NOAA Technical Memorandum NWS NHC 29

ANNUAL DATA AND VERIFICATION TABULATION ATLANTIC TROPICAL CYCLONES 1985

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UNITED STATES DEPARTMENT OF COMMERCE
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National Oceanic and Atmospheric Administration
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INTRODUCTION

This is the Twelfth report of an annual series prepared by the National Hurricane Center (NHC) to provide a source of summarized data on Atlantic tropical cyclones. It will not duplicate the narrative overview of the hurricane season or the description of individual storms, which will continue to be published in the Monthly Weather Review. In addition to data supplied by the National Weather Service, materials have been furnished by the NOAA Tropical Satellite and Analysis Center of NHC, and the CARCAH (Chief Aerial Reconnaissance Coordination, all Hurricanes). This report also includes Probability Forecasts issued with advisories on landfalling United States tropical storms and hurricanes (Appendix B).

OBJECTIVE FORECAST TECHNIQUES

The following tropical cyclone prediction models were used at the National Hurricane Center for forecasting motion on an operational basis:

1. NHC-67 (Miller, Hill, Chase, 1968). A stepwise screening regression model using predictors derived from the current and 24-hour old 1000, 700, and 500 mb data, including persistence during the early forecast periods.

2. SANBAR (Sanders and Burpee, 1968). A filtered barotropic model using input data derived from the 1000 to 100 mb pressure weighted winds. The model requires use of "bogus" data in data-void areas. The system was modified by Pike (1972) so that the initial wind field near the storm would conform to the current storm motion.

3. HURRAN (Hope and Neumann, 1970). An analog system using as a data base the tracks of all Atlantic tropical storms and hurricanes dating back to 1886.

4. CLIPER (Neumann, 1972). Stepwise multiple screening regression using the predictors derived from climatology and persistence.

5. NHC-72 (Neumann, Hope, Miller, 1972). A modified stepwise multiple screening regression system which combines the NHC-67 concept and CLIPER system into a single model.

6. NHC-73 (Neumann and Lawrence, 1973). Similar in concept to the NHC-72 except it also uses the "perfect prog" and MOS (model output statistics) methods to introduce NMC (National Meteorological Center) numerical prognostic data into the prediction equations.

7. NMC MFM MODEL (Hovermale, 1975). A ten-level baroclinic model which uses a moving fine mesh (MFM) grid nested within the coarser NMC fixed grid primitive equation (PE) model.

In addition, operational forecasts of tropical cyclone intensity changes in knots at 12-hourly intervals out to 72 hours are generated by a program named SHIFOR (Statistical Hurricane Intensity Forcasts). Generation of the forecast equations was done by multiple screening regression techniques using historical tropical cyclone data as input. Results over the past several years have shown that SHIFOR and official intensity forecasts have comparable skill scores.

The National Hurricane Center uses the above models as guidance in the formulation of its forecasts. The hurricane forecaster also makes extensive use of analyses and prognoses produced by NMC and TSAC (Tropical Satellite and Analysis Center) in Miami.

VERIFICATION

Verification statistics for the 1985 season are shown in Table 1. The initial position error in Table 1 is the difference between the operational initial position and that determined during post analysis (best track position). The forecast displacement error is the vector difference between the forecast displacement and the actual displacment computed from best-track positions. Landfall prediction errors for the official forecasts are given in Tables 2a and 2b. These are defined as the distance from the predicted landfall point, made 24 hours prior to actual landfall, to the actual landfall point. In cases where a storm either crossed an island or made landfall when predicted to remain offshore, the error was designated as the distance from the landfall point to the nearest point on the forecast track.

Tropical cyclone warning lead times for United States landfalling storms are given in Table 3a. A summary of warning lead times 1970-1985 for hurricanes only and for both tropical storms and hurricanes is given in Table 3b. The length of time between the issuance of the warnings and the time that the center crossed the coast, as determined from the "best track", was taken as the warning lead time. As more complete discussion of the verification of tropical cyclone warning lead times, as well as verifications for individual storms from 1970-1977, can be found in 1977 Annual Data and Verification Tabulation (Lawrence, Hebert, and Staff, 1979).

DATA SUMMARIES

A summary of 1985 North Atlantic tropical cyclone statistics is given in Table 4. Tracks of 1985 named storms are shown in Figure 1.

The best track, initial, and forecast positions for the 1985 storms are in Table 5, along with initial position and forecast errors, and storm average errors.

Table 6 lists all center fix positions and intensity evaluations used operationally at the National Hurricane Center during the 1985 season. Fixes are in chronological order, and include those obtained by aerial

reconnaissance penetrations, satellite (Miami TSAC), and land-based radar. The legend precedes the initial table.

Supplementary Vortex Data Messages which replaced Vortex Profiles in the 1977 Annual Data Tablulation are given in Table 7. A diagram of the paths flown in obtaining these Data Messages is given in Figure 2. The symbolic code for interpreting the Data Messages is given in Appendix A.

Table 8 is an aerial reconnaissance summary for the 1985 season.

Graphs of the lowest central pressure versus time for the 1985 named tropical cyclones are shown in Figure 4.

Table 9 gives the probability forecasts issued for the 1985 land-falling United States storms and hurricanes.

ACKNOWLEDGEMENTS

Main contributors were: Mr. Miles Lawrence, who computed the verification statistics; Ms. Joan David, who drafted the track chart and pressure/time graphs; and Mrs. Pamela Johnson, who typed the manuscript.

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LIST OF FIGURES, TABLES, AND APPENDICES

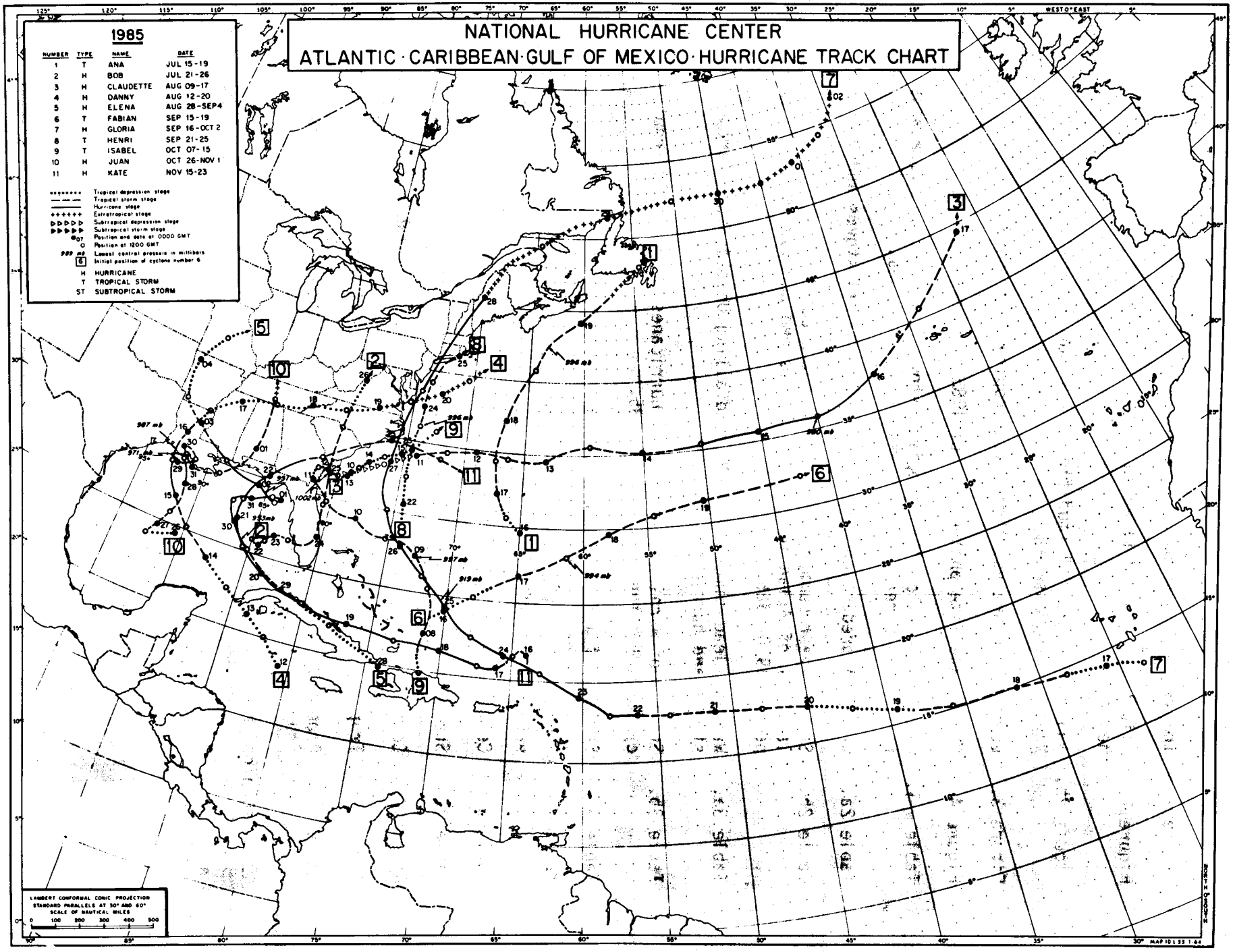


Figure 1. Tracks of the 1985 tropical cyclones.

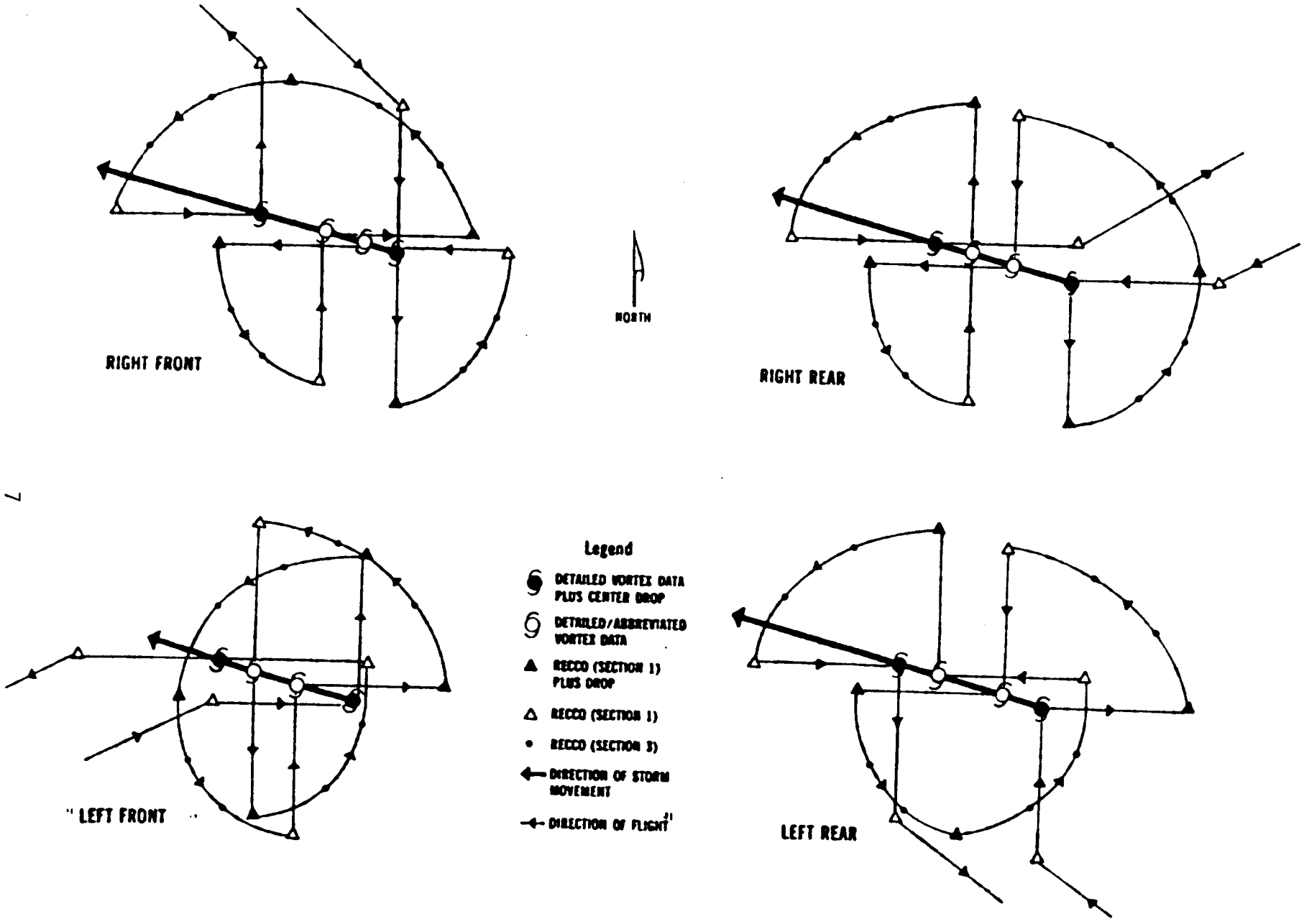


Figure 2a. Flight pattern "A" flown in obtaining Supplementary Vortex Data Message.

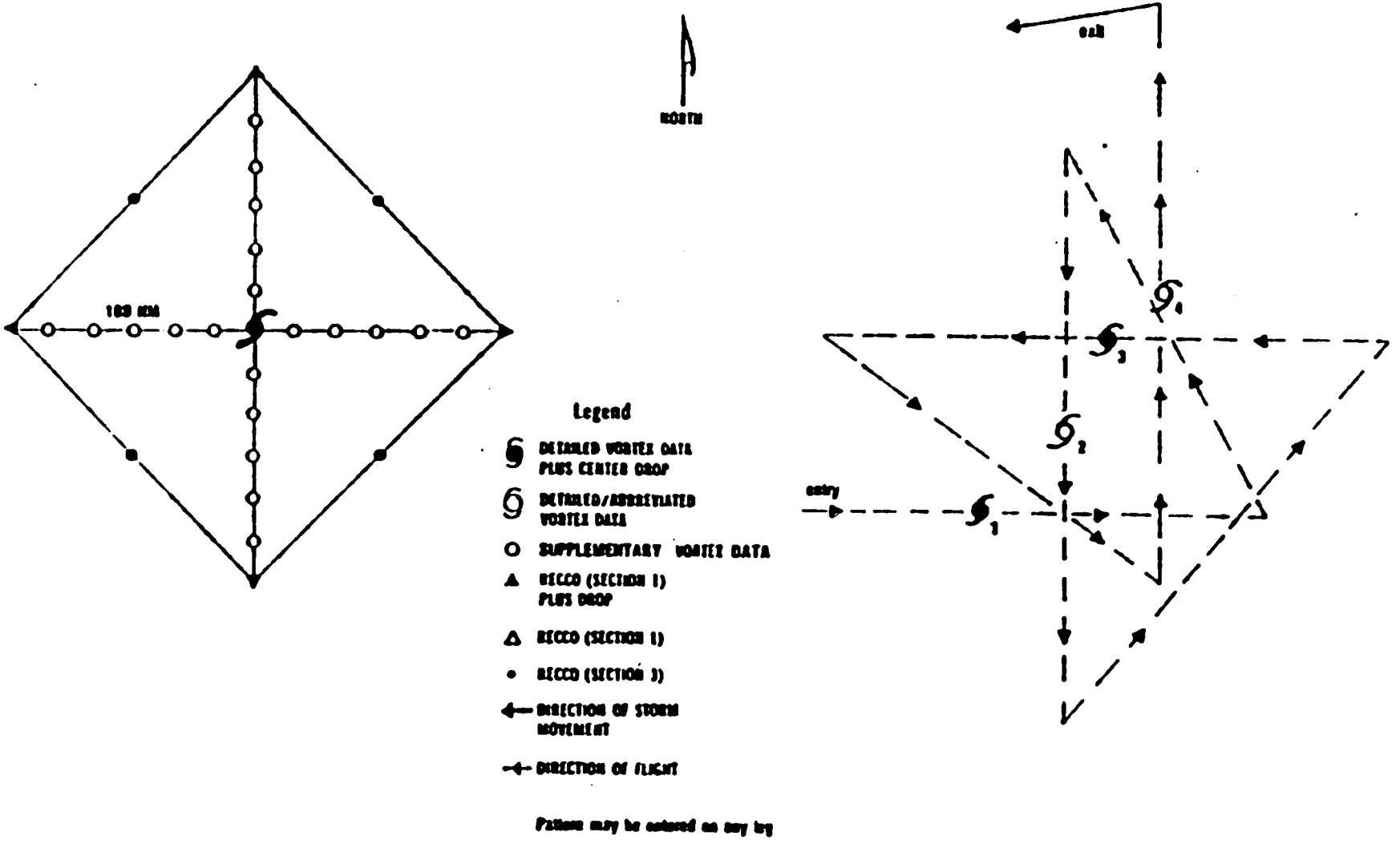
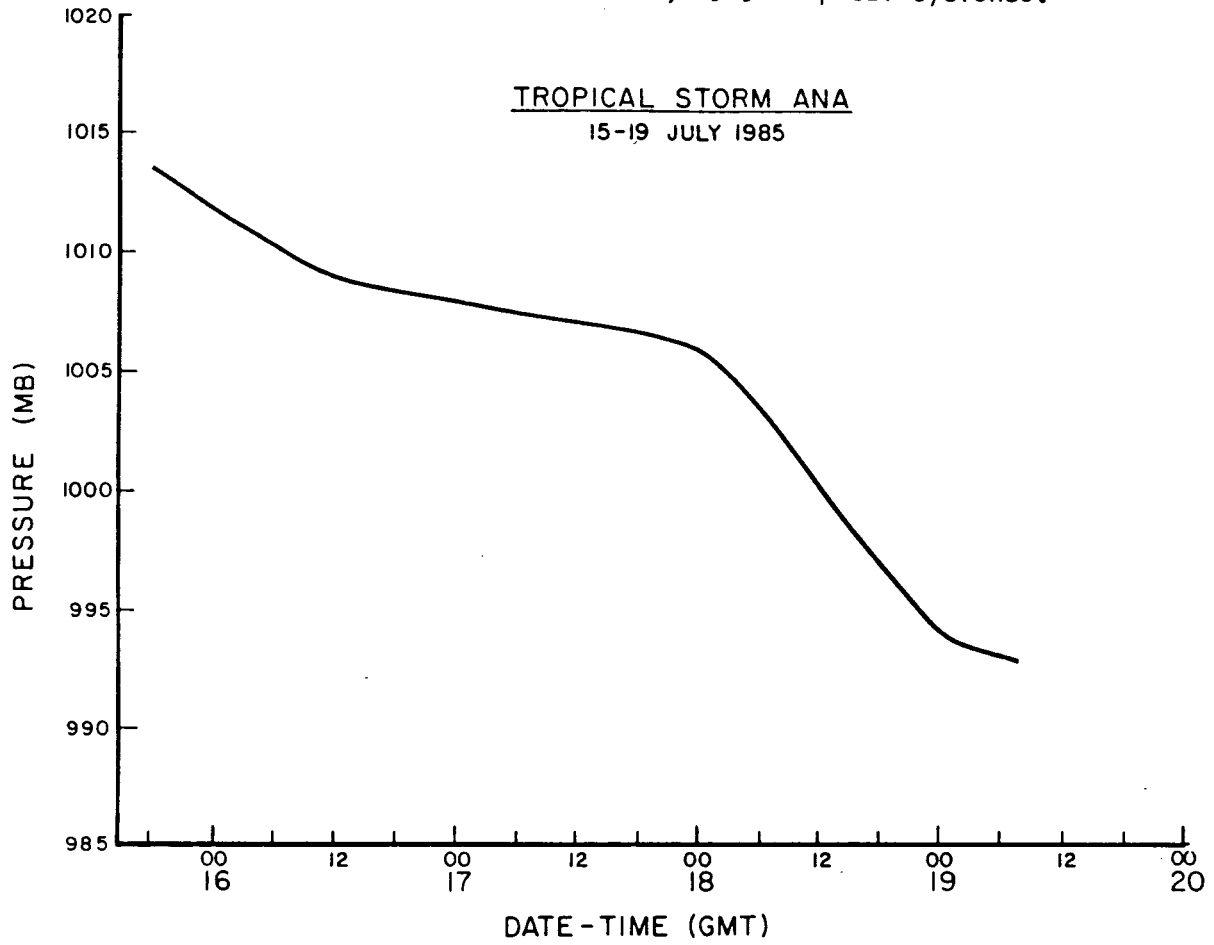
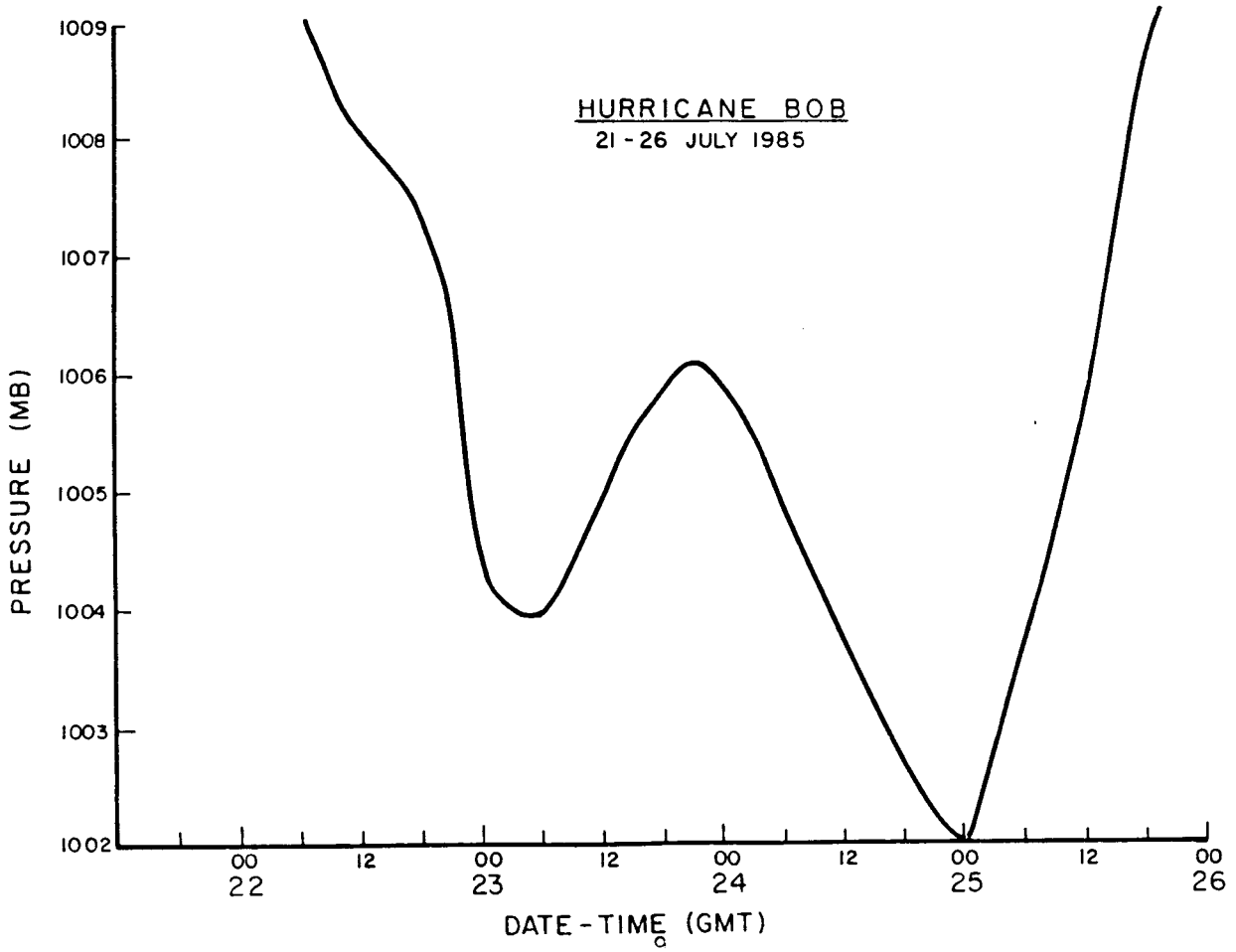


Figure 2b. Flight pattern "A" (modified) flown in obtaining Supplementary Vortex Data Message.

Figure 3. Lowest pressure vs time, 1985 tropical cyclones.





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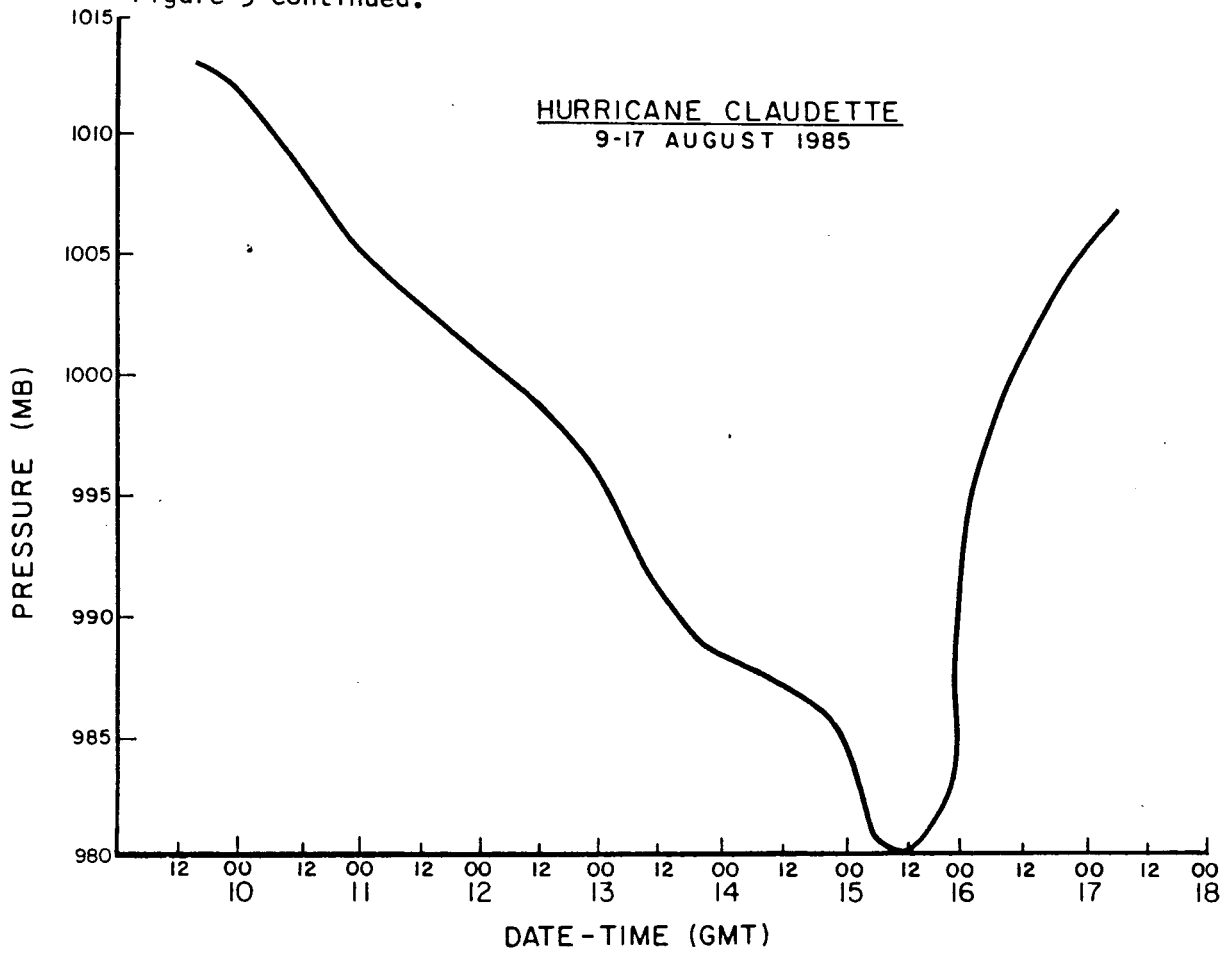

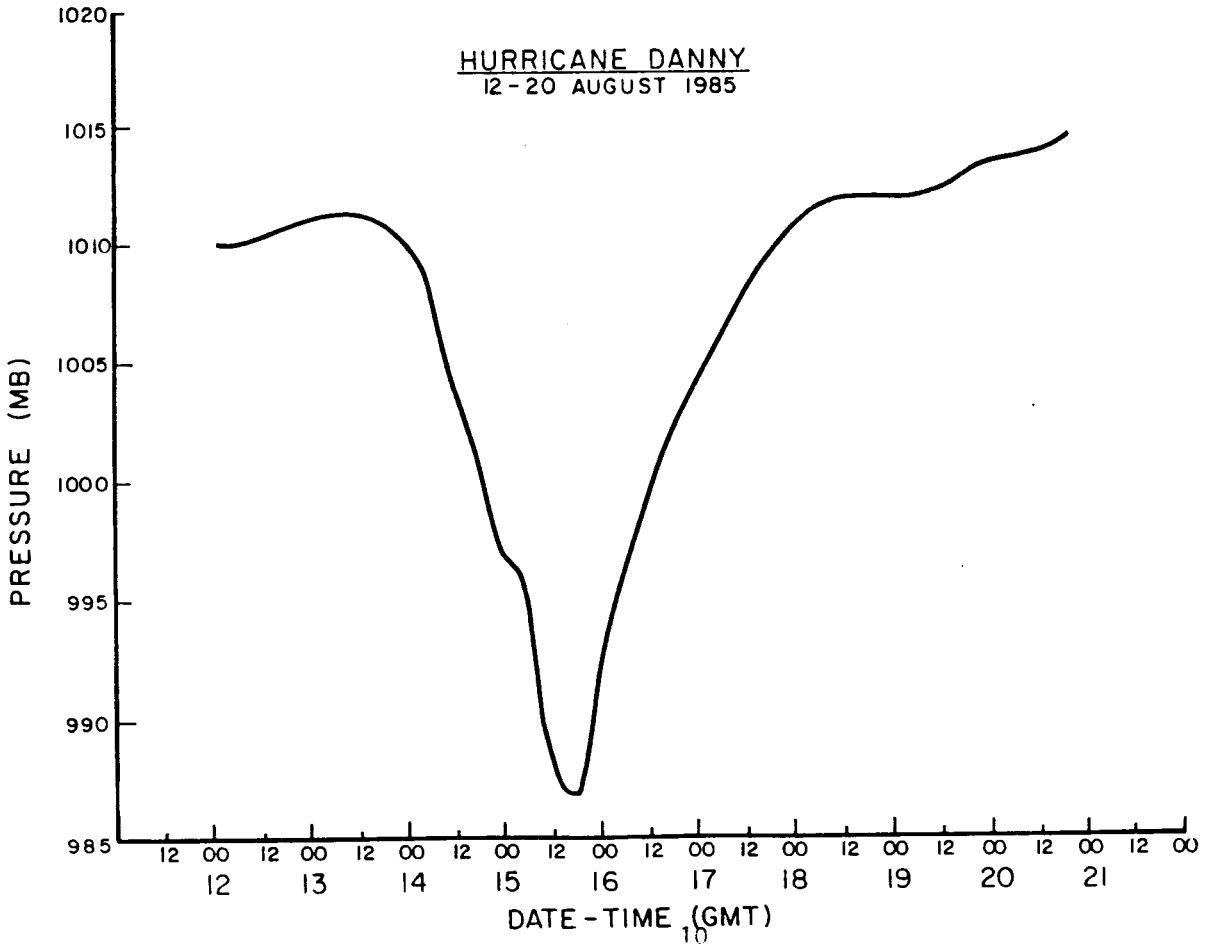

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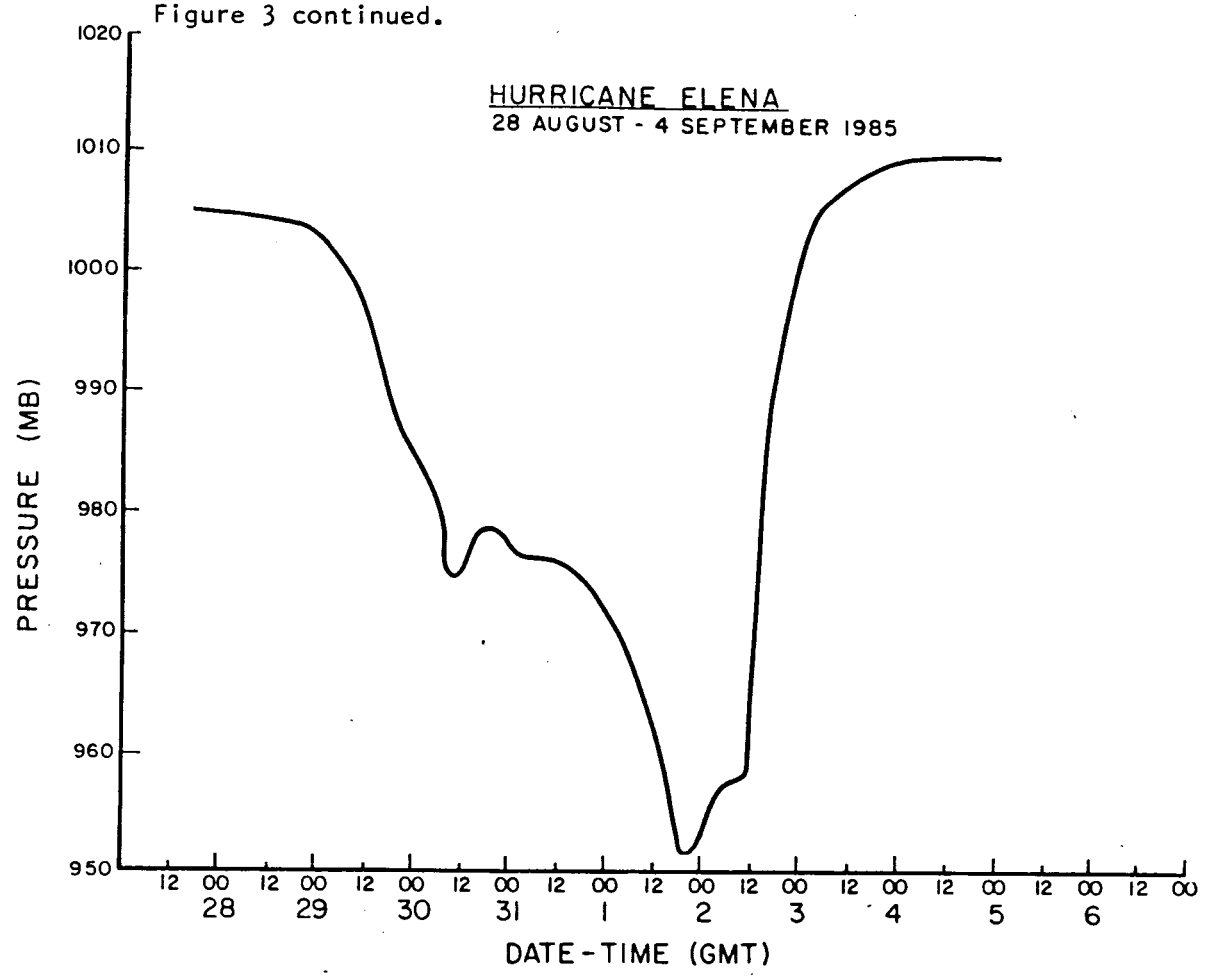

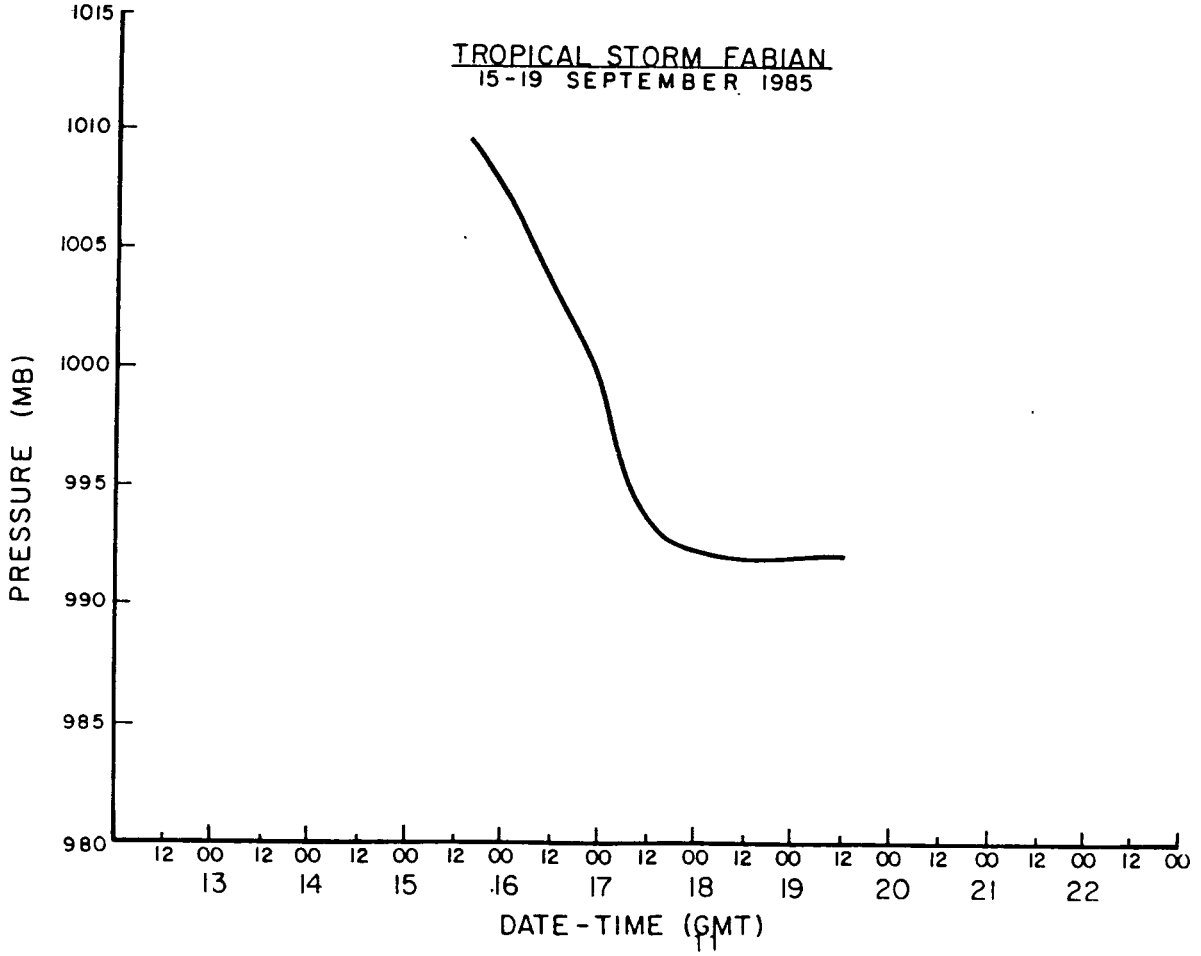

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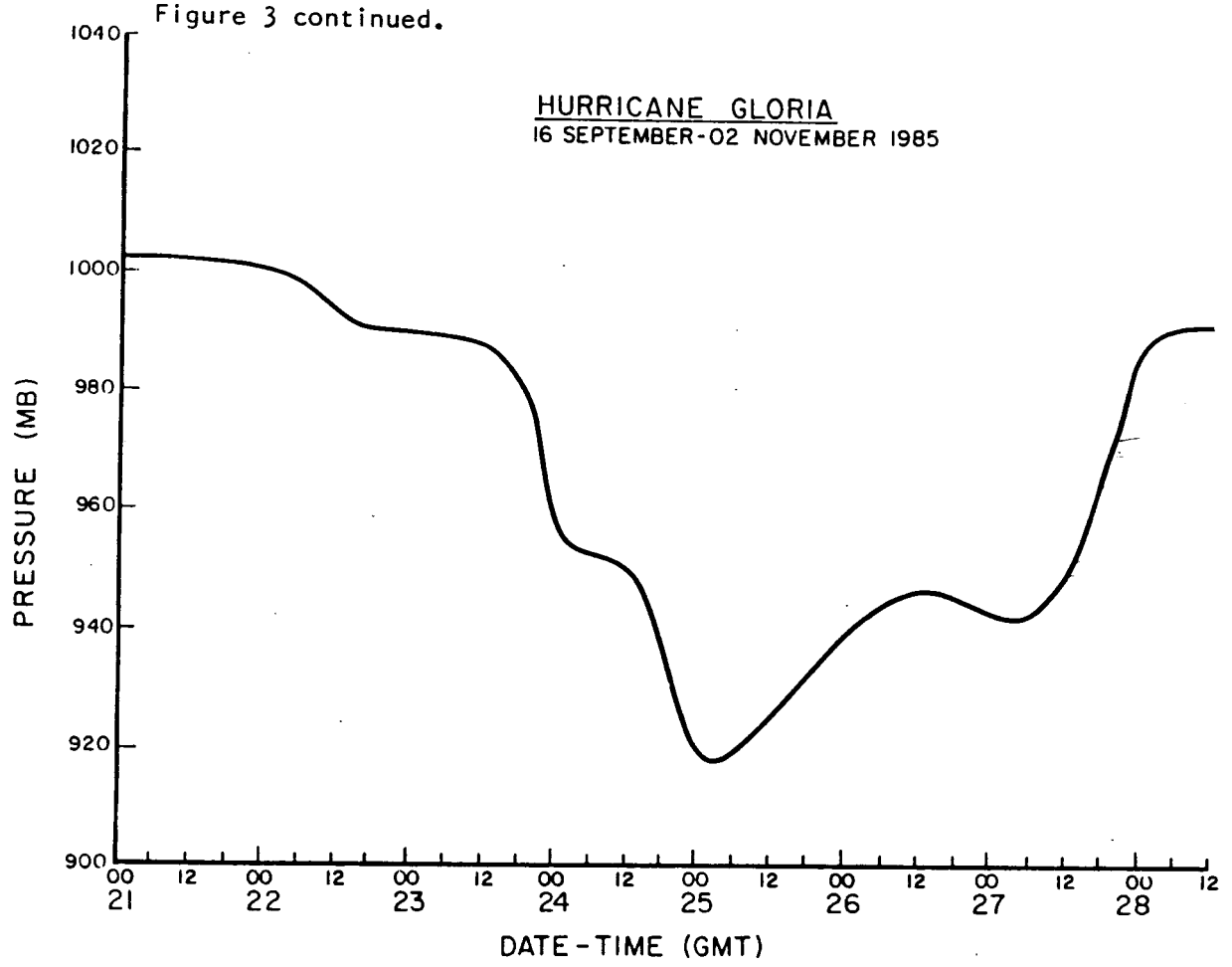

