	2559	7738	294	290	233	26	7339	7733	-17.1	-27.0	—	391.2	CLR	71.9
124600	2643	7934	293	291	247	19	7340	7729	-18.9	-33.1	—	391.3	CLR	73.1

2303
7142

0612

DATE	SCHEDULED FIX TIME	AIRCRAFT NUMBER	ARWO
MANOP HEADING (PRECEDENCE IMMEDIATE)			
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA 2 1308H HORTENSE OB 05			
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE			
A	12/0609 Z	DATE AND TIME OF FIX	
B	22 DEG 57 MIN N S	LATITUDE OF VORTEX FIX *	
	71 DEG 27 MIN E W	LONGITUDE OF VORTEX FIX *	
C	850 MB 1101 M	MINIMUM HEIGHT AT STANDARD LEVEL	
D	NA KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED	
E	NA DEG NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND	
F	040 DEG 93 KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER	
G	295 DEG 13 NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND	
H	EXTRAP 964 MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE	
I	18/1560 M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE	
J	22 C/ 1544 M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE	
K	20 C/ NA C	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE	
L	OPEN S	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.	
M	C 20	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 5 NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.	
N	22 DEG 57 MIN N S 71 DEG 27 MIN E W 12/0609 Z	CONFIRMATION OF FIX: Coordinates and Time *	
O	12345/8	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 / 4 NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY	
Q	REMARKS SLP EXTRAP FROM 850 MB GOOD RADAR PRESENTATION FL CNTR IN NW QUAD OF RADAR CNTR MAX FL WIND 110 KTS SE QUAD 0612Z FLEW AT PRES ALT INTO CNTR		

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.

DATE		SCHEDULED FIX TIME		AIRCRAFT NUMBER N42KF		ARWO DARIANO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA-1308A HORTENSE OB 1X							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	12/0859 Z			DATE AND TIME OF FIX			
B	23 DEG 22 MIN (N) S			LATITUDE OF VORTEX FIX *			
	71 DEG 36 MIN (E) W			LONGITUDE OF VORTEX FIX *			
C	850 MB 1057 M			MINIMUM HEIGHT AT STANDARD LEVEL			
D	NA KT			ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED			
E	NA DEG NA NM			BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND			
F	205 DEG 112 KT			MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	120 DEG 13 NM			BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	EXTRAP 959 MB			MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE			
I	18 C/ 1760 M			MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE			
J	21 C/ 1870 M			MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE			
K	18 C/ NA C			DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE			
L	OPEN S			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	C18			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 5 NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.			
N	23 DEG 22 MIN (N) S			CONFIRMATION OF FIX: Coordinates and Time *			
	71 DEG 36 MIN (E) W						
	12/0859 Z						
O	12345/8			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	1 / 1 NM			NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY			
Q	REMARKS SLP EXTRAP FROM 850 MB MAX FL WIND 118 KTS NE QUAD 0732Z GOOD RADAR PRESENTATION						

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.

DATE		SCHEDULED FIX TIME		AIRCRAFT NUMBER N42RF	ARWO DAMIANO
MANOP HEADING (PRECEDENCE IMMEDIATE)					
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA2 1308A HORTENSE OB 1X					
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE					
A	12/0859 Z		DATE AND TIME OF FIX		
B	23 DEG 22 MIN (N) S		LATITUDE OF VORTEX FIX *		
	71 DEG 36 MIN (W)		LONGITUDE OF VORTEX FIX *		
C	850 MB 1057 M		MINIMUM HEIGHT AT STANDARD LEVEL		
D	NA KT		ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED		
E	NA DEG NA NM		BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND		
F	205 DEG 112 KT		MAXIMUM FLIGHT LEVEL WIND NEAR CENTER		
G	120 DEG 13 NM		BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND		
H	EXTRAP 959 MB		MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE		
I	18 C/ 1760 M		MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE		
J	21 C/ 1870 M		MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE		
K	18 C/ NA C		DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE		
L	OPEN S		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.		
M	C18		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 5 NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.		
N	23 DEG 22 MIN (N) S 71 DEG 36 MIN (W) 12/0859 Z		CONFIRMATION OF FIX: Coordinates and Time *		
O	12345/8		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	1 / 1 NM		NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY		
Q	REMARKS SLP EXTRAP FROM 850 MB MAX FL WIND 118 KTS NE QUAD 0732Z GOOD RADAR PRESENTATION				

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.