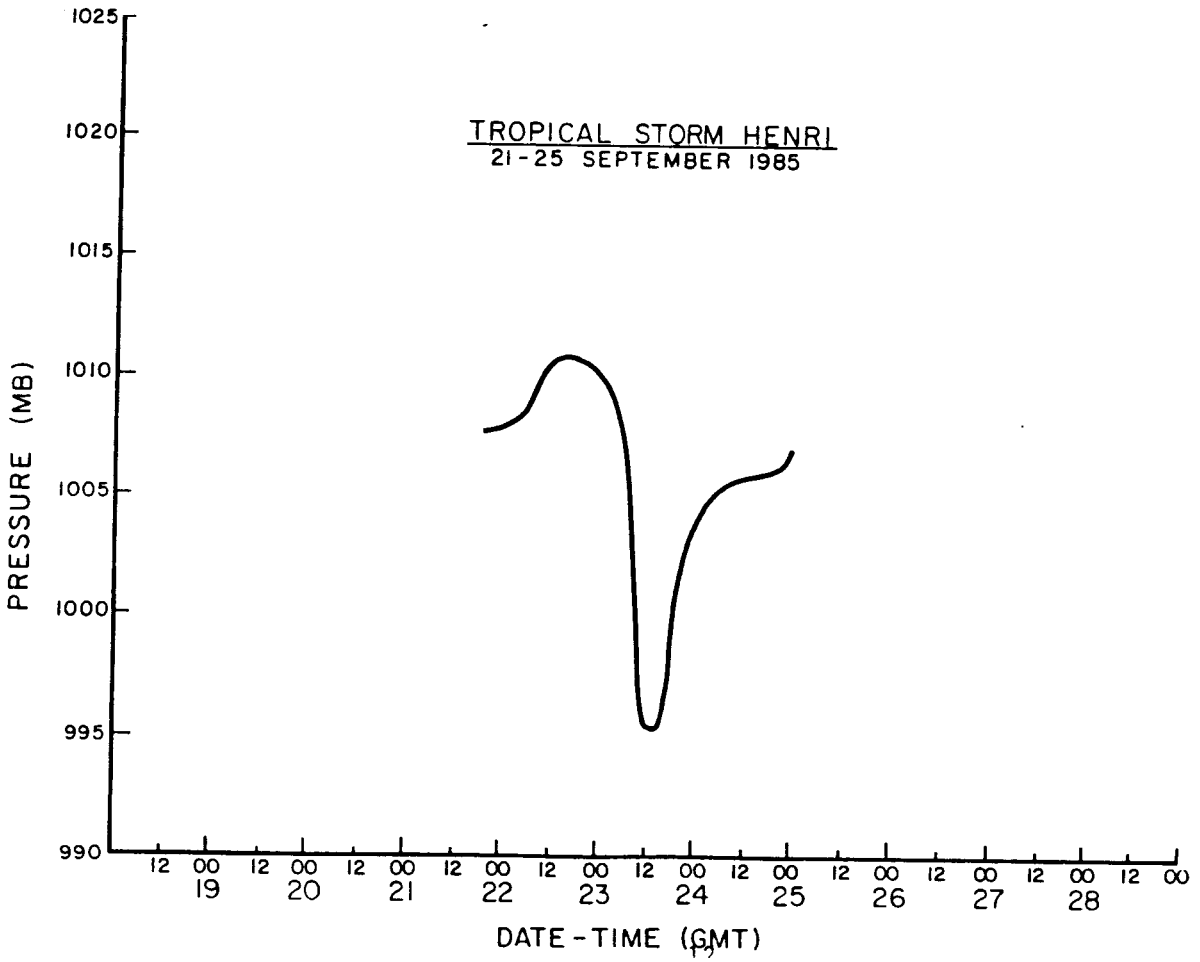

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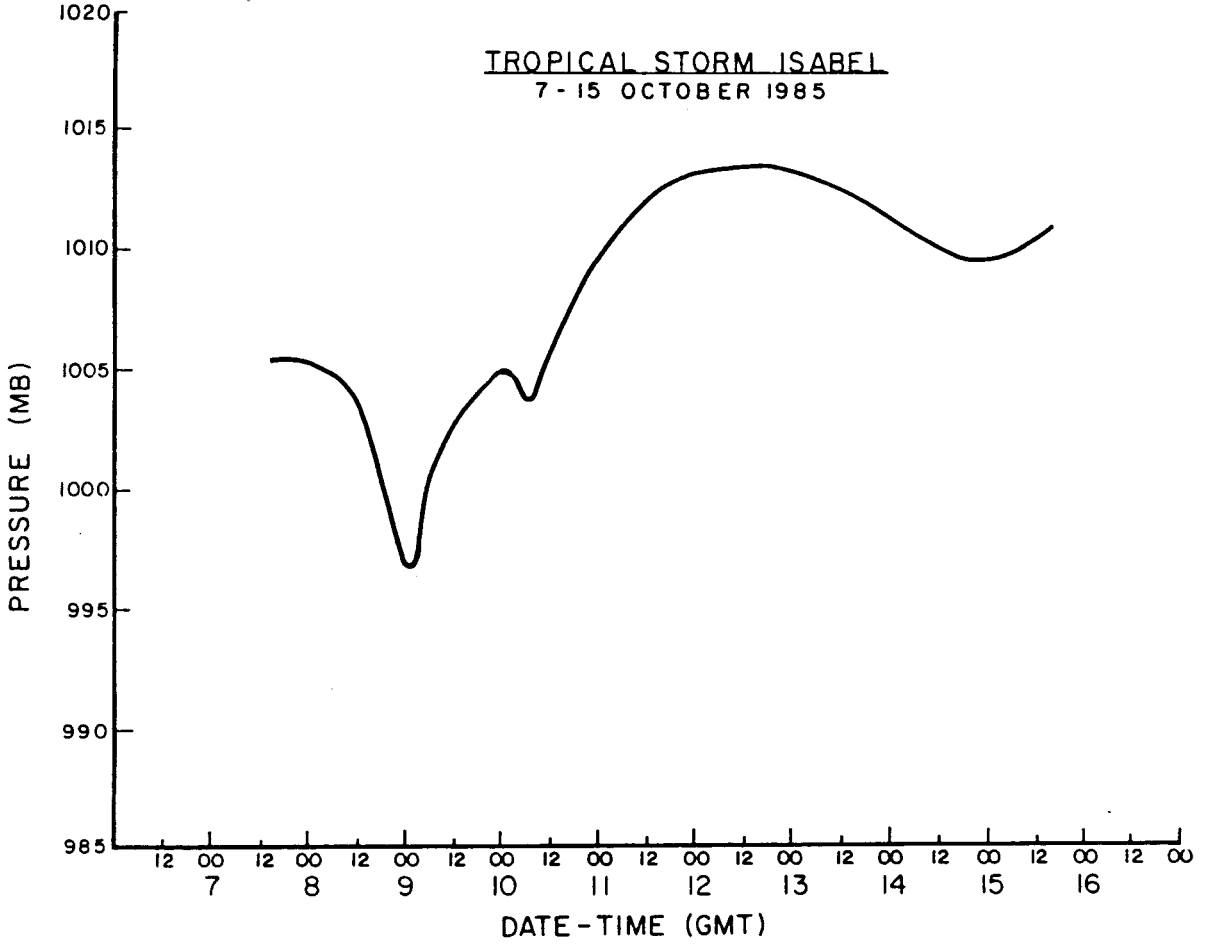

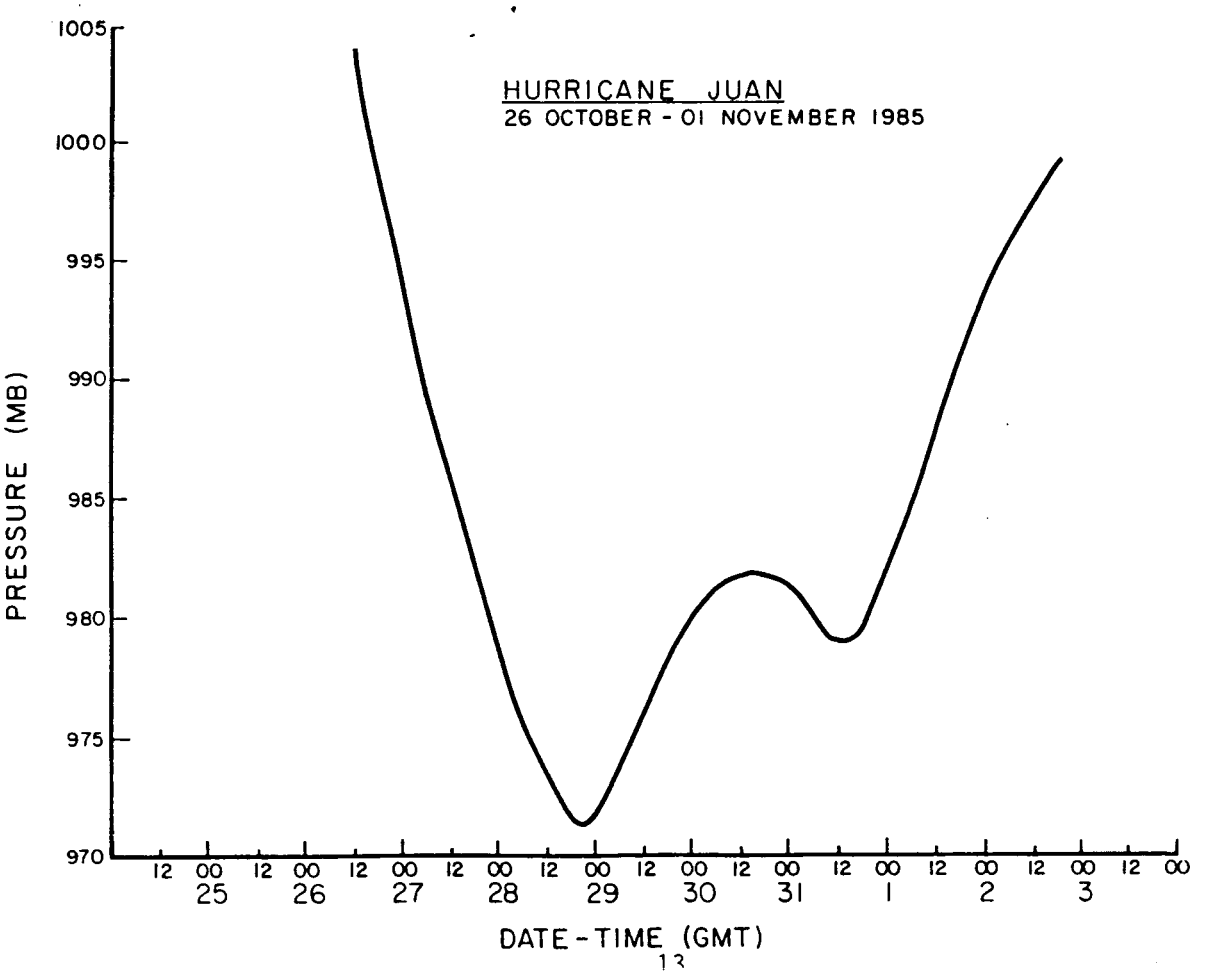

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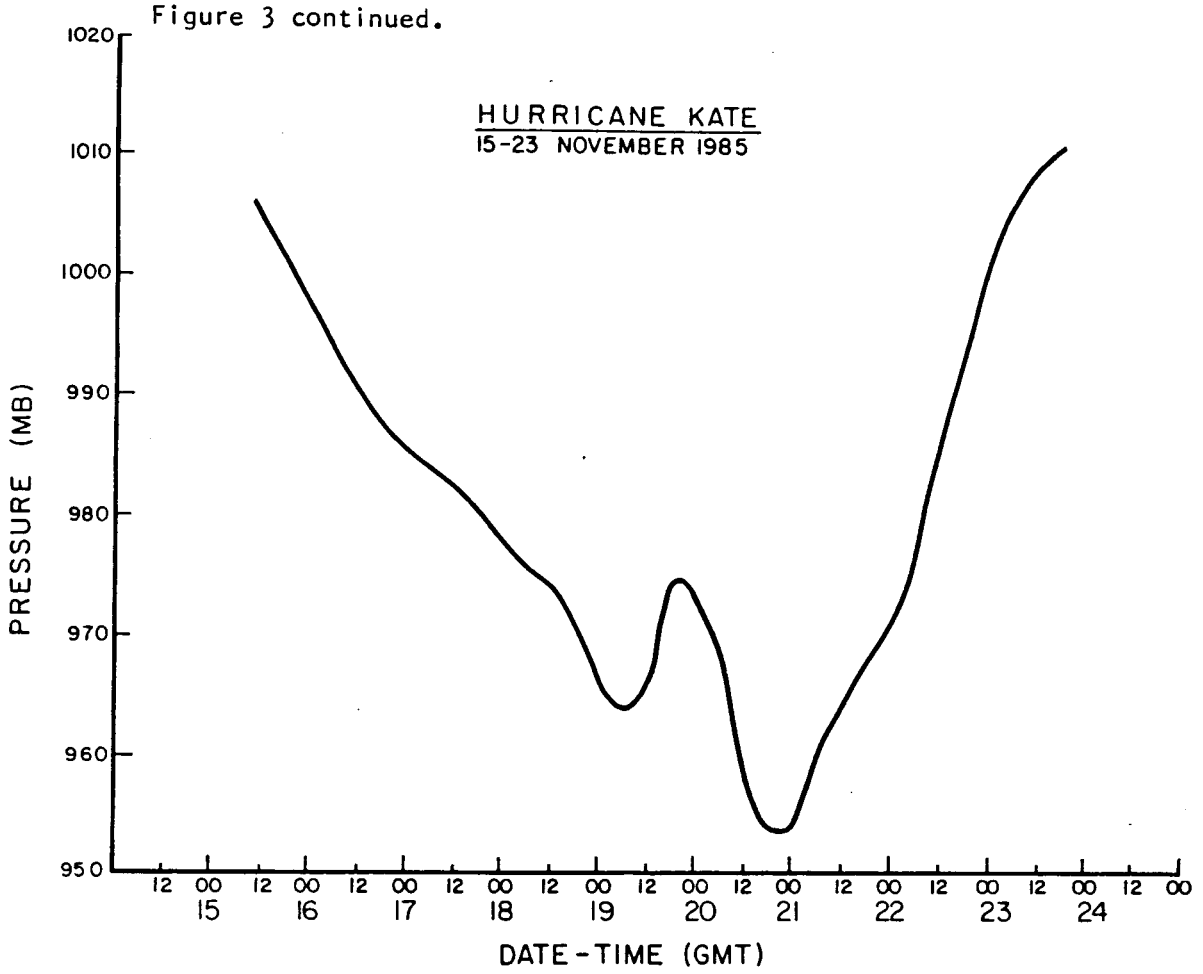

Table 1. Verification of 1985 tropical storm and hurricane forecasts.

		forecast period (hours)			
model	initial	12	24	48	72
Official	17	50	104	217	331
(no. of cases)	(175)	(173)	(150)	(105)	(68)
NHC67	16	52	116	256	449
	(166)	(166)	(146)	(106)	(72)
NHC72	17	56	128	279	406
	(176)	(174)	(150)	(110)	(77)
HURRAN	19	51	113	221	268
	(67)	(65)	(53)	(39)	(31)
CLIPER	17	55	125	275	416
	(176)	(174)	(150)	(110)	(77)
NHC73	16	51	110	257	473
	(77)	(77)	(68)	(48)	(31)
SANBAR	16	50	108	256	400
	(75)	(75)	(62)	(42)	(27)
MFM	10	62	88	140	210
	(53)	(53)	(48)	(34)	(21)
NHC83		50	93	195	296
		(147)	(126)	(89)	(61)

Table 2a. Landfall prediction errors for 1985 tropical storms and hurricanes.

Following is a list of landfall prediction errors for tropical storms and hurricanes during 1985. each error represents the distance (in nautical miles) from the predicted landfall point determined from the "Official" forecast issued 24 hours prior to the actual landfall pointdetermined from the Best Track. Only tropical storms and hurricanes are included. In some cases the storm crossed an island when predicted to pass offshore. In such cases the perpendicular distance from the landfall point to the forecast track is taken as the landfall prediction error.

Storm Name	Category at Landfall	Date/Time(Z) of Landfall	Landfall Forecast Error (n.m.)	Location and remarks
Bob	Hurricane	7/25/0300Z	60	Near Beaufort, S C.
Danny	Hurricane	8/15/1630Z	60	Lake Charles, La.
Elena	Hurricane	9/02/1300Z	100	Near Biloxi, Ms.
Gloria	Hurricane	9/27/1600Z	120	Western Long Island, NY.
Henri	Tropical Storm	9/24/2100Z	60	Eastern Long Island, NY.
Isabel	Tropical Storm	10/10/2100Z	60	New Brunswick, Ga.
Juan	Hurricane	10/29/1200Z	200	Morgan City, La.
Kate	Hurricane	11/21/2230Z	25	Mexico Beach, Fl.

Table 2b. Sixteen-year summary of errors in the prediction of the points of Atlantic tropical storms and hurricanes during the period of 1970-1985.

	United States Landfalls	All Landfalls
1985 Mean 24 Hour Landfall Prediction Error (number of cases)	86 (08)	86 (08)
16 year average 1970-1985	54 (33)	56 (68)

Table 3a. Tropical cyclone warning lead time of 1985 United States landfalling tropical storms and hurricanes.

Storm Name	Category at Landfall	Date/Time (Z) of Landfall	Location of Landfall	Type and Time (Z) of Warnings Issued for Point of Landfall	Warning Lead Time (hours)
ANA	(No U.S. Landfall)				
BOB	Tropical Storm	7/23/16Z	Near Naples, Fl.	Gale Warnings, Florida Keys from Craig Key westward and the southwest Florida coast from Flamingo to Venice 7/22/22Z.	18
	Tropical Storm (moved offshore)	7/24/00Z	Near Vero Beach, Fl.	Gale Warnings Cape Canaveral, Fl. to Craig Key, 7/23/16Z.	8
	Hurricane	7/25/03Z	Near Beaufort, SC.	Gale Warnings north of Cape Canaveral, to St. Augustine, Fl., 7/24/10Z.	17
				Gale Warnings, Savannah,Ga. to Little River Inlet, SC., 7/24/16Z.	11
				Hurricane Warnings, Savannah,Ga. to Little River Inlet, SC., 7/24/22Z.	5
				Gale Warnings, North of Savannah,Ga. to Cape Fear,NC., 7/25/10Z.	after landfall
CLAUDETTE	(No U.S. Landfall)				
DANNY	Hurricane	8/15/16Z	Near Pecan Island, La.	Gale Warnings east of Port Arthur,Tx. to Mobile,Al., 8/13/22Z.	42
				Gale Warnings, Port Arthur to Port Aransas, Tx., 8/14/16Z.	24
				Hurricane Warnings, Port Arthur,Tx. to mouth of the Mississippi River, 8/14/22Z.	18
				Gale Warnings, east of the mouth of the Mississippi River to Pensacola, 8/15/04Z.	12
ELENA	Hurricane	9/02/13Z	Near Biloxi, Ms.	Gale Warnings, Florida Keys south of Craig Key to Dry Tortugas, 8/28/19Z.	passed offshore
				Hurricane Warnings, Morgan City,La. to Pensacola, Fl., 8/29/13Z.	96
				Hurricane Warnings, east of Pensacola to Apalachicola, Fl., 8/30/04Z.	81

Table 3a continued.

				Hurricane Warnings, east of Apalachicola to Tarpon Springs, Fl., 8/30/22Z.	63
				Gale Warnings, south of Tarpon Springs to Venice,Fl.,8/30/22Z.	63
				Hurricane Warnings, south of Tarpon Springs to Sarasota, Fl., 8/31/04Z.	57
				Gale Warnings, south of Venice to Fort Myers, Fl., 8/31/04Z.	57
				Hurricane Warnings, west of Apalachicola, Fl. to Bay St. Louis, Ms., 9/01/18Z.	19
				Gale Warnings, west of Bay St. Louis, Ms. to the Mississippi River., 9/01/22Z.	15
				Hurricane Warnings, west of the Mississippi River to Grande Isle, La., including New Orleans, 9/02/00Z.	13
FABIAN	(No U.S. Landfall)				
GLORIA	Hurricane	9/27/05Z	Cape Hatteras, NC.	Hurricane Warnings, Cape Romain, SC. to Cape Henry, Va., 9/26/10Z.	19
	Hurricane	9/27/16Z	Long Island, NY.	Hurricane Warnings, north of Cape Henry, Va. to Plymouth, Ma., 9/26/22z.	18
				Hurricane Warnings, north of Plymouth to Merrimack River, Ma., 9/27/04Z.	12
				Hurricane Warnings, north of Merrimack River, Ma. to East Port, Me., 9/27/14Z.	2
HENRI	Tropical Storm	9/24/21Z	Long Island, NY.	Gale Warnings, Virginia Beach, Va. to Cape Henlopen, De., 9/23/12Z.	33
				Gale Warnings, north of Cape Henlopen, De. to Cape Cod, Ma., 9/23/16Z.	29
ISABEL	Tropical Storm	10/10/20Z	Near Florida/Georgia border.	Gale WArnings, Cape Canaveral,Fl. to Savannah, Ga., 10/10/01Z.	20
JUAN	Hurricane	10/29/12Z	Near Morgan City, La.	Gale Warnings, Gulfport, Ms. to Port Arthur,Tx., 10/27/10Z.	50
				Hurricane Warnings, east of Port Arthur, Tx. to Mobile, Al., 10/27/20Z.	40

Table 3a continued.

				Gale Warnings, Port O'Connor to Port Arthur, Tx., 10/27/20Z.	40
				Gale Warnings, east of Mobile, Al. to Apalachicola, Fl., 10/27/20Z.	40
				Gale Warnings, south of Port O'Connor to Brownsville, Tx., 10/28/16Z.	20
				Hurricane Warnings, east of the mouth of the Mississippi River to Mobile, Al., 10/29/10Z.	2
	Tropical Storm	10/31/18Z	Near Pensacola, Fl.	Gale Warnings, south of Apalachicola to Fort Myers, Fl., 10/31/13Z.	5
KATE	Hurricane	11/21/22Z	Mexico Beach, Fl.	Gale Warnings, Jupiter Inlet southward through the Florida Keys to Dry Tortugas, 11/18/16Z.	passed offshore
				Hurricane Warnings, Jupiter Inlet southward through the Florida Keys to Dry Tortugas and northward along the Florida west coast to Fort Myers., 11/18/21Z.	passed offshore
				Hurricane Warnings, Bay St. Louis, Ms. to St. Marks, Fl., 11/20/22Z.	24
				Gale Warnings, west of Bay St. Louis, Ms. to Grand Isle, La. and east of St. Marks to Cedar Key, Fl., 11/20/22Z.	24

Table 3b. Average warning lead times for all tropical storms and hurricanes and for hurricanes alone, which made landfall on the mainland of the United States during 1985 and during the 16 year period of 1970-1985.

	All Tropical Storms and Hurricanes		All Hurricanes	
	1985	1970-1985	1985	1970-1985
Average Lead Time(hours)	35	26	37	29
(number of cases)	(8)	(39)	(6)	(19)

Table 4. Summary of North Atlantic Tropical Cyclone Statistics, 1985

Cyclone Number	Name	Class [1]	Dates [2]	Maximum Sustained Winds (kn)	Lowest Pressure (mb)	U.S. ($ Damage) (millions)	Deaths
1	ANA	T	7/15-7/19	60	996		
2	BOB	H	7/21-7/26	65	1002		
3	CLAUDETTE	H	8/09-8/17	75	980		
4	DANNY	H	8/12-8/20	80	987	50	1
5	ELENA	H	8/28-9/04	110	951	1250	4
6	FABIAN	T	9/15-9/19	55	992		
7	GLORIA	H	9/16-10/02	125	919	900	8
8	HENRI	T	9/21-9/25	50	996		
9	ISABEL	T	10/07-10/15	60	997		
10	JUAN	H	10/26-11/01	75	971	1500	12
11	KATE	H	11/15-11/23	105	953	300	5

1

T: Tropical storm, wind speed 34 - 63 kn.
H: Hurricane, wind speed 64 kn or higher.

2

The day begins at 0000 GMT.

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601 GMT 5/85

401 GMT /16/85

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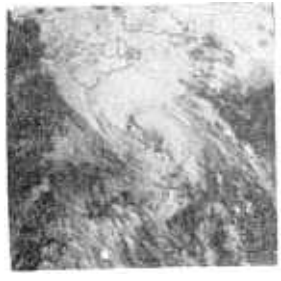

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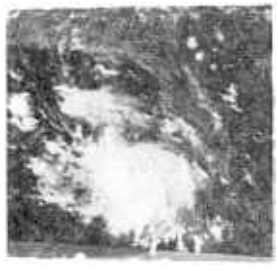

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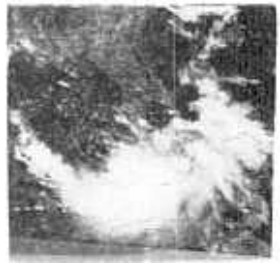

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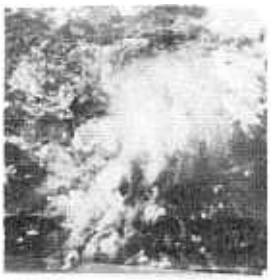
CLAUDETTE



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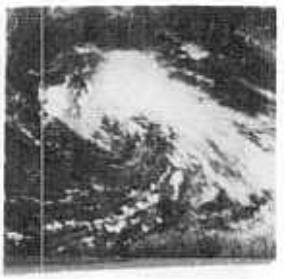

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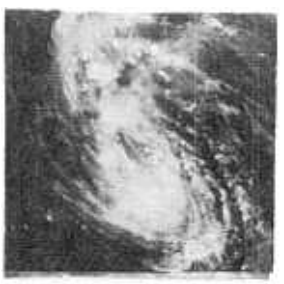

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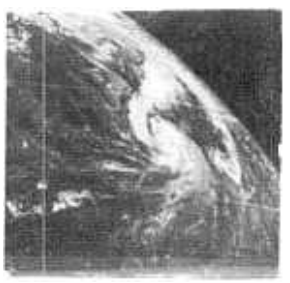

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DANNY

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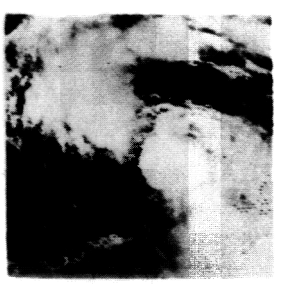

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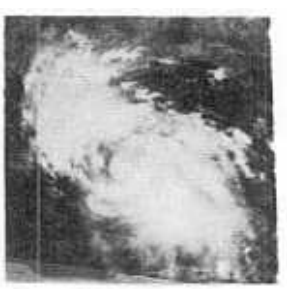
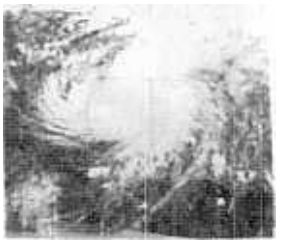


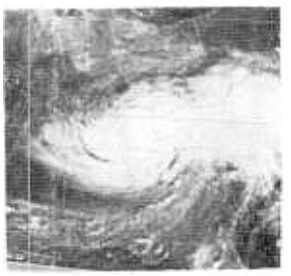
1531 GMT 8/14/85
1002 mb

igur tinued

331 85
988



31 GMT /16/85



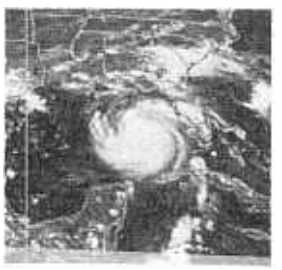
1631 8/1 /85
1009

830 GMT 8/18/85
1012

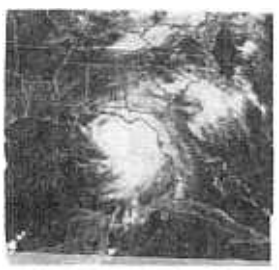
731 GMT 8/19/85
1013

2001 GMT /27

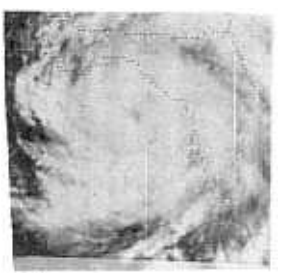
1901 8/28/85
1006



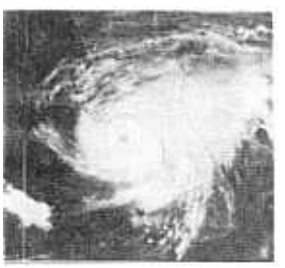
1931 GMT 8/29/85
990



701 GMT 8/30/85
978

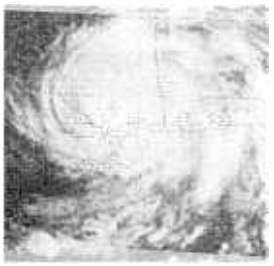


2001 GMT 8/31/85
973

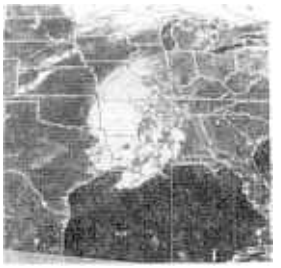


GMT 9/01/85
957

Figure 4 continued



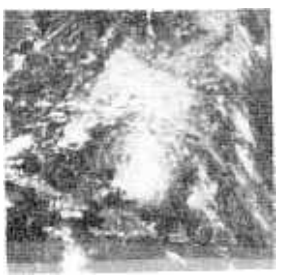
1431 GMT 9/02/85
970 mb



1831 GMT 9/03/85
1008 mb

1831 GMT 9/04/85
1010 mb

FABIAN



1801 GMT 9/15/85
1004 mb

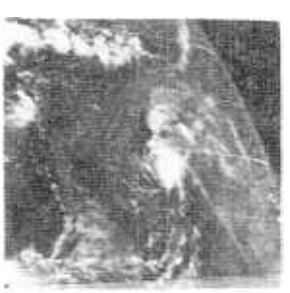
1601 GMT 9/16/85
1004 mb

1201 GMT 9/17/85
994 mb

1831 GMT 9/18/85
994 mb

GLORIA

1831 GMT 9/19/85
1006 mb



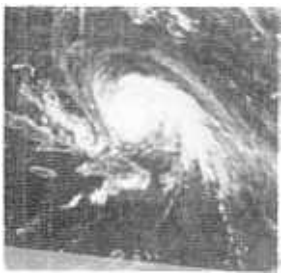
1501 GMT 9/20/85
1002 mb

1831 GMT 9/21/85
1000 mb

igur continued

1501 GMT 9/22/85

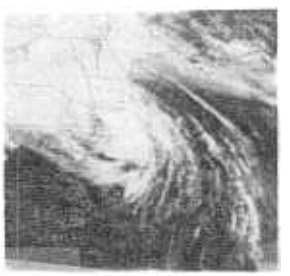
1501 9/23/85
984 mb



1502 GMT 9/24/85
940

1831 GMT 9/25/85
933

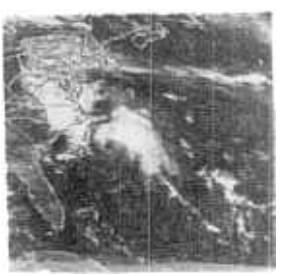
1901 GMT 9/26/85
944



1531 GMT 8/27/85
958 mb

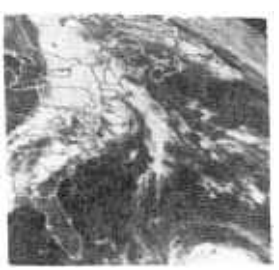
HENRI

1401 9/21/85
1008



1601 GMT 9/22/85
mb

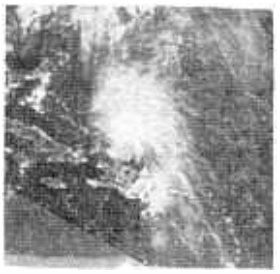
1401 GMT 9/23/85
996 mb



1601 GMT 9/24/85
1006 mb

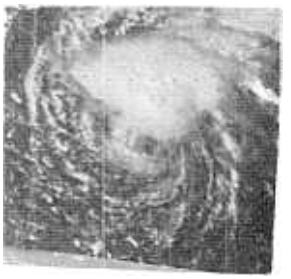
Figure 4 continued

ISABEL

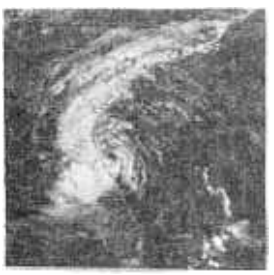


1901 GMT 10 7/85
1005 mb

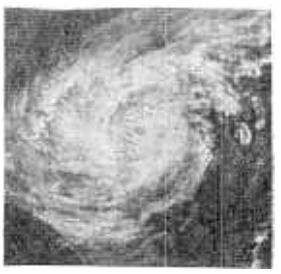
331 GMT 10/08/85
1002 mb



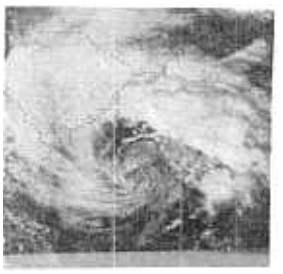
2001 GMT 10/09/85
1004 mb



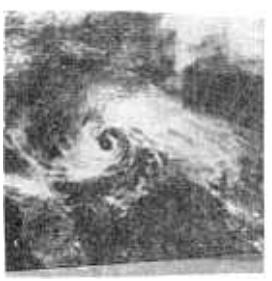
163 GMT 10/10/85
1008 mb



1901 GMT 10/11/85
1013 mb



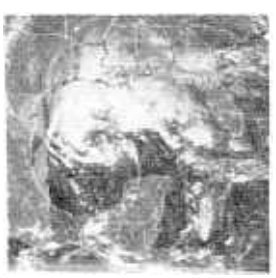
1901 GMT 10/12/85
1013 mb



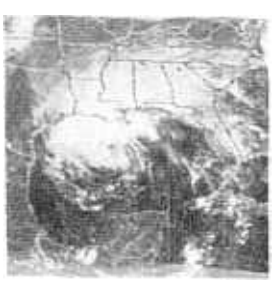
1730 GMT 10/13/85
1013 mb

1531 GMT 10/14/85
1010 mb

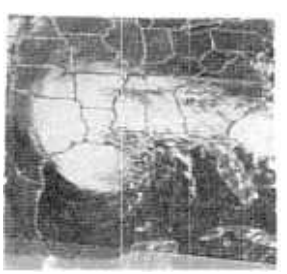
JUAN



1830 GMT 10/26/85
996 mb



1830 GMT 10/27/85
984 mb

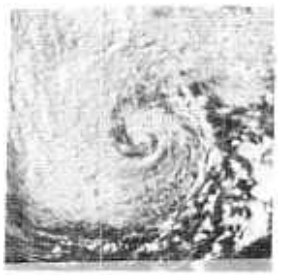


1800 GMT 10/28/85
971 mb

Figure 4 continued

1700 GMT 10/29/85
976 mb

1830 GMT 10/30/85
982 mb

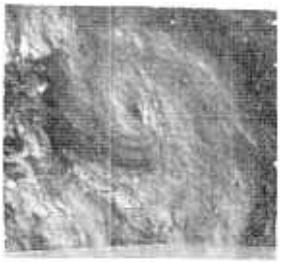


1430 GMT 10/31/85
980 mb

KATE

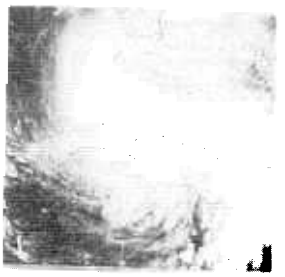
1831 GMT 11/15/85
999 mb

1701 GMT 11/16/85
987 mb

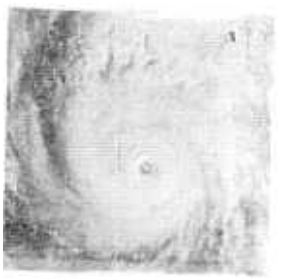


2001 GMT 11/17/85
977 mb

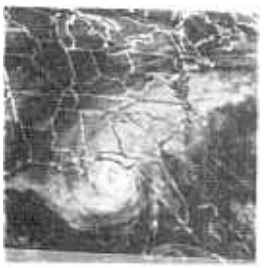
401 GMT 11/18/85
974 mb



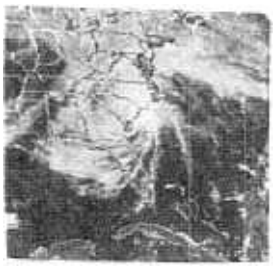
1630 GMT 11/19/85
975 mb



1431 GMT 11/20/85
955 mb



1801 GMT 11/21/85
967 mb



1601 GMT 11/22/85
995 mb

OFFICIAL FORECASTS — ANA — JUL 16-JUL 19 1985

DATE/TIME GMT	BEST TRACK LAT.	LONG.	OPERATIONAL POSITION ERROR LAT.	LONG.	NM	12HR FORECAST LAT.	LONG.	ERROR NM	24HR FORECAST LAT.	LONG.	ERROR NM	36HR FORECAST LAT.	LONG.	ERROR NM	48HR FORECAST LAT.	LONG.	ERROR NM	72HR FORECAST LAT.	LONG.	ERROR NM
071618	31.3	69.6	31.0	67.0	27	32.0	67.5	60	33.0	67.5	138									
071700	32.2	67.9	31.5	66.5	49	32.5	67.5	80	33.5	67.5	189				34.5	67.5	491	35.5	68.0	
071706	33.3	67.2	33.5	66.9	30	33.8	66.6	108	35.5	66.5	223				35.0	66.5	597	37.0	64.0	
071712	34.4	67.3	34.5	67.3	5	35.0	67.0	78	37.5	66.0	617				36.5	64.5		41.0	62.0	
071718	35.6	67.3	35.0	67.3	15	37.0	67.0	109	39.5	65.5	201				38.0	65.0		41.0	65.0	
071800	37.2	66.8	37.0	66.5	15	40.0	66.0	54	43.0	60.0	78				42.5	61.0		45.0	55.0	
071806	39.1	65.9	39.0	65.5	15	42.5	62.5	41	45.0	58.5					46.5	52.0		52.0	40.0	
071812	41.0	64.1	41.0	64.0	9	44.5	60.0	12	46.0	55.0					48.0	50.0		54.0	37.0	
071818	42.5	62.5	42.5	62.5	0	46.5	55.0		46.5	56.5										
071900	44.2	60.3	44.0	60.5		47.0	55.0													
MEAN VECTOR ERRORS(NM)					19			68			175			0			544			0
NUMBER OF CASES					8			8			6			0			2			0

OFFICIAL FORECASTS — BOB — JUL 22-JUL 25 1985

DATE/TIME GMT	BEST TRACK LAT.	LONG.	OPERATIONAL POSITION ERROR LAT.	LONG.	NM	12HR FORECAST LAT.	LONG.	ERROR NM	24HR FORECAST LAT.	LONG.	ERROR NM	36HR FORECAST LAT.	LONG.	ERROR NM	48HR FORECAST LAT.	LONG.	ERROR NM	72HR FORECAST LAT.	LONG.	ERROR NM
072218	26.2	83.3	26.0	84.0	16	25.2	84.0	49	26.5	84.0	146				27.0	84.0	263	28.5	84.0	
072300	26.5	83.6	26.5	83.5	15	27.0	83.5	89	27.5	83.5	179				28.5	83.5	232	26.5	83.5	
072306	26.9	82.9	26.5	82.9	5	26.5	82.2	75	27.0	81.5	83				29.0	81.5	215	32.0	80.0	
072312	26.9	82.3	26.5	82.2	5	27.0	81.1	84	27.5	80.5	114				29.5	79.5	321	35.0	79.0	
072318	26.4	81.1	26.5	81.2	16	27.7	79.6	69	28.5	79.5	171				31.0	78.0		35.5	77.0	
072400	27.2	80.3	27.0	80.1	15	28.7	79.0	59	30.3	79.0	135				33.5	77.0		36.5	77.0	
072406	28.3	80.4	28.0	80.3	15	30.0	80.0	17	32.5	80.0	54				35.0	79.0				
072412	29.4	80.4	29.5	80.5	5	32.5	80.5	24	34.7	81.0										
072418	30.5	80.5	30.5	80.5	5	34.5	80.5	53	36.0	80.0										
072500	31.6	80.5	31.7	80.5	5	35.0	80.0		37.5	80.0										
072506	32.9	80.7	33.0	80.8																
072512	34.8	80.5	35.0	79.3																
MEAN VECTOR ERRORS(NM)					11			56			118			0			258			0
NUMBER OF CASES					10			10			8			0			4			0

OFFICIAL FORECASTS — CLAUDETTE AUG 11-AUG 16 1985

DATE/TIME GMT	BEST TRACK LAT.	LONG.	OPERATIONAL POSITION ERROR LAT.	LONG.	NM	12HR FORECAST LAT.	LONG.	ERROR NM	24HR FORECAST LAT.	LONG.	ERROR NM	36HR FORECAST LAT.	LONG.	ERROR NM	48HR FORECAST LAT.	LONG.	ERROR NM	72HR FORECAST LAT.	LONG.	ERROR NM
081100	34.0	74.0	33.8	74.1	12	34.2	71.6	7	34.5	69.0	11									
081106	34.2	72.7	34.1	72.7	6	34.8	73.0	19	35.5	67.5	114									
081112	34.5	71.5	34.2	72.1	34	35.5	69.0	31	35.5	67.5	81									
081118	34.7	70.3	34.5	70.9	31	34.5	68.5	50	35.5	66.0	53									
081200	34.8	69.1	34.5	69.3	9	35.0	66.0	44	35.5	64.5	42									
081206	34.7	67.7	34.5	68.0	19	35.0	64.0	38	35.5	63.5	84									
081212	34.5	66.4	34.5	66.5	14	34.5	63.5	53	34.5	61.5	102									
081218	34.4	64.9	34.4	65.0	5	34.5	61.5	133	34.0	60.0	121									
081300	34.5	63.2	34.5	63.0	5	34.5	59.5	57	34.0	58.0	91									
081306	34.5	61.5	34.5	61.7	5	34.5	57.5	44	34.0	56.0	324									
081312	34.5	59.5	34.5	59.7	5	34.5	55.5	38	34.0	54.0	192									
081318	34.5	57.5	34.5	57.5	0	34.5	53.5	57	34.0	52.0	130									
081400	34.5	55.5	34.5	55.5	0	34.5	51.5	44	34.0	50.0	79									
081406	34.5	53.5	34.5	53.5	0	34.5	49.5	12	34.0	48.0	94									
081412	34.5	51.5	34.5	51.5	0	34.5	47.5	44	34.0	46.0	120									
081418	34.5	49.5	34.5	49.5	0	34.5	45.5	12	34.0	44.0	81									
081500	34.5	47.8	34.5	47.8	0	34.5	43.5	44	34.0	42.0	88									
081506	34.5	46.2	34.5	46.3	5	34.5	41.5	33	34.0	40.0	81									
081512	34.6	44.8	34.5	44.8	5	34.5	39.5	72	34.0	38.0	114									
081518	34.8	43.5	34.5	43.5	5	34.5	37.5	109	34.0	36.0	196									
081600	35.0	42.2	34.5	42.2	5	34.5	35.5	44	34.0	34.0										
081606	35.2	41.0	34.5	41.0	5															
081612	35.5	39.8	34.5	39.8	5															
081618	35.8	38.5	34.5	38.5	5															
081700	36.2	37.2	34.5	37.2	5															
081706	36.5	35.9	34.5	35.9	5															
081712	36.9	34.5	34.5	34.5	5															
081718	37.5	33.0	34.5	33.0	5															
081800	38.2	31.5	34.5	31.5	5															
081806	39.2	31.5	38.5	32.5																
081812	40.7	28.7	41.0	29.5																
081818	42.6	25.7	42.7	26.0																
MEAN VECTOR ERRORS(NM)					26			47			108			0			239			498
NUMBER OF CASES					21			21			20			0			14			10

Table 5. Best tracks, initial and forecast positions, initial position error and forecast errors 1985 tropical cyclones.

OFFICIAL FORECASTS — DANNY AUG 14-AUG 16 1985

DATE/TIME GMT	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	OPERATIONAL ERROR NM	12HR FORECAST LAT.	12HR FORECAST LONG.	12HR FORECAST ERROR NM	24HR FORECAST LAT.	24HR FORECAST LONG.	24HR FORECAST ERROR NM	36HR FORECAST LAT.	36HR FORECAST LONG.	36HR FORECAST ERROR NM	48HR FORECAST LAT.	48HR FORECAST LONG.	48HR FORECAST ERROR NM	72HR FORECAST LAT.	72HR FORECAST LONG.	72HR FORECAST ERROR NM
081400	23.7	87.8	23.7	87.9		25.0	89.5	58	26.5	90.5	117				33.5	91.0	168			
081406	24.4	88.3	24.6	89.2	51	25.5	90.0	28	26.5	90.0	43				33.0	91.5	75			
081412	25.1	89.3	25.0	90.5	52	26.5	92.0	16	28.0	92.5	20				33.5	95.0				
081418	25.9	90.3	25.8	90.8	22	28.0	92.5	47	30.0	93.5	64				35.0	93.5				
081500	26.8	91.5	26.7	91.5	17	30.0	92.5	21	31.5	93.5	19									
081506	27.6	92.6	27.4	92.1	20	30.5	93.0	36	33.0	93.0	73									
081512	28.6	93.6	28.5	93.5	7	31.0	93.0	31	33.5	93.0										
081518	30.0	94.5	30.0	94.5		32.5	94.0	56	34.5	90.0										
081600	31.0	95.0	30.9	95.0																
081606	32.0	92.0	31.9	92.0																
MEAN VECTOR ERRORS(NM)					1			35			56			0			122			0
NUMBER OF CASES					8			8			6			0			2			0

OFFICIAL FORECASTS — ELENA AUG 28-SEP 02 1985

DATE/TIME GMT	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	OPERATIONAL ERROR NM	12HR FORECAST LAT.	12HR FORECAST LONG.	12HR FORECAST ERROR NM	24HR FORECAST LAT.	24HR FORECAST LONG.	24HR FORECAST ERROR NM	36HR FORECAST LAT.	36HR FORECAST LONG.	36HR FORECAST ERROR NM	48HR FORECAST LAT.	48HR FORECAST LONG.	48HR FORECAST ERROR NM	72HR FORECAST LAT.	72HR FORECAST LONG.	72HR FORECAST ERROR NM
082818	22.6	80.3	22.5	80.3		23.5	83.5	23	25.0	85.0	64				28.0	87.0	16	32.0	89.0	325
082900	23.1	81.3	23.1	81.3		24.5	84.5	40	26.5	86.5	8				30.0	88.5	143	34.0	88.0	358
082906	24.0	82.5	24.0	82.5		25.5	86.5	55	28.5	89.5	133				33.0	90.5	272	35.5	82.5	419
082912	25.0	83.8	25.0	83.8		27.5	87.5	72	29.5	89.5	150				34.0	89.0	214	34.0	81.0	363
082918	25.9	85.3	26.0	86.0	12	27.9	88.7	51	29.5	89.5	102				33.0	87.0	234			
083000	26.9	86.7	26.8	86.7		28.5	89.5	35	30.5	89.5	123				33.0	86.0	344			
083006	27.9	87.9	27.8	87.1		30.0	87.5	63	30.5	87.0	143				33.0	84.5	279			
083012	27.9	87.9	27.9	87.6		30.0	87.5	84	30.0	87.0	152				32.0	84.0	258			
083018	28.3	88.3	28.3	87.0	17	30.0	87.5	137	30.0	87.0	47				30.0	84.0	210			
083100	28.4	86.0	28.5	86.1		30.0	84.5	119	29.5	84.5	99				30.0	83.0	125	30.5	82.0	444
083106	28.6	85.3	28.5	85.5		29.5	83.5	118	29.5	83.5	86				30.0	81.0	115	30.0	78.0	
083112	28.8	84.4	28.8	84.4		29.5	82.5	129	29.5	82.0	140				30.5	80.5	315	31.5	80.0	
083118	28.8	83.5	28.8	83.5		28.5	82.0	64	28.5	82.0	94				29.5	82.0	435	32.0	79.0	
090100	28.8	82.5	28.8	82.5		28.5	82.0	53	28.5	82.0	115				29.5	82.5	453	29.5	82.0	
090106	28.8	81.5	28.8	81.5		28.5	82.0	64	28.5	82.0	192				28.5	82.0		28.0	87.0	
090112	28.8	80.6	28.8	80.6		28.5	82.0	64	28.5	82.0	146				29.5	82.0		31.0	89.0	
090118	28.8	79.9	28.8	79.9		30.0	82.0	71	31.5	82.0	72				33.0	82.0		31.0	90.0	
090200	28.9	79.4	28.8	79.5		31.0	82.0	115	33.0	82.0					33.0	82.0				
090206	29.2	78.9	29.2	78.9		31.0	82.0	155	32.5	82.0					33.0	82.0				
090212	30.2	78.3	30.2	78.3		31.0	82.0	20	32.5	82.0					33.0	82.0				
090218	31.0	78.4	31.0	78.5											37.0	82.0				
MEAN VECTOR ERRORS(NM)					5			33			110			0			262			386
NUMBER OF CASES					19			19			17			0			13			5

OFFICIAL FORECASTS — FABIAN SEP 17-SEP 19 1985

DATE/TIME GMT	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	OPERATIONAL ERROR NM	12HR FORECAST LAT.	12HR FORECAST LONG.	12HR FORECAST ERROR NM	24HR FORECAST LAT.	24HR FORECAST LONG.	24HR FORECAST ERROR NM	36HR FORECAST LAT.	36HR FORECAST LONG.	36HR FORECAST ERROR NM	48HR FORECAST LAT.	48HR FORECAST LONG.	48HR FORECAST ERROR NM	72HR FORECAST LAT.	72HR FORECAST LONG.	72HR FORECAST ERROR NM
091700	29.7	64.3	29.6	64.5		27.5	66.5	33	25.5	68.5	146									
091706	28.7	65.1	28.7	65.1		26.5	67.5	46	24.5	69.5	29				32.0	54.0	287	33.0	50.0	
091712	27.9	65.9	27.9	65.9		25.5	68.5	14	23.5	70.5					34.0	52.0	432	34.0	49.0	
091718	27.1	66.7	27.1	66.7		24.5	69.5	55	23.5	71.5	103				36.0	50.0		37.0	47.0	
091800	26.4	67.4	26.4	67.4		24.5	70.5	64	24.5	72.5	164				37.0	47.0		40.0	41.0	
091806	25.8	68.1	25.8	68.1		25.5	71.5	90	26.5	73.5	152				37.5	45.0		40.0	39.0	
091812	25.1	68.8	25.1	68.8		26.5	72.5	130	28.5	74.5	330				37.5	45.0		40.0	40.0	
091818	24.5	69.5	24.5	69.5		27.5	73.5	224	30.5	75.5					36.0	43.0		38.0	38.0	
091900	24.0	70.2	24.0	70.2		28.5	74.5		32.5	76.5					35.0	40.0		39.0	33.0	
091906	23.5	70.9	23.5	70.9		29.5	75.5		34.5	77.5										
091912	23.1	71.5	23.1	71.5		30.5	76.5		36.5	78.5										
MEAN VECTOR ERRORS(NM)					0			83			141			0			359			0
NUMBER OF CASES					0			5			3			0			2			0

Table 5 continued.

OFFICIAL FORECASTS — GLORIA — SEP 17-SEP 27 1985

DATE/TIME GMT	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	OPERATIONAL ERROR NM	12HR FORECAST LAT.	12HR FORECAST LONG.	12HR FORECAST ERROR NM	24HR FORECAST LAT.	24HR FORECAST LONG.	24HR FORECAST ERROR NM	36HR FORECAST LAT.	36HR FORECAST LONG.	36HR FORECAST ERROR NM	48HR FORECAST LAT.	48HR FORECAST LONG.	48HR FORECAST ERROR NM	72HR FORECAST LAT.	72HR FORECAST LONG.	72HR FORECAST ERROR NM
091718	14.7	29.6	14.6	29.6	5	14.7	31.8	116	14.8	34.0					15.0	39.0		15.0	43.0	419
091800	14.9	31.7	14.6	31.6	34	14.9	33.5	110	15.3	36.0					15.5	41.0	223	16.0	45.5	310
091806	15.0	33.3	15.0	34.5	11	15.1	34.5		15.2	39.5					15.5	46.0	155	16.0	52.0	117
091812	15.1	35.9	15.2	37.5	92	15.3	41.5		15.5	45.5					15.5	51.5	122	17.5	57.0	70
092000	17.2	45.1	17.5	44.5	35	17.8	47.5	0	18.0	50.5	5				19.0	56.5	72	20.0	61.0	89
092006	17.4	46.7	17.6	45.5	69	18.5	49.0	47	19.0	52.0	69				19.5	59.5	149	20.0	64.0	208
092012	17.5	48.1	17.6	47.1	91	18.5	50.5	29	19.0	53.5	56				19.5	62.5	159	20.5	65.5	302
092018	17.6	49.3	17.6	48.5	96	18.5	52.5	24	19.5	55.5	31				19.5	64.5	191	21.5	68.0	329
092100	17.7	51.2	17.6	50.5	94	18.5	54.5	23	19.5	57.5	69				19.5	67.5	226	21.0	70.0	339
092106	17.7	52.6	17.6	52.1	95	18.5	56.5	0	19.5	59.5	96				19.5	69.5	244	21.0	73.0	288
092112	17.7	54.0	17.6	53.5	95	18.5	58.5	93	19.5	62.0	221				19.5	72.0	266	21.5	74.5	371
092118	17.7	55.3	17.7	54.9	96	18.5	60.5	65	19.5	64.0	179				19.5	74.5	337	21.5	73.5	274
092200	17.8	56.3	17.7	56.2	2	17.9	62.3	34	19.0	66.0	95				19.0	76.5	372	21.0	72.5	221
092206	17.8	57.1	17.7	57.3	3	17.8	63.8	22	18.5	67.7	103				19.0	78.0	402	20.5	70.5	161
092212	17.8	58.0	17.7	58.2	3	18.0	65.5	55	18.5	69.0	112				19.0	79.5	424	21.5	71.5	277
092218	18.4	58.8	18.0	59.0	23	18.5	67.0	55	19.0	71.0	117				19.5	81.0	441	22.0	72.5	275
092300	19.0	60.2	19.0	60.4	11	19.6	68.5	58	20.0	73.0	96				20.0	82.5	455	22.5	74.5	318
092306	19.7	61.5	19.3	61.3	26	20.3	69.5	53	21.0	74.5	68				20.5	83.5	469	23.5	74.5	318
092312	20.4	62.9	20.4	63.0	5	21.0	70.5	61	22.0	76.0	59				21.0	84.5	482	27.0	72.0	173
092318	21.0	64.2	21.0	64.2	5	22.0	71.5	61	23.5	77.5	82				21.5	85.5	494	30.0	72.0	187
092400	21.5	65.5	21.6	65.7	15	23.0	72.5	32	24.5	78.5	45				22.0	86.5	506	31.0	72.0	216
092406	21.8	66.8	22.0	67.0	13	23.0	73.0	47	25.0	79.5	97				22.5	87.5	518	32.0	72.0	226
092412	22.3	68.1	22.6	68.1	12	23.5	73.5	35	25.5	80.5	71				23.0	88.5	530	32.0	75.0	218
092418	23.2	69.0	23.2	69.4	12	24.0	74.0	35	26.0	81.5	59				23.5	89.5	542	33.5	74.5	300
092500	24.2	70.0	24.0	70.3	15	25.0	74.5	16	27.0	82.5	56				24.0	90.5	554	42.0	73.5	14
092506	25.1	70.9	25.0	71.3	15	26.0	75.0	37	28.5	83.5	52				24.5	91.5	566	42.0	73.5	
092512	26.1	72.0	26.2	72.2	16	27.0	75.0	41	30.0	84.5	64				25.0	92.5	578	43.0	70.0	
092518	26.9	73.0	27.0	73.0	9	28.0	75.5	28	32.0	85.0	31				26.0	93.5	590	46.0	70.0	
092600	27.8	74.0	27.8	74.0	15	30.4	75.8	48	34.0	86.5	54				27.0	94.5	602			
092606	28.9	75.0	28.7	74.9	15	31.5	77.0	49	35.5	87.5	104				28.0	95.5	614			
092612	30.0	75.5	30.0	75.4	15	33.0	76.5	32	36.5	86.5	151				29.5	96.5	626			
092618	31.6	75.5	31.7	75.2	18	34.0	76.4	45	40.5	85.5	179				31.0	97.0	638			
092700	33.2	76.0	33.3	76.1	7	37.0	75.0	91	42.0	82.0					33.0	96.5	650			
092706	35.5	75.5	35.5	75.5	5	40.5	73.5	39	45.0	70.0					34.5	95.5	662			
092712	38.4	74.5	38.3	74.7		45.0	72.5								36.5	94.5	674			
092718	41.9	72.8	42.1	72.4											38.5	93.5	686			
															41.0	76.0	155			
															43.0	75.0				
MEAN VECTOR ERRORS(NM)					21			47			98			0			152			231
NUMBER OF CASES					34			32			28			0			27			24

OFFICIAL FORECASTS — HENRI — SEP 23-SEP 24 1985

DATE/TIME GMT	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	OPERATIONAL ERROR NM	12HR FORECAST LAT.	12HR FORECAST LONG.	12HR FORECAST ERROR NM	24HR FORECAST LAT.	24HR FORECAST LONG.	24HR FORECAST ERROR NM	36HR FORECAST LAT.	36HR FORECAST LONG.	36HR FORECAST ERROR NM	48HR FORECAST LAT.	48HR FORECAST LONG.	48HR FORECAST ERROR NM	72HR FORECAST LAT.	72HR FORECAST LONG.	72HR FORECAST ERROR NM
092306	35.3	74.3	34.8	74.6	33	37.0	74.5	48	38.5	74.0	50				40.5	70.0		42.0	64.0	
092312	36.0	74.1	36.1	74.1	5	38.5	73.5	64	40.5	71.5	124				42.5	65.9		42.5	58.0	
092318	36.7	74.0	36.6	74.0	9	38.5	73.5	26	40.0	72.0	51				41.5	68.0		42.0	63.0	
092400	37.4	74.0	37.2	74.0	11	38.5	74.0	27	40.0	72.0					41.5	68.0		42.0	63.0	
092406	38.2	74.0	38.0	74.0	11	40.0	72.7	32	41.0	71.5										
092412	39.2	73.7	39.0	73.9		41.5	72.5		43.0	69.5										
092418	40.3	73.0	40.4	72.3		42.5	71.0		43.5	66.0										
MEAN VECTOR ERRORS(NM)					14			40			75			0			3			0
NUMBER OF CASES					5			5			3			0			3			0

OFFICIAL FORECASTS — ISABEL — OCT 08-OCT 10 1985

DATE/TIME GMT	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	OPERATIONAL ERROR NM	12HR FORECAST LAT.	12HR FORECAST LONG.	12HR FORECAST ERROR NM	24HR FORECAST LAT.	24HR FORECAST LONG.	24HR FORECAST ERROR NM	36HR FORECAST LAT.	36HR FORECAST LONG.	36HR FORECAST ERROR NM	48HR FORECAST LAT.	48HR FORECAST LONG.	48HR FORECAST ERROR NM	72HR FORECAST LAT.	72HR FORECAST LONG.	72HR FORECAST ERROR NM
100806	24.1	71.1	24.3	71.0	13	26.5	71.5	61	28.0	72.5	99				28.5	77.5	298	29.0	75.0	
100812	25.6	71.5	25.5	71.5	11	26.5	72.0	55	27.5	73.0	119				29.5	75.0	283	29.0	79.0	
100818	26.5	72.0	26.1	72.2	19	26.2	72.4	20	25.5	72.5	39				29.5	83.0	100	30.0	89.0	
100900	27.3	72.9	27.1	72.7	13	26.2	73.0	18	28.5	72.5	90				30.5	87.5		30.0	89.0	
100906	27.6	73.9	27.8	73.6	15	26.0	73.5	53	29.5	73.0	30				30.5	89.5		31.0	87.0	
100912	28.1	75.2	28.3	75.3	7	26.0	74.5	13	29.5	74.5	27				30.5	90.5		30.5	89.0	
100918	28.6	76.6	28.8	76.5	7	26.5	75.5	47	29.5	76.0	34				30.0	91.0		30.0	82.0	
101000	29.0	77.8	29.0	77.7	5	27.5	76.5	42	30.0	77.5					30.0	91.5				
101006	29.1	79.3	29.3	79.3	7	29.5	77.0	71	30.0	79.0					30.0	92.0				
101012	29.6	80.5	29.5	80.5		30.0	77.5		30.0	80.5					31.0	92.5				
101018	30.3	81.0	30.4	81.1		31.5	78.0		30.0	82.0										
									30.0	84.0										
									33.0	86.0										
MEAN VECTOR ERRORS(NM)					11			38			55			0			227			0
NUMBER OF CASES					9			9			7			0			3			0

Table 5 continued.

OFFICIAL FORECASTS — JUAN — OCT 26-NOV 01 1985

DATE/TIME GMT	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	OPERATIONAL POSITION ERROR NM	12HR FORECAST LAT.	12HR FORECAST LONG.	12HR FORECAST ERROR NM	24HR FORECAST LAT.	24HR FORECAST LONG.	24HR FORECAST ERROR NM	36HR FORECAST LAT.	36HR FORECAST LONG.	36HR FORECAST ERROR NM	48HR FORECAST LAT.	48HR FORECAST LONG.	48HR FORECAST ERROR NM	72HR FORECAST LAT.	72HR FORECAST LONG.	72HR FORECAST ERROR NM
102612	23.8	92.5	24.0	93.0	29	24.5	93.0	32	24.5	94.0	137				25.0	95.0	306	26.0	96.0	318
102618	24.4	92.8	24.4	92.8	0	24.5	94.0	109	25.0	94.5	202				26.0	94.5	213	27.0	94.0	266
102700	24.6	92.0	24.5	92.0	6	25.0	93.0	83	25.5	93.0	163				26.5	93.0	143	28.0	93.0	125
102706	25.3	92.2	25.2	92.2	6	25.5	92.0	51	26.5	92.0	122				27.5	92.5	89	29.5	93.5	99
102712	25.7	91.5	25.6	91.5	24	27.0	91.5	36	28.0	91.5	86				30.0	91.5	37	31.5	92.0	128
102718	26.4	91.1	26.3	91.1	12	28.0	90.7	60	29.5	90.2	157				31.0	89.5	142			
102800	27.8	91.0	27.8	91.0	15	30.5	92.0	54	32.0	91.5	175									
102806	28.6	91.4	28.6	91.4	5	30.5	92.5	74	31.0	93.0	135									
102812	29.4	92.0	29.3	92.0	13	29.5	94.0	90	30.5	95.0	191				32.0	95.0	242	34.0	96.0	447
102818	29.3	92.0	29.3	92.0	3	29.0	92.5	31	29.5	92.5	84				30.0	92.5	55	31.0	92.0	225
102900	29.3	91.8	29.3	91.8	0	29.2	91.4	24	29.5	90.5	100				30.0	89.5	103	30.5	88.5	109
102906	29.0	91.9	28.9	91.8	7	28.2	90.0	111	30.0	88.5	138				31.0	89.5	133	32.5	85.0	96
102912	29.6	91.5	29.6	91.5	5	30.5	90.5	91	31.5	89.0	176				32.0	86.5	237			
102918	30.3	91.9	30.2	91.6	16	30.5	91.5	52	31.5	90.0	133				32.0	87.5	108			
103000	30.1	92.3	30.5	92.2	24	30.0	91.0	51	30.5	90.0	86				33.0	87.5	56			
103006	29.8	92.2	30.0	92.0	28	29.5	91.5	41	30.0	90.0	68				33.0	85.0	117			
103012	29.6	92.1	29.5	92.0	7	29.5	90.5	51	30.5	89.0	78				33.5	84.0				
103018	29.3	91.8	29.4	92.0	12	29.5	90.5	30	30.5	89.0	57				33.5	84.0				
103100	29.1	91.3	29.3	91.0	19	29.7	89.5	33	30.5	88.5	128				34.0	85.0				
103106	28.9	90.3	28.9	90.2	5	29.5	88.5	67	31.5	87.0	151				35.0	83.0				
103112	29.3	89.1	29.3	89.1	5	31.5	86.5	27	34.0	84.5										
103118	30.3	87.7	30.3	87.7	5	32.5	85.5	63												
110100	31.8	87.0	31.8	86.7																
110106	33.5	86.7	33.5	86.5																
MEAN VECTOR ERRORS(NM)					11			53			131			0			147			198
NUMBER OF CASES					22			22			20			0			14			9

OFFICIAL FORECASTS — KATE — NOV 15-NOV 23 1985

DATE/TIME GMT	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	OPERATIONAL POSITION ERROR NM	12HR FORECAST LAT.	12HR FORECAST LONG.	12HR FORECAST ERROR NM	24HR FORECAST LAT.	24HR FORECAST LONG.	24HR FORECAST ERROR NM	36HR FORECAST LAT.	36HR FORECAST LONG.	36HR FORECAST ERROR NM	48HR FORECAST LAT.	48HR FORECAST LONG.	48HR FORECAST ERROR NM	72HR FORECAST LAT.	72HR FORECAST LONG.	72HR FORECAST ERROR NM
111518	21.1	63.8	21.5	64.0	29	21.5	64.5	36	22.0	65.5	29				24.0	66.0	223	26.0	65.0	605
111600	21.6	63.9	21.5	64.0	8	22.0	64.5	42	22.5	65.0	129				25.5	65.0	312	25.0	64.0	731
111606	21.7	64.2	21.7	64.2	3	21.9	65.0	55	22.5	66.0	98				22.0	68.0	413	22.5	69.5	494
111612	21.5	64.3	21.0	64.5	34	21.5	65.5	91	21.5	66.5	55				21.5	68.5	252	22.0	70.0	550
111618	21.1	65.3	21.1	65.3	0	21.5	66.5	99	21.5	67.3	56				21.0	70.0	289	22.0	72.0	552
111700	20.7	66.0	20.7	66.0	0	20.3	67.5	96	20.0	69.0	101				21.5	72.5	242	24.0	76.5	383
111706	20.4	66.4	20.4	66.6	11	20.2	68.0	77	20.0	70.0	147				21.0	74.5	233	22.0	79.0	350
111712	20.7	67.3	20.5	67.1	11	20.5	69.0	70	20.5	70.5	165				21.0	74.0	357	22.0	79.0	390
111718	21.1	68.8	21.1	68.8	11	21.4	71.0	37	22.0	73.0	111				23.5	77.0	359	24.0	80.0	337
111800	21.4	70.0	21.4	69.9	5	21.8	72.0	67	23.0	74.0	151				23.5	78.0	297	25.0	82.5	236
111806	21.6	71.3	21.6	72.0	11	22.0	75.0	17	23.5	78.0	63				24.5	82.5	120	25.5	87.0	120
111812	21.6	73.3	21.7	73.1	12	22.1	76.2	53	23.5	79.0	99				24.5	84.0	76	26.0	89.0	203
111818	21.9	75.1	21.9	75.0	8	22.0	78.5	56	23.5	81.0	50				25.0	85.0	72	27.0	89.0	202
111900	22.1	76.9	22.1	76.9	5	22.0	80.5	21	24.0	84.0	22				25.5	88.0	103	27.0	90.0	317
111906	22.4	78.4	22.2	78.6	12	23.0	82.5	28	24.0	86.0	82				26.5	88.0	92	28.0	89.0	350
111912	22.7	80.2	22.5	80.3	13	23.5	83.5	15	24.5	86.5	67				27.0	89.0	145	29.0	91.0	523
111918	23.6	81.9	23.6	81.5	15	24.3	84.8	25	25.5	87.0	66				28.0	88.5	150	30.0	88.0	504
112000	23.9	83.5	23.9	83.5	16	25.0	86.0	55	26.0	88.0	98				29.5	87.5	146	32.0	86.0	531
112006	24.6	84.5	24.6	84.5	0	26.0	87.5	90	28.0	88.0	80				30.0	86.0	157	33.0	83.0	481
112012	25.2	85.3	25.2	85.3	0	27.0	88.5	11	29.5	88.0	11				31.0	84.5	177	34.0	80.0	397
112018	26.0	86.0	26.0	86.0	11	28.0	88.5	42	29.5	85.5	52				32.0	83.0	211	34.0	80.0	
112100	26.8	86.5	26.8	86.5	5	29.0	88.0	46	30.5	84.5	33				32.5	81.5	295	37.0	77.0	
112106	27.5	86.6	27.6	86.7	10	29.0	86.5	27	30.5	85.5	122				33.0	81.0	432	37.0	78.0	
112112	28.3	86.5	28.3	86.7	13	29.8	85.7	31	31.5	84.0	147				34.0	78.0	437			
112118	29.1	86.1	29.1	86.1	13	30.5	85.5	74	32.5	84.5	171				35.0	76.5				
112200	30.0	86.1	30.0	86.1	7	31.5	85.5	64	33.5	84.5	156				36.0	75.5				
112206	31.0	86.5	31.0	86.5	25	32.5	85.5	43	34.5	84.5	93				39.5	75.5				
112212	32.1	87.1	32.1	87.0	17	33.5	86.0	63	36.0	84.0	58									
112218	33.7	87.0	33.7	87.0	13	34.5	86.5	77	36.5	84.0										
112300	34.7	86.7	34.7	86.7	0	35.5	86.0	115	37.5	83.5										
112306	34.4	76.5	34.5	75.5		36.5	75.5		38.5	65.0										
112312	34.0	72.0	34.5	71.2		34.0	67.5		34.0	62.0										
MEAN VECTOR ERRORS(NM)					10			49			88			0			223			413
NUMBER OF CASES					30			30			25			0			24			20

1985 SUMMARY FOR OFFICIAL	PSN.ERR	12HR	24HR	36HR	48HR	72HR
AVERAGE ERROR FOR ALL STORMS	17	52	104	0	217	331
NUMBER OF CASES	175	173	150	0	105	68

Table 5 continued.

LEGEND FOR TABLE 6

OBSERVATIONAL UNIT

Reconnaissance

AF = Air Force

NOAA = National Oceanographic and Atmospheric Administration

Satellite

GOES-6 = Geostationary Operational Environmental Satellite

METEOSAT = Meteorological European operational Satellite

Radar

National Weather Service Radar:

GLS-R = Galveston, TX.
LCH-R = Lake Charles, La.
BTR-R = Baton Rouge, La.
SIL-R = Slidell, La.
MOB-R = Mobile, Al.
NPA-R = Pensacola, Fl.
AQQ-R = Apalachicola, Fl.
TBW-R = Tampa, Fl.
EYW-R = Key West, Fl.
MIA-R = Miami, Fl.
DAB-R = Daytona Beach, Fl.
AYS-R = Waycross, Ga.
SAV-R = Savannah, Ga.
AYS-R = Waycross, Ga.
CHS-R = Charleston, SC.
ILM-R = Wilmington, NC.
HAT-R = Cape Hatteras, NC.
NHK-R = Patuxent, Md.
ACY-R = Atlantic City, NJ.
NYC-R = New York City, NY.
CHH-R = Chatham, Ma.

RESOLUTION

Reconnaissance

Navigational Accuracy/Meteorological Accuracy (NM). (Example 5/5).

Satellite

Classification confidence*, location and confidence**, visable or infrared resolution (km).

* 1 =completely certain as to current intensity number used.
2 =tempted to vary up and down by 1/2 T or S number.
3 =might vary up or down by one T or S number, or more.

**1 =well defined eye with certain picture registration.
2 =well defined eye with uncertain picture registration.
3 =well defined circulation center with certain picture registration.
4 =well defined circulation center with uncertain picture registration.
5 =poorly defined circulation center with certain picture registration.
6 =poorly defined circulation center with uncertain picture registration.

(Example-1,1, Vsbl,1 = classification confidence 1, location confidence 1, visible picture with 1 kilometer resolution.)

(Example-2,5, IR 8 = classificition confidence 2, location confidence 5, infrared picture with 8 kilometer resolution.)

CENTER FIXES

Tropical Storm Ana July 15-19

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
1	15	0000	28.7	62.0	25								GOES 6	3,5 IR 8	
2	15	0600	29.3	62.0	30								GOES 6	2,5 IR 8	
3	15	1200	28.7	63.4	30								GOES 6	3,5 VIS 1	
4	15	1800	29.0	64.6	30								GOES 6	3,5 VIS 1	
5	16	0000	29.5	65.0	30								GOES 6	3,5 IR 8	
6	16	0600	30.6	65.7	30								GOES 6	2,5 IR 8	
7	16	1200	30.6	65.5	35		1005						GOES 6	2,5 VIS 1	
8	16	1800	30.8	65.8	35		1005						GOES 6	2,5 VIS 1	
9	16	1925	31.3	67.0	40	50	1009		23	23			AF	5/5	457M
10	16	2144	31.9	66.6	36	41	1008		21	22			AF	4/4	457M
11	17	0000	31.5	66.5	35		1005						GOES 6	2,5 IR 8	
12	17	0600	33.3	66.6	35		1005						GOES 6	2,5 IR 8	
13	17	1200	34.3	66.7	45		1003						GOES 6	2,5 VIS 1	
14	17	1315	34.6	67.4	25	31	1007		23	23			AF	5/5	457M
15	17	1456	35.1	67.3		35	1006						AF		
16	17	1748	35.4	67.3	30	25	1006		23	22			AF	4/5	457M
17	17	1800	35.4	67.2	45		1000						GOES 6	2,5 VIS 1	
18	17	2000	36.4	67.0	35	30	1004		23	23			AF	4/3	457M
19	18	0000	37.3	66.4	35		1000						GOES 6	2,5 IR 8	
20	18	0050	37.4	66.6		58	1004		23	23			AF	2/5	457M
21	18	0257	38.4	66.7		41	1005						AF		
22	18	0500	39.0	66.1		36	1004		22	23			AF	2/5	457M
23	18	0600	39.5	65.2	55		994						GOES 6	2,5 IR 8	
24	18	1200	41.7	63.5	55		994						GOES 6	2,5 VIS 1	
25	18	1227	40.9	64.3	38	50		3026	10	09			AF	4/4	700MI
26	18	1252	41.1	64.2	15		999						AF		700MI
27	18	1453	41.4	63.7	65	69	996						AF		457M
28	18	1700	41.9	63.2	68	64	996		21	23			AF	4/4	457M
29	18	1800	42.4	62.3	55		994						GOES 6	2,5 VIS 1	
30	19	0000	44.0	59.5	55		994						GOES 6	2,5 IR 8	
31	19	0600	47.0	57.0	55		994						GOES 6	2,5 IR 8	
32	19	1200	48.0	54.5									GOES 6	-,5 VIS 2	

Table 6. Center fix positions and intensity evaluations for 1985 tropical cyclones.