DATE		SCHEDULED FIX TIME		AIRCRAFT NUMBER N42CF	ARWO DAMIANO
MANOP HEADING (PRECEDENCE IMMEDIATE)					
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA2 1308A HORTENSE OB 134					
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE					
A	12/1104		Z	DATE AND TIME OF FIX	
B	23 DEG 41 MIN N S			LATITUDE OF VORTEX FIX *	
	71 DEG 45 MIN E W			LONGITUDE OF VORTEX FIX *	
C	850 MB 1059		M	MINIMUM HEIGHT AT STANDARD LEVEL	
D	NA		KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED	
E	NA DEG NA		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND	
F	210 DEG 114		KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER	
G	125 DEG 12		NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND	
H	EXTRAP 959		MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE	
I	20 C/ 1744		M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE	
J	20 C/ 1906		M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE	
K	18 C/ NA		C	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE	
L	OPEN 5			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.	
M	C 18			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 5 NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.	
N	23 DEG 41 MIN N S			CONFIRMATION OF FIX: Coordinates and Time *	
	71 DEG 45 MIN E W				
	12/1104		Z		
O	12345/8			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 / 2		NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY	
Q	REMARKS SLP EXTRAP FROM 850 MB MAX FL WIND 118 KTS NE QUAD 0732Z SFC CNTR OBSCURED BY CLOUDS GOOD RADAR PRESENTATION				

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.

DATE		SCHEDULED FIX TIME		AIRCRAFT NUMBER	ARWO
				N42RF	DAMIANO
MANOP HEADING (PRECEDENCE IMMEDIATE)					
MISSION IDENTIFIER AND OBSERVATION NUMBER					
NOAA 2 1308A HORTENSE 0814					
(ABSTRACTED) (DETAILED) VORTEX DATA MESSAGE					
A	12/1104	Z	DATE AND TIME OF FIX		
B	23 DEG 41 MIN N S		LATITUDE OF VORTEX FIX *		
	71 DEG 45 MIN E W		LONGITUDE OF VORTEX FIX *		
C	850 MB 1059	M	MINIMUM HEIGHT AT STANDARD LEVEL		
D	NA	KT	ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED		
E	NA DEG NA	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND		
F	210 DEG 114	KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER		
G	125 DEG 12	NM	BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND		
H	EXTRAP 959	MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE		
I	20 C/ 1744	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE		
J	20 C/ 1906	M	MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE		
K	18 C/ NA	C	DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE		
L	OPEN 5		EYE CHARACTER: Closed wall, poorly defined, open SW, etc.		
M	C 18		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 5 NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.		
N	23 DEG 41 MIN N S		CONFIRMATION OF FIX: Coordinates and Time *		
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	12/1104	Z			
O	12345/8		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 / 2	NM	NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY		
Q	REMARKS				
	SLP EXTRAP FROM 850 MB MAX FL WIND 118 KTS NE QUAD 0732Z SFC CNTR OBSCURED BY CLOUDS GOOD RADAR PRESENTATION				

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.

2505
7142

DATE		SCHEDULED FIX TIME		AIRCRAFT NUMBER		ARWO	
MANOP HEADING (PRECEDENCE IMMEDIATE)							
MISSION IDENTIFIER AND OBSERVATION NUMBER NOAA 2 1308A HORTENSE 0805							
(ABBREVIATED) (DETAILED) VORTEX DATA MESSAGE							
A	12/0609 Z			DATE AND TIME OF FIX			
B	22 DEG 57 MIN N			LATITUDE OF VORTEX FIX *			
	71 DEG 27 MIN E W			LONGITUDE OF VORTEX FIX *			
C	850 MB 1101 M			MINIMUM HEIGHT AT STANDARD LEVEL			
D	NA KT			ESTIMATE OF MAXIMUM SURFACE WIND OBSERVED			
E	WA DEG NM			BEARING AND RANGE FROM CENTER OF MAXIMUM SURFACE WIND			
F	040 DEG 93 KT			MAXIMUM FLIGHT LEVEL WIND NEAR CENTER			
G	295 DEG 13 NM			BEARING AND RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND			
H	EXTRAP 964 MB			MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM WITHIN 1500 FT OF SEA SURFACE			
I	18 C/ 1560 M			MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE OUTSIDE EYE			
J	22 C/ 1544 M			MAXIMUM FLIGHT LEVEL TEMP/PRESSURE ALTITUDE INSIDE EYE			
K	20 C/ 1A C			DEWPOINT TEMP/SEA SURFACE TEMP INSIDE EYE			
L	OPEN 5			EYE CHARACTER: Closed wall, poorly defined, open SW, etc.			
M	C 20			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 5 NM. CO8-14 - Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.			
N	22 DEG 57 MIN N S			CONFIRMATION OF FIX: Coordinates and Time *			
	71 DEG 27 MIN E W						
	12/0609 Z						
O	12345/8			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 / 4 NM			NAVIGATION FIX ACCURACY/METEOROLOGICAL ACCURACY			
Q	REMARKS SLP EXTRAP FROM 850 MB GOOD RADAR PRESENTATION FL CNTR IN NW QUAD OF RADAR CNTR MAX FL WIND 110 KTS SE QUAD 0612Z FLEW AT PRES ALT INTO CNTR						

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.