CENTER FIXES

HURRICANE BOB (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
66	25	0532	32.7	80.8							10	eye good	CHS-R		
67	25	0600	32.8	80.2									GOES 6	-,3 IR 8	
68	25	0610	32.8	80.9							8	eye good	CHS-R		
69	25	0630	32.9	80.8							10	eye good	CHS-R		
70	25	0700	33.2	80.5							9	eye good	CHS-R		
71	25	0735	33.4	80.5							10	eye poor	CHS-R		
72	25	0807	33.6	80.4							20	eye poor	CHS-R		
73	25	0830	33.5	80.3							12	eye poor	CHS-R		
74	25	0910	34.0	80.3							10	eye poor	CHS-R		
75	25	1130	34.7	79.9							30	eys poor	ILM-R		

CENTER FIXES

HURRICANE BOB (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
34	24	1500	29.0	80.4	35		1005						GOES 6	2,5 VIS 1	
35	24	1525	30.1	80.4	45	44	1004						AF		457M
36	24	1721	30.3	80.4	65	65	1003		23	25	C40	open nw	AF	4/2	457M
37	24	1800	30.6	80.6	45		1000						GOES 6	2,5 VIS 1	
38	24	2030	30.7	80.8								eye poor	AYS-R		
39	24	2100	31.1	80.7	45		1000						GOES 6	1,3 VIS 1	
40	24	2118	31.1	80.5	70	65	1002		23	24		open w	AF	5/5	457M
41	24	2145	30.9	80.7								center poor	AYS-R		
42	24	2235	31.3	80.5								center poor	SAV-R		
43	24	2310	31.4	80.8								center poor	SAV-R		
44	24	2325	31.6	80.4								center poor	AYS-R		
45	24	2326	31.4	80.4								center fair	CHS-R		
46	25	0000	31.6	80.3	45		1000						GOES 6	2,3 IR 8	
47	25	0050	32.0	80.6	55	52	1003		22	23	C45	open w	AF	1/3	457M
48	25	0100	31.8	80.4								center poor	SAV-R		
49	25	0101	31.7	80.4								center poor	AYS-R		
50	25	0130	32.0	80.4								center poor	SAV-R		
51	25	0133	31.6	80.6								center fair	CHS-R		
52	25	0138	31.9	80.5								center poor	AYS-R		
53	25	0200	32.1	80.4								center poor	SAV-R		
54	25	0208	32.3	80.4								center fair	CHS-R		
55	25	0227	32.3	80.6							28	eye good	CHS-R		
56	25	0240	32.3	80.6		63							AF		700MI
57	25	0300	32.2	80.7	45		1000						GOES 6	2,5 IR 8	
58	25	0300	32.5	80.6								center poor	SAV-R		
59	25	0307	32.5	80.6							28	eye good	CHS-R		
60	25	0325	32.5	80.6								center poor	SAV-R		
61	25	0325	32.7	80.6							35	eye good	CHS-R		
62	25	0335	32.7	80.8		39							AF		700MI
63	25	0402	32.5	80.6							5	eye good	CHS-R		
64	25	0427	32.5	80.8							5	eye good	CHS-R		
65	25	0500	32.6	80.8							12	eye good	CHS-R		

CENTER FIXES

HURRICANE BOB 21-26 JULY

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
1	21	0600	26.0	85.0									GOES 6	-,5 IR 8	
2	21	1200	26.0	85.0									GOES 6	-,5 VIS 2	
3	21	1800	25.4	84.2	30								GOES 6	2,3 VIS 1	
4	21	2258	25.6	84.5	20	27	1010		24	23			AF	3/5	457M
5	22	0000	25.7	84.5	25								GOES 6	2,5 VIS 1	
6	22	0630	25.3	84.2	25								GOES 6	2,5 IR 8	
7	22	1200	26.2	84.2	30								GOES 6	2,3 VIS 1	
8	22	1618	26.0	84.0	25	21	1007		24	24			AF	1/15	457M
9	22	1800	26.0	84.0	30								GOES 6	2,3 VIS 1	
10	22	1822	26.1	84.0	25	20	1006		24	24			AF	2/15	457M
11	22	2033	26.0	83.3	45	36	1005		23	26			AF	2/20	457M
12	23	0000	26.6	83.4	35		1005						GOES 6	2,5 IR 8	
13	23	0004	26.3	83.3	25	28	1004		23	23			AF	2/2	457M
14	23	0146	26.6	83.3		28	1006						AF		457M
15	23	0300	26.7	83.0	35		1005						GOES 6	1,3 IR 8	
16	23	0353	26.6	83.1		18	1007						AF		457M
17	23	0503	26.3	82.9		40	1006		23	23			AF	8/5	457M
18	23	0600	26.6	82.8	35		1005						GOES 6	2,3 IR 8	
19	23	0900	26.4	83.0	45		1000						GOES 6	2,5 IR 8	
20	23	1200	26.3	82.2	45		1000						GOES 6	2,5 VIS 1	
21	23	1213	26.4	82.3	35	30	1005		24	25			AF	5/5	457M
22	23	1500	26.3	81.5									GOES 6	-,5 VIS 1	
23	23	1800	26.4	81.2									GOES 6	-,5 VIS 1	
24	24	0000	27.1	80.2									GOES 6	-,5 IR 8	
25	24	0300	27.8	80.2	35		1005						GOES 6	2,5 IR 8	
26	24	0524	28.2	80.4	37	50	1005		22	22			AF	3/5	457M
27	24	0600	28.3	80.3	35		1005						GOES 6	1,5 IR 8	
28	24	0710	28.6	80.4		46	1005						AF		457M
29	24	0800	28.8	80.5		29	1006		22	22			AF	3/5	457M
30	24	0900	29.1	80.4	35		1005						GOES 6	1,5 IR 8	
31	24	1136	29.3	80.4	34	35	1003		23	24			AF	3/2	457M
32	24	1200	29.5	80.3	35		1005						GOES 6	2,5 VIS 1	
33	24	1344	29.8	80.4	60	53	1004						AF		457M

CENTER FIXES

HURRICANE CLAUDETTE 9-17 AUGUST

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT ALT.
1	9	1800	31.5	80.5	25								GOES 6	2,5 VIS 1	
2	10	0000	31.4	79.0	25								GOES 6	2,5 IR 8	
3	10	0600	32.0	77.0	25								GOES 6	3,5 IR 8	
4	10	1200	33.5	76.5	25								GOES 6	2,5 VIS 1	
5	10	1447	33.6	75.6	25	14	1008		25	24	C40	poorly def.	AF	3/10	457M
6	10	1730	33.6	75.4	25	35	1007		24	23	C40	poorly def.	AF	3/5	457M
7	10	1800	33.5	75.1	30								GOES 6	2,3 VIS 1	
8	10	2328	33.8	74.1	30	33	1009		22	24			AF	2/5	457M
9	11	0000	33.6	74.2	30								GOES 6	2,3 IR 8	
10	11	0207	34.2	73.3		36	1009		21	23			AF	5/5	457M
11	11	0502	34.2	72.9		43	1009		22	23			AF	7/7	457M
12	11	0600	34.0	73.0	30								GOES 6	2,5 IR 8	
13	11	1157	34.2	72.1	35	40	1002		24	24			AF	3/10	457M
14	11	1200	34.4	72.1	35								GOES 6	2,5 VIS 1	
15	11	1359	34.6	71.7	35	50	1002						AF		457M
16	11	1700	34.6	71.3	35	35	1002		23	23			AF	3/10	457M
17	11	1800	34.5	70.9	35								GOES 6	-,3 VIS 1	
18	12	0000	34.3	69.8	40								GOES 6	2,3 IR 8	
19	12	0029	34.8	69.2		43	1000		23	24			AF		457M
20	12	0500	35.1	68.4		41	1000		24	24			AF	3/10	457M
21	12	0600	34.1	68.3	45		1000						GOES 6	2,3 IR 8	
22	12	1200	34.4	66.7	45		1000						GOES 6	2,3 VIS 1	
23	12	1459	34.2	66.0	45	60	997		23	23	C20	poorly def.	AF	3/3	457M
24	12	1720	34.4	65.3	45	60	997		23	22	C25	poorly def.	AF	3/3	457M
25	12	1800	34.3	65.1	45		1000						GOES 6	2,3 VIS 1	
26	13	0000	34.8	62.3	55		994						GOES 6	2,3 IR 8	
27	13	0025	34.6	62.8	35	49	995		22	24	C10	poorly def.	AF	5/3	457M
28	13	0326	34.8	62.1		48	994		24	24			AF	5/15	457M
29	13	0546	35.3	61.6		48	993		23	24	C06	closed	AF	3/10	457M
30	13	0600	35.8	60.0	55		994						GOES 6	2,3 IR 8	
31	13	1200	35.3	60.0	55		994						GOES 6	2,5 VIS 1	
32	13	1800	35.6	58.0	55		994						GOES 6	2,3 VIS 1	
33	14	0000	34.1	55.7	65		987						GOES 6	3,4 IR 8	

CENTER FIXES

HURRICANE CLAUDETTE (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
34	14	0600	35.5	52.0	65		987						GOES 6	2,5 IR 8	
35	14	1130	35.5	50.4	65		987						GOES 6	2,3 VIS 1	
36	14	1800	35.8	48.3	65		987						GOES 6	2,5 VIS 1	
37	15	0000	36.0	45.3	65		987						GOES 6	3,5 IR 8	
38	15	0600	35.8	41.5	77		979						GOES 6	2,3 IR 8	
39	15	1200	35.5	40.0	77		979						GOES 6	2,2 VIS 1	
40	15	1800	36.0	37.0	77		979						GOES 6	2,3 IR 8	
41	15	2129	37.1	35.6	40	47	995		14	13			AF	3/10	700MI
42	16	0000	37.5	34.5	65		987						METEOSAT	3,5 IR 8	
43	16	0600	38.7	32.5	55		994						METEOSAT	2,5 IR 8	
44	16	1200	41.0	29.0	45		1000						METEOSAT	3,6 VIS 8	
45	16	1800	43.0	25.0	35		1005						METEOSAT	3,6 IR 8	
46	17	0000	45.0	22.0									METEOSAT	-,5 IR 4	

CENTER FIXES

HURRICANE DANNY 12-20 AUGUST

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT ALT.
1	12	0000	18.7	80.1	25								GOES 6	2,5 IR 8	
2	12	0600	19.6	81.2	25								GOES 6	2,5 IR 8	
3	12	0817	18.6	82.1		23	1010		23	23			AF	5/10	457M
4	12	1200	20.5	82.0	25								GOES 6	2,5 VIS 1	
5	12	1800	20.7	82.5	25								GOES 6	3,5 VIS 1	
6	12	1822	21.0	82.9	10	18	1011		25	25			AF	4/30	457M
7	12	2313	21.0	83.6	35	22	1009		26	26			AF	4/10	457M
8	13	0000	20.7	83.0	25	60							GOES 6	2,5 IR 8	
9	13	0600	22.1	83.8	25								GOES 6	2,5 IR 8	
10	13	1200	22.1	86.1	25								GOES 6	2,5 VIS 1	
11	13	1250	21.7	85.2									AF		457M
12	13	1800	23.2	87.0	30		1009						GOES 6	2,5 VIS 1	
13	13	1812	23.1	86.7	45	45	1012		24	26			AF	5/2 IR 8	457M
14	13	2018	23.4	87.3	15	14	1011		25	25			AF	5/3	457M
15	13	2100	23.8	87.8	35		1005						GOES 6	3,3 VIS 1	
16	13	2303	23.6	87.7	35	37	1009		24	25			AF	5/3	457M
17	14	0000	24.0	88.0	45		1000						GOES 6	3,3 IR 8	
18	14	0300	24.1	88.4	45		1000						GOES 6	2,5 IR 8	
19	14	0550	24.4	89.5		27	1007		25	25			AF	4/10	457M
20	14	0600	24.2	88.9	45		1000						GOES 6	2,5 IR 8	
21	14	0813	24.7	89.9		31	1004	3130					AF		700MB
22	14	0830	24.3	89.8	45		1000						GOES 6	2,5 IR 8	
23	14	1113	24.9	90.4		15	1004		24	25			AF	3/10	457M
24	14	1200	24.6	90.5	45		1000						GOES 6	2,5 VIS 1	
25	14	1526	25.3	90.2	45	60	1003	1450	17	21	C10	poorly def.	NOAA	5/5	850MB
26	14	1743	25.8	90.5	50	50	1002		18	19			NOAA		850MB
27	14	1800	25.6	90.5	45		1000						GOES 6	2,3 VIS 1	
28	14	2044	26.3	91.0	65	70	998		18	20			NOAA	5/5	850MB
29	14	2100	26.2	91.2	55		994						GOES 6	2,3 VIS 1	
30	15	0000	26.7	91.3	55	51	997		24	23	C10	poorly def.	AF	3/3	457M
31	15	0000	26.8	91.1	65		987						GOES 6	1,1 IR 8	

CENTER FIXES

HURRICANE DANNY (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
32	15	0234	27.2	91.5		43	999		24	23			AF	3/5	457M
33	15	0300	27.2	91.3	65		987						GOES 6	1,1 IR 8	
34	15	0518	28.0	92.0		26	996						AF		457M
35	15	0600	28.0	92.2	65		987						GOES 6	1,3 IR 8	
36	15	0627	28.1	92.1		64	993	1370	18	21	C50	open sw	NOAA	6/5	850MB
37	15	0643	28.2	92.1								psbl center	LCH-R		
38	15	0715	28.4	92.0							60	center fair	GLS-R		
39	15	0725	28.3	92.2								psbl center	LCH-R		
40	15	0752	28.4	92.4			993						NOAA		850MB
41	15	0808	28.5	92.0							50	center good	GLS-R		
42	15	0825	28.4	92.3								psbl center	LCH-R		
43	15	0830	28.9	92.1							56	eye good	GLS-R		
44	15	0855	28.6	92.4								psbl center	LCH-R		
45	15	0858	28.7	92.5		74	991	1347	17	20	C55	open east	NOAA	10/6	
46	15	0900	28.7	92.5	65		987						GOES 6	1,1 IR 8	
47	15	0910	28.7	92.3							45	eye good	GLS-R		
48	15	0926	28.7	92.3								eye good	GLS-R		
49	15	0926	28.8	92.3								psbl center	LCH-R		
50	15	1005	28.8	92.6			990						NOAA		850MB
51	15	1010	28.8	92.4							45	eye good	GLS-R		
52	15	1030	28.8	92.4								eye good	GLS-R		
53	15	1032	28.7	92.5								psbl eye	LCH-R		
54	15	1101	28.9	92.4								psbl center	LCH-R		
55	15	1107	28.8	92.6		82	989	1332	17	20	C45		NOAA	10/5	850MB
56	15	1109	29.0	92.2							50	eye fair	GLS-R		
57	15	1130	29.0	92.4								psbl center	LCH-R		
58	15	1137	28.9	92.4							50	eye good	GLS-R		
59	15	1200	29.2	92.5	65		982						GOES 6	1,2 IR 8	
60	15	1202	29.1	92.5								psbl eye	LCH-R		
61	15	1205	29.1	92.7							40	eye good	GLS-R		

CENTER FIXES

HURRICANE DANNY (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
62	15	1227	29.1	92.5								eye good	LCH-R		
63	15	1235	29.1	92.4							40	eye good	GLS-R		
64	15	1300	29.2	92.5							35	eye good	LCH-R		
65	15	1305	29.3	92.6							40	eye good	GLS-R		
66	15	1327	29.2	92.5								eye good	GLS-R		
67	15	1327	29.3	92.6							35	eye good	LCH-R		
68	15	1354	29.3	92.6							40	eye good	LCH-R		
69	15	1405	29.3	92.6							40	eye good	GLS-R		
70	15	1430	29.5	92.6							40	eye good	GLS-R		
71	15	1430	29.4	92.6							36	eye good	LCH-R		
72	15	1452	29.5	92.6							36	eye good	LCH-R		
73	15	1458	29.3	92.7		70	987				C40		NOAA		850MB
74	15	1500	29.5	92.5	65		982						GOES 6	1,1 VIS 1	
75	15	1505	29.5	92.6							35	eye good	GLS-R		
76	15	1526	29.6	92.5							30	eye good	LCH-R		
77	15	1535	29.6	92.6								eye good	GLS-R		
78	15	1600	29.6	92.7							25	eye poor	LCH-R		
79	15	1620	29.6	92.7		75	987	1320	18	22			NOAA	4/4	850MB
80	15	1633	29.6	92.7							15	center good	LCH-R		
81	15	1635	29.7	92.6								eye good	GLS-R		
82	15	1710	29.9	92.7								eye good	GLS-R		
83	15	1725	29.8	92.6								eye good	GLS-R		
84	15	1729	29.9	92.7							15	center good	LCH-R		
85	15	1803	29.9	92.6							18	center good	LCH-R		
86	15	1825	30.0	92.4							30	eye good	GLS-R		
87	15	1900	30.1	92.5							20	center good	LCH-R		
88	15	1905	30.1	92.5								eye good	GLS-R		
89	15	1954	30.2	92.4							15	center good	LCH-R		
90	15	2005	30.1	92.5								center good	GLS-R		

CENTER FIXES

HURRICANE ELENA 28 AUGUST-4 SEPTEMBER

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
1	28	0000	19.2	74.2	35		1005						GOES 6	2,5 IR 8	
2	28	0600	21.1	76.0	35		1005						GOES 6	2,5 IR 8	
3	28	1200	21.4	77.5									GOES 6	-,5 VIS 1	
4	28	1500	21.6	79.2									GOES 6	-,3 VIS 1	
5	28	1730	22.6	79.8							30	center	EYW-R		
6	28	1800	22.2	80.5									GOES 6	-,3 VIS 1	
7	28	1810	22.8	80.4							40	center	EYW-R		
8	28	1830	22.9	80.9							30	center	EYW-R		
9	28	1910	23.1	81.3							30	center	EYW-R		
10	28	1930	23.1	81.4							30	center	EYW-R		
11	28	2010	22.7	80.7							30	center	EYW-R		
12	28	2030	22.9	80.9							30	center	EYW-R		
13	28	2100	23.3	80.7	45		1000						GOES 6	2,5 VIS 1	
14	28	2100	22.9	80.9							30	center	EYW-R		
15	28	2128	23.0	81.0							30	center	EYW-R		
16	28	2210	23.1	81.1							25	eye fair	EYW-R		
17	28	2235	23.1	81.2							25	eye fair	EYW-R		
18	28	2310	23.2	81.8							35	eye good	EYW-R		
19	28	2332	23.2	81.7							35	eye good	EYW-R		
20	29	0000	23.5	81.3	55		994						GOES 6	2,5 IR 8	
21	29	0010	23.3	82.1							35	eye fair	EYW-R		
22	29	0035	23.3	82.1							35	eye fair	EYW-R		
23	29	0110	23.4	82.2							30	eye fair	EYW-S		
24	29	0135	23.4	82.1								center fair	EYW-R		
25	29	0210	23.4	82.3								center fair	EYW-R		
26	29	0232	23.5	82.5								center fair	EYW-R		
27	29	0300	23.4	82.5	55		994						GOES 6	2,5 IR 8	
28	29	0310	23.5	82.6								center fair	EYW-R		
29	29	0334	23.7	82.6								center fair	EYW-R		
30	29	0405	23.8	82.9								eye good	EYW-R		

CENTER FIXES

HURRICANE ELENA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT ALT.
31	29	0430	23.9	83.0							20	eye good	EYW-R		
32	29	0505	24.0	83.2							25	eye good	EYW-R		
33	29	0528	24.0	83.3			1002		23	24		poorly def.	AF	5/6	457M
34	29	0531	24.1	83.3							20	eye good	EYW-R		
35	29	0600	24.1	83.3	65		987						GOES 6	2,5 IR 8	
36	29	0605	24.1	83.5							20	eye fair	EYW-R		
37	29	0625	24.2	83.6							25	eye fair	EYW-R		
38	29	0705	24.4	83.8							20	center poor	EYW-R		
39	29	0735	24.5	84.1							25	center poor	EYW-R		
40	29	0740	24.3	83.9		44	998						AF		457M
41	29	0804	24.4	83.9		28	998		24	25		poorly def.	AF	5/5	457M
42	29	0805	24.6	84.2								center poor	EYW-R		
43	29	0830	24.7	84.4								center poor	EYW-R		
44	29	0900	24.5	84.1	65		987						GOES 6	2,5 IR 8	
45	29	0905	24.8	84.5								center poor	EYW-R		
46	29	1200	24.8	85.0	65		987						GOES 6	2,3 VIS 1	
47	29	1207	25.0	85.0	50	58	994		24	26	C35	closed	NOAA	5/5	457M
48	29	1314	25.1	85.1		66	994					open north	NOAA		457M
49	29	1428	25.4	85.3	60	53	995	1389	19	20	C35	open nw	NOAA	5/5	850MB
50	29	1500	25.2	85.2	77		979						GOES 6	2,3 VIS 1	
51	29	1532	25.5	85.6		60	995						NOAA		850MB
52	29	1647	25.8	85.8		80	992						NOAA		850MB
53	29	1755	26.0	85.9	75	72	990	1347	18	21	C30	open se	NOAA	5/5	850MB
54	29	1800	26.0	86.0	77		979						GOES 6	2,1 VIS 1	
55	29	2047	26.3	86.5	75	72	987	1300	18	20	C15	closed	NOAA	5/3	850MB
56	29	2100	26.3	86.6	77		979						GOES 6	2,1 VIS 1	
57	29	2154	26.4	86.6	70		987						NOAA		850MB
58	29	2258	26.4	86.6	70			1296					NOAA		850MB
59	30	0000	26.4	86.8	90		970						GOES 6	2,3 IR 8	
60	30	0014	26.6	86.6	75	77	985	1293	17	21		poorly def.	NOAA	4/6	850MB

CENTER FIXES

HURRICANE ELENA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
61	30	0236	27.0	87.8		87	985	1297	17	21		poorly def.	NOAA	6/4 IR 8	850MB
62	30	0300	27.0	87.2	90		970						GOES 6	2,5 IR 8	
63	30	0544	27.3	87.1	83		980	1260	20	21		poorly def.	NOAA	3/3	850MB
64	30	0600	27.3	87.4	90		970						GOES 6	2,3 IR 8	850MB
65	30	0715	27.5	87.3		64	980	1258					NOAA		850MB
66	30	0806	27.9	87.1								center poor	NPA-R		
67	30	0824	27.6	87.4		64	980	1260	21	22		poorly def.	NOAA	5/10	850MB
68	30	0830	27.8	87.1								center poor	NPA-R		
69	30	0900	27.6	87.4	90		970						GOES 6	2,3 IR 8	
70	30	0908	27.7	87.3								psbl center	NPA-R		
71	30	0930	27.7	87.2								center poor	NPA-R		
72	30	1012	27.7	87.4		97	973	1210					NOAA		850MB
73	30	1105	27.5	87.1								psbl center	NPA-R		
74	30	1119	27.8	87.4		89	974	1212	22	24		poorly def.	NOAA	8/10	850MB
75	30	1200	27.4	87.2	90		970						GOES 6	2/5 VIS 1	
76	30	1500	27.7	86.8	90		970						GOES 6	2,5 VIS 1	
77	30	1705	28.0	87.1								center poor	AQQ-R		
78	30	1735	28.1	86.8	102	72	978	1229	16	24			AF		850MB
79	30	1800	28.1	86.6	90		970						GOES 6	2,5 VIS 1	
80	30	1800	28.1	87.0								center poor	AQQ-R		
81	30	2000	28.2	86.6									AF		850MB
82	30	2030	28.4	86.6	105	68	979	1230	19	21			AF	5/5	850MB
83	30	2045	28.6	86.8								eye good	AQQ-R		
84	30	2100	28.3	86.4	90		970						GOES 6	2,5 VIS 1	
85	30	2107	28.6	86.6								eye good	AQQ-R		
86	30	2142	28.4	86.4	100	71	978	1217					AF	5/5	850MB
87	30	2157	28.7	86.6								eye good	AQQ-R		
88	30	2220	28.8	86.6								eye good	AQQ-R		
89	30	2300	28.9	86.3								eye good	AQQ-R		
90	30	2301	28.4	86.3	105	58	977	1217	20	21			AF		850MB

CENTER FIXES

HURRICANE ELENA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT ALT.
91	30	2326	29.0	86.1								eye good	AQQ-R		
92	31	0000	28.3	86.1	77		979						GOES 6	2,5 IR 8	
93	31	0018	28.4	86.0	80	62	977	2890					AF	5/5	700MB
94	31	0135	28.4	85.7		90	977	1225					NOAA	4/4	850MB
95	31	0155	28.7	85.8								eye fair	AQQ-R		
96	31	0216	28.4	85.7								eye fair	AQQ-R		
97	31	0248	28.6	85.6								eye good	AQQ-R		
98	31	0257	28.5	85.6		86	978	1233	18	23		poorly def.	NOAA	4/4	850MB
99	31	0300	28.2	85.6	77		979						GOES 6	2,5 IR 8	
100	31	0307	28.5	85.6								eye good	AQQ-R		
101	31	0325	28.5	85.6								eye good	AQQ-R		
102	31	0403	28.6	85.4								eye good	AQQ-R		
103	31	0416	28.6	85.4								eye good	AQQ-R		
104	31	0418	28.6	85.5		86	977	1224					NOAA		850MB
105	31	0500	28.6	85.4								eye good	AQQ-R		
106	31	0525	28.6	85.4								eye good	AQQ-R		
107	31	0540	28 2	85 4							60	eye fair	TBW-R		
108	31	0557	28.6	85.3		82	976	1222	18	21	C40		NOAA	6/5	850MB
109	31	0600	28.3	85.5	77		977						GOES 6	2,5 IR 8	
110	31	0600	28.6	85.4								eye good	AQQ-R		
111	31	0635	28.6	85.4								eye good	AQQ-R		
112	31	0640	28.6	85.3							65	psbl center	TBW-R		
113	31	0708	28.6	85.2								eye good	AQQ-R		
114	31	0718	28.7	85.2		95	976	1217					NOAA		850MB
115	31	0728	28.6	85.2							17	eye good	AQQ-R		
116	31	0740	28.6	85.4							60	psbl center	TBW-R		
117	31	0804	28.7	85.2							18	eye good	AQQ-R		
118	31	0810	28.7	85.3							60	psbl center	TBW-R		
119	31	0825	28.8	85.1							20	eye good	AQQ-R		
120	31	0835	28.7	85.1		92	975	1206	17	21		poorly def.	NOAA	6/5	850MB

CENTER FIXES

HURRICANE ELENA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT ALT.
121	31	0840	28.5	85.1							60	psbl center	TBW-R		
122	31	0900	28.0	84.9	77		979						GOES 6	2,5 IR 8	
123	31	0904	28.7	85.0							17	eye good	AQQ-R		
124	31	0932	28.7	84.9							14	eye good	AQQ-R		
125	31	0940	28.6	84.8							50	psbl center	TBW-R		
126	31	0955	28.7	84.8							12	eye good	AQQ-R		
127	31	1010	28.5	84.8							20	eye fair	TBW-R		
128	31	1027	28.7	84.7		95	975	1207	19	20	C40	closed	NOAA	3/3	850MB
129	31	1032	28.7	84.8							12	eye good	AQQ-R		
130	31	1105	28.6	84.7							18	eye good	AQQ-R		
131	31	1128	28.7	84.5	75	73	974		20	20			NOAA	3/3	850MB
132	31	1132	28.6	84.6							18	eye good	AQQ-R		
133	31	1200	28.5	84.5	77		979						GOES 6	1,3 VIS 1	
134	31	1232	28.5	84.3							14	eye good	AQQ-R		
135	31	1252	28.5	84.4							20	eye fair	TBW-R		
136	31	1254	28.8	84.4	75	97	975	1203					NOAA		850MB
137	31	1305	28.5	84.2							15	eye good	AQQ-R		
138	31	1330	28.5	84.4							20	eye fair	TBW-R		
139	31	1330	28.7	84.1							14	eye good	AQQ-R		
140	31	1400	28.8	84.1							17	eye good	AQQ-R		
141	31	1413	28.8	84.3	70	73	976	1219	20	23	C30	closed	NOAA	3/3	850MB
142	31	1430	28.8	84.1							16	eye fair	TBW-R		
143	31	1431	28.8	84.0							22	eye good	AQQ-R		
144	31	1450	28.8	84.2		75	974						NOAA		850MB
145	31	1500	28.8	84.1	77		979						GOES 6	1,3 VIS 1	
146	31	1500	28.8	84.0							16	eye fair	TBW-R		
147	31	1525	28.8	84.0							20	eye good	AQQ-R		
148	31	1535	28.9	84.0							16	eye fair	TBW-R		
149	31	1600	28.8	84.1							16	eye good	AQQ-R		
150	31	1605	29.0	84.0								eye fair	TBW-R		

CENTER FIXES

HURRICANE ELENA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
151	31	1625	28.9	84.1							20	eye good	AQQ-R		
152	31	1630	28.8	84.1	65		975						NOAA		850MB
153	31	1635	29.0	84.0								eye fair	TBW-R		
154	31	1725	28.9	84.1							20	eye good	AQQ-R		
155	31	1727	28.8	84.0	80	83	975	1209	20	24	C40	closed	NOAA	3/3	850MB
156	31	1730	28.9	84.0							20	eye good	TBW-R		
157	31	1757	28.9	84.1							20	eye good	AQQ-R		
158	31	1800	28.9	84.1							20	eye good	TBW-R		
159	31	1800	29.0	84.0	77		979						GOES 6	1,3 VIS 1	
160	31	1825	28.9	84.1							17	eye good	AQQ-R		
161	31	1835	28.9	84.1							20	eye good	TBW-R		
162	31	1900	28.8	84.0							20	eye poor	TBW-R		
163	31	1904	28.9	84.0							14	eye good	AQQ-R		
164	31	1925	28.8	84.0							14	eye poor	AQQ-R		
165	31	1927	28.8	84.0		80	973	1204	19	21	C25	open sw	NOAA	10/10	850MB
166	31	1930	28.8	84.0							20	eye poor	TBW-R		
167	31	2000	28.8	84.1							12	eye poor	TBW-R		
168	31	2005	29.0	84.0							16	eye poor	AQQ-R		
169	31	2015	28.8	83.9	80		973						NOAA		850MB
170	31	2025	28.8	83.9								center poor	AQQ-R		
171	31	2025	28.7	83.9							16	eye poor	TBW-R		
172	31	2100	28.9	83.8								center poor	AQQ-R		
173	31	2100	28.8	83.8	77		979						GOES 6	-,3 VIS 1	
174	31	2109	28.8	83.9	75	80	973	1198	17	21	C25	closed	NOAA	10/10	850MB
175	31	2125	28.9	84.2								psbl center	TBW-R		
176	31	2125	29.0	83.8								center poor	AQQ-R		
177	31	2200	28.7	83.9								psbl center	TBW-R		
178	31	2202	28.8	83.8	72		973						NOAA		850MB
179	31	2205	28.9	83.9								center poor	AQQ-R		
180	31	2225	29.0	83.9								center poor	AQQ-R		

CENTER FIXES

HURRICANE ELENA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT ALT.
181	31	2242	28.8	83.8		86	971	1186	19	23	C25	open sse	NOAA	10/10	850MB
182	31	2304	28.9	84.0								center fair	AQQ-R		
183	31	2331	28.8	83.7		90							NOAA		850MB
184	31	2332	29.0	83.7								eye good	AQQ-R		
185	01	0000	28.9	83.8							10	eye good	AQQ-R		
186	01	0001	28.8	83.9							14	eye fair	TBW-R		
187	01	0011	28.8	83.8		40	971	1173	18	21	C25	open w	NOAA	10/10	850MB
188	01	0030	28.7	83.7	77		979						GOES 6	2,3 IR 8	
189	01	0030	28.8	83.9							10	eye good	AQQ-R		
190	01	0031	28.8	84.0							12	eye fair	TBW-R		
191	01	0100	28.8	83.9							10	eye fair	TBW-R		
192	01	0101	28.8	84.0							09	eye good	AQQ-R		
193	01	0125	28.7	84.0							10	eye good	AQQ-R		
194	01	0127	28.7	83.9							14	eye fair	TBW-R		
195	01	0134	28.8	83.8		80	969	1161	18	20	C20	closed	NOAA	10/10	850MB
196	01	0155	28.7	83.9							10	eye good	AQQ-R		
197	01	0200	28.7	83.9							10	eye fair	TBW-R		
198	01	0225	28.7	83.9							10	eye good	AQQ-R		
199	01	0226	28.7	83.9							12	eye fair	TBW-R		
200	01	0255	28.7	83.9							11	eye fair	TBW-R		
201	01	0257	28.7	83.9							10	eye good	AQQ-R		
202	01	0300	28.5	83.7	77		979						GOES-6	2,4 IR 8	
203	01	0300	28.7	83.9		74	966	1142	19	24	C20	closed	NOAA	10/10	850MB
204	01	0358	28.6	84.0							16	eye good	TBW-R		
205	01	0400	28.6	83.9							13	eye good	AQQ-R		
206	01	0425	28.7	83.8							11	eye good	AQQ-R		
207	01	0444	28.6	84.0		82	966	1138	17	23	C35	closed	NOAA	4/4	850MB
208	01	0500	28.2	84.1	77		979						GOES 6	2,4 IR 8	
209	01	0500	28.7	83.8							15	eye good	AQQ-R		
210	01	0510	28.8	83.9							15	eye good	TBW-R		

CENTER FIXES

HURRICANE ELENA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
211	01	0525	28.7	84.0							15	eye good	AQQ-R		
212	01	0533	28.6	83.9							15	eye good	TBW-R		
213	01	0554	28.7	84.0		84	965	1131	17	23	E12/40/30	open nw	NOAA	4/4	850MB
214	01	0600	28.7	84.0							13	eye good	AQQ-R		
215	01	0610	28.6	84.0							20	eye good	TBW-R		
216	01	0630	28.7	84.1							10	eye good	AQQ-R		
217	01	0630	28.6	84.0							20	eye good	TBW-R		
218	01	0643	28.6	84.0		93	965	1125					NOAA		850MB
219	01	0701	28.7	84.1							16	eye good	AQQ-R		
220	01	0710	28.6	84.1							20	eye good	TBW-R		
221	01	0725	28.6	84.2							16	eye good	AQQ-R		
222	01	0730	28.6	84.1							20	eye good	TBW-R		
223	01	0756	28.5	84.0		88	964	1105	17	21	E/05/35/25	closed	NOAA	5/5	850MB
224	01	0800	28.6	84.1							15	eye good	AQQ-R		
225	01	0810	28.6	84.1							20	eye good	TBW-R		
226	01	0830	28.6	84.1							15	eye good	AQQ-R		
227	01	0830	28.6	24.1							20	eye good	TBW-R		
228	01	0900	28.6	24.1							17	eye good	AQQ-R		
229	01	0900	28.6	84.2	77		979						GOES 6	2,4 IR 8	
230	01	0908	28.6	84.1		95	963	1092	17	22	C35	closed	NOAA	5/4	850MB
231	01	0910	28.6	84.1							20	eye good	TBW-R		
232	01	0930	28.6	84.1							18	eye good	AQQ-R		
233	01	0932	28.6	84.1							20	eye good	TBW-R		
234	01	1002	28.6	84.1							14	eye good	AQQ-R		
235	01	1010	28.6	84.2							20	eye good	TBW-R		
236	01	1022	28.6	84.1		99	962	1092					NOAA		850MB
237	01	1030	28.6	84.2							20	eye good	TBW-R		
238	01	1035	28.6	84.1							18	eye good	AQQ-R		
239	01	1103	28.6	84.2							12	eye good	AQQ-R		
230	01	1110	28.6	84.2							20	eye good	TBW-R		

CENTER FIXES

HURRICANE ELENA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
231	01	1120	28.6	84.1		90	962	1091	17	21	C25	closed	NOAA	4/5	850MB
232	01	1126	28.6	84.2							20	eye good	TBW-R		
233	01	1136	28.6	84.2							16	eye good	AQQ-R		
234	01	1200	28.6	84.1	102		960						GOES 6	2,1 VIS 1	
235	01	1204	28.7	84.2							18	eye good	AQQ-R		
236	01	1210	28.6	84.2							20	eye good	TBW-R		
237	01	1230	28.7	84.2							18	eye good	AQQ-R		
238	01	1259	28.7	84.2							18	eye good	AQQ-R		
239	01	1310	28.7	84.3							20	eye good	TBW-R		
240	01	1313	28.7	84.2	80	97	960	1063	20	23	C35	closed	NOAA	3/7	850MB
241	01	1329	28.7	84.2							18	eye good	AQQ-R		
242	01	1335	28.8	84.3							20	eye good	TBW-R		
243	01	1400	28.7	84.3							85	eye good	AQQ-R		
244	01	1410	28.8	84.3							20	eye good	TBW-R		
245	01	1429	28.7	84.4							16	eye good	AQQ-R		
246	01	1435	28.8	84.4							22	eye good	TBW-R		
247	01	1448	28.7	84.3	90	104	957	1055	20	24	C35	open nw	NOAA	5/7	850MB
248	01	1500	28.8	84.3	115		948						GOES 6	2,1 VIS 1	
249	01	1510	28.8	84.5							22	eye good	TBW-R		
250	01	1525	28.7	84.5							15	eye good	AQQ-R		
251	01	1535	28.9	84.5							22	eye good	TBW-R		
252	01	1549	28.8	84.4	90	112	957						NOAA		850MB
253	01	1558	28.8	84.6							15	eye good	AQQ-R		
254	01	1610	28.9	84.6							20	eye good	TBW-R		
255	01	1625	28.9	84.6							11	eye good	AQQ-R		
256	01	1635	29.0	84.7							20	eye good	TBW-R		
257	01	1658	29.0	84.7							15	eye good	AQQ-R		
258	01	1710	29.0	84.7							20	eye good	TBW-R		
259	01	1713	28.8	84.6	90	103	956	1040	20	24	C35	closed	NOAA	5/5	850MB
260	01	1725	29.0	84.7							15	eye good	AQQ-R		

CENTER FIXES

HURRICANE ELENA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT ALT.
261	01	1735	29.1	84.8							18	eye good	TBW-R		
262	01	1758	29.0	84.9							15	eye godd	AQQ-R		
263	01	1800	29.0	84.8	115		948						GOES 6	2,1 VIS 1	
264	01	1810	29.1	84.9							18	eye good	TBW-R		
265	01	1825	29.1	84.9							18	eye good	AQQ-R		
266	01	1835	29.1	85.0							18	eye good	TBW-R		
267	01	1837	29.0	84.9	60	121	954						NOAA		850MB
268	01	1851	29.1	84.9							20	eye good	AQQ-R		
269	01	1910	29.2	85.0							18	eye good	TBW-R		
270	01	1925	29.1	85.0							20	eye good	AQQ-R		
271	01	1935	29.2	85.1							20	eye good	TBW-R		
272	01	1939	29.1	85.0	95		951						NOAA		850MB
273	01	1959	29.2	85.2							17	eye good	AQQ-R		
274	01	2008	29.1	85.1							22	eye fair	NPA-R		
275	01	2025	29.2	85.2							18	eye fair	NPA-R		
276	01	2025	29.2	85.2							20	eye good	TBW-R		
277	01	2025	29.2	85.2							15	eye good	AQQ-R		
278	01	2027	29.1	85.1	85	120	952	1000	20	23	C25	closed	NOAA	5/5	850MB
279	01	2059	29.2	85.3							20	eye good	AQQ-R		
280	01	2100	29.3	85.3							20	eye good	TBW-R		
281	01	2100	29.2	85.2	115		948						GOES 6	2,1 VIS 1	
282	01	2109	29.2	85.3							18	eye fair	NPA-R		
283	01	2125	29.2	85.4							20	eye good	AQQ-R		
284	01	2125	29.2	85.4							19	eye good	NPA-R		
285	01	2135	29.4	85.4								center poor	TBW-R		
286	01	2158	29.3	85.5							20	eye good	AQQ-R		
287	01	2207	29.3	85.5							22	eye good	NPA-R		
288	01	2225	29.3	85.6							19	eye fair	NPA-R		
289	01	2300	29.4	85.6	35	66	953	2685	14	17	C20	closed	AF	5/1	700MB
290	01	2308	29.3	85.7							20	eye good	NPA-R		

HURRICANE ELENA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
321	02	0430	29.6	86.9							22	eye good	MOB-R		
322	02	0458	29.7	87.0							18	eye good	NPA-R		
323	02	0459	29.7	87.1							19	eye good	AQQ-R		
324	02	0500	29.5	86.9	102		960						GOES 6	1,1 IR 8	
325	02	0509	29.8	87.1							20	eye good	MOB-R		
326	02	0526	29.7	87.1							18	eye good	NPA-R		
327	02	0527	29.6	87.1							30	eye fair	SIL-R		
328	02	0530	29.7	87.2							19	eye good	MOB-R		
329	02	0555	29.8	87.3							18	eye good	NPA-R		
330	02	0600	29.7	87.4							19	eye good	AQQ-R		
331	02	0601	29.7	87.4		110	957	1051	19	21	C20	closed	NOAA	5/5	850MB
332	02	0607	29.8	87.3							20	eye good	MOB-R		
333	02	0607	29.7	87.4							28	eye fair	SIL-R		
334	02	0625	29.8	87.3							17	eye good	NPA-R		
335	02	0627	29.7	87.4							28	eye good	SIL-R		
336	02	0630	29.8	87.5							19	eye good	AQQ-R		
337	02	0632	30.0	87.4							25	eye good	MOB-R		
338	02	0654	29.8	87.5							17	eye good	NPA-R		
339	02	0703	29.8	87.6							22	eye good	SIL-R		
340	02	0709	29.9	87.6							25	eye good	MOB-R		
341	02	0725	29.8	87.7							25	eye good	SIL-R		
342	02	0732	29.9	87.7							19	eye good	MOB-R		
343	02	0735	29.9	87.6							18	eye good	NPA-R		
344	02	0742	30.0	87.6		110	957	1051	17	20	C18	closed	NOAA	10/10	850MB
345	02	0803	29.9	87.8							26	eye good	SIL-R		
346	02	0806	30.0	87.8							16	eye good	MOB-R		
347	02	0825	29.9	87.9							26	eye good	SIL-R		
348	02	0826	29.9	88.0		120	957	2723	11	16	C18		NOAA	10/10	700MB
349	02	0834	30.0	87.9							14	eye good	MOB-R		
350	02	0854	30.0	88.0							18	eye good	NPA-R		

CENTER FIXES

HURRICANE ELENA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
351	02	0900	29.9	88.0	102		960						GOES 6	1,1 IR 8	
352	02	0905	30.0	88.1							25	eye good	SIL-R		
353	02	0908	30.1	88.1							16	eye good	MOB-R		
354	02	0925	30.0	88.2							25	eye good	SIL-R		
355	02	0926	30.1	88.1							18	eye good	NPA-R		
356	02	0934	30.1	88.2							16	eye good	MOB-R		
357	02	0956	30.1	88.1							19	eye good	NPA-R		
358	02	1002	30.1	88.3							22	eye good	SIL-R		
359	02	1009	30.1	88.3							18	eye good	MOB-R		
360	02	1025	30.2	88.3							18	eye good	NPA-R		
361	02	1025	30.1	88.4							26	eye good	SIL-R		
362	02	1035	30.2	88.4							18	eye good	MOB-R		
363	02	1053	30.2	88.5							18	eye good	NPA-R		
364	02	1100	30.2	88.6							16	eye good	SIL-R		
365	02	1109	30.3	88.6							14	eye good	MOB-R		
366	02	1109	30.2	88.6		102	957	2763	09	16	C20	closed	NOAA	3/3	700MB
367	02	1125	30.2	88.7							14	eye good	SIL-R		
368	02	1126	30.2	88.6							18	eye good	NPA-R6		
369	02	1132	30.3	88.7							14	eye good	MOB-R		
370	02	1154	30.3	88.8							17	eye good	NPA-R		
371	02	1200	30.3	88.8							14	eye good	SIL-R		
372	02	1201	30.2	88.8		102	959	2796	09	16	C20	closed	NOAA	2/4	700MB
373	02	1202	30.3	88.8							14	eye good	MOB-R		
374	02	1225	30.3	88.9							11	eye good	SIL-R		
375	02	1226	30.3	88.9							15	eye good	NPA-R		
376	02	1230	30.5	88.8									GOES 6	-,1 VIS 1	
377	02	1232	30.4	88.9							15	eye good	MOB-R		
378	02	1300	30.4	89.1							13	eye good	SIL-R		
379	02	1305	30.4	89.1							14	eye good	NPA-R		
380	02	1305	30.5	89.1							12	eye good	MOB-R		

CENTER FIXES

HURRICANE ELENA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
381	02	1307	30.4	89.2		75					C15		NOAA-R		700MB
382	02	1325	30.4	89.2							15	eye good	SIL-R		
383	02	1325	30.4	89.2							15	eye good	NPA-R		
384	02	1335	30.5	89.2							10	eye good	MOB-R		
385	02	1345	30.5	89.3		65					C15	closed	NOAA-R		700MB
386	02	1400	30.5	89.4							10	eye good	SIL-R		
387	02	1400	30.5	89.3							10	eye good	MOB-R		
388	02	1405	30.6	89.4							14	eye good	NPA-R		
389	02	1425	30.5	89.4					22	23	08	eye good	SIL-R		
390	02	1425	30.5	89.5							11	eye fair	NPA-R		
391	02	1500	30.7	89.8									GOES 6	-,3 VIS 1	
392	02	1500	30.6	89.6							10	center good	SIL-R		
393	02	1506	30.6	89.7							14	eye fair	NPA-R		
394	02	1525	30.7	89.7							10	center good	SIL-R		
395	02	1525	30.6	89.7							10	eye fair	NPA-R		
396	02	1603	30.7	90.0							09	center poor	NPA-R		
397	02	1605	30.7	89.9							09	center good	SIL-R		
398	02	1632	30.8	90.0							08	center good	SIL-R		
399	02	1658	30.9	90.1							09	center good	SIL-R		
400	02	1729	30.9	90.2							10	center good	SIL-R		
401	02	1800	31.0	90.3							12	center fair	SIL-R		
402	02	1800	31.1	90.5									GOES 6	-,5 VIS 1	
403	02	1830	31.0	90.6							10	center poor	SIL-R		

CENTER FIXES

TROPICAL STORM FABIAN 15-19 SEPTEMBER

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
1	15	1430	22.5	70.5	25								GOES 6	-,2 VIS 1	
2	15	1800	24.0	71.7	25								GOES 6	-,2 VIS 1	
3	15	2150	24.0	70.7	25	35	1008		23	23	C50		AF	3/10	457M
4	15	2352	23.6	70.5		22	1008		23	23		poorly def.	AF	3/10	457M
5	16	0000	24.3	70.7	25								GOES 6	2,3 IR 8	
6	16	0500	24.7	69.6	25								GOES 6	2,5 IR 8	
7	16	1200	26.8	68.2	25								GOES 6	2,5 VIS 1	
8	16	1532	25.7	67.1	25	26	1003		23	24			AF	3/5	457M
9	16	1708	25.8	66.7	40	40	1003		24	23			AF	3/10	457M
10	16	1800	25.9	66.6	30		1009						GOES 6	2,5 VIS 1	
11	16	2129	26.3	65.2	30	31	1003		24	24			AF	4/5	457M
12	16	2317	26.9	64.8	10	11	1003		25	25			AF	4/5	457M
13	17	0000	25.9	65.3	30		1009						GOES 6	2,5 IR 8	
14	17	0400	27.2	63.8	45		1000						GOES 6	2,5 IR 8	
15	17	0508	26.9	63.6		40	999		24	24			AF	3/5	457M
16	17	0709	27.5	62.7		54	993		23	25			AF	5/5	457M
17	17	0944	25.8	62.3		30	992		24	25			AF	10/5	457M
18	17	1158	27.9	61.8	45	35	995		24	26			AF	8/3	457M
19	17	1200	28.0	61.4	55		994						GOES 6	2,5 VIS 1	
20	17	1800	29.2	59.7	55		994						GOES 6	2,5 VIS 1	
21	18	0000	29.6	59.3	55		994						GOES 6	2,5 IR 8	
22	18	0400	30.0	58.0	55		994						GOES 6	1,5 IR 8	
23	18	1200	31.0	55.4	55		994						GOES 6	2,5 VIS 1	
24	18	1800	31.0	53.9	55		994						GOES 6	2,5 VIS 1	
25	19	0000	31.3	52.0	55		994						GOES 6	2,6 IR 8	
26	19	0400	31.4	50.5	55		994						GOES 6	2,5 IR 8	
27	19	1200	31.6	44.6	55		994						GOES 6	5,3 VIS 1	

CENTER FIXES

HURRICANE GLORIA 16 SEPTEMBER - 2 OCTOBER

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
1	16	1200	14.0	24.0	25								METEOSAT	2,5 IR 8	
2	16	1800	13.7	25.5	25								METEOSAT	2,5 IR 8	
3	16	2100	14.3	25.0	30		1009						METERSAT	2,4 IR 8	
4	17	0300	14.5	25.2	35		1005						METEOSAT	2,4 IR 8	
5	17	0600	15.0	27.3	35		1005						METEOSAT	2,5 IR 8	
6	17	1200	14.4	28.9	35		1005						METEOSAT	2,5 IR 8	
7	17	1800	14.6	29.6	35		1005						METEOSAT	2,5 IR 8	
8	17	2100	15.0	30.0	35		1005						METEOSAT	2,6 IR 8	
9	18	0300	15.2	34.5	35		1005						METEOSAT	2,6 IR 8	
10	18	0600	15.0	34.0	35		1005						METEOSAT	2,5 IR 8	
11	18	1200	15.4	37.5	35		1005						GOES 6	2,5 VIS 1	
12	18	1800	15.2	38.0	35		1005						GOES 6	2,5 VIS 1	
13	19	0000	15.3	39.2	30		1009						GOES 6	2,6 IR 8	
14	19	0430	15.0	40.4	30		1009						GOES 6	2,5 IR 8	
15	19	1130	15.2	42.3	30		1009						GOES 6	2,5 VIS 1	
16	19	1800	17.3	43.5	30		1009						GOES 6	2,5 VIS 1	
17	20	0000	17.5	44.6	35		1005						GOES 6	2,6 IR 8	
18	20	0500	17.6	45.3	35		1005						GOES 6	2,5 IR 8	
19	20	1200.	17.9	47.1	45		1000						GOES 6	2,3 VIS 1	
20	20	1800	18.0	49.7	45		1000						GOES 6	2,3 VIS 1	
21	21	0000	17.8	52.0	45		1000						GOES 6	2,6 IR 8	
22	21	0500	17.8	53.1	45		1000						GOES 6	2,5 IR 8	
23	21	1200	17.8	54.5	45		1000						GOES 6	2,3 VIS 1	
24	21	1217	17.7	54.2	25	28	999		23	25	C15		AF	5/3	457M
25	21	1426	17.7	54.7	45	42	1001						AF		457M
26	21	1703	17.7	55.2	65	57	1000		20	23	C15		AF	5/3	457M
27	21	1800	17.9	56.0	55		994						GOES 6	2,3 VIS 1	
28	22	0000	17.8	56.8	55		994						GOES 6	2,50IR 8	
29	22	0000	17.8	56.4		35	1000		26	25			AF	3/15	457M
30	22	0212	17.8	56.7		68	999						AF		457M

CENTER FIXES

HURRICANE GLORIA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
31	22	0500	17.9	56.9	55		994						GOES 6	2,5 IR 8	
32	22	0510	17.9	57.1		42	997				C20	open sw	AF	3/15	457M
33	22	1140	17.8	58.3	50	50	991		23	23	C25	closed	AF	2/2	457M
34	22	1200	17.8	58.3	65		987						GOES 6	2,3 VIS 1	
35	22	1341	17.9	58.4	70	68	991		21	24	C25		AF	2/2	457M
36	22	1500	17.8	58.7	65		982						GOES 6	2,3 VIS 1	
37	22	1515	18.1	58.5	50	34	992						AF		457M
38	22	1757	18.4	58.9	30	17	992		18	19			AF	2/2	850MB
39	22	1800	18.0	59.0	65		982						GOES 6	2,5 VIS 1	
40	22	2000	18.5	59.2	70	66	989		16	20	C30	closed	AF	2/2	850MB
41	22	2100	18.8	59.5	65		987						GOES 6	1,3 VIS 1	
42	23	0000	19.1	60.5	65		987						GOES 6	1,3 IR 8	
43	23	0001	19.1	60.2		32	992		17	20	C35	poorly def.	AF	5/10	850MB
44	23	0206	19.1	60.5		34	991	1348	18	19	C30	poorly def.	AF	5/10	850MB
45	23	0300	19.2	60.6	65		987						GOES 6	2,3 IR 8	
46	23	0410	19.2	61.0		49	990	1346	20	20	C25	closed wall	AF	5/10	850MB
47	23	0500	19.3	60.8	77		983						GOES 6	2,3 IR 8	
48	23	0604	19.5	61.3		32	988	1320	18	20	C25	poorly def.	AF	5/10	850MB
49	23	0805	19.9	61.8		56	988	1329	19	20	C25	poorly def.	AF	5/10	850MB
50	23	0900	19.9	62.0	77		979						GOES 6	2,5 IR 8	
51	23	1200	20.4	63.0	77		979						GOES 6	2,3 VIS 1	
52	23	1228	20.4	63.0	35	42	988	2978	11	11			AF	3/15	700MB
53	23	1435	20.6	63.4		39	983	2930	10	12		neg eye	AF	3/5	700MB
54	23	1500	20.8	63.6	77		979						GOES 6	2,3 VIS 1	
55	23	1723	20.9	64.2		45	978	2900	11	12			AF	3/15	700MB
56	23	1800	21.1	64.0	90		970						GOES 6	2,3 VIS 1	
57	24	0000	21.7	65.5	95		966						GOES 6	2,1 IR 8	
58	24	0010	21.6	65.7		71			19	24	C10	closed	AF	2/2	850MB
59	24	0204	21.7	66.2		90	952	1015	18	25	C10	closed	AF	2/2	850MB
60	24	0500	21.9	66.7	102		960						GOES 6	2,1 IR 8	

CENTER FIXES

HURRICANE GLORIA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
61	24	0503	21.9	66.7		97	952	2676	12	18	C08	closed	AF	2/2	700MB
62	24	0900	22.3	67.5	102		960						GOES 6	2,1 IR 8	
63	24	1200	22.6	68.1	102		960						GOES 6	2,1 VIS 1	
64	24	1208	22.6	68.1	50	79	950	2659	12	15	C10	open nw	AF	3/1 VIS 1	700MB
65	24	1428	22.8	68.5		64	945	2617	9	17		closed wall	AF	3/15	700MB
66	24	1700	23.2	68.9	35	82	939	2581	10	15	C10	closed	AF	3/15	700MB
67	24	1800	23.4	68.9	115		948						GOES 6	1,1 VIS 1	
68	24	1942	23.6	69.3			938					closed	NOAA		6000M
69	24	2100	23.8	69.4	120		942						GOES 6	2,1 VIS 1	
70	24	2330	24.1	69.8		84	923	2427	11	24	C13	closed	AF	3/7	700MB
71	25	0000	24.2	69.7	135		925						GOES 6	2,1 IR 8	
72	25	0120	24.3	70.1		106	919	2383	11	23	C08	closed	AF	3/7	700MB
73	25	0300	24.6	70.2	135		925						GOES 6	1,1 IR 8	
74	25	0314	24.7	70.5		79	921	2401	13	26	C14	closed	AF		700MB
75	25	0500	24.8	70.8	135		925						GOES 6	2,1 IR 8	
76	25	0510	24.8	70.8		126	922	2413	13	25	C10	closed	AF	2/7	700MB
77	25	0900	25.6	71.4	127		935						GOES 6	2,1 IR 8	
78	25	1200	26.1	71.9	127		935						GOES 6	1,3 VIS 1	
79	25	1223	26.2	72.0	80	86	929	2471	12	15	C15	closed	AF	2/3	700MB
80	25	1420	26.4	72.5		62	929	2474	11	16	E13/12/08	closed	AF	3/3	700MB
81	25	1500	26.6	72.6	127		935						GOES 6	1,1 VIS 1	
82	25	1703	26.7	73.0	100	76	932	2497	16	19	E04/12/08	closed	AF	3/3	700MB
83	25	1800	26.9	73.0	127		935						GOES 6	1,1 VIS 1	
84	25	2043	27.3	73.5		95	936	2527	11	15	C25	closed	AF	5/3	700MB
85	25	2057	27.3	73.6		84							NOAA		3630M
86	25	2100	27.5	73.5	115		948						GOES 6	2,3 VIS 1	
87	25	2236	27.6	73.8		79		2560					AF		700MB
88	25	2310	27.7	74.0		75	938	2550	11	16	E05/25/15	open sw	AF	5/3	700MB
89	26	0000	28.0	74.0	115		948						GOES 6	2,5 IR 8	
90	26	0205	28.1	74.4		78		2582	12	15	E18/25/15	open e	AF	5/3	700MB

CENTER FIXES

HURRICANE GLORIA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
91	26	0300	28.5	74.7	102		948						GOES 6	2,5 IR 8	
92	26	0500	28.8	74.9	102		960						GOES 6	3,5 IR 8	
93	26	0544	28.6	74.9		80	942	2605	09	18			NOAA	5/5	700MB
94	26	0849	29.1	75.1		95	945	2626	10	17			NOAA	5/5	700MB
95	26	0900	29.0	75.2	90		970						GOES 6	2,3 IR 8	
96	26	1140	30.0	75.4		60	947	2649	10	17	C20		NOAA	5/5	700MB
97	26	1200	30.1	75.1	90		970						GOES 6	2,3 VIS 1	
98	26	1500	30.7	76.0		86	946	2647	11	16	C15	closed	NOOA	5/4	700MB
99	26	1500	31.0	75.6	102		960						GOES 6	2,3 VIS 1	
100	26	1635	31.1	76.1		91	946	2641					NOAA		700MB
101	26	1735	31.4	76 2		75	946	2636	12	16	E05/20/15	closed	NOAA	5/5	700MB
102	26	1800	31.8	76.1	115		948						GOES 6	2,3 VIS 1	
103	26	1848	31.7	76.2		75	944	2622					NOAA		700MB
104	26	1953	32.0	76.3		88	943	2612					NOAA		700MB
105	26	2033	32.2	76.2		86	942	2612					NOAA		700MB
106	26	2100	32.4	76.1	115		948						GOES 6	2,3 VIS 1	
107	26	2100	32.3	76.0								psbl center	ILM-R		
108	26	2114	32.4	76.2		78	943	2618	13	16		poorly def.	NOAA	5/5	700MB
109	26	2128	32.3	76.0								psbl center	ILM-R		
110	26	2200	32.6	76.9								psbl center	ILM-R		
111	26	2243	32.8	75.9								psbl center	ILM-R		
112	26	2325	33.0	76.0							10	eye good	ILM-R		
113	26	2335	33.1	76.1							12	eye fair	HAT-R		
114	26	2347	33.1	76.1							12	eye fair	ILM-R		
115	27	0000	33.7	76.1	115		948						GOES 6	2,3 IR 8	
116	27	0003	33.2	76.0							10	eye fair	HAT-R		
117	27	0005	33.1	75.9							12	eye good	ILM-R		
118	27	0017	33.3	76.1		78	941	2609	16	18	C15	open se	NOAA	3/3	700MB
119	27	0025	33.3	75.9							10	eye good	ILM-R		
120	27	0030	33.2	76.0							13	eye fair	HAT-R		

CENTER FIXES

HURRICANE GLORIA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
121	27	0100	33.4	76.0							10	eye good	HAT-R		
122	27	0107	33.7	75.7							10	eye good	ILM-R		
123	27	0127	33.6	75.8							10	eye good	ILM-R		
124	27	0130	33.6	75.9							10	eye good	HAT-R		
125	27	0137	33.7	75.9		85	941	2605					NOAA		700MB
126	27	0159	33.8	75.9							10	eye good	HAT-R		
127	27	0213	33.9	75.7							10	eye good	ILM-R		
128	27	0228	34.0	75.7							10	eye good	ILM-R		
129	27	0230	33.9	75.9							10	eye good	HAT-R		
130	27	0245	34.2	75.7							10	eye good	ILM-R		
131	27	0258	34.3	75.9		89	941	2603	13	17	C10	closed	NOAA	3/5	700MB
132	27	0300	34.4	75.3	115		948						GOES 6	2,3 IR 8	
133	27	0300	34.2	75.8							10	eye good	HAT-R		
134	27	0310	34.3	75.8							10	eye good	ILM-R6		
135	27	0327	34.5	75.6							10	eye good	ILM-R		
136	27	0330	34.3	75.8							10	eye good	HAT-R		
137	27	0400	34.8	75.8		74	941						NOAA		7000MB
138	27	0430	34.7	75.7							08	eye good	HAT-R		
139	27	0500	35.4	75.4	115		948						GOES 6	2,1 IR 8	
140	27	0500	35.0	75.6							10	eye good	HAT-R		
141	27	0501	35.2	75.5							15	eye fair	ILM-R		
142	27	0534	35.4	75.5							20	eye poor	ILM-R		
143	27	0540	35.4	75.6		103	942	2620	13	16	C15	open s	NOAA	5/5	700MB
144	27	0613	35.8	75.2							30	eye fair	ILM-R		
145	27	0630	35.6	75.3							11	eye good	HAT-R		
146	27	0630	35.9	75.2								center poor	ILM-R		
147	27	0700	35.8	75.3							10	eye good	HAT-R		
148	27	0730	36.0	75.1							13	eye good	HAT-R		
149	27	0900	37.0	75.2								psbl eye	NHK-R		
150	27	0900	37.0	75.0	115		948						GOES 6	2,1 IR 8	

CENTER FIXES

HURRICANE GLORIA (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
151	27	0902	36.8	75.2								center fair	ACY-R		
152	27	0930	37.1	75.0								psbl eye	NHK-R		
153	27	0931	36.9	75.3								center fair	ACY-R		
154	27	1003	37.5	74.8							15	eye fair	ACY-R		
155	27	1003	37.4	74.8								eye fair	NHK-R		
156	27	1009	37.6	75.0		76	948	2668	15	17	C35	poorly def.	NOAA	5/5 8	700MB
157	27	1030	37.6	74.8								eye fair	NHK-R		
158	27	1030	37.7	74.8							15	eye fair	ACY-R		
159	27	1100	37.8	74.9								eye fair	NHK-R		
160	27	1102	37.9	74.7							15	eye poor	ACY-R		
161	27	1131	38.1	74.8							15	eye good	ACY-R		
162	27	1142	38.4	74.5	105	45	951		17	18		poorly def.	NOAA	5/5	850MB
163	27	1200	38.8	74.1	102		960						GOES 6	2,1 VIS 1	
164	27	1200	38.4	74.6								psbl eye	NHK-R		
165	27	1202	38.3	74.7							10	eye good	ACY-R		
166	27	1230	38.8	74.4								eye good	ACY-R		
167	27	1230	38.8	74.5								eye fair	NHK-R		
168	27	1300	39.1	74.3								eye fair	NHK-R		
169	27	1301	38.9	74.2							10	eye good	ACY-R		
170	27	1305	38.3	74.5								eye fair	NYC-R		
171	27	1325	39.2	74.2								eye poor	NHK-R		
172	27	1330	38.9	74.1								eye fair	NYC-R		
173	27	1405	39.8	74.0							10	eye good	ACY-R		
174	27	1410	39.6	73.8								eye good	NYC-R		
175	27	1412	39.6	73.9		100	955	1913	15	15		poorly def.	NOAA	3/8	850MB
176	27	1430	39.7	73.7								eye fair	NYC-R		
177	27	1500	40.1	73.6	90		970						GOES 6	2,1 VIS 1	
178	27	1505	40.0	73.7								eye poor	NYC-R		
179	27	1630	41.4	73.3								eye good	CHH-R		
180	27	1709	41.5	72.8								eye good	CHH-R		
181	27	1730	41.9	72.6								eye good	CHH-R		
182	27	1800	42.5	72.4								eye good	CHH-R		
183	27	1830	42.6	72.3								eye good	CHH-R		

CENTER FIXES

TROPICAL STORM HENRI 21-25 SEPTEMBER

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
1	21	1830	30.0	74.4	25								GOES 6	2,5 VIS 1	
2	22	0030	30.4	74.6	25								GOES 6	2,5 IR 8	
3	22	0321	31.2	74.6		55	1008		23	24			AF	5/6 IR 1	457M
4	22	0500	31.3	74.6	25								GOES 6	-,5 IR 8	
5	22	0554	31.5	74.8		50	1009		24	23			AF	5/8	457M
6	22	1131	32.7	74.0	20	24	1014		24	24			AF	4/10	457M
7	22	1230	32.3	74.1	25								GOES 6	2,5 VIS 1	
8	22	1338	32.5	74.0	50	40	1011		24	24			AF	4/5	457M
9	22	1528	32.7	74.4	30	40	1011		24	24			AF	4/4	457M
10	22	1700	32.9	74.6	15	27	1010		24	24			AF		457M
11	22	1800	32.7	74.4	25								GOES 6	2,3 VIS 1	
12	23	0017	34.1	74.5		32	1010		24	23			AF	5/10	457M
13	23	0030	33.8	74.2	25								GOES 6	1,3 IR 8	
14	23	0258	34.3	74.6		27	1009		23	21			AF	5/10	457M
15	23	0500	34.8	74.4	25								GOES 6	2,3 IR 8	
16	23	0506	34.7	74.6		39	1009		21				AF	5/10	457M
17	23	0900	36.0	74.1	35		1005						GOES 6	2,5 IR 8	
18	23	0929	36.1	74.0		69	999		22	23	C20	open s	AF	5/5	457M
19	23	1200	36.5	73.9	35		1005						GOES 6	2,3 VIS 1	
20	23	1227	36.2	74.1		64	996		24	24	C20		AF	5/5	457M
21	23	1430	36.4	74.0	35		1005						GOES 6	2,3 VIS 1	
22	23	1454	36.4	74.1		28	996	3064	11	17	C15	closed	AF	5/2	700MB
23	23	1800	36.8	74.0	35		1005						GOES 6	2,3 VIS 1	
24	23	1917	36.9	74.0	35	20	1000		18	22			AF	3/5	850MB
25	23	2030	37.2	74.0	35		1005						GOES 6	2,3 VIS 1	
26	23	2120	37.0	74.0	35	39	1003		24	24			AF	3/5	457M
27	23	2323	37.2	74.1	35	29	1004		21	24			AF	3/3	457M
28	24	0030	37.5	74.0									GOES 6	-,3 IR 8	
29	24	0220	37.6	74.0		27	1005		22	23			AF	2/5	457M
30	24	0300	37.5	74.1									GOES 6	-,3 IR 8	

CENTER FIXES

TROPICAL STORM HENRI (continued)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
31	24	0500	37.7	74.0									GOES 6	-,3 IR 8	
32	24	0502	38.0	74.0		35	1009		22	23			AF	5/5	457M
33	24	0800	38.5	73.8		35	1004		23	22			AF	5/5	457M
34	24	1147	39.2	73.5			1006		22	22			AF	2/2	457M
35	24	1200	39.2	73.5									GOES 6	-,3 VIS 1	
36	24	1308	39.5	73.5			1006						AF		457M
37	24	1451	39.9	73.3	30	36	1007						AF	4/3	457M
38	24	1704	40.3	73.0	25	30	1005		22	22			AF	4/5	457M
39	24	1800	40.4	72.8									GOES 6	-,3 VIS 2	
40	24	2030	41.0	72.6									GOES 6	-,3 VIS 2	

CENTER FIXES

TROPICAL STORM ISABEL 7-15 OCTOBER

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
1	06	2200	17.7	69.1	25								GOES 6	2,5 VIS 1	
2	07	0500	17.8	69.6	25								GOES 6	2,6 IR 8	
3	07	1200	18.9	70.7									GOES 6	-,5 VIS 1	
4	07	1800	20.7	71.5	30		1009						GOES 6	2,5 VIS 1	
5	08	0000	22.5	71.3	30		1009						GOES 6	2,6 IR 8	
6	08	0500	23.6	71.6	35		1005						GOES 6	2,6 IR 8	
7	08	0505	24.2	71.0		44	1004		23	24			AF	5/5	457M
8	08	1200	25.4	71.3	40		1003						GOES 6	2,5 VIS 1	
9	08	1207	25.1	71.5	40	44	1003		23	24			AF	3/10	457M
10	08	1428	25.5	71.6		25	1004						AF		457M
11	08	1713	26.1	72.1	50	55	1002		17	18			AF	4/5 IR 8	850MB
12	08	1800	26.0	71.8	45		1000						GOES 6	1,5 VIS 1	
13	08	1822	26.5	72.1	70	70	999		24	24			NOAA		457M
14	08	2106	26.9	72.2	75	65	997		23	24		poorly def.	NOAA	5/5	457M
15	08	2348	27.1	72.7		60	1000		22	24		poorly def.	NOAA	10/5	457M
16	09	0000	27.3	72.5	45		1000						GOES 6	2,5 IR 8	
17	09	0322	27.6	73.4		65	1002		22	23			AF	9/5	457M
18	09	0500	27.7	73.8	45		1000						GOES 6	2,5 IR 8	
19	09	1200	28.3	75.0	45		1000						GOES 6	1,3 VIS 1	
20	09	1515	28.2	75.9	50	55	1005		23	24			NOAA	5/5	457M
21	09	1800	28.5	76.4	35		1005						GOES 6	2,3 VIS 1	
22	09	1818	28.3	76.6	60	65	1004		23	24			NOAA	5/5	457M
23	09	1945	28.3	76.9	45	45	1004		23	24			NOAA	5/5	457M
24	09	2053	28.5	77.0	60	28	1005		22	24			NOAA	10/5	457M
25	09	2211	28.6	77.3		50	1006						NOAA		457M
26	09	2329	29.2	77.7		70	1005		22	25			NOAA	10/10	457M
27	09	2340	28.9	77.3		57	1005		14	14			AF	4/10	700MB
28	10	0000	29.0	77.6	45		1000						GOES 6	2,5 IR 8	
29	10	0224	29.0	78.7		50		1467	23	21			AF	4/5	850MB
30	10	0239	29.2	78.5		60	1004		23	29			NOAA	10/10	457M

CENTER FIXES

TROPICAL STORM ISABEL (continued)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
61	13	0000	32.0	78.3									GOES 6	-,3 IR 8	
62	13	0430	32.5	78.7	25								GOES 6	1,5 IR 8	
63	13	1200	32.7	78.6	25								GOES 6	2,3 VIS 2	
64	13	1800	32.4	77.9	25								GOES 6	2,1 VIS 2	
65	14	0000	32.8	77.2	25								GOES 6	2,3 IR 8	
66	14	0500	32.9	77.4	25								GOES 6	2,3 IR 8	
67	14	1200	33.5	76.9	25								GOES 6	2,3 VIS 2	
68	14	1800	33.6	75.9	25								GOES 6	2,1 VIS 2	
69	14	1845	33.7	75.8	20	28	1009			25			AF	5/10	457M
70	15	0000	33.8	75.2									GOES 6	-,3 IR 8	
71	15	0500	34.3	74.5	25								GOES 6	1,3 IR 8	
72	15	1230	35.8	82.6									GOES 6	-,5 VIS 1	

CENTER FIXES

TROPICAL STORM ISABEL (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
31	10	0430	29.5	79.1							45	center poor	DAB-R		
32	10	0500	28.8	79.2	45		1000						GOES 6	2,3 IR 8	
33	10	0536	29.5	79.1							25	center fair	DAB-R		
34	10	0548	29.2	79.3		45	1004		23	26			NOAA	3/10	457M
35	10	0630	29.5	79.4							20	center poor	DAB-R		
36	10	0706	29.3	79.5		45	1004						NOAA		457M
37	10	0730	29.3	79.6							18	center poor	DAB-R		
38	10	0826	29.5	79.9							20	center poor	DAB-R		
39	10	0832	29.4	79.7		45	1004		23	26			NOAA	3/5	457M
40	10	0900	29.1	79.8	45		1000						GOES 6	2,5 IR 8	
41	10	0925	29.5	80.0							20	center poor	DAB-R		
42	10	1001	29.4	79.9		45	1005						NOAA		457M
43	10	1026	29.6	80.0							15	center poor	DAB-R		
44	10	1112	29.5	80.2	35	45	1006						NOAA		457M
45	10	1126	29.6	80.1							16	center poor	DAB-R		
46	10	1159	29.6	80.3	40	45	1006		23	25			NOAA	3/6	457M
47	10	1230	29.4	80.4	45		1000						GOES 6	2,3 VIS 2	
48	10	1500	29.9	80.6	35	35	1009		22	25			NOAA	5/5	457M
49	10	1738	30.3	81.0	35	35	1008		23	25			NOAA	5/5	457M
50	10	1800	30.5	81.0	30		1009						GOES 6	2,3 VIS 2	
51	10	1912	30.3	81.1	40	40	1008		22	25			NOAA	5/5	457M
52	10	2045	30.6	81.3	40	40	1008		21	24			NOAA	5/5	457M
53	10	2100	30.6	81.4									GOES 6	-,3 VIS 1	
54	11	0000	30.8	81.5									GOES 6	-,3 IR 8	
55	11	0500	30.9	81.7									GOES 6	-,5 IR 8	
56	11	1800	32.0	81.0									GOES 6	-,3 VIS 1	
57	12	0000	31.5	80.5									GOES 6	-,5 IR 8	
58	12	0500	31.5	80.1									GOES 6	-,5 IR 8	
59	12	1200	31.8	80.0									GOES 6	-,5 VIS 2	
60	12	1800	31.3	79.5									GOES 6	-,3 VIS 2	

CENTER FIXES

HURRICANE JUAN 26 OCTOBER-01 NOVEMBER

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
1	26	0000	24.5	90.5	25								GOES 6	2,6 IR 8	
2	26	0600	24.0	92.1	25								GOES 6	2,6 IR 8	
3	26	1230	23.8	92.5	35		1005						GOES 6	2,4 IR 8	
4	26	1800	24.4	93.0	35		1005						GOES 6	2,4 VIS 1	
5	26	1801	24.4	92.8	30	32	996		21	22			AF	3/5	457M
6	26	2012	24.5	92.7	20	10	995		22	22			AF	3/5	457M
7	26	2331	24.5	92.1	40	38	993		22	22			AF	3/5	457M
8	27	0000	24.5	92.0	40		1002						GOES 6	2,3 IR 8	
9	27	0330	25.0	91.9		31	994		22	24			NOAA	10/5	457M
10	27	0506	25.1	92.4		47	991		21	23			NOAA	8/5	457M
11	27	0600	25.1	92.2	35		1005						GOES 6	2,45 IR 8	
12	27	0642	25.4	92.2		48	990		21	24			NOAA	5/10	457M
13	27	0803	25.3	92.0		42	988		21	23			NOAA	5/10	457M
14	27	1200	25.6	91.6	55		994						GOES 6	2,4 IR 8	
15	27	1203	25.6	91.5		42	986		22	23		poorly def.	NOAA	5/5	457M
16	27	1342	35.9	91.5		50	986						NOAA		457M
17	27	1515	26.1	91.4	55	60	986		22	23		poorly def.	NOAA	5/5	457M
18	27	1702	26.3	91.2	50	54	984		23	24		poorly def.	NOAA 6	5/5 IR 8	457M
19	27	1730	26.2	90.9	55		994						GOES 6	2,4 VIS 1	
20	27	2050	27.1	90.7	50	57	985		18	17			AF	3/5	850MB
21	27	2100	27.2	90.5	65		987						GOES 6	1,3 VIS 1	
22	27	2253	27.5	90.8	65	68	982						AF		850MB
23	27	2350	27.7	91.1		53	982		17	17			AF	3/5	850MB
24	28	0000	28.2	90.8	65		987						GOES 6	1,5 IR 8	
25	28	0202	28.5	91.5		48	977		13	11			AF	3/5	700MB
26	28	0300	28.7	91.3	65		987						GOES 6	2,5 IR 8	
27	28	0600	28.8	91.6	65		987						GOES 6	2,5 IR 8	
28	28	0600	28.6	91.4		65	973		17	21			NOAA	5/5	850MB
29	28	0733	28.9	91.7		75	974		14	20			NOAA	5/5	850MB
30	28	0831	29.2	91.8		75	972		14	22			NOAA	5/5	850MB

CENTER FIXES

HURRICANE JUAN (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
31	28	0900	29.3	91.8	65		987						GOES 6	2,5 IR 8	
32	28	0958	29.0	91.7								psbl center	LCH-R		
33	28	1012	29.3	92.1		75	973		14	21			NOAA	5/5	850MB
34	28	1025	29.3	91.7								psbl center	LCH-R		
35	28	1055	29.5	91.9								psbl center	LCH-R		
36	28	1111	29.3	92.2		65	972		13	20			NOAA	5/5	850MB
37	28	1125	29.6	91.9								psbl center	LCH-R		
38	28	1159	29.5	92.2								psbl center	LCH-R		
39	28	1200	29.5	92.0	65		987						GOES 6	2,4 IR 8	
40	28	1225	29.5	92.2								psbl center	LCH-R		
41	28	1256	29.5	92.5								psbl center	LCH-R		
42	28	1325	29.6	92.5								psbl center	LCH-R		
43	28	1332	29.5	92.3								center fair	GLS-R		
44	28	1358	29.6	92.6								psbl center	LCH-R		
45	28	1410	29.8	92.5							60	center fair	GLS-R		
46	28	1416	29.4	92.5	65	60	973		17	18			AF	5/5	850MB
47	28	1455	29.6	92.6								psbl center	LCH-R		
48	28	1500	29.6	92.8	65		987						GOES 6	2,4 VIS 1	
49	28	1510	29.7	92.8							60	center fair	GLS-R		
50	28	1525	29.7	92.8							28	psbl center	LCH-R		
51	28	1530	29.6	92.9							55	center fair	GLS-R		
52	28	1555	29.5	92.8							28	psbl center	LCH-R		
53	28	1610	29.4	92.9							30	center fair	GLS-R		
54	28	1625	29.4	92.9							28	center	LCH-R		
55	28	1631	29.5	92.9							25	psbl eye	GLS-R		
56	28	1655	29.4	93.0							30	center	LCH-R		
57	28	1705	29.3	92.9	55	55	972		16	18			AF 6	5/5 VIS 1	850MB
59	28	1710	29.3	92.9							30	psbl eye	GLS-R		
60	29	1725	29.3	93.0								psbl center	LCH-R		

CENTER FIXES

HURRICANE JUAN (continued)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
61	28	1730	29.1	92.9							30	psbl eye	GLS-R		
62	28	1755	29.2	92.8								psbl center	LCH-R		
63	28	1800	29.2	92.8	65		987						GOES 6	2,4 VIS 1	
64	28	1810	29.3	92.9							20	psbl eye	GLS-R		
65	28	1825	29.2	92.9								psbl center	LCH-R		
66	28	1831	29.2	92.8							20	psbl eye	GLS-R		
67	28	1855	29.1	92.8								psbl center	LCH-R		
68	28	1910	29.1	92.8							20	eye fair	GLS-R		
69	28	1925	29.1	92.7								center	LCH-R		
70	28	1930	29.0	92.8							20	eye fair	GLS-R		
71	28	1956	29.2	92.8								center	LCH-R		
72	28	2002	29.1	92.9	45	50	971		17	19			AF	5/5	850MB
73	28	2010	29.0	92.7							20	eye fair	GLS-R		
74	28	2025	29.1	92.7								center	LCH-R		
75	28	2029	28.9	92.6							20	eye fair	GLS-R		
76	28	2100	29.3	92.6	55		994						GOES 6	2,3 VIS 1	
77	28	2110	28.9	92.5							40	center	GLS-R		
78	28	2125	29.0	92.6								psbl center	LCH-R		
79	28	2128	28.9	92.4							50	psbl center	GLS-R		
80	28	2159	29.1	92.7								psbl center	LCH-R		
81	28	2229	29.1	92.6								psbl center	LCH-R		
82	28	2256	29.0	92.5								psbl center	LCH-R		
83	28	2332	29.0	92.5								psbl center	LCH-R		
84	29	0000	29.2	92.4	55		994						GOES 6	2,3 IR 8	
85	29	0030	29.0	92.5								psbl center	LCH-R		
86	29	0034	28.9	92.5		40	973		15	18		poorly def.	NOAA	5/5	850MB
87	29	0058	29.0	92.5								psbl center	LCH-R		
88	29	0130	29.0	92.5								psbl center	LCH-R		
89	29	0157	28.9	92.3								psbl center	LCH-R		
90	29	0203	29.0	92.4		52	974		15	18		poorly def.	NOAA	10/10	850MB

CENTER FIXES

HURRICANE JUAN (continued)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
91	29	0229	28.7	92.3								psbl center	LCH-R		
92	29	0300	28.8	92.3								psbl center	LCH-R		
93	29	0300	29.0	92.2	55		994						GOES 6	1,3 IR 8	
94	29	0303	28.9	92.2		46	975		16	18		poorly def.	NOAA	5/5	850MB
95	29	0329	28.8	92.9								psbl center	LCH-R		
96	29	0359	28.8	92.1							20	eye good	LCH-C		
97	29	0426	28.9	92.0		56	976		15	18			NOAA	5/5	850MB
98	29	0428	28.9	92.0							20	eye good	LCH-R		
99	29	0500	28.8	92.0							15	eye fair	LCH-C		
100	29	0600	28.9	91.8								psbl center	SIL-R		
101	29	0600	28.9	91.8	55		994						GOES 6	2,4 IR 8	
102	29	0604	28.7	91.7							35	psbl eye	LCH-R		
103	29	0630	29.0	91.7							20	eye fair	LCH-R		
104	29	0635	29.0	91.9								psbl center	SIL-R		
105	29	0700	29.0	91.6							18	eye fair	SIL-R		
106	29	0735	29.0	91.5							18	eye fair	SIL-R		
107	29	0800	29.1	91.5							20	eye fair	SIL-R		
108	29	0805	29.2	91.4								psbl center	LCH-R		
109	29	0825	29.2	91.5							15	psbi center	LCH-R		
110	29	0835	29.1	91.5							22	eye fair	SIL-R		
111	29	0900	29.2	91.4							22	center fair	SIL-R		
112	29	0900	29.1	91.5	55		994						GOES 6	2,3 IR 8	
113	29	0927	29.4	92.3		40	974			19			AF	1/2	850MB
114	28	0930	29.3	91.4							22	center fair	SIL-R		
115	29	0955	29.4	91.3								psbl center	LCH-R		
116	29	1000	29.4	91.4							30	center fair	SIL-R		
117	29	1025	29.6	91.4								psbl center	LCH-R		
118	29	1028	29.5	91.3							20	center fair	SIL-R		
119	29	1055	29.6	91.2								psbl center	LCH-R		
120	29	1100	29.4	91.2							20	center poor	SIL-R		

CENTER FIXES

HURRICANE JUAN (continued)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
121	29	1130	29.6	91.1							20	center poor	SIL-R		
122	29	1155	29.6	91.2								psbl center	LCH-R		
123	29	1200	29.5	91.5	55		994						GOES 6	2,2 IR 8	
124	29	1200	29.6	91.3		55	974		16	18			AF	1/3	850MB
125	29	1200	29.8	91.2							25	center poor	SIL-R		
126	29	1230	29.9	91.1							20	center poor	SIL-R		
127	29	1254	29.7	91.2								psbl center	LCH-R		
128	29	1300	29.8	91.2							10	center fair	SIL-R		
129	29	1330	29.6	91.3							10	center fair	SIL-R		
130	29	1330	29.9	91.4							10	center	LCH-R		
131	29	1353	29.8	91.4								psbl center	LCH-R		
132	29	1400	29.8	91.3							12	eye fair	SIL-R		
133	29	1419	29.9	91.4		53	974		16	16			AF	1/3	850MB
134	29	1428	30.1	91.3								psbl center	LCH-R		
135	29	1431	29.9	91.3							07	eye fair	SIL-R		
136	29	1500	30.0	91.3							07	eye fair	SIL-R		
137	29	1503	30.1	91.5								psbl center	LCH-R		
138	29	1525	30.2	91.3								psbl center	LCH-C		
139	29	1531	30.1	91.3							08	eye fair	SIL-R		
140	29	1554	30.0	91.6								psbl center	LCH-R		
141	29	1558	30.0	91.5							12	center fair	SIL-R		
142	29	1625	30.3	91.7								psbl center	LCH-R		
143	29	1630	30.1	91.6							18	center poor	SIL-R		
144	29	1659	30.4	91.7								psbl center	LCH-R		
145	29	1700	30.2	91.6							12	center fair	SIL-R		
146	29	1727	30.1	91.7								psbl center	LCH-R		
147	29	1731	30.2	91.6							12	center fair	SIL-R		
148	29	1754	30.3	91.7								psbl center	LCH-R		
149	29	1800	30.3	91.7							12	center fair	SIL-R		
150	29	1831	30.3	91.7							16	center fair	SIL-R		

CENTER FIXES

HURRICANE JUAN (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
151	29	1853	30.4	91.9								psbl center	LCH-R		
152	29	1900	30.3	91.8							12	center fair	SIL-R		
153	29	1925	30.4	91.8								psbl center	LCH-R		
154	29	1931	30.4	91.8							10	center fair	SIL-R		
155	29	1955	30.4	91.9								psbl center	LCH-R		
156	29	2000	30.3	91.9							12	center fair	SIL-R		
157	29	2025	30.4	91.8								psbl center	LCH-R		
158	29	2035	30.4	91.8							12	center fair	SIL-R		
159	29	2053	30.5	91.9								psbl center	LCH-R		
160	29	2100	30.5	91.9							11	center fair	SIL-R		
161	29	2158	30.6	92.2								psbl center	LCH-R		
162	29	2227	30.5	92.1								psbl center	LCH-R		
163	29	2252	30.5	92.2								psbl center	LCH-R		
164	29	2330	30.4	92.3								psbl center	LCH-R		
165	30	0000	30.8	92.5									GOES 6	-,3 IR 1	
166	30	0004	30.3	92.5								psbl center	LCH-R		
167	30	0026	30.3	92.3								psbl center	LCH-R		
168	30	0102	30.3	92.4								psbl center	LCH-R		
169	30	0128	30.3	92.4								psbl center	LCH-R		
170	30	0203	30.2	92.4								psbl center	LCH-R		
171	30	0228	30.2	92.4								psbl center	LCH-R		
172	30	0304	30.1	92.5								psbl center	LCH-R		
173	30	0332	30.1	92.4								psbl center	LCH-R		
174	30	0403	30.0	92.5								psbl center	LCH-R		
175	30	0425	30.0	92.5								psbl center	LCH-R		
176	30	0459	29.9	92.6								psbl center	LCH-R		
177	30	0600	30.0	92.7									GOES 6	-,3 IR 8	
178	30	0601	29.7	92.4								psbl center	LCH-R		
179	30	0625	29.7	92.4								psbl center	LCH-R		
180	30	0700	29.8	92.5								psbl center	LCH-R		

CENTER FIXES

HURRICANE JUAN (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
181	30	0730	29.8	92.5								psbl center	LCH-R		
182	30	0758	29.7	92.5								psbl center	LCH-R		
183	30	0825	29.7	92.4								psbl center	LCH-R		
184	30	0856	29.7	92.3								psbl center	LCH-R		
185	30	0904	29.8	92.3								psbl center	GLS-R		
186	30	0925	29.7	92.3								psbl center	LCH-R		
187	30	0927	29.7	92.3								psbl center	GLS-R		
188	30	0952	29.7	92.3								psbl center	LCH-R		
189	30	1001	29.7	92.3								psbl center	GLS-R		
190	30	1026	29.6	92.3								psbl center	GLS-R		
191	30	1032	29.6	92.3								psbl center	LCH-R		
192	30	1057	29.6	92.2								psbl center	LCH-R		
193	30	1126	29.6	92.3								psbl center	GLS-R		
194	30	1127	29.6	92.3								psbl center	LCH-R		
195	30	1154	29.6	92.1								psbl center	LCH-R		
196	30	1200	29.7	92.2									GOES 6	-,3 VIS 1	
197	30	1204	29.6	92.2								psbl center	GLS-R		
198	30	1228	29.5	92.0								psbl center	GLS-R		
199	30	1256	29.5	92.0								psbl center	GLS-R		
200	30	1302	29.6	92.0								psbl center	LCH-R		
201	30	1326	29.5	92.2								psbl center	LCH-R		
202	30	1500	29.3	92.0									GOES 6	-,3 VIS 1	
203	30	1800	29.3	91.9									GOES 6	-,3 VIS 1	
204	30	2028	29.6	92.0								psbl center	LCH-R		
205	30	2100	29.3	91.4									GOES 6	-,3 VIS 1	
206	30	2300	29.2	90.9									GOES 6	-,3 IR 1	
207	31	0531	28.9	90.8								center fair	SIL-R		
208	31	0600	28.8	90.3									GOES 6	-,3 IR 8	
209	31	0601	28.9	90.4							12	center fair	SIL-R		
210	31	0626	28.9	90.4							12	center fair	SIL-R		

CENTER FIXES

HURRICANE JUAN (continued)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
211	31	0700	28.8	90.2							12	center fair	SIL-R		
212	31	0730	28.9	90.1							12	center fair	SIL-R		
213	31	0800	28.9	90.0							15	center fair	SIL-R		
214	31	0830	28.9	89.9							13	center good	SIL-R		
215	31	0900	29.0	89.8							12	center fair	SIL-R		
216	31	0900	29.0	89.8									GOES 6	-,3 IR 8	
217	31	0925	29.0	89.7							12	center fair	SIL-R		
218	31	0958	28.9	89.5							12	center fair	SIL-R		
219	31	1028	29.0	89.3							12	center fair	SIL-R		
220	31	1058	29.1	89.2							13	center fair	SIL-R		
221	31	1127	29.1	89.1							13	center poor	SIL-R		
222	31	1200	29.3	89.2									GOES 6	-,3 VIS 1	
223	31	1203	29.2	98.0							11	center poor	SIL-R		
224	31	1234	29.3	88.8							10	center poor	SIL-R		
225	31	1325	29.5	88.7							08	center poor	NPA-R		
226	31	1326	29.5	88.7							11	center poor	SIL-R		
227	31	1400	29.5	88.6							09	center poor	SIL-R		
228	31	1402	29.5	88.4							18	center fair	NPA-R		
229	31	1425	29.6	88.3							32	center poor	NPA-R		
230	31	1426	29.5	88.7							07	center poor	SIL-R		
231	31	1455	29.7	88.3							25	center poor	NPA-R		
232	31	1500	29.6	88.3									GOES 6	-,3 VIS 1	
233	31	1502	29.6	88.5							10	center poor	SIL-R		
234	31	1525	29.8	88.2							28	center poor	NPA-R		
235	31	1526	29.8	88.5							08	center poor	SIL-R		
236	31	1555	29.9	88.1							25	center fair	NPA-R		
237	31	1600	29.9	88.2							13	center poor	SIL-R		
238	31	1626	29.9	87.9							28	center poor	NPA-R		
239	31	1631	30.0	88.3	40	40	983		15			poorly def.	AF	2/5	850MB
240	31	1631	30.0	88.0							12	center poor	SIL-R		

CENTER FIXES

HURRICANE JUAN (continued)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
241	31	1640	30.0	88.0							20	center good	MOB-R		
242	31	1654	30.1	87.8							28	center fair	NPA-R		
243	31	1700	30.1	87.9							16	center poor	SIL-R		
244	31	1726	30.2	87.7							20	center poor	NPA-R		
245	31	1731	30.3	87.9							16	center poor	SIL-R		
246	31	1745	30.2	87.7							15	center fair	MOB-R		
247	31	1758	30.2	87.6							25	center poor	NPA-R		
248	31	1800	30.1	87.7									GOES 6	-,3 VIS 1	
249	31	1825	30.3	87.5							30	center poor	NPA-R		
250	31	1829	30.4	87.6							12	center poor	SIL-R		
251	31	1900	30.6	87.6							11	center poor	SIL-R		
252	31	1930	30.8	87.5							10	center poor	SIL-R		
253	31	2100	31.3	87.0									GOES 6	-,5 VIS 1	
254	01	0000	32.2	87.1									GOES 6	-,- IR 8	

CENTER FIXES

HURRICANE KATE 15-23 NOVEMBER

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
1	14	1730	18.8	62.6	25								GOES 6	2,5 VIS 1	
2	15	0000	19.0	62.0	25								GOES 6	2,5 IR 8	
3	15	0600	19.5	63.5	25								GOES 6	2,5 IR 8	
4	15	1200	19.6	64.6	35								GOES 6	2,5 VIS 1	
5	15	1800	21.4	63.8	35		1005						GOES 6	2,5 IR 8	
6	15	1823	21.2	63.8	30	28	999		22	22			AF	2/5	457M
7	15	2011	21.2	63.9	45	47	999		22	21			AF	5/2	457M
8	16	0000	21.6	63.9	45		1000						GOES 6	2,5 IR 8	
9	16	0600	21.7	64.2	45		1000						GOES 6	2,6 IR 8	
10	16	1300	20.9	64.6	55		994						GOES 6	2,5 VIS 1	
11	16	1800	21.1	65.3	70	68	987		22	24	E09/20/10	closed	AF	3/4	457M
12	16	1830	21.21	65.2	65		987						GOES 6	2,5 VIS 1	
13	16	2023	20.9	65.6	75	65	985		25	25		closed	AF	2/2 IR 8	457M
14	17	0000	20.8	66.1	65		987						GOES 6	2,5 IR 8	
15	17	0001	20.7	66.0		33	981		20	21	C20	closed	AF	3/5	457M
16	17	0151	20.5	66.1		53	982	1243					AF		850MB
17	17	0225	20.5	66.1			985	2933					AF		700MB
18	17	0501	20.6	66.4		49	984	1271	17	18	E05/20/30	open sw	AF	5/3	850MB
19	17	0600	20.4	66.6	65		987						GOES 6	2,6 IR 8	
20	17	1155	20.7	67.3	50	53	982		24	24	E18/20/10	poorly def.	AF	4/5	457M
21	17	1300	20.6	67.2	65		987						GOES 6	2,3 VIS 1	
22	17	1435	20.9	67.6	50	56	982						AF		457M
23	17	1700	21.1	68.3	35	42	977		24	24	C20	poorly def.	AF	4/5	457M
24	17	1800	21.2	68.6	77		979						GOES 6	2,1 VIS 1	
25	18	0000	21.4	69.9	77		979						GOES 6	2,1 IR 8	
26	18	0300	21.5	70.7	77		979						GOES 6	2,1 IR 1	
27	18	0547	21.6	71.6		80	976		17	21	C30	closed	AF	2/3	850MB
28	18	0600	21.6	71.3	83		975						GOES 6	2,3 IR 8	
29	18	0745	21.6	72.1		61	975		19	20	C20	closed	AF	2/3	850MB
30	18	0855	21.6	72.3		85	974		11	14	C40	closed	AF	2/3	700MB

CENTER FIXES

HURRICANE KATE (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
31	18	0900	21.7	72.3	85		973						GOES 6	3,1 IR 8	
32	18	1126	21.6	73.0	90	93	975		18	20	C40	closed	AF	9/20	850MB
33	18	1230	21.8	73.2	90		970						GOES 6	2,1 VIS 1	
34	18	1350	21.6	73.7	50	101	977	2870	12	15	C40	closed	AF	9/20	700MB
35	18	1500	21.9	74.2	90		970						GOES 6	2,1 VIS 1	
36	18	1529	21.7	74.2		93	975		10	13	C30	closed	AF		700MB
37	18	1821	21.9	75.1	85	81	972						AF		850MB
38	18	1830	21.9	75.2	95		966						GOES 6	2,1 VIS 1	
39	18	2020	21.9	75.6	90		971	1155	19	20	E07/30/25	closed	AF	3/3	850MB
40	18	2217	22.1	76.4	105	100	970	1133					AF		850MB
41	18	2332	22.3	76.8		71	967	1124	16	21	C30	closed	AF	3/3	850MB
42	19	0000	22.0	76.8	102		960						GOES 6	2,1 IR 8	
43	19	0300	22.1	77.6	102		960						GOES 6	2,1 IR 8	
44	19	0323	22.3	77.8									AF-R		
45	19	0524	22.6	78.0									AF-R		
46	19	0600	22.1	78.6	102		960						GOES 6	1,1 IR 8	
47	19	0900	22.4	79.3	102		960						GOES 6	2,1 IR 8	
48	19	1200	22.7	80.2	102		960						GOES 6	2,1 IR 8	
49	19	1500	22.9	81.0	102		960						GOES 6	2,1 VIS 1	
50	19	1800	23.2	81.9	102		960						GOES 6	2,1 VIS 1	
51	19	1830	23.3	82.0							28	eye good	EYW-R		
52	19	1900	23.3	82.1							30	eye good	EYW-R		
53	19	1930	23.4	82.2							22	eye good	EYW-R		
54	19	2030	23.5	82.4							30	eye good	EYW-R		
55	19	2100	23.5	82.4							20	eye good	EYW-R		
56	19	2130	23.6	82.6							20	eye good	EYW-R		
57	19	2130	23.6	82.6	75		976		17	19	C20	well def.	AF	4/3	850MB
58	19	2230	23.7	82.8							20	eye good	EYW-R		
59	19	2300	23.8	83.0							20	eye good	EYW-R		
60	19	2320	23.9	83.2			973	1191	16	21	C25	well def.	AF	4/3	850MB

CENTER FIXES

HURRICANE KATE (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
61	19	2330	23.8	83.1							20	eye good	EYW-R		
62	20	0000	23.8	83.2	115		948						GOES 6	1,1 IR 8	
63	20	0003	23.8	83.3							20	eye good	EYW-R		
64	20	0030	23.9	83.4							20	eye good	EYW-R		
65	20	0100	23.9	83.5							20	eye good	EYW-R		
66	20	0119	24.0	83.7		100	972	1179					AF		850MB
67	20	0130	24.0	83.7							19	eye good	EYW-R		
68	20	0200	24.1	83.7							20	eye good	EYW-R		
69	20	0200	24.0	83.8		100	970	1164	17	21	C18	well def.	AF	5/3	850MB
70	20	0230	24.1	83.8							20	eye good	EYW-R		
71	20	0300	24.2	83.9							22	eye good	EYW-R		
72	20	0300	24.1	83.7	115		948						GOES 6	1,1 IR 8	
73	20	0330	24.2	84.1							20	eye good	EYW-R		
74	20	0400	24.3	84.2							22	eye good	EYW-R		
75	20	0430	24.4	84.3							25	eye fair	EYW-R		
76	20	0500	24.5	84.4							20	eye fair	EYW-R		
77	20	0530	24.5	84.5							20	eye fair	EYW-R		
78	20	0600	24.6	84.6							20	eye fair	EYW-R		
79	20	0600	24.6	84.4	115		948						GOES 6	1,2 IR 8	
80	20	0605	24.6	84.5		55	968	1134	19	21	C18	closed	AF	7/3	850MB
81	20	0630	24.6	84.7							30	eye fair	EYW-R		
82	20	0702	24.7	84.8							20	eye fair	EYW-R		
83	20	0800	24.8	85.1								psbl center	EWY-R		
84	20	0813	24.7	85.0		75	963	1090	17	22	C17	closed	AF	7/3	850MB
85	20	0900	24.9	85.0	115		948						GOES 6	1,2 IR 8	
86	20	0953	24.9	85.0		85	963	1092			C12	closed	AF		850MB
87	20	1142	25.2	85.2		91	956	1023	19	22	E36/18/12	closed	AF	3/3	850MB
88	20	1230	25.2	85.5	115		948						GOES 6	1,1 VIS 1	
89	20	1500	25.5	85.6	115		948						GOES 6	1,1 VIS 1	
90	20	1507	25.5	85.8		109	955	1018	16	19	C13	closed	AF	3/5	850MB

CENTER FIXES

HURRICANE KATE (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
91	20	1719	25.8	86.0		107	956	1020	16	19	C20	closed	AF	3/3	850MB
92	20	1800	26.0	86.1	115		948						GOES 6	1,1 VIS 1	
93	20	2000	26.2	86.2	100	92	953	989	17	19	C20	closed	AF	5/3	850MB
94	20	2100	26.4	86.2	115		948						GOES 6	1,1 VIS 1	
95	21	0000	27.1	86.3	115		948						GOES 6	1,2 IR 8	
96	21	0000	26.8	86.5		91	954	1016	16	22	C20	closed	AF	5/5	850MB
97	21	0055	27.1	86.4							25	eye poor	NPA-R		
98	21	0125	27.1	86.4							20	eye poor	NPA-R		
99	21	0132	27.0	86.4		95	957	1037					AF		850MB
100	21	0155	27.2	86.4							20	eye poor	NPA-R		
101	21	0225	27.0	86.6							20	eye poor	AQQ-R		
102	21	0300	27.3	86.3	115		948						GOES 6	2,2 IR 8	
103	21	0303	27.1	86.6							20	eye fair	AQQ-R		
104	21	0309	27.2	86.5		96	959	1051	17	20	C20	closed	AF	5/3	850MB
105	21	0328	27.1	86.6							20	eye fair	AQQ-R		
106	21	0405	27.2	86.6							20	eye fair	AQQ-R		
107	21	0425	27 5	86 6							20	eye poor	AQQ-R		
108	21	0459	27.5	86.5							20	eye poor	AQQ-R		
109	21	0500	27.3	86.6		70	961	1071	20	20	C25	closed	AF	5/5	850MB
110	21	0600	27.6	86.6	102		960						GOES 6	2,3 IR 8	
111	21	0628	27.5	86.6							25	eye poor	AQQ-R		
112	21	0706	27.6	86.6							25	eye fair	AQQ-R		
113	21	0801	27.7	86.7							32	eye fair	AQQ-R		
114	21	0825	27.9	86.6		73	963	2758	13	14	E18/20/15	open ssw	AF	2/2	700MB
115	21	0830	27.9	86.6							25	eye fair	NPA-R		
116	21	0832	27.8	86.8							38	eye fair	AQQ-R		
117	21	0900	27.9	86.4	102		960						GOES 6	2,3 IR 8	
118	21	0902	27.8	86.8							40	eye poor	AQQ-R		
119	21	0927	28.0	86.7							25	eye fair	AQQ-R		
120	21	0928	28.1	86.5								eye poor	NPA-R		

CENTER FIXES

HURRICANE KATE (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
121	21	1000	28.1	86.6								eye good	NPA-R		
122	21	1001	28.1	86.6							25	eye good	AQQ-R		
123	21	1011	28.1	86.6		67	962	2755					AF		700MB
124	21	1025	28.2	86.6								eye good	NPA-R		
125	21	1026	28.1	86.7							25	eye good	AQQ-R		
126	21	1101	28.1	86.7							25	eye good	AQQ-R		
127	21	1101	28.2	86.6								eye good	NPA-R		
128	21	1124	28.2	86.6							18	eye good	NPA-R		
129	21	1126	28.2	86.7							20	eye good	AQQ-R		
130	21	1201	28.2	86.5							20	eye good	AQQ-R		
131	21	1207	28.3	86.6							18	eye good	NPA-R		
132	21	1227	28.4	86.5	45	81	966	2758	12	14	E19/28/15	open e	AF	5/2	700MB
133	21	1228	28.3	86.6							20	eye good	AQQ-R		
134	21	1233	28.3	86.5							20	eye good	NPA-R		
135	21	1300	28.3	86.2	102		960						GOES 6	2,3 VIS 1	
136	21	1301	28.3	86.6							21	eye good	AQQ-R		
137	21	1302	28.4	86.5							23	eye fair	NPA-R		
138	21	1324	28.4	86.5							24	eye fair	NPA-R		
139	21	1330	28.6	86.6							22	eye good	AQQ-R		
140	21	1401	28.4	86.5							35	eye fair	NPA-R		
141	21	1406	28.4	86.6							23	eye good	AQQ-R		
142	21	1425	28.5	86.5							28	eye fair	NPA-R		
143	21	1433	28.4	86.5							25	eye good	AQQ-R		
144	21	1434	28.6	86.3	65	75	965	2778	13	13			AF	5/3	700MB
145	21	1500	28.5	86.2	90		970						GOES 6	2,5 VIS 1	
146	21	1500	28.5	86.4							22	eye good	NPA-R		
147	21	1502	28.6	86.4							30	eye poor	AQQ-R		
148	21	1525	28.6	86.3							28	eye poor	NPA-R		
149	21	1528	28.6	86.3							19	eye good	AQQ-R		
150	21	1556	28.7	86.3							20	eye good	AQQ-R		

CENTER FIXES

HURRICANE KATE (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	POSITION LON.	MAX WIND (KT) SFC.	MAX WIND (KT) FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	TEMP. C IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
151	21	1602	28.8	86.3							26	eye poor	NPA-R		
152	21	1625	28.8	86.3							27	eye poor	NPA-R		
153	21	1628	28.8	86.3							19	eye good	AQQ-R		
154	21	1700	28.9	86.3							17	eye good	AQQ-R		
155	21	1702	29.0	86.2							27	eye fair	NPA-R		
156	21	1725	29.0	86.2							15	eye fair	NPA-R		
157	21	1726	29.0	86.3							17	eye good	AQQ-R		
158	21	1800	29.2	86.2							17	eye good	AQQ-R		
159	21	1800	29.1	86.3	90		970						GOES 6	2,1 VIS 1	
160	21	1802	29.2	86.1							17	eye good	NPA-R		
161	21	1825	29.2	86.1							18	eye good	NPA-R		
162	21	1826	29.2	86.2							14	eye good	AQQ-R		
163	21	1829	29.2	86.2	80	71	967	1148	23	23	C18		AF	5/3	850MB
164	21	1900	29.3	86.0							14	eye good	AQQ-R		
165	21	1902	29.3	86.0							18	eye good	NPA-R		
166	21	1905	29.2	86.0								center good	MOB-R		
167	21	1925	29.4	86.0							18	eye fair	NPA-R		
168	21	1926	29.4	86.0							12	eye good	AQQ-R		
169	21	1933	29.3	85.9								center poor	MOB-R		
170	21	1959	29.5	86.0							18	eye good	AQQ-R		
171	21	2002	29.5	85.9							15	eye poor	NPA-R		
172	21	2003	29.4	85.8								center poor	MOB-R		
173	21	2004	29.5	85.9		75	967		19	19			AF		850MB
174	21	2025	29.6	85.9							15	eye poor	NPA-R		
175	21	2029	29.6	85.7							10	eye fair	AQQ-R		
176	21	2033	29.5	85.8								center fair	MOB-R		
177	21	2058	29.7	85.7							13	eye good	AQQ-R		
178	21	2100	29.7	85.5	77		966						GOES 6	2,1 VIS 1	
179	21	2103	29.6	85.7								center poor	MOB-R		
180	21	2104	29.7	85.7							10	eye fair	NPA-R		

CENTER FIXES

HURRICANE KATE (CONTINUED)

FIX NO.	DATE	TIME (GMT)	POSITION LAT.	LON.	MAX WIND (KT) SFC.	FLT. LVL.	MIN. PRES. (MB)	MIN. 700MB HT.(M)	TEMP. C OUT	IN	EYE C=CIR.DIA. E=ELIP.(N.MI.)	CHARACTER-ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
181	21	2125	29.8	85.7							10	eye fair	NPA-R		
182	21	2132	29.9	85.5							10	eye good	AQQ-R		
183	21	2202	29.8	85.6							11	eye poor	NPA-R		
184	21	2203	29.9	85.5							21	eye poor	AQQ-R		
185	21	2225	29.9	85.4							14	eye poor	NPA-R		
186	21	2227	29.9	85.4							17	eye fair	AQQ-R		
187	21	2304	30.1	85.5	55	52			17	23	E05/25/15	poorly def.	AF	3/210	850MB
188	21	2308	30.2	85.3							24	center poor	AQQ-R		
189	22	0000	30.4	85.1									GOES 6	-,1 IR 8	
190	22	0600	31.6	83.4									GOES 6	-,5 IR 8	
191	22	0900	32.3	82.5									GOES 6	-,5 IR 8	
192	22	1230	32.7	81.4									GOES 6	-,5 VIS 1	
193	22	1500	32.8	80.4									GOES 6	-,5 VIS 1	
194	22	1800	33.2	79.2	45		1000						GOES 6	2,5 VIS 1	
195	22	2100	33.7	78.6	45		1000						GOES 6	3,5 VIS 1	
196	22	2130	34.3	77.4	15	36	998	1395	15	16			AF	1/5	850MB
197	23	0000	34.0	76.3	45		991						GOES 6	3,5 IR 8	
198	23	0019	34.7	76.2		45	1003	1415	14	13		poorly def.	AF	5/10	850MB
199	23	0233	34.3	75.0		18	1005	1427	13	12			AF	6/10	850MB
200	23	0300	34.2	74.4	45		1000						GOES 6	3,5 IR 8	
201	23	0500	34.2	74.3		35	1005	1433	13	13			AF	5/5	850MB
202	23	0600	34.8	73.2	45		1000						GOES-6	2,5 IR 4	
203	23	1230	34.5	71.8									GOES 6	-,5 VIS 1	
204	23	1800	33.5	70.5									GOES 6	-,3 VIS 1	

SUPPLEMENTARY VORTEX DATA MESSAGE

MENOP HEADING *(Completed by monitors only)*

URNT 12 _____

MISSION IDENTIFIER AND OBSERVATION NUMBER *(Completed by flight meteorologist and monitor)*

AF _____

SUPPLEMENTARY VORTEX DATA MESSAGE				
($L_aL_aL_a$)	($L_aL_aL_aL_a$)	(jHHH)	(TTT_dT_d)	(ddfff)
00	0	0	0	
80	8	8	8	
60	6	6	6	
45	4	4	4	
30	3	3	3	
15	1	1	1	
CC	C	C	C	(YYGGgg)
(fff)	(BBRRR)	(ddd)		
MF		AZ		
($L_aL_aL_a$)	($L_aL_aL_aL_a$)	(jHHH)	(TTT_dT_d)	(ddfff)
15	1	1	1	
30	3	3	3	
45	4	4	4	
60	6	6	6	
80	8	8	8	
00	0	0	0	
(fff)	(BBRRR)			
MF				

REMARKS *(End of message)*

LEGEND

00/0 = INDICATORS FOR DATA COLLECTE APPROX 100NM FROM SYSTEM CEN

80/8 = INDICATORS FOR DATA COLLEC APPROX 80NM FROM SYSTEM CENTE

60/6 = INDICATORS FOR DATA COLLEC APPROX 60NM FROM SYSTEM CENTE

45/4 = INDICATORS FOR DATA COLLEC APPROX 45NM FROM SYSTEM CENT

30/3 = INDICATORS FOR DATA COLLECTI APPROX 30NM FROM SYSTEM CEN

15/1 = INDICATORS FOR DATA COLLEC APPROX 15NM FROM SYSTEM CENT

CC/C = INDICATORS FOR DATA COLLEC AT THE SYSTEM CENTER

ddd = TRUE DIRECTION IN TENS OF DEGREES OF STORM MOTION

MF = INDICATOR FOR MAX FLIGHT LEVE WIND OBSERVED

AZ = INDICATOR FOR TRUE DIRECTION STORM MOTION

fff = SPEED OF WIND IN KNOTS

dd = TRUE DIRECTION OF FLIGHT LEVEL WIND SPEED IN TENS OF DEGREES

BBRRR = BEARING (BB) AND RANGE (RRR FROM CENTER OF MF

YYGGgg = ZULU DATE/TIME OF CENTER F

TTT_dT_d = TEMP/DEWPOINT IN DEGREES CELSIUS; ADD 50 FOR NEGATIVE VALUES

jHHH = PRESSURE HEIGHT DATA IN REC FORMAT

L_aL_a = LATITUDE IN DEGREES/TENTHS

$L_aL_aL_a$ = LONGITUDE IN DEGREES/TEN

/ = DATA UNKNOWN/UNOBTAINABLE

SAMPLE MESSAGE

```
URNT 12 KMIA 241703
AF966 0411 FREDERIC OB 14
SUPPLEMENTARY VORTEX DATA MESSAGE
00178   00899   03107   00908   36027
80177   80895   83100   80908   35042
60178   60891   63092   60807   36052
45177   40887   43088   40907   35070
30178   30883   33070   30908   36088
15178   10880   13000   11010   35108
CC177   C0876   C3947   C1811   241647
MF148   27003   AZ310
15177   10872   13000   11010   18120
30178   30868   33070   31009   17098
45178   40862   43088   40909   18080
60177   60858   63093   60908   17050
80177   80854   83102   80908   17048
00178   00850   03108   00905   18031
MF145   09005
REMARKS LAST REPORT OBS 01 THRU 14TO KMIA ETA KBIX 241930Z
```

APPENDIX A

CODE FOR SUPPLEMENTARY VORTEX DATA MESSAGE.

PREPARED BY

TRANSMISSION TIME

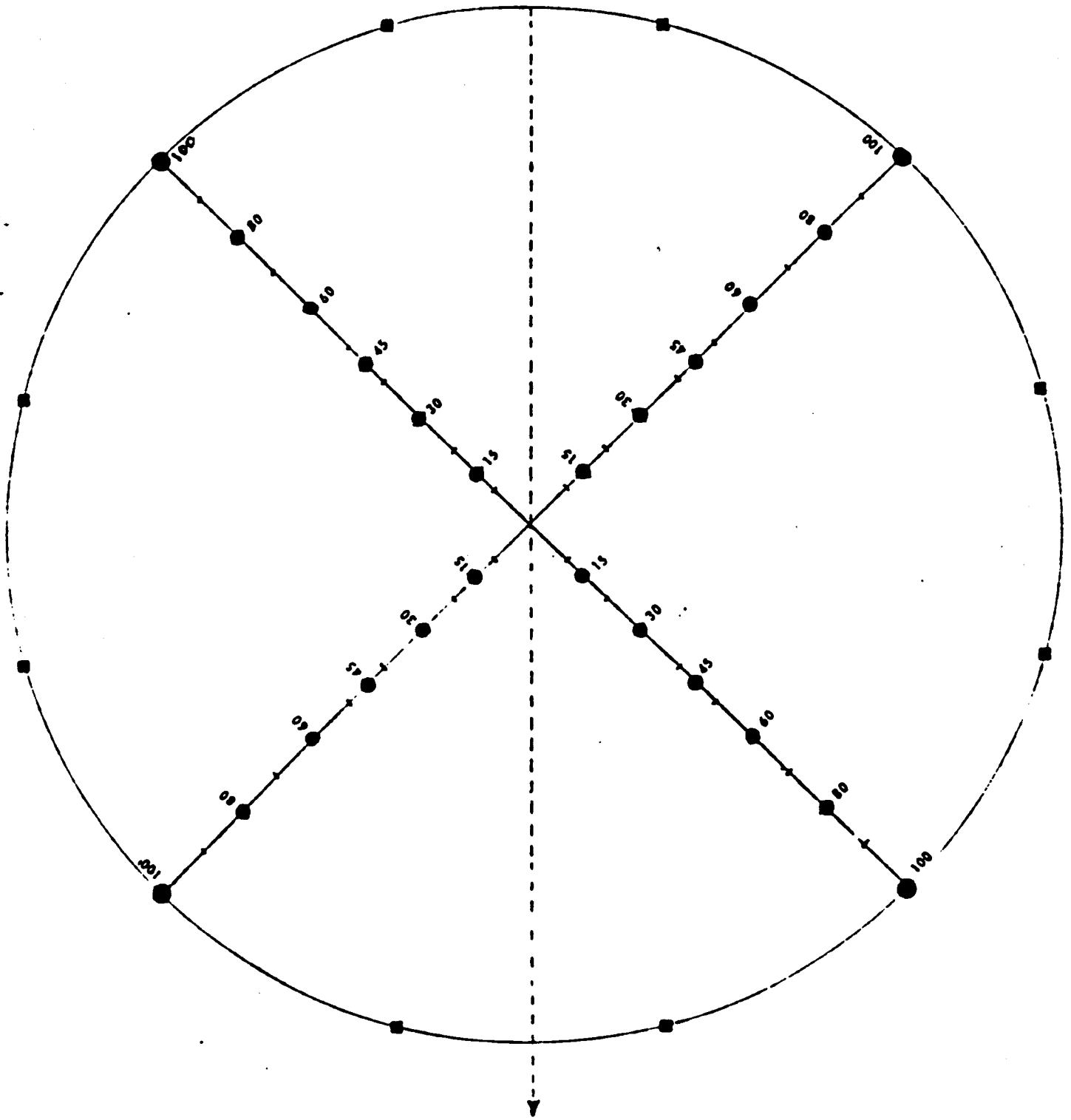

100
80
60
45
30
15
15
30
45
60
80
100

Table 7. Supplementary vortex data messages, 1985 tropical cyclones.

```
ZCZC WBC731
URNT12 KNHC 162044
AF985 0101 CYCLONE OB 15 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01315 10668 10009 12222 02004
02317 20666 20009 22221 05003
03318 30664 30009 32222 07006
04320 40662 40011 42121 09025
05322 50660 50010 52222 10036
06324 60659 60011 62222 10036
07326 70657 70012 72020 09047
MF326 M0657 MF047
OBS 01 AT 1956Z OBS 07 AT 2024Z
OBS 07 SFC WND 11050
REMARKS 313 670 009
LGT TO MDT TURB 45N OUTBOUND
LGT RA OUTBOUND;

ZCZC WBC737
URNT12 KNHC 162300
AF985 0101 ANA OB 19 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01324 10684 10015 12219 36018
02323 20683 20015 22219 02018
03320 30681 30013 32017 02031
04319 40677 40011 42121 01020
05319 50675 50009 52222 36030
06318 60670 6//// 6//// 36013
07318 70667 7//// 7//// 34019
MF320 M0681 MF031
OBS 01 AT 2104Z OBS 07 AT 2132Z
OBS 07 SFC WND 04020
REMARKS 319 666 008;

ZCZC WBC837
URNT12 KNHC 171410
AF977 0201 ANA OB 11 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01346 10670 10006 12423 23016
02346 20667 20007 22323 24004
03345 30664 30007 32323 19005
04345 40661 40007 42323 19010
05346 50658 50008 52323 18030
06346 60655 60010 62323 18035
MF346 M0655 MF035
OBS 01 AT 1323Z OBS 06 AT 1345Z
OBS 06 SFC WND 18035
REMARKS 344 673 007;

ZCZC WBC947
URNT12 KNHC 171550
AF977 0201 ANA OB 14 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01363 10674 10012 12321 06028
02361 20674 20011 22121 07028
03358 30674 30010 32020 07035
04356 40674 40008 42121 05025
05353 50675 50007 52222 05010
06351 60674 60006 62323 31007
MF358 M0674 MF035
OBS 01 AT 1430Z OBS 06 AT 1451Z
OBS 01 SFC WND 09020
01349 10674 10007 12423 32017
02347 20674 20009 22121 28030
03344 30674 30009 32321 29029
04342 40674 40011 42121 28031
05340 50674 50013 52221 29033
06337 60673 60013 62323 25032
07334 70673 70014 72323 25031
MF340 M0674 MF033
OBS 01 AT 1506Z OBS 07 AT 1533Z
OBS 07 SFC WND 27025
REMARKS 351 673 006;

ZCZC WBC981
URNT12 KNHC 171905 COR
AF968 0301 ANA OB 07 COR KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01351 10695 10015 12220 29017
02351 20692 20014 22318 33017
03353 30688 30013 32119 30009
04355 40686 40013 42018 29011
05356 50683 50011 52221 31020
06357 60679 60010 62120 36018
07356 70676 70008 72320 01035
MF356 M0676 MF035
OBS 01 AT 1653Z OBS 07 AT 2320Z
OBS 01 SFC WND 30017
01355 10670 10006 12220 24012
02356 20667 20006 22320 24014
03355 30663 30006 32321 21019
04355 40660 40007 42321 20043
05355 50658 50009 52321 20044
06355 60655 60010 62321 17048
07355 70652 70011 72321 18046
MF355 M0655 MF048
OBS 01 AT 1908Z OBS 07 AT 1831Z
OBS 07 SFC WND 18042
REMARKS 354 673 006
LT TURB 60NM TO 145NM OUTBOUND;

ZCZC WBC869
URNT12 KNHC 172120
AF968 0301 ANA OB 10 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01375 10674 10011 12118 08031
02373 20674 20010 22220 09034
03370 30671 30009 32221 03031
04366 40670 40006 42422 07027
05364 50668 50005 52322 11015
MF374 M0674 MF034
OBS 01 AT 1910Z OBS 05 AT 1929Z
OBS 01 SFC WND 09030
01363 10669 10006 12221 20023
02360 20668 20006 22322 25020
03357 30668 30007 32321 25026
04355 40667 40009 42221 24038
05353 50666 50011 52220 26035
06350 60666 60012 62219 25038
07340 70667 70014 72118 25037
MF355 M0667 MF038
OBS 01 AT 2015Z OBS 07 AT 2038Z
OBS 07 SFC WND 25035
REMARKS 364 670 004;

ZCZC WBC915
URNT12 KNHC 180210
AF969 0401 ANA OB 07 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01375 10668 10005 12320 99005
02378 20668 20005 22419 03008
03380 30669 30007 32220 07013
04383 40669 40008 42318 08020
05385 50670 50009 52220 07021
06388 60671 60010 62220 06025
07390 70672 70011 72220 07030
MF390 M0672 MF030
OBS 01 AT 0104Z OBS 07 AT 0134Z
OBS 07 SFC WND //////
REMARKS 374 666 004;

ZCZC WBC923
URNT12 KNHC 180408
AF969 0401 ANA OB 10 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01374 10689 10013 12319 36017
02373 20695 20013 22218 31015
03373 30692 30012 32220 30027
04373 40679 40011 42220 29030
05373 50676 50010 52220 30041
06375 60672 60008 62321 28024
07370 70672 70007 72320 31015
08382 80670 80006 82220 34018
MF373 M0676 MF041
OBS 01 AT 0213Z OBS 08 AT 0251Z
OBS 08 SFC WND //////
01384 10664 10004 12321 99005
02384 20660 20004 22321 18011
03383 30657 30004 32221 17011
04383 40654 40005 42321 18050
05384 50651 50006 52220 18047
06384 60649 60008 62220 18046
07384 70644 70010 72220 19042
MF383 M0654 MF050
OBS 01 AT 0313Z OBS 07 AT 0344Z
OBS 07 SFC WND //////
REMARKS 384 667 005;

ZCZC WBC933
URNT12 KNHC 180605 COR
AF969 0401 ANA OB 13 COR KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01401 10669 10011 12120 04030
02399 20666 20009 22120 05032
03396 30666 30007 32220 05036
04393 40667 40007 42220 02021
05391 50665 50006 52220 36006
MF396 M0666 MF036
OBS 01 AT 0429Z OBS 05 AT 0453Z
OBS 01 SFC WND //////
01387 10661 10004 12320 99005
02385 20662 20004 22319 33019
03382 30661 30005 32321 29035
04380 40660 40006 42320 26026
05377 50660 50009 52220 26046
06375 60660 60011 62220 26044
07372 70661 70012 72320 25033
MF377 M0660 MF046
OBS 01 AT 0512Z OBS 07 AT 0547Z
OBS 07 SFC WND //////
REMARKS 389 661 004;

ZCZC WBC976
URNT12 KNHC 181352
AF985 0501 ANA OB 08 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01393 10637 13139 10606 24035
02395 20638 23123 20706 23023
03397 30638 33114 30707 24054
04399 40639 43093 40707 25041
05401 50639 53054 50908 25042
06404 60641 63050 60807 25051
07407 70641 73047 70908 26018
MF397 M0638 MF054
OBS 01 AT ///// OBS 07 AT /////
OBS 01 SFC WND //////
01413 10648 10001 12020 15022
02417 20641 20005 21919 05039
03419 30644 30008 31919 07032
04422 40644 40009 41818 04050
05424 50644 50011 51717 03032
MF422 M0644 MF050
OBS 01 AT 1312Z OBS 05 AT 1329Z
OBS 05 SFC WND 04035
REMARKS 411 642 999;

ZCZC WBC986
URNT12 KNHC 181655
AF985 0501 ANA OB 11 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01412 10661 10013 11818 35027
02412 20658 20009 21917 35021
03410 30655 30007 31915 35053
04409 40652 40008 42018 35069
05409 50649 50008 51817 34052
06410 60645 60005 62020 31032
07412 70640 70001 71918 32040
MF409 M0652 MF029
OBS 01 AT 1403Z OBS 07 AT 1435Z
OBS 01 SFC WND 36025
01413 10635 10000 11918 29027
02410 20653 20003 21919 27039
03407 30633 30008 32221 26030
04405 40632 40003 42120 24027
05402 50631 50009 52121 22029
06401 60631 60010 62121 22048
07398 70630 70011 72221 24046
MF401 M0631 MF048
OBS 01 AT 1534Z OBS 07 AT 1600Z
OBS 07 SFC WND 24045
REMARKS 414 637 998;

ZCZC WBC995
URNT12 KNHC 181802
AF985 0501 ANA OB 14 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01411 10615 10010 12221 17055
02413 20618 20007 22220 19056
03414 30621 30005 32221 19056
04415 40623 40003 42221 19064
05415 50626 50002 52120 20048
06416 60631 60999 61818 20013
07418 70631 70997 72121 28010
MF415 M0623 MF064
OBS 01 AT 1629Z OBS 07 AT 1656Z
OBS 01 SFC WND 17055
01418 10632 10998 12020 36029
02418 20640 23078 20803 32039
MF418 M0640 MF085
OBS 01 AT 1724Z OBS 02 AT 1737Z
OBS 02 SFC WND 32039
REMARKS 419 632 996
OUTBOUND CLIMB TO 100 FT SFC WND 030
AT 85 KTS RADIAL FROM CENTER 262 AT
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ZCZC WBC037
URNT12 KMIA 231325
AF977 0402 BOB OB 04 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01266 10344 10013 12422 33017
02265 20342 20013 22422 32018
03266 30339 30012 32422 32019
04268 40335 40011 42422 33017
05267 50329 50011 52422 03016
06267 60329 60010 62422 03021
07267 70327 70009 72422 02029
08265 80324 80007 82422 02030
MF265 M0824 MF030
OBS 01 AT 1139Z OBS 03 AT 1206Z
OBS 01 SFC WND 36015
01262 10323 10008 12423 30026
02259 20327 20010 22423 27026
03257 30325 30011 32423 27026
04253 40322 40012 42422 25033
05251 50321 50012 52422 23038
06249 60325 60014 62422 25034
07247 70323 70014 72420 25023
MF251 M0821 MF039
OBS 01 AT 1225Z OBS 07 AT 1311Z
OBS 07 SFC WND 24023
REMARKS 264 822 005 BETWEEN 50 AND
60 NM S OF CENTER OCNL GUST
45KTS NOTED BENEATH CONVECTION=

ZCZC WBC428
URNT12 KMIA 221928
AF968 0202 CYCLONE OB 07 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01277 10840 10013 12819 08015
02273 20840 20012 22318 08015
03270 30941 30011 32219 07020
04268 40841 40010 42321 06020
05265 50840 50009 52421 07015
06263 60840 60007 62422 06008
MF271 M0841 MF020
OBS 01 AT 1751Z OBS 06 AT 1817Z
OBS 01 SFC WND 11015
01258 10840 10007 12421 33020
02255 20840 20008 22421 29033
03253 30840 30009 32521 29032
04250 40840 40010 42420 27028
05248 50840 50011 52321 27037
06245 60840 60012 62320 26026
07243 70840 70013 72220 22026
MF248 M0840 MF037
OBS 01 AT 1840Z OBS 07 AT 1910Z
OBS 07 SFC WND 24030
REMARKS 261 840 006=

ZCZC WBC434
URNT12 KMIA 222151
AF968 0202 BOB OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01260 10820 10012 12120 11031
02261 20823 20011 22220 16033
03261 30826 30010 32221 15034
04260 40829 40008 42322 14036
05261 50832 50006 52322 12024
MF260 M0829 MF036
OBS 01 AT 1955Z OBS 05 AT 2015Z
OBS 01 SFC WND 18040
01260 10843 10007 12421 35016
02260 20845 20008 22421 35029
03260 30848 30009 32520 35023
04260 40851 40011 42318 35014
05260 50854 50011 52420 34014
06260 60856 60010 62420 34014
07260 70859 70011 72420 01011
MF260 M0843 MF029
OBS 01 AT 2102Z OBS 07 AT 2132Z
OBS 07 SFC WND 35010
REMARKS 260 833 005=

ZCZC WBC475
URNT12 KMIA 230133
AF972 0302 BOB OB 04 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01260 10860 10012 12320 35016
02260 20858 20011 22319 35019
03260 30855 30012 32319 33014
04260 40852 40011 42319 30021
05260 50849 50011 52319 31028
06260 60846 60009 62319 32024
07260 70843 70009 72320 31023
08260 80839 80007 82320 35015
09260 90835 90005 92322 35019
MF260 M0849 MF028
OBS 01 AT 2320Z OBS 09 AT 2356Z
OBS 01 SFC WND 34015
01263 10831 10005 12420 22029
02263 20825 20009 22222 18029
MF263 M0825 MF029
OBS 01 AT 0020Z OBS 02 AT 0025Z
OBS 02 SFC WND 18035
REMARKS 263 833 004=

ZCZC WBC544
URNT12 KMIA 231532
AF977 0402 BOB OB 06 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01264 10842 10013 12422 34018
02264 20840 20013 22422 35021
03264 30838 30012 32422 33018
04265 40835 40012 42423 35018
05265 50832 50011 52423 34013
06266 60829 60010 62423 36019
07266 70826 70010 72423 01017
08265 80822 80009 82423 02027
MF265 M0822 MF027
OBS 01 AT 1407Z OBS 08 AT 1443Z
OBS 01 SFC WND 35015
01265 10824 10010 12322 36018
02268 20835 20011 22221 36007
03269 30826 30011 32221 34005
04272 40827 40012 42321 03008
05274 50828 50012 52321 04011
06276 60829 60012 62421 03010
07281 70830 70013 72321 01010
MF265 M0824 MF018
OBS 01 AT 1455Z OBS 07 AT 1526Z
OBS 07 SFC WND 03010
REMARKS 264 822 005
SFC CENTER OVER LAND=

ZCZC WBC546
URNT12 KMIA 240640
AF972 0502 BOB OB 04 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01280 10802 10007 12118 23034
02279 20800 20009 22118 22033
03278 30798 30010 32118 21020
04276 40796 40010 42218 23018
05273 50794 50011 52218 22042
06271 60792 60012 62418 21039
07270 70791 70012 72418 19036
MF272 M0793 MF043
OBS 01 AT 0535Z OBS 07 AT 0604Z
OBS 07 SFC WND /////
REMARKS 282 804 005=

ZCZC WBC631
URNT12 KMIA 240835
AF972 0502 BOB OB 09 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01293 10793 10012 12217 14035
02292 20795 20010 22217 13046
03291 30797 30009 32217 13040
04290 40801 40007 42217 12030
05289 50803 50006 52217 15028
MF292 M0795 MF046
OBS 01 AT 0646Z OBS 05 AT 0706Z
OBS 01 SFC WND /////
REMARKS 288 805 006
LAST REPORT OBS 0109 TO KMIA
ETA KBIX 24/1030Z=

ZCZC WBC669
URNT12 KMIA 241250 COR 02
AF969 0602 BOB OB 03 COR 02 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01310 10801 10013 12318 12027
02307 20802 20013 22318 11034
03305 30804 30012 32319 10025
04303 40804 40011 42320 10029
05300 50805 50009 52320 10032
06298 60807 60008 62320 11021
07234 70805 70004 72322 /////
MF301 M0802 MF034
OBS 01 AT 1059Z OBS 07 AT 1130Z
OBS 01 SFC WND 09025
01290 10804 10006 12421 29010
02289 20804 20008 22221 26030
03286 30803 30010 32221 22015
04284 40803 40011 42320 24016
05281 50803 50012 52420 26013
06279 60803 60013 62419 24014
07276 70802 70013 72321 23013
MF289 M0804 MF030
OBS 01 AT 1200Z OBS 07 AT 1228Z
OBS 07 SFC WND 22010
REMARKS 293 804 003=

ZCZC WBC672
URNT12 KMIA 241459
AF969 0602 BOB OB 06 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01296 10784 10015 12321 19031
02297 20786 20014 22321 16045
03297 30789 30013 32220 15052
04296 40792 40012 42321 15049
05296 50794 50010 52420 15033
06295 60799 60010 62220 17053
07296 70800 70006 72322 16047
MF295 M0798 MF053
OBS 01 AT 1311Z OBS 07 AT 1338Z
OBS 01 SFC WND 18045
01298 10807 10007 12421 01023
02298 20809 20008 22420 01017
03298 30812 30009 32421 34011
04300 40813 40010 42421 33011
05303 50813 50010 52421 04004
06306 60814 60011 62421 07013
07308 70814 70012 72520 09014
MF289 M0807 MF023
OBS 01 AT 1402Z OBS 07 AT 1430Z
OBS 07 SFC WND 07015
REMARKS 298 804 004
FLIGT LEVEL WND 19047 SFC WND 18050 AT 293N 787W=

ZCZC WBC683
URNT12 KMIA 241630 COR
AF969 0602 BOB OB 08 COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01317 10805 10011 12320 10014
02314 20806 20013 22320 08028
03312 30806 30012 32321 07035
04309 40805 40011 42321 08044
05307 50805 50009 52320 08036
06304 60804 60006 62321 08040
07302 70804 ///// ///// 08035
MF309 M0805 MF044
OBS 01 AT 1455Z OBS 07 AT 1522Z
OBS 01 SFC WND 09015
01298 10807 10006 12421 26036
02296 20803 20009 22321 24035
03293 30803 30011 32220 23030
04290 40803 40013 42220 22029
05288 50803 50013 52220 24019
06285 60803 60014 62321 25012
07283 70803 70014 72321 24012
MF298 M0804 MF036
OBS 01 AT 1543Z OBS 07 AT 1614Z
OBS 07 SFC WND 22015
REMARKS 301 804 004=

ZCZC WBC691
URNT12 KMIA 241912
AF969 0602 BOB OB 11 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01303 10787 10015 12320 19045
02303 20797 20014 22320 17046
03303 30797 30013 32220 16055
04303 40793 40012 42321 16051
05303 50796 50010 52219 16055
06303 60799 60007 62221 17061
07302 70801 70004 72322 22025
MF302 M0800 MF065
OBS 01 AT 1644Z OBS 07 AT 1721Z
OBS 01 SFC WND 18045
01303 10806 10004 12422 06011
02303 20809 20006 22321 36028
03303 30812 30009 32420 36013
04303 40813 40009 42321 04016
MF303 M0809 MF028
OBS 01 AT 1739Z OBS 04 AT 1750Z
OBS 04 SFC 02016
REMARKS 303 804 003
FLIGHT LEVEL WND 17060 SFC WND 170
ETA KBIX 24/1935Z LAST REPORT OBS 0

ZCZC WBC771
URNT12 KMIA 250222 COR 02
AF967 0802 BOB OB 05 COR 02 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01320 10803 10005 12321 19042
02320 20801 20009 22221 17055
03320 30798 30013 32019 17059
04320 40795 40015 42120 17063
05320 50793 50016 52119 17055
06320 60789 60019 61191 18015
07321 70787 70019 72118 16057
MF320 M0802 MF075
OBS 01 AT 0122Z OBS 07 AT 0155Z OBS
REMARKS 320 806 003
MAX WIND LOCATED IN FEEDER BAND 48NM
EAST OF CENTER. FL 015=
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19
RNT14 KMIA 101340 COR
F953 0103 CYCLONE OB 09 COR KMIA
UPPLEMENTARY VORTEX DATA MESSAGE
1334 10755 10007 12321 09003
3331 20735 20008 22321 22015
4329 30755 30008 32421 25019
4325 40755 40013 42121 22021
5324 50755 50013 52420 24021
6321 60755 60010 62221 25019
7313 70755 70011 72421 24015
7323 M0755 MF021
BS 21 AT 1534Z OBS 07 AT 1554Z
DS 07 SFC WND 25015
EMARKS 336 756 999;

ZC WBC725
NT12 KMIA 101845
963 0103 CYCLONE OB 11 KMIA
UPPLEMENTARY VORTEX DATA MESSAGE
337 10735 10011 12318 15010
337 20738 20009 22221 16035
337 30741 30009 32321 19017
337 40744 40009 42321 17017
337 50747 50008 52321 18018
336 60750 60007 62421 19018
336 70753 70007 72321 20009
S 01 AT 1637Z OBS 07 AT 1710Z
S 07 SFC WND 16010
335 10759 10008 12321 34025
335 20762 20009 22320 33016
335 30765 30010 32320 01010
335 40768 40011 42320 36009
335 50771 50011 52220 34010
336 60774 60011 62320 32014
335 70777 70011 72319 32013
S 01 AT 1744Z OBS 07 AT 1812Z
S 07 SFC WND 36005
MARKS 336 754 007

ZC WBC765
NT12 KMIA 110207
968 0203 CYCLONE OB 03 KMIA
PPLEMENTARY VORTEX DATA MESSAGE
340 10756 10010 12318 36030
340 20753 20009 22318 36033
340 30750 30011 32219 36028
340 40747 40011 42219 03028
339 50744 50009 52319 02021
340 M0753 MF033
S 01 AT 2254Z OBS 05 AT 2319Z
S 01 SFC WND 01030
338 10736 10010 12320 27015
338 20734 20011 22319 22015
338 30731 30011 32320 19035
338 40728 40012 42420 19020
338 50725 50014 52320 20020
338 60722 60014 62320 19025
338 70719 70015 72222 18030
338 M0731 MF035
S 01 AT 2351Z OBS 07 AT 0018Z
S 07 SFC WND /////
MARKS 342 733 009

ZCZC WBC785
URNT12 KMIA 110328
AF968 0203 CYCLONE OB 06 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01356 10737 10016 12120 06027
02353 20737 20016 22120 07024
03351 30737 30015 32120 06032
04349 40736 40013 42120 07032
05346 50734 50012 52121 07035
MF346 M0734 MF035
OBS 01 AT 0140Z OBS 05 AT 0200Z
OBS 01 SFC WND /////
01340 10732 10010 12220 19013
02337 20732 20010 22221 24013
03335 30732 30011 32221 26024
04332 40732 40013 42221 28026
05330 50733 50014 52320 26026
06327 60733 60015 62321 28018
07325 70732 70016 72321 25020
MF230 M0733 MF026
OBS 01 AT 0231Z OBS 07 AT 0303Z
OBS 07 SFC WND /////
REMARKS 342 733 009
ONCL LGT TB AND LTNG OUTBOUND
ZCZC WBC851
URNT12 KMIA 110630 COR
AF968 0203 CYCLONE OB 09 COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01347 10706 10017 12118 16026
02347 20709 20017 22219 11031
03347 30712 30016 32219 11043
04346 40714 40016 42120 11035
05343 50717 50013 52321 16034
06343 60721 60010 62321 17024
07343 70724 70010 72221 17028
08343 80727 80010 82321 16020
MF347 M0712 MF043
OBS 01 AT 0424Z OBS 08 AT 0500Z
OBS 01 SFC WND /////
01342 10732 10009 12220 05008
02342 20735 20010 22221 05021
03342 30738 30010 32120 02027
04342 40741 40013 42220 01021
05341 50743 50014 52220 04012
06341 60747 60015 62220 03017
07342 70750 70015 72220 01018
MF342 M0738 MF027
OBS 01 AT 0520Z OBS 07 AT 0546Z
OBS 07 SFC WND /////
REMARKS 342 729 009
ONCL LGT TB AND LTNG INBOUND
ZCZC WBC941
URNT12 KMIA 111227
AF963 0303 CYCLONE OB 04 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01341 10736 10010 12220 34040
02341 20734 20008 22120 35035
03342 30731 30007 32220 36039
04342 40728 40005 42320 36034
05343 50724 50002 52321 34035
06345 60721 60002 62421 35017
07346 70718 70004 72421 28006
MF341 M0736 MF040
OBS 01 AT 1108Z OBS 07 AT 1144Z
OBS 01 SFC WND 35025
REMARKS 342 721 002;

ZCZC WBC970
URNT12 KMIA 111253
AF963 0303 CYCLONE OB 05 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01345 10718 10003 12321 22006
02346 20715 20004 22321 23110
03347 30712 30004 32421 22020
04347 40709 40005 42321 21019
05347 50705 50006 52421 19021
06348 60703 60007 62321 18020
07348 70700 70008 72320 18019
MF348 M0704 MF025
OBS 01 AT 1212Z OBS 07 AT 1240Z
OBS 07 SFC WND 99005
REMARKS 342 721 002

ZCZC WBC396
URNT12 KMIA 111518
AF963 0303 CLAUDETTE 08 KMIA
SUPPLEMENTARY VORTEX DATA MESSAG
01360 10723 10010 12119 07032
02357 20722 20009 22220 06040
03355 30721 30008 32220 05038
04353 40719 40006 42220 05043
05352 50717 50005 52120 05048
06350 60716 60003 62422 10011
07346 70717 70002 72422 99005
MF351 M0716 MF050
OBS 01 AT 1328Z OBS 07 AT 1359Z
OBS 07 SFC WND 08025
01344 10717 10003 12421 35015
02341 20718 20003 22421 31020
03336 30717 30006 32321 29026
04334 40717 40007 42321 26031
05331 50717 50008 52321 28025
06329 60717 60009 62320 28033
07326 70717 70010 72320 27030
MF329 M0717 MF033
OBS 01 AT 1429Z OBS 07 AT 1505Z
OBS 07 SFC WND 26025
REMARKS; 346 711 002

ZCZC WBC409
URNT12 KMIA 111739
AF963 0303 CLAUDETTE 11 KMIA
SUPPLEMENTARY VORTEX DATA MESSAG
01348 10692 10008 12421 19032
02348 20695 20008 22421 17025
03348 30699 30007 32321 16034
04347 40701 40005 42322 16031
05346 50705 50004 52322 17031
06346 60707 60003 62322 18026
07346 70710 70002 72322 15015
MF347 M0700 MF035
OBS 01 AT 1558Z OBS 07 AT 1630Z
OBS 07 SFC WND 20030
01345 10717 10003 12321 34009
02344 20720 20005 22221 34022
03344 30722 30007 32120 34028
04343 40725 40008 42120 35026
MF344 M0722 MF028
OBS 01 AT 1705Z OS 04 AT 1720Z
OBS 04 SFC WND 34030
REMARKS 346 713 002;

0214
URNT12 KMIA 120145
AF953 0403 CLAUDETTE 04 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01350 10713 10011 12218 01035
02351 20711 20010 22318 01039
03351 30708 30010 32219 36043
04350 40705 40008 42217 03043
05348 50702 50005 52220 02043
06348 60698 60003 62320 01026
07348 70695 70000 72420 03008
MF346 M0702 MF043
OBS 21 AT 2005Z OBS 07 AT 0027Z
OBS 27 SFC WND 32030
01349 10686 10004 12419 14018
02349 20681 20004 22420 14026
03349 30681 30005 32420 1502
04348 40678 40005 42420 17024
05348 50675 50007 52420 17023
06348 60672 60007 62420 19021
07349 70670 70008 72420 17028
MI349 M0670 MF029
OBS 01 AT 2056Z OBS 07 AT 2125Z
OBS 27 SFC WND /////
REMARKS 348 302 002
ONCL LTNG OUTBOUND TO 75NM;

ZCZC WBC369
URNT12 KMIA 120406
AF553 0403 CLAUDETTE 07 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
013565 10692 1//// 12219 06026
02363 20693 2//// 22217 08035
03360 30692 30007 32219 05052
04358 40691 40006 42219 06043
05356 50690 50005 52018 06061
06353 60688 60003 62420 06011
07351 70687 70002 72320 10013
MF356 M00 MF061
OBS 01 AT 0213Z OBS 07 AT 0245Z
OBS 07 SFC WND /////
01346 10684 10002 12139 23016
02343 20684 20004 22320 22031
03341 30684 30005 32318 22032
04338 40683 40006 42319 25032
05336 50683 50006 5231' 25031
06333 60683 60007 62319 25035
07330 70683 70008 72319 23033
MF333 M0683 MF035
OBS M01 AT 0305Z OBS 07 AT 0337Z
OBS 07 SFC WND /////
REMARKS 548 685 000
DOPPLER ATTENUATTED AT 05 INBOUND;

ZCZC WBC421
URNT12 KMIA 120700
URNT12 KMIA COR
AF553 0403 CLAUDETTE OB 10 COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01349 10664 10007 12420 18023
02349 20666 20006 22419 19036
03349 30668 30006 32319 16036
04350 40676 40004 42320 20032
05350 50675 50003 52320 20041
06351 60678 60002 62420 21024
07352 70681 70001 72320 18017
MF350 M0675 MF041
OBS 01 AT 0418Z OBS 07 AT 0446Z
OBS 07 SFC WND: /////
01351 10687 10001 12220 36037
02349 20690 20003 32116 20044
03348 30693 30006 32017 35027
04348 40696 40007 42117 36035
05348 50699 50008 52218 35033
06349 60702 60009 62217 36032
07349 70705 70011 72115 35026
MF349 M0690 MF044

OBS 01 AT 0510Z OBS 07 AT 0542Z
OBS 07 SFC WND: /////
REMARKS 351 634 009
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ZCZC WBC577
URNT12 KNIA 121624
AF964 0503 CLAUDETTE OB 08 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01351 10685 10011 12222 01046
02352 20682 20010 22221 01037
03351 30678 30007 32222 01047
04350 40676 40006 42121 36054
05349 50673 50005 52121 02052
06348 60671 60003 62121 03046
07346 70670 70002 72222 03060
08345 80666 80001 82222 36021
09345 90663 90000 92222 02052
10344 00661 00999 02323 02040
MF346 M0670 MF060
OBS 01 AT 1411Z OBS 10 AT 1451Z
OBS 01 SFC WND 04030
01339 10658 10999 12323 28014
02338 20658 20000 22222 27030
03335 30658 30002 32222 27041
04331 40658 40004 42323 28044
05329 50658 50006 52222 28047
06326 60658 60008 62222 28051
07323 70659 70008 72222 27045
MF326 M0658 MF051
OBS 01 AT 1533Z OBS 07 AT 1603Z
OBS 07 SFC WND 29040
REMARKS 342 660 9975

ZCZC WBC583
URNT14 KNIA 121914
AF964 0503 CLAUDETTE OB 11 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01345 10639 10002 12121 16031
02346 20642 20002 22323 15029
03345 30645 30001 32323 16029
04345 40648 40999 42222 14024
MF345 M0639 MF031
OBS 01 AT 1648Z OBS 04 AT 1704Z
OBS 04 SFC WND 21020
01345 10652 10000 12121 01040
02346 20665 20005 22121 03054
03347 30655 30006 32121 01055
04346 40671 40007 42121 02044
05349 50677 50010 52120 36034
MF 347 M0667 MF065
OBS 01 AT 1735Z OBS 05 AT 1759Z
OBS 05 SFC WND 05030
REMARKS 344 653 997
MAX SFC WND 02050 OUTBOUND 270
DEG RADIAL 45NM

UPNT14 KNIA 130221
AF969 0503 CLAUDETTE OB 06 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01347 10623 10997 12321 20019
02347 20620 20999 22320 19029
03347 30617 30000 32421 21033
04347 40613 40001 42321 21032
05347 50611 50004 52320 20042
06347 60608 60004 62321 19042
07347 70605 70005 72420 19041
MF347 M0608 MF042
OBS 01 AT 0126Z OBS 07 AT 0154Z
OBS 01 SFC WND /////
REMARKS 346 628 995

ZCZC WBC657
URNT14 KNIA 130451
AF969 0603 CLAUDETTE OB 09 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01364 10627 10005 12118 06045
02361 20627 20004 22119 05048
03359 30627 30003 32120 04046
04357 40624 40001 42120 06023
05353 50619 50998 52421 12013
06349 60621 60994 62423 28015
MF361 M0627 MF048
OBS 01 AT 0244Z OBS 064AT 0320Z
OBS 01 SFC WND /////
01346 10621 10999 12320 29020
02343 20621 20000 22320 27026
03341 30621 30002 32220 26024
04339 40621 40003 42220 25031
05336 50621 50003 52220 26032
06334 60621 60005 62320 26035
07331 70621 70006 72320 26033
MF 334 M0621 MF035
OBS 01 AT 0354Z OBS 07 AT 0422Z
OBS 05 SFC WND /////
REMARKS 348 621 994

ZCZC WBC356
URNT12 KNIA 130640
AF969 0603 CLAUDETXE OB 11 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE

01339 10631 10006 12219 30042
02341 20626 20004 22119 31049
03342 30626 30001 32219 31043
04344 40624 40999 42219 29022
05346 50622 5//// 52221 29020
06346 60621 60999 62220 29016
07350 70619 70996 72220 30032
08352 80617 80994 82321 34040
MF341 M0626 MF048
OBS 01 AT 0505Z OBS 08 AT 0536Z
OBS 01 SFC WND /////
REMARKS 353 616 993

ZCZC WBC148
URNT14 KNIA 152303
AF963 0703 CLAUDETTE OB 05 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01354 10369 13107 10806 27042
02353 20367 23087 20905 2304
03350 30365 33068 31202 30047
04365 40362 43045 41404 30041
05368 50359 53032 51406 30035
MF362 M0365 MF047
OBS 01 AT 2102Z OBS 05 AT 2125Z
OBS 01 SFC WND /////
01373 10359 13045 11205 34012
02376 20359 23056 21007 99005
03379 30360 33063 30907 34010
04381 40361 43070 40905 12018
05384 50360 53072 50803 14027
06385 60359 63075 60903 14030
07388 70360 73083 70902 16023
MF386 M0360 MF030
OBS 01 AT 2159Z OBS 07 AT 2221Z
OBS 07 SFC WND /////
REMARKS 371 356 032
```

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ZCZC WBC457
URNT12 KNHC 120925
AF967 06XX INVEST OB 12 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01187 10817 10010 12320 22010
02187 20815 20010 22320 22014
03188 30812 30010 32320 21018
04187 40810 40011 42320 18019
05187 50807 50011 52319 18020
06187 60805 60011 62318 18022
07187 70802 70012 72218 17018
MF187 M0805 MF022
OBS 01 AT 0841Z OBS 07 AT 0910Z
OBS 07 SFC WND /////
REMARKS 186 921 010;

ZCZC WBC490
URNT12 KNHC 121128
AF967 0604 CYCLONE OB 14 COR KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01207 10820 10010 12319 99005
02198 20821 20010 22319 99005
03196 30821 30010 32319 99005
04193 40821 40010 42320 99005
05191 50822 50010 52320 99005
06189 60822 60010 62320 99005
07187 70822 70010 72320 99005
08185 80825 80010 82320 99005
MF/// M//// MF///
OBS 01 AT 0952Z OBS 08 AT 1024Z
OBS 07 SFC WND /////
REMARKS 186 921 010 INBOUND FROM NORTH; UNABLE TO
LOCATE FLIGHT LEVEL CENTER THIS TIME THROUGH;

ZCZC WBC735
URNT14 KNHC 131914
AF972 0904 CYCLONE OB 05 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01248 10860 10016 12518 11022
02245 20860 20015 22418 12032
03243 30861 30015 32418 11038
04240 40862 40014 42318 11041
05238 50862 50013 52420 11042
06235 60863 60013 62320 12041
07233 70864 70013 72420 14035
MF237 M0862 MF045
OBS 01 AT 1725Z OBS 07 AT 1757Z
OBS 01 SFC WND 09020
01229 10866 10012 12522 27010
02226 20866 20013 32521 26011
03225 30867 30013 32521 26006
04221 40867 40014 42520 21007
05218 50867 50014 52421 21002
06216 60869 60014 62619 25006
MF226 M0866 MF011
OBS 01 AT 1824Z OBS 06 AT 1850Z
OBS 06 SFC WND 27005
REMARKS 231 867 012;

ZCZC WBC741
URNT14 KNHC 132122
AF972 0904 CYCLONE OB 08 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01231 10888 10013 12420 34014
02231 20886 20013 22421 33011
03231 30883 30012 32420 34006
04231 40880 40011 42520 33004
05231 50877 50011 52420 34010
06232 60875 60011 62520 26009
MF231 M0888 MF014
OBS 01 AT 1942Z OBS 06 AT 2006Z
OBS 01 SFC WND 35015
01233 10872 10010 12520 27006
02233 20869 20010 22520 22014
03233 30867 30010 32521 19017
04234 40864 40011 42321 15043
05234 50862 50012 52320 15032
06234 60859 60013 62420 16026
07234 70857 70014 72320 14032
MF234 M0864 MF043
OBS 01 AT 2032Z OBS 07 AT 2103Z
OBS 07 SFC WND 14030
REMARKS 234 873 011
SFC WND GUST TO 50KT IN RW AT 23.3N 86.5W;
ZCZC WBC751
URNT14 KNHC 140007
AF972 0904 DANNY OB 11 KNHC
SUPPLEMENTARY VORTEX DATA MESSAGE
01255 10880 10015 12319 09037
02253 20880 20015 22319 06036
03250 30880 30013 32519 08023
04248 40880 40013 42319 08020
05245 50880 50012 52319 07033
06243 60880 60011 62419 07025
07240 70880 70011 72419 06025
08238 80879 80009 82521 05016
MF255 M0880 MF037
OBS 01 AT 2155Z OBS 08 AT 2229Z
OBS 01 SFC WND 09035
01237 10876 10009 12521 20006
02239 20877 20009 22521 15012
03241 30878 30010 32421 07023
04243 40878 40011 42421 05031
05246 50878 50012 52320 08031
06248 60878 60013 62420 08021
07252 70878 70013 72420 12021
MF243 M0878 MF031
OBS 01 AT 2307Z OBS 07 AT 2334Z
OBS 07 SFC WND 11025
REMARKS 236 877 009;
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ZCZC WBC???
URNT14 KMIA 140755
AF966 1004 DANNY OB 03 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01248 10905 10008 12422 06023
02248 20903 20008 22522 36020
03248 30901 30008 32423 02010
04249 40898 40008 42524 35010
05244 50898 50008 52524 36016
06244 60896 60007 62524 99005
07245 70895 70009 72524 18013
MF248 M0904 MF027
OBS 01 AT 0426Z OBS 07 AT 0540Z
OBS 01 SFC WND /////
01244 10893 10007 12424 26014
02242 20890 20007 22423 25027
03240 30886 30008 32423 24016
04238 40884 40007 42424 24026
05238 50882 50008 52424 18045
06240 60878 60008 62423 18023
07241 70875 70009 72424 15038
MF238 M0882 MF045
OBS 01 AT 0601Z OBS 07 AT 0635Z
OBS 07 SFC WND /////
REMARKS 244 895 007
FL WIND 9T 24.6N 89.4W 150247

ZCZC WBC785
URNT14 KMIA 140944
AF966 1074 DANNY OB 06 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01262 10895 13167 11008 09020
02259 20895 23161 21007 09031
03256 30896 33145 31008 09018
04254 40897 43142 41210 10014
05252 50897 53145 51107 07015
MF259 M0895 MF031
OBS 01 AT 0735Z OBS 05 AT 0755Z
OBS 01 SFC WND /////
01248 10894 13145 11008 99P35
02248 20891 23160 21009 24013
03242 30886 33154 31109 29012
MF248 M0891 MF013
OBS 01 AT 0848Z OBS 03 AT 0900Z
OBS 03 SFC WND /////
REMARKS 247 899 130?

ZCZC WBC914
URNT14 KMIA 141247
AF966 1004 DANNY OB 11 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01233 10911 10007 12422 21011
02235 20915 20007 22422 25011
03242 30913 30006 32423 27012
04245 40909 40006 42422 99005
05249 50904 50004 52624 99005
MF242 M0911 MF015
OBS 01 AT 1027Z OBS 05 AT 1113Z
OBS 01 SFC WND /////
01249 10904 10005 12424 08010
02251 20908 20005 22420 08010
03253 30911 30006 32423 08012
04255 40913 40006 42424 08033
05257 50915 50007 52424 07034
06261 60920 60008 62423 08040
07265 70923 70009 72423 08020
MF261 M0920 MF040
OBS 01 AT 1140Z OBS 07 AT 1225Z
OBS 07 SFC WND 07020
REMARKS 249 904 004 , SFC CALM AREA 15NM DIAMETER
SFC CNTR 2450N 9022W AT 1135Z?

ZCZC WBC035
URNT14 KMIA 150204
AF967 1204 DANNY OB 03 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01279 10909 10008 12220 09031
02277 20909 20007 22220 09048
03275 30909 30005 32220 09051
04273 40909 40003 42221 09051
05271 50909 50000 52221 10032
MF273 M0909 MF051
OBS 01 AT 2324Z OBS 05 AT 2341Z
OBS 01 SFC WND 09035
01264 10913 10000 12221 25026
02262 20913 20002 22220 24028
03259 30913 30005 32221 24026
04257 40913 40006 42320 23020
05254 50914 50007 52317 24013
06251 60914 60007 62320 21016
07249 70914 70008 72421 23016
MF262 M0913 MF028
OBS 01 AT 0045Z OBS 07 AT 0117Z
OBS 07 SFC WND /////
REMARKS 267 913 997?

ZCZC WBC944
URNT14 KMIA 150404
AF967 1204 DANNY OB 06 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01265 10896 10008 12419 18044
02266 20898 20007 22420 18044
03266 30900 30007 32421 17041
04266 40902 40006 42421 17033
05266 50905 50005 52320 19043
06267 60908 60003 62320 20042
07268 70911 70002 72321 21037
08269 80913 80000 82321 22023
MF266 M0898 MF044
OBS 01 AT 0153Z OBS 08 AT 0224Z
OBS 01 SFC WND /////
01272 10918 10001 12321 35009
02272 20921 20002 22221 36032
03272 30924 30004 32220 02033
04272 40927 40006 42320 02024
05272 50930 50007 52320 01017
06272 60933 60008 62320 02017
07272 70935 70008 72319 04013
MF272 M0924 MF033
OBS 01 AT 0309Z OBS 07 AT 0336Z
OBS 07 SFC WND /////
REMARKS 272 915 999?

ZCZC WBC955
URNT14 KMIA 150551
AF967 1204 DANNY OB 09 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01256 10917 10009 12321 25015
02259 20917 20009 22320 21011
03261 30920 30008 32320 22017
04264 40922 40007 42321 24015
05267 50923 50007 52221 25014
06269 60925 60006 62221 22012
07273 70921 70001 72320 27026
MF273 M0921 MF026
OBS 01 AT 0418Z OBS 07 AT 0504Z
OBS 01 SFC WND /////
REMARKS 280 920 996
HEAVY RAIN INBOUND, DOPPLER
OCCASIONALLY ATTENUATED?
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ZCZC WBC793
URNT14 KMIA 290636
AF980 0507 ELENA OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01240 10830 10005 12424 17050
 02240 20827 20008 22423 16038
 03241 30825 30010 32323 15045
 04241 40822 40011 42323 14042
 05242 50819 50013 52222 16045
 06242 60817 60014 62121 17038
07242 70815 70014 72422 16039
 MF240 M0830 MF050
OBS 01 AT 0548Z OBS 07 AT 0618Z
OBS 01 SFC WND /////
REMARKS 240 933 002;

ZCZC WBC792
URNT12 KMIA 290751
AF980 0705 ELENA OB 12 KMIA
ABBREVIATED VORTEX DATA MESSAGE
A. 29/0740Z
B. 24 DEG 18 MIN N
   83 DEG 52 MIN W
C. NOT OBSERVED
D. NOT OBSERVED
E. NOT OBSERVED
F. 100 DEG 44 KT
G. 360 DEG 65 NM
H. 999MB EXTRAPOLATED;

ZCZC WBC793
URNT14 KMIA 290810
AF980 0507 ELENA OB 13 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01261 10838 10012 12522 08028
 02259 20839 20012 22421 09036
03256 30839 30011 32323 08039
04254 40839 40010 42323 10044
 05251 50839 50008 52423 09030
06248 60839 60006 62323 07039
 07246 70839 70003 72423 09042
 MF254 M0839 MF044
OBS 01 AT 0705Z OBS 07 AT 0733Z
OBS 01 SFC WND /////
01240 10838 10004 12323 24028
 02239 20837 20006 22423 21016
 MF240 M0838 MF028
OBS 01 AT 0745Z OBS 02 AT 0749Z
OBS 02 SFC WND /////
REMARKS 243 939 998;

ZCZC WBC156
URNT14 KMIA 301855
AF972 1105 ELENA OB 04 KMIA
SUPPLEMENTAL VORTEX DATA MESSAGE
01282 10952 12481 11508 17071
02282 20954 22464 21511 17070
 03282 30958 32425 31612 17067
 04282 40961 42393 41612 17067
05282 50963 52324 51614 18072
MF282 M0963 MF072
OBS 01 AT 1650Z OBS 05 AT 1716Z OBS 01 SFC WND 17085
 01282 10871 12241 12422 35045
 02282 20873 22314 22205 35057
 03281 30875 32399 317// 36054
 04281 40879 42430 416// 36043
 05281 50882 52451 517// 01040
 06281 60885 62463 617// 01039
 07281 70889 72478 718// 01025
 MF282 M0873 MF057
OBS 01 AT 1758Z OBS 07 AT 1827Z OBS 07 SFC WND 35025

ZCZC WBC004
URNT14 KMIA 302121 COR
AF972 1105 ELENA OB 08 COR KMIA
SUPPLEMENTAL VORTEX DATA MESSAGE
01264 10866 12480 11812 26044
02267 20866 22468 21813 26051
03269 30866 32456 31812 25056
04272 40866 42435 41813 25047
05275 50867 52397 51812 27062
06277 60867 62348 61912 27068
07279 70867 72288 72013 27046
MF277 M0867 MF068
OBS 01 AT 1936Z OBS 07 AT 2003Z OBS 01 SFC WND 22050
01285 10866 12272 12215 06051
02289 20866 22331 21814 09053
03292 30866 32392 31814 09057
04296 40866 42420 41714 09047
MF292 M0866 MF057
OBS 01 AT 2042Z OBS 04 AT 2058Z OBS 04 SFC WND 07100
REMARKS 284 867 230;

ZCZC WBC021
URNT14 KMIA 302219
AF972 1105 ELENA OB 11 KMIA
SUPPLEMENTAL VORTEX DATA MESSAGE
01284 10876 12416 11713 01047
02284 20874 22383 21713 01052
03284 30871 32327 31914 36054
04283 40867 42263 42015 35025
MF284 M0871 MF054
OBS 01 AT 2121Z OBS 04 AT 2136Z OBS 01 SFC WND 35080
01284 10861 12229 12116 20019
02284 20858 22306 21818 12041
03285 30855 32377 31715 18057
04286 40853 42393 41715 16036
MF285 M0855 MF057
OBS 01 AT 2153Z OBS 04 AT 2206Z OBS 04 SFC WND /////
REMARKS 284 864 217;

ZCZC WBC169
URNT14 KMIA 302351
AF972 1105 ELENA OB 15 KMIA
SUPPLEMENTAL VORTEX DATA MESSAGE
01294 10864 12419 11715 08050
 02293 20864 22393 21815 08051
03289 30864 32331 31815 09054
 04287 40863 42262 42015 06058
 MF287 M0863 MF058
OBS 01 AT 2223Z OBS 04 AT 2237Z OBS 01 SFC WND 06090
 01282 10863 13909 11403 30029
 02279 20863 23954 21303 25047
 03277 30862 33009 31103 25057
 04275 40862 43047 41103 26052
 MF277 M0862 MF057
OBS 01 AT 2313Z OBS 04 AT 2326Z OBS 04 SFC WND 25080
 REMARKS 284 963 217
 OUTBOUND LEG 700 MB;

ZCZC WBC[illegible]
[illegible]
AF972 1105 ELENA OB 17 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01285 10973 13041 11103 35062
02285 20974 23019 21303 35054
03285 30963 33083 31303 26055
04285 40956 43034 41603 36041
MF285 M0873 MF[illegible]
                    OBS 01 AT 0001Z OBS 04 AT 0011Z OBS
01284 10958 13395 11403 19012                    SFC WND 34
02293 20954 23961 21103 19040
03283 30951 33019 30903 20044
04283 40948 43053 40903 19057
05283 50946 53071 50803 19050
06282 60943 63093 60903 18046
07282 70940 73104 70904 20040
MF283 M0948 MF057
OBS 01 AT 0025Z OBS 07 AT 0052Z OBS 07 SFC WND /////
REMARKS 294 860 890 .
LAST REPORT OBS 01-17 TO KMIA
ETA [illegible] AT [illegible]Z

ZCZC WBC919
URNT14 KMIA 020324
AF964 1705 ELENA OB 11 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01291 10876 13070 10909 35034
02291 20879 23060 20909 35037
 03290 30879 33041 30909 35038
 04291 40866 43973 41010 32040
 05292 50863 53842 51111 30045
06293 60862 63752 61616 36073
 MF293 M0862 MF073
OBS 01 AT 0047Z OBS 06 AT 0110Z
 OBS 01 SFC WND /////
01296 10856 13922 11010 16095
 02292 20863 23037 20808 17062
 03294 30848 33080 30808 17050
 04295 40845 43110 40808 19044
 05294 50843 53114 50707 17036
 MF296 M0855 MF066
OBS 01 AT 0128Z OBS 05 AT 0200Z
 OBS 05 SFC WND /////
REMARKS 294 861 710;
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ZCZC WBC099
URNT14 KMIA 152300
AF967 02WX INVEST OB 08 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01243 10707 10009 12319 06021
02246 20708 20009 12220 08013
03248 30707 30009 32219 08011
04251 40707 40009 42219 07012
05254 50707 50009 52219 03009
06257 60708 60010 62220 06014
07260 70708 70010 72219 06014
MF243 M0707 MF021
OBS 01 AT 2210Z OBS 07 AT 2236Z
OBS 07 SFC WND 06010
REMARKS 249 707 009;

ZCZC WBC412
URNT14 KMIA 160109
AF967 0207 CYCLONE OB 11 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01242 10725 10009 12319 36010
02241 20723 20009 12320 01009
03241 30720 30009 32320 03010
04241 40716 40009 42320 01022
05241 50713 50009 52320 01020
06239 60709 60009 62321 36013
MF241 M0716 MF022
OBS 01 AT 2318Z OBS 06 AT 2344Z
OBS 06 SFC WND /////
01236 10702 10008 12320 16005
02236 20699 20009 22320 20017
03236 30695 30009 32321 21017
04236 40692 40009 42220 19030
05237 50689 50010 52121 17031
06236 60687 60010 62220 17015
07238 70685 70011 72120 17025
MF237 M0693 MF031
OBS 01 AT 2358Z OBS 07 AT 0027Z
OBS 07 SFC WND /////
REMARKS 235 705 0020

ZCZC WBC143
URNT14 KMIA 161520
AF968 0307 CYCLONE OB 09 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01255 10670 10004 12320 30028
02252 20669 20005 22320 29020
03249 30670 30006 32319 28020
04247 40670 40007 42219 28020
05244 50671 50007 52419 28015
06243 60671 60007 62320 28014
MF255 M0670 MF028
OBS 01 AT 16/1554Z OBS 06 AT 16/1619Z
OBS 06 SFC WND 31025
REMARKS 257 671 003
1900LD GUSTS 35 KTS;

ZCZC WBC150
URNT14 KMIA 161744
AF968 0307 CYCLONE OB 12 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01257 10655 10004 12020 19040
02254 20658 20003 22420 23025
03257 30661 30003 32331 22016
04257 40664 40003 42320 28010
MF257 M0655 MF040
OBS 01 AT 1653Z OBS 04 AT 1703Z
OBS 01 SFC WND 21040
REMARKS 258 666
PRECIP AT EAST EDGE;

ZCZC WBC174
URNT14 KMIA 162300
AF866 0407 CYCLONE OB 08 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01268 10676 10008 12319 03030
02267 20675 20007 22419 03031
03266 30672 30007 32320 02025
04265 40669 40007 42420 02018
05264 50666 50006 52420 01018
06263 60664 60005 62420 36018
07262 70660 70005 72421 36020
MF267 M0675 MF031
OBS 01 AT 2106Z OBS 07 AT 2127Z
OBS 01 SFC WND 03025
01262 10649 10004 12421 18018
02263 20646 20004 22421 15028
03264 30643 30004 32421 16016
04265 40641 40005 42421 18024
05265 50638 50006 52321 19018
06265 60635 60006 62321 19021
07265 70632 70007 72320 17026
MF263 M0646 MF028
OBS 01 AT 2151Z OBS 07 AT 2212Z
OBS 07 SFC WND 19020
REMARKS 263 652 003;

ZCZC WBC189
URNT14 KMIA 162359
AF866 0407 CYCLONE OB 11 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01278 10650 10006 12319 99005
02276 20650 20005 22319 99005
03274 30650 30005 32419 09010
04273 40650 40005 42420 09008
05270 50649 50004 52521 05011
MF270 M0649 MF011
OBS 01 AT 2253Z OBS 05 AT 2312Z
OBS 01 SFC WND 99005
REMARKS 269 648 003;

ZCZC WBC222
URNT14 KMIA 170612
AF964 0507 CYCLONE OB 17 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01268 10632 10996 12424 26036
02269 20630 20997 22424 22054
03270 30627 30000 32424 21042
04270 40624 40001 42323 20042
05270 50621 50004 52222 17033
06270 60615 60005 62222 16032
07269 70613 70006 72323 18031
MF269 M0630 MF054
OBS 01 AT 0526Z OBS 07 AT 0554Z
OBS 01 SFC WND /////
REMARKS 269 636 999;

ZCZC WBC230
URNT14 KMIA 170822
AF964 0507 FABIAN OB 20 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01288 10635 10005 123// 14008
02286 20635 20005 223// 08009
03284 30634 30004 323// 05011
04282 40633 40003 423// 06015
05278 50631 50001 523// 06015
06276 60628 60997 623// 05020
MF276 M0628 MF020
OBS 01 AT 0640Z OBS 06 AT 0706Z
OBS 01 SFC WND /////
01273 10628 10997 123// 31024
02271 20627 20999 223// 26035
03268 30627 30001 324// 26036
04267 40627 40002 424// 25033
05264 50627 50004 525// 25032
06262 60627 60004 624// 26025
07259 70627 70005 723// 27027
MF269 M0627 MF036
OBS 01 AT 0732Z OBS 07 AT 0802Z
OBS 07 SFC WND /////
REMARKS 275 627 993;

ZCZC WBC252
URNT14 KMIA 171047
AF977 0607 FABIAN OB 07 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01277 10646 10005 12323 01024
02276 20642 20005 22422 31019
03276 30639 30005 32323 32017
04276 40636 40005 42323 33030
05277 50633 50004 52323 34012
06278 70630 60003 62422 33021
07279 70628 70003 72323 35015
MF276 M0638 MF030
OBS 01 AT 0910Z OBS 07 AT 0940Z
OBS 01 SFC WND /////
01277 10620 10996 12424 17035
02277 20619 20000 22424 20035
03277 30614 30003 32323 18027
04277 40611 40004 42222 26011
05278 50608 50007 52222 21048
06279 60606 60007 62323 21040
07280 70603 70008 72322 19034
MF278 M0668 MF048
OBS 01 AT 1007Z OBS 07 AT 1037Z
OBS 07 SFC WND 18030
REMARKS 278 623 992;

ZCZC WBC258
URNT14 KMIA 171220
AF977 0607 FABIAN OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01297 10620 10007 12321 14024
02295 20620 20008 22322 08022
03292 30620 30007 32323 07025
04290 40620 40007 42322 08027
05288 50620 50006 52323 04020
06285 60619 60004 62323 05022
07293 70619 70002 72423 07035
MF283 M0619 MF035
OBS 01 AT 1115Z OBS 07 AT 1147Z
OBS 01 SFC WND 12015
REMARKS 279 618 995;
```

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ZCZC WBC576
URNT14 KMIA 211335
AF967 0109 GLORIA OB 04 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01179 10569 10010 12420 01026
02179 20565 20010 22319 01028
03179 30563 30009 32319 02022
04179 40561 40008 42320 01025
05179 50559 50008 52320 02024
06178 60555 60008 62320 01024
07177 70553 70007 72321 01026
08176 80550 80006 82321 02029
09175 90548 90006 92321 36017
00174 00544 00004 02320 30015
MF176 M0550 MF028
OBS 01: AT 1120Z OBS 10: AT 1205Z
OBS 01 SFC WND: 01025
01176 10539 10006 12322 18026
02177 20536 20008 21120 17030
03177 30533 30009 32319 16032
04177 40531 40009 42419 16032
05177 50524 50010 52420 15020
06177 60526 60010 62420 15022
07177 70523 70010 72421 15024
MF177 M0533 MF032
OBS 01 AT: 1229Z OBS 07 AT: 1301Z
OBS 07 SFC WND: 13025
REMARKS 177 542 999;

ZCZC WBC583
URNT14 KMIA 211530
AF967 0108 GLORIA OB 07 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01184 10543 10011 12420 09033
02182 20543 20011 22320 07025
03189 30543 30010 32420 09026
04187 40543 40010 42322 07030
05185 50543 50009 52321 09031
06182 60544 60008 62320 10042
07180 70545 70008 72322 12033
MF182 M0544 MF042
OBS 01 AT 1343Z OBS 07 AT 1412Z
OBS 01 SFC WND 09025
01175 10547 10005 12421 24018
02172 20547 20006 22321 22015
03169 30547 30007 32322 22020
04167 40548 40008 42320 19019
05165 50549 50008 52420 16009
06163 60549 60008 62422 20014
07160 70550 70009 72422 26008
MF169 M0547 MF020
OBS 01 AT 1427Z OBS 07 AT 1508Z
OBS 07 SFC WND 23010
REMARKS 177 547 001;

ZCZC WBC609
URNT14 KMIA 211833
AF967 0108 GLORIA OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01178 10535 10009 12521 15033
02178 20537 20008 22421 15030
03178 30540 30007 32321 13028
04178 40543 40007 42221 14027
05177 50545 50005 52020 13050
06177 60548 60999 62422 20057
MF177 M0548 MF057
OBS 01 AT 1552Z OBS 06 AT 1622Z
OBS 01 SFC WND 16025
01177 10554 10003 12421 01018
02177 20557 20004 22321 04018
03177 30560 30006 32321 02020
04177 40562 40006 42320 03021
05177 50565 50007 52319 03026
06177 60567 60007 62320 04030
07178 70570 70007 72320 04032
MF178 M0570 MF032
OBS 01 AT 1711Z OBS 07 AT 1735Z
OBS 07 SFC WND 03015
REMARKS 177 552 000;

ZCZC WBC680
URNT14 KMIA 220633
AF977 0208 GLORIA OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01161 10570 10007 12424 /////
02164 20569 20007 22524 /////
03167 30569 30007 32424 /////
04172 40570 40006 42524 /////
05172 50573 50005 52524 /////
06175 60578 60005 62424 32015
07177 70573 70000 72524 32042
MF177 M0573 MF042
OBS 01 AT 0425Z OBS 07 AT 0505Z
OBS 01 SFC WND /////
01178 10574 10001 12524 35034
02178 20577 20004 22323 35032
03178 30581 30006 32423 01023
04178 40583 40006 42524 03021
05178 50585 50007 52524 01025
06178 60588 60007 62524 01027
07178 70590 70007 72524 03023
MF178 M0574 MF034
OBS 01 AT 0530Z OBS 07 AT 0557Z
OBS 07 SFC WND /////
REMARKS 179 571 997;
ZCZC WBC709
URNT14 KMIA 221300 COR
AF967 0308 GLORIA OB 03 COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01179 10598 10006 12220 03020
02179 20596 20006 22320 01018
03179 30593 30006 32319 03027
04179 40591 40005 42220 01021
05178 50588 50004 52219 36032
06178 60585 60994 62320 35050
MF178 M0585 MF050
OBS 01 AT 1113Z OBS 06 AT 1137Z
OBS 01 SFC WND 03020
01178 10580 10005 12120 18034
02177 20577 20004 22019 20021
03177 30575 30006 31919 15052
04177 40572 40007 42215 15052
05178 50569 50003 52218 16034
06178 60566 60010 62221 18033
07178 70564 70010 72221 16031
MF177 M0581 MF060
OBS 01 AT 1157Z OBS 07 AT 1228Z
OBS 07 SFC WND 13020
REMARKS 177 593 991;

ZCZC WBC[illegible]
URNT14 KMIA 221440
AF967 0309 GLORIA OB 06 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01195 10583 10010 12219 10028
02192 20583 20010 22119 11029
03189 30583 30009 32118 11041
04187 40583 40007 42018 10048
05184 50584 50005 52120 09039
06182 60584 60002 62120 07037
07179 70584 70992 72420 07065
MF190 M0584 MF068
OBS 01 AT 1311Z OBS 07 AT 1340Z
OBS 01 SFC WND 09025
01176 10584 10001 12217 24043
02174 20585 20005 22221 26029
03171 30585 30006 32320 24020
04169 40585 40007 42220 22024
05166 50585 50008 52321 21020
06164 60584 60008 62321 21024
07162 70584 70009 72321 20026
MF177 M0584 MF050
OBS 01 AT 1405Z OBS 07 AT 1434Z
OBS 07 SFC WND 20025
REMARKS 179 584 991;

ZCZC WBC736
URNT14 KMIA 221615
AF967 0309 GLORIA OB 08 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01165 10586 12480 11712 21026
02167 20585 22471 21714 19031
03172 30583 32465 31715 22027
04174 40583 42457 41712 22031
05177 50585 52422 51512 25034
MF177 M0585 MF034
OBS 01 AT 1443Z OBS 05 AT 1504Z
OBS 01 SFC WND 20025
01183 10585 12378 11816 11074
02185 20585 2//// 2//// 12058
03189 30585 32465 31515 12053
04191 40585 42472 41515 13040
05193 50584 52479 51611 13050
06196 60586 62493 61511 13046
MF184 M0585 MF075
OBS 01 AT 1536Z OBS 06 AT 1556Z
OBS 06 SFC WND 12045
REMARKS 181 585 992;

ZCZC WBC822
URNT14 KMIA 230110
AF964 0408 GLORIA OB 04 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01176 10596 12473 11716 24014
02179 20597 22470 21616 24018
03183 30599 32458 31616 23023
04186 40600 42430 41616 22032
05189 50601 52374 51817 22028
MF186 M0600 MF032
OBS 01 AT 2335Z OBS 05 AT 2358Z
OBS 01 SFC WND /////
01193 10603 12418 11717 09045
02195 20604 22449 21717 10042
03199 30603 32463 31616 11020
04201 40603 42482 41515 10039
05203 50603 52488 51615 10035
06206 60602 62494 61815 11041
07208 70602 72497 71715 11033
MF193 M0603 MF045
OBS 01 AT 0030Z OBS 07 AT 0056Z
OBS 07 SFC WND /////
REMARKS 191 602 357;

ZCZC WBC831
URNT14 KMIA 230308
AF964 0408 GLORIA OB 07 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01193 10623 12482 11614 03019
02192 20619 22479 21714 36027
03192 30616 32469 31715 01030
04191 40614 42463 41715 01030
05190 50611 52438 51615 01034
06190 60609 92395 61815 34033
07190 70606 72361 71815 34027
MF190 M0611 MF034
OBS 01 AT 0137Z OBS 07 AT 0203Z
OBS 01 SFC WND /////
01190 10601 12408 11615 16056
02191 20599 22457 21615 14042
03191 30597 32466 31515 16049
04191 40594 42472 41515 15040
05190 50592 52481 51615 15046
06190 60589 62491 61615 15046
07189 70587 72494 71615 14041
MF190 M0601 MF056
OBS 01 AT 0227Z OBS 07 AT 0258Z
OBS 07 SFC WND /////
REMARKS 191 605 348;

ZCZC WBC847
URNT14 KMIA 230544
AF964 0408 GLORIA OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01208 10606 12484 11715 15048
02206 20608 22476 11615 12049
03203 30609 32463 31615 12042
04200 40611 42451 41615 11048
05198 50612 52439 51615 10043
06195 60612 62412 61615 06043
07193 70611 72349 72019 02034
MF206 M0608 MF049
OBS 01 AT 0335Z OBS 07 AT 0406Z
OBS 01 SFC WND /////
01193 10612 12393 11716 02037
02193 20615 22426 21716 01030
03193 30618 32444 31615 36031
04193 40620 42447 41615 36019
05193 50623 52457 51716 01025
06193 60626 62460 61716 35018
07193 70623 72469 71716 35025
MF193 M0612 MF037
OBS 01 AT 0430Z OBS 07 AT 0454Z
OBS 07 SFC WND /////
REMARKS 192 610 990;
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ZCZC WBC954
URNT14 KMIA 230707
AF964 0408 GLORIA OB 13 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01176 10613 12465 11717 22009
02178 20613 22462 21716 22010
03181 30614 32459 31816 24015
04183 40615 42453 41716 27015
05186 50615 52438 51615 31017
06189 60614 62418 61715 27018
07191 70614 72405 71715 27022
MF191 M0614 MF022
OBS 01 AT 0529Z OBS 07 AT 0557Z
OBS 01 SFC WND /////
01195 10611 12371 11918 21046
02195 20608 22401 21616 18053
03196 30605 32432 31616 15048
04195 40602 42451 41515 15044
05195 50600 52464 51515 15049
06195 60597 62466 61715 14047
07195 70595 72473 71615 14050
MF195 M0608 MF053
OBS 01 AT 0615Z OBS 07 AT 0644Z
OBS 07 SFC WND /////
REMARKS 195 613 320
EAST LEG MUCH MORE TURBULENT;

ZCZC WBC964
URNT14 KMIA 230909
AF964 0408 GLORIA OB 16 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01215 10615 12460 11615 12044
02213 20615 22460 21615 10038
03210 30617 32451 31515 10039
04209 40618 42439 41615 10056
05205 50619 52426 51715 10052
06203 60619 62402 61716 08050
07200 70619 72366 71918 05042
MF209 M0618 MF056
OBS 01 AT 0724Z OBS 07 AT 0749Z
OBS 01 SFC WND /////
01197 10617 12365 11817 25033
02195 20615 22408 21717 21030
03193 30614 32423 31717 20029
04190 40613 42438 41615 20035
05188 50613 52444 51716 18029
06185 60612 62453 61716 20024
07183 70611 72460 71616 19020
MF190 M0613 MF035
OBS 01 AT 0807Z OBS 07 AT 0837Z
OBS 07 SFC WND /////
REMARKS 199 618 329;

ZCZC WBC891
URNT14 KMIA 231340
AF967 0508 GLORIA OB 06 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01183 10621 13/// 10805 24026
02185 20621 23124 20805 23026
03189 30622 33121 30705 22027
04192 40624 43111 40705 22033
05195 50626 53100 50805 24030
06196 60628 63084 60805 23031
07198 70629 73068 70905 25042
08201 80629 83019 81107 26027
MF198 M0629 MF042
OBS 01 AT 1151Z OBS 08 AT 1223Z
OBS 01 SFC WND 22025
01207 10630 13053 11010 12051
02209 20630 23080 20905 11054
03212 30630 33103 30806 10050
04214 40630 43114 40905 10042
05217 50630 53128 50705 10041
06219 60630 63131 60705 10040
07221 70630 73144 70706 10038
MF207 M0630 MF054
OBS 01 AT 1300Z OBS 07 AT 1323Z
OBS 07 SFC WND /////
REMARKS 204 630 988;
ZCZC WBC907
URNT14 KMIA 231624
AF967 0508 GLORIA OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01205 10650 13125 10705 03020
02205 20648 23118 20805 36022
03204 30645 33109 30905 01027
04204 40642 43091 40906 01029
05203 50640 53076 50906 36039
06204 60638 63033 61009 32035
MF203 M0640 MF039
OBS 01 AT 1400Z OBS 06 AT 1429Z
OBS 01 SFC WND 02020
01207 10631 13066 10807 18043
02206 20628 23089 20807 20043
03206 30626 33104 30805 18039
04206 40623 43117 40705 17039
05207 50610 53126 50705 18034
06207 60608 63127 60805 19032
07207 70615 73136 70805 16025
MF206 M0628 MF043
OBS 01 AT 1525Z OBS 07 AT 1550Z
OBS 07 SFC WND /////
REMARKS 206 634 930;

ZCZC WBC906
URNT14 KMIA 231655 COR
AF972 0409 HENRI OB 12 COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01379 10740 13138 10856 14023
02376 20740 23131 20759 13023
03374 30741 33129 30752 10026
04371 40743 43123 408// 09028
05369 50741 53111 50953 08025
06366 60741 63080 61101 10025
MF371 M0743 MF028
OBS 01 AT 1425Z OBS 06 AT 1451Z
OBS 01 SFC WND /////
01361 10742 13087 11111 25031
02359 20742 23111 209// 28021
03356 30742 33114 31005 24020
04354 40745 43121 43121 410// 30012
05353 50749 53122 51057 29015
MF361 M0742 MF031
OBS 01 AT 1511Z OBS 05 AT 1531Z
OBS 05 SFC WND 33025
REMARKS 366 741 064

ZCZC WBC919
URNT14 KMIA 231800
AF967 0508 GLORIA OB 13 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01192 10639 13100 10805 25021
02195 20639 23097 20806 23033
03197 30639 33092 30806 25024
04200 40639 43080 40806 24030
05202 50639 53070 50806 24030
06204 60639 63049 61006 25042
07206 70640 73933 71109 23045
MF206 M0640 MF045
OBS 01 AT 0640Z OBS 07 AT 1720Z
OBS 01 SFC WND /////
REMARKS 209 641 700;

ZCZC WBC951
URNT14 KMIA 240119
AF964 0608 GLORIA OB 06 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01203 10660 12442 11816 25015
02205 20660 22436 21717 27018
03208 30660 32410 31818 30030
04210 40658 42388 41717 27039
05213 50657 52377 51919 26048
06215 60657 62361 61919 23066
MF214 M0657 MF071
OBS 01 AT 2344Z OBS 06 AT 0003Z
OBS 01 SFC WND /////
01216 10658 12300 11818 07094
02219 20659 22360 21818 08068
03223 30658 32403 31717 09066
04225 40658 42419 41616 08063
05227 50657 52443 51717 09053
06232 60657 62467 61716 11047
07234 70657 72469 71716 11045
MF216 M0658 MF094
OBS 01 AT 0021Z OBS 07 AT 0055Z
OBS 07 SFC WND /////
REMARKS 216 657 323;

ZCZC WBC786
URNT14 KMIA 240324
AF964 0608 GLORIA OB 09 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01216 10675 12459 11616 02025
02217 20673 22445 21616 02040
03217 30670 32428 31818 02041
04217 40668 42386 41717 34052
05217 50665 52331 51818 35062
MF217 M0663 MF090
OBS 01 AT 0137Z OBS 05 AT 0158Z
OBS 01 SFC WND /////
01219 10659 12378 11717 15045
02219 20656 22405 21818 16050
03219 30654 32426 31818 17042
04216 40654 42438 41818 17036
05218 50648 52453 51717 19033
06217 60644 62461 61616 19030
MF218 M0663 MF115
OBS 01 AT 0235Z OBS 06 AT 0309Z
OBS 07 SFC WND /////
REMARKS 217 662 015

ZCZC WBC936
URNT14 KMIA 240606
AF967 0608 GLORIA OB 13 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01233 10667 13035 11008 06055
02230 20665 23054 20808 07042
03226 30664 33046 30909 10050
04225 40665 43004 41111 10053
05222 50665 52954 51212 10050
06221 60666 6//// 6//// 10054
MF220 M0666 MF097
OBS 01 AT 0353Z OBS 06 AT 0416Z
OBS 01 SFC WND /////
REMARKS 219 667 676;

ZCZC WBC449
URNT14 KMIA 241335
AF967 0708 GLORIA OB 05 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01209 10677 13097 10804 25038
02212 20678 23092 20704 24038
03214 30680 33079 30706 28027
04216 40681 43052 40908 26032
05218 50681 53032 50909 26038
06224 60681 63017 61210 25063
MF226 M0681 MF079
OBS 01 AT 1139Z OBS 06 AT 1204Z
OBS 01 SFC WND 24030
01228 10682 13986 11310 12066
02230 20682 23986 21009 11067
03232 30652 3//// 3//// 11072
04234 40681 4//// 4//// 11048
05236 50681 53059 50907 11048
06239 60691 63081 60906 09050
07241 70681 73090 70906 10053
MF229 M0682 MF079
OBS 01 AT 1234Z OBS 07 AT 1256Z
OBS 07 SFC WND /////
REMARKS 226 681 950;

ZCZC WBC012
URNT14 KMIA 241351
AF980 0709 GLORIA OB 06 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01401 10731 10011 12220 10025
02399 20732 20009 22220 11030
03398 30733 30007 32220 11020
MF399 M0732 MF030
OBS 01 AT 1255Z OBS 03 AT 1300Z
OBS 01 SFC WND 09020
01392 10735 10009 12121 26025
02390 20735 20010 22120 27025
03388 30735 30011 32120 27027
04385 40734 40012 42120 27021
05383 50734 50013 52120 27016
06380 60733 60013 62120 27014
07378 70733 70014 72120 27011
MF388 M0735 MF027
OBS 01 AT 1315Z OBS 07 AT 1341Z
OBS 07 SFC WND 27010
REMARKS 395 735 006;
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ZCZC WBC079
URNT14 KNIA 241530 COR
AF967 0708 GLORIA OB 09 COR KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01230 10706 13110 10805 03036
02230 10706 13110 20905 01049
03229 30701 33095 30806 36046
04229 40693 43078 40806 36039
05229 50696 53059 50906 01049
06228 60693 63024 60807 35049
07229 70699 73985 70907 36050
MF229 M0696 MF064
OBS 01 AT 1353Z OBS 07 AT 1418Z
OBS 01 SFC WND /////
01229 10682 13/// 1//// 18066
02228 20679 23018 21106 19058
03228 30677 33052 30908 18050
04228 40674 43080 40906 19057
05229 50671 53088 50908 18037
06229 60669 63104 60908 18044
07229 70669 73114 70805 19048
MF229 M0684 MF101
OBS 01 AT 1445Z OBS 07 AT 1514Z
OBS 07 SFC WND /////
REMARKS 228 695 945 OUTBOUND TO EAST SFC WNDS 180 DEG 13 KTS
8NM FROM CENTER
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ZCZC WBC044
URNT14 KNIA 241805
AF967 0708 GLORIA OB 13 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01213 10690 13095 10805 24035
02216 20690 23082 20805 26033
03219 30691 33067 30906 26031
04221 40691 43054 40904 27027
05223 50691 53033 50807 28037
06226 60691 63995 60907 28043
07228 70690 73908 71009 27058
MF230 M0689 MF082
OBS 01 AT 1626Z OBS 07 AT 1651Z
OBS 01 SFC WND 27035
01232 10692 13884 11109 35062
02323 20694 23982 20907 35055
03232 30698 33025 30807 01049
04232 40700 43037 40807 01042
05232 50703 53052 50807 02036
06231 60705 63069 60707 02037
07231 70708 73079 70807 35039
MF232 M0691 MF068
OBS 01 AT 1730Z OBS 07 AT 1751Z
OBS 07 SFC WND /////
REMARKS 232 689 939;
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ZCZC WBC125
URNT14 KNIA 250135
AF977 0809 GLORIA OB 08 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01238 10698 13078 11211 24059
02235 20696 23966 21311 24061
03233 30695 33011 31010 25053
04230 40696 43044 41010 29029
05228 50697 53062 50909 28036
06226 60698 63075 61008 26030
07223 70699 73074 70808 28038
MF235 M0696 MF061
OBS 01 AT 2344Z OBS 07 AT 0011Z
OBS 01 SFC WND /////
REMARKS 241 699 427;
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ZCZC WBC134
URNT14 KNIA 250209
AF977 0808 GLORIA OB 11 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01243 10681 13078 11007 15050
02243 20683 23079 20908 16053
03244 30687 33042 31110 16050
04244 40690 43020 41010 16057
05244 50692 53995 51110 16065
06244 60695 63954 61010 16074
07244 70699 73824 71110 13106
MF244 M0699 MF106
OBS 01 AT 0050Z OBS 07 AT 0114Z
OBS 01 SFC WND /////
01244 10703 13777 11111 04069
02243 20705 23913 21311 01064
03242 30709 33987 30909 03037
04242 40712 43017 41010 01043
05242 50714 53041 51010 01046
06243 60716 63063 61010 01042
07243 70719 73072 70909 03031
MF244 M0703 MF069
OBS 01 AT 0129Z OBS 07 AT 0152Z
OBS 07 SFC WND /////
REMARKS 243 701 383;
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ZCZC WBC159
URNT14 KNIA 250419
AF977 0808 GLORIA OB 14 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01262 10705 13087 11009 08049
02260 20704 23072 21009 07072
03257 30705 33044 31009 07057
04255 40705 43017 40909 05041
05252 50706 53980 51110 08079
06249 60707 63907 61211 07076
07247 70706 73740 71211 36020
MF252 M0706 MF079
OBS 01 AT 0243Z OBS 07 AT 0308Z
OBS 01 SFC WND /////
01247 10702 13804 11210 14107
02248 20699 23971 21310 17066
03247 30696 33998 31110 18061
04246 40694 43034 41110 18056
05246 50691 53055 51110 19044
06246 60688 63073 61110 20047
07247 70685 73081 71010 18051
MF247 M0699 MF126
OBS 01 AT 0323Z OBS 07 AT 0355Z
OBS 07 SFC WND /////
REMARKS 247 705 401;
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ZCZC WBC174
URNT14 KMIA 250619
AF977 0808 GLORIA OB 18 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01266 10711 13080 11009 07038
02264 20712 23068 20909 05063
03262 30712 33049 30808 02023
04259 40710 43011 41009 06068
05257 50709 53991 51009 08068
06254 60709 63946 61010 06076
07252 70709 73883 71210 07078
MF252 M0709 MF078
OBS 01 AT 0435Z OBS 07 AT 0455Z
OBS 01 SFC WND /////
01246 10708 13798 11612 28096
02244 20709 23951 21010 28041
03241 30709 33996 31010 27048
04238 40709 43024 41010 27044
05236 50709 53032 51111 26035
06234 60709 63058 60908 27034
07231 70708 73069 70908 27032
MF246 M0708 MF086
OBS 01 AT 0518Z OBS 07 AT 0543Z
OBS 07 SFC WND /////
REMARKS 248 708 413
LOST 1,000 FT ALTITUDE / 55 KTS AIRSPEED AND.
PULLED "1.75 G'S INSTANTANEOUSLY, OUTBOUND TO S
ZCZC WBC341
URNT14 KMIA 251330
AF964 0908 GLORIA OB 02 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01243 10720 13030 10908 27033
02245 20720 23013 20909 25039
03248 30719 23993 31010 24036
04250 40719 43966 41010 24050
05253 50719 53909 51212 25052
06255 60720 63864 61212 25062
07258 70720 73746 71412 24071
MF260 M0720 MF086
OBS 01 AT 1151Z OBS 07 AT 1215Z
OBS 01 SFC WND 27025
01264 10719 13854 11010 07065
02268 20724 23931 21010 07083
03270 30724 33972 31111 09058
04273 40723 43994 40909 10066
05275 50722 53009 50909 10064
06277 60721 63025 60909 11064
07279 70720 73044 70808 11074
MF268 M0724 MF083
OBS 01 AT 1242Z OBS 07 AT 1313Z
OBS 07 SFC WND 09065
REMARKS 248 708 413D
ZCZC WBC492
UPNT14 KMIA 251522
AF964 0908 GLORIA OB 13 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01261 10739 13013 10909 35037
02261 20735 23988 20808 35049
03262 30733 39336 31010 34045
04262 40731 43910 41111 34062
05263 50728 53782 51111 34055
MF262 M0731 MF062
OBS 01 AT 1356Z OBS 05 AT 1411Z
OBS 01 SFC WND /////
01265 10722 13823 11313 17081
02265 22719 23931 21111 18074
03264 30716 33960 31010 18069
04264 40714 43998 41108 18075
05263 50710 53019 51009 19062
06263 60708 63028 61009 19057
MF265 M0724 MF109
OBS 01 AT 1445Z OBS 09 AT 1511Z
OBS 06 SFC WND 18050
REMARKS 264 725 929 SFC WND NOT MSMT DURING INBOUND LEG
SFC WND 190/100 KTS AT 26.5N 71.9W

ZCZC WBC712
URNT14 KMIA 251751
AF964 0908 GLORIA OB 17 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01251 10729 13015 11009 24041
02253 20729 23977 20808 24058
03256 30728 33963 31111 27047
04258 40729 43924 41010 26053
05261 50729 53866 51111 27067
06263 60728 63729 61911 24076
07266 70729 73616 71613 26071
MF263 M0728 MF076
OBS 01 AT 1610Z OBS 07 AT 1635Z
OBS 01 SFC WND 26050
01270 10731 13761 11111 09080
02273 20731 23865 21010 09078
03275 30731 33928 31010 09073
04278 40731 43952 40909 11040
05280 50730 53978 50909 10057
06284 60730 63019 60909 11059
07285 70730 73038 70909 10060
MF272 M0731 MF088
OBS 01 AT 1705Z OBS 07 AT 1731Z
OBS 07 SFC WND 09065
REMARKS 267 730 497 NARROW BAND OF VERY WARM AIR VCNTY PSN 6
ON INBOUND LEGD

ZCZC WBC264
URNT14 KMIA 252148
AF980 1008 GLORIA OB 07 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01291 10737 13021 10909 09067
02289 20737 23009 20908 09069
03286 30738 33988 30909 08079
04284 40738 43953 41107 08084
05282 50738 53914 51010 07086
06280 60738 63864 61212 07091
07277 70738 73765 71111 07095
08274 80736 83605 81111 05084
MF277 M0738 MF095
OBS 01 AT 2008Z OBS 08 AT 2034Z
OBS 01 SFC WND /////
01272 10734 13653 11114 23074
02268 20734 23824 21211 26075
03266 30735 33889 31110 26060
04264 40735 43918 41110 /////
05261 50735 53958 50909 26069
06259 60735 63007 60908 25070
07256 70735 73012 71008 25070
MF268 M0734 MF075
OBS 01 AT 2106Z OBS 07 AT 2135Z
OBS 07 SFC WND 27055
REMARKS 273 735 527;

ZCZC WBC292
UPNT14 KMIA 260008
AF980 1008 GLORIA OB 13 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01275 10716 13000 10908 17062
02275 20719 23972 21108 18077
03277 30723 33934 31109 17078
04277 40726 43906 41209 16076
05276 50730 5//// 5//// 16074
06276 60733 63764 61610 17079
07276 70736 73632 71612 17074
MF276 M0733 MF079
OBS 01 AT 2209Z OBS 07 AT 2233Z
OBS 01 SFC WND /////
01277 10743 13718 11212 03079
02277 20746 2//// 2//// 36062
03276 30748 33872 31010 01079
04274 40751 43922 41010 36077
05276 50755 53972 50808 01053
06276 60757 63996 60808 36067
07276 70759 73010 70606 01051
MF276 M0748 MF079
OBS 01 AT 2328Z OBS 07 AT 2353Z
OBS 07 SFC WND /////
REMARKS 277 740 550;

ZCZC WBC309
UPNT14 KMIA 260400
AF980 1008 GLORIA OB 18 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01260 10739 13014 10707 26066
02263 20739 23002 20808 26053
03260 30740 33975 30909 27062
04270 40740 43902 41010 26060
05273 50741 53832 51211 26060
06276 60740 63750 61809 22078
MF276 M0740 MF078
OBS 01 AT 0120Z OBS 06 AT 0147Z
OBS 01 SFC WND /////
01283 10745 13678 11212 06061
02285 20740 23771 21212 06090
03289 30748 33872 31111 08075
04293 40759 43951 41010 07058
MF285 M0740 MF080
OBS 01 AT 0235Z OBS 04 AT 0250Z
OBS 04 SFC WND /////
REMARKS 281 744 582;
```

ZCZC WBC309
URNT14 KNIA 220430
AF963 0103 CYCLONE OB 14 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01313 10743 10012 12320 31010
02313 20741 20012 22319 26005
03314 30737 30012 32419 22021
04314 40735 40012 42319 20013
05316 50731 50013 52419 18010
06317 60728 60014 62418 15021
07317 70725 70013 72318 04015
MF314 M0737 MF021
OBS 01 AT 0345Z OBS 07 AT 0431Z
OBS 07 SFC WND /////
REMARKS 312 746 008
000 TOPS AT 08 070

ZCZC WBC823
URNT14 KNIA 230133
AF963 0309 CYCLONE OB 03 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01340 10761 10015 1//20 02030
02343 20761 20015 22020 03017
03343 30757 30014 32120 04031
04340 40754 40013 42120 05032
05337 50752 50012 52020 05031
06336 60748 60011 62221 35020
07336 70745 70010 72321 34009
08338 80740 80010 82421 31008
MF340 M0754 MF032
OBS 01 AT 2315Z OBS 08 AT 0010Z
OBS 01 SFC WND /////
01343 10746 10011 12221 04014
02346 20746 20012 2//21 06025
03348 30746 30013 32020 04026
04351 40746 40014 42020 06023
05354 50746 50016 5//19 06027
06356 60746 60016 6//19 07032
07359 70746 70017 7//18 07038
MF356 M0746 MF032
OBS 01 AT 0035Z OBS 07 AT 0106Z
OBS 07 SFC WND /////
REMARKS 341 745 010

ZCZC WBC247
URNT14 KNIA 232022 COR
AF866 0509 HENRI OB 03 COR KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01369 10758 12490 11909 35020
02359 20747 22481 21813 34020
03370 30744 32468 31716 35013
04370 40741 42447 41816 04014
MF369 M0747 MF020
OBS 01 AT 1856Z OBS 04 AT 1909Z
OBS 01 SFC WND /////
01369 10736 10008 12322 18031
02369 20734 20010 22221 18030
03369 30731 30012 32220 14030
04369 40727 40013 42219 17029
05369 50724 50015 52220 18021
06369 60721 60015 62220 17022
07369 70719 70015 72219 19016
MF369 M0736 MF031
OBS 01 AT 1937Z OBS 07 AT 2004Z
OBS 07 SFC WND 17015
REMARKS 369 740 0000

ZCZC WBC798
URNT14 KNIA 240346
AF968 0609 HENRI OB 03 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01374 10751 10011 12120 36020
02374 20747 20010 22221 35020
03375 30743 30007 32322 33016
04376 40740 40005 42422 99005
MF376 M0745 MF027
OBS 01 AT 0155Z OBS 04 AT 0222Z
OBS 01 SFC WND /////
01376 10739 10006 12422 17032
02376 20736 20008 22221 16043
03376 30733 30011 32220 18040
04376 40730 40012 42220 18041
05376 50728 50013 52120 17041
06376 60724 60014 62219 19035
07376 70721 70015 72219 19031
MF376 M0736 MF043
OBS 01 AT 0245Z OBS 07 AT 0315Z
OBS 07 SFC WND /////
REMARKS 376 740 0050

ZCZC WBC???
URNT14 KNIA 240646
AF968 0609 HENRI OB 06 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01389 10748 10012 12319 12031
02387 20748 20014 22220 11035
03385 30748 30009 32221 11032
04383 40748 40007 42222 11027
05380 50748 50005 52322 99005
MF382 M0748 MF035
OBS 01 AT 0410Z OBS 05 AT 0502Z
OBS 01 SFC WND /////
01377 10738 10007 12322 23032
02374 20737 20009 22221 24032
03373 30738 30010 32220 24035
04369 40740 40012 42120 25029
05366 50740 50013 52119 27025
06364 60740 60013 62119 27024
07362 70740 70013 72119 27020
MF372 M0738 MF035
OBS 01 AT 0527Z OBS07 AT 0600Z
OBS 07 SFC WND /////
REMARKS 388 740 0000

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ZCZC WBC456
URNT14 KMIA 080600 COR
AF980 03XX INVEST OB 18 COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01242 10707 10007 12322 20034
 02243 20705 20007 22323 20034
 03244 30702 30009 32321 18045
04245 40699 40010 42321 17027
05244 50696 50009 52323 13040
06243 60694 60010 62421 15038
07242 70693 70010 72422 14035
MF244 M0702 MF045
OBS 01 AT 0510Z OBS 07 AT 0543Z
OBS 07 SFC WND /////
REMARKS 242 710 004;

ZCZC WBC453
URNT14 KMIA 080700
AF980 03XX INVEST OB 18 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01242 10707 10007 12322 20034
 02243 20705 20007 22323 20034
03244 30702 30008 32321 18045
04245 40699 40010 42321 17027
05244 50696 50009 52323 13040
06243 60694 60010 62421 15038
07242 70693 70010 72422 14035
MF244 M0702 MF045
OBS 01 AT 0510Z OBS 07 AT 0543Z
 OBS 07 SFC WND /////
REMARKS 242 710 004;

ZCZC WBC723
URNT14 KMIA 081308
AF967 0410 ISABEL OB 07 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01243 10702 10011 12221 18043
02243 20704 20010 22221 19044
03244 30707 30010 32321 20023
04245 40709 40009 42321 21028
05246 50712 50009 52321 22023
06248 60713 60005 62321 22033
07251 70714 70004 72321 22018
MF243 M0704 MF044
OBS 01 AT 1133Z OBS 07 AT 1201Z
OBS 07 SFC WND 18035
01250 10718 10005 12221 35067
02249 20720 20009 22221 34043
03249 30723 30011 32120 36026
04250 40726 40012 42120 02025
05251 50729 50012 52120 01020
06251 60732 60013 62120 01018
07251 70734 70014 72120 02021
MF250 M0718 MF067
OBS 01 AT 1226Z OBS 07 AT 1254Z
OBS 07 SFC WND 01020
REMARKS 251 715 003 PROMINENT BAND 65KT SFC WND BENEATH CONVECTION
1ST OF CENTER 15-24NMD

ZCZC WBC522
URNT14 KMIA 081630 COR
AF967 0410 ISABEL OB 11 COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01234 10715 10014 12219 23012
02237 20715 20014 22219 25013
03239 30715 30013 32219 25017
04240 40715 40013 42219 25018
05244 50715 50012 52219 25021
06246 60716 60011 62219 25027
07248 70716 70009 72219 26020
08251 80715 80007 82220 23025
MF246 M0716 MF027
OBS 01 AT 1340Z OBS 08 AT 1421Z
OBS 01 SFC WND 25010
01260 10717 10004 12221 13029
02263 20717 20006 22221 11051
03266 30717 30007 32221 10057
04269 40717 40010 42120 09066
05271 50716 50011 52020 05052
06273 60716 60014 62020 07051
07277 70716 70016 71919 07042
MF269 M0717 MF066
OBS 01 AT 1520Z OBS 07 AT 1559Z
OBS 07 SFC WND 08050
REMARKS 255 716 004 PROMINENT 5070KT SFC WND BENEATH CONVECTION
20105NM N OF CENTER;

URNT14 KMIA 081806
AF967 0410 ISABEL OB 14 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01261 10737 12519 11208 36031
02260 20735 22510 21309 36027
03260 30733 32498 31309 35035
04260 40731 42495 41409 35032
05259 50727 52482 51410 330349
06259 60725 62451 61512 32055
07260 70722 72433 71713 29026
MF259 M0725 MF055
OBS 01 AT 1645Z OBS 07 AT 1709Z
OBS 01 SFC WND 36040
01262 10716 12430 11814 18051
02262 20713 22447 21814 19060
 03263 30712 32474 31812 20049
04262 40709 42487 41610 18050
05261 50707 52499 51510 18044
06261 60706 62507 61510 18037
07260 70702 72513 71410 18030
MF262 M0713 MF060
OBS 01 AT 1728Z OBS 07 AT 1753Z
OBS 07 SFC WND 16040
REMARKS 261 721 423 SFC WND 5065KT BENEATH CONVECTION 1740NM
E OF CENTER;
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ZCZC WBC831
URNT14 KMIA 090500 COR
AF977 0610 ISABEL OB 05 COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01291 10734 10016 12222 06052
02290 20734 20016 22222 06059
03287 30734 30014 32222 06065
04285 40733 40011 42222 06052
05282 50732 50008 52222 09055
06280 60731 60006 62323 12061
07277 70733 70003 72323 12033
MF287 M0734 MF065
OBS 01 AT 0249Z OBS 07 AT 0319Z
OBS 01 SFC WND /////
01273 10735 10004 12424 26012
02271 20735 20008 22121 26024
03269 30735 30010 32323 28017
04266 40735 40012 42322 31013
05263 50735 50013 52222 27013
06261 60735 60014 6232R22015
07259 70735 70015 72322 23008
MF271 M0735 MF024
OBS 01 AT 0343Z OBS 07 AT 0414Z
OBS 07 SFC WND /////
REMARKS 276 734 002
NO CONVECTIVE ACTIVITY OR PRECIP OUTBND TO SOUTH;
ZCZC WBC782
URNT14 KMIA 100207
AF968 0910 ISABEL OB 04 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01305 10778 13171 11005 09044
02303 10778 23151 20707 06044
03300 30777 33151 31006 05050
04296 40775 43141 41109 12040
05293 50775 53142 51207 09024
06288 60773 63138 61403 36011
MF300 M0777 MF050
OBS 01 AT 2236Z OBS 06 AT 2305Z
OBS 01 SFC WND 08035
01286 10774 13146 11304 18004
02285 20774 23154 21206 99004
03282 30774 33157 31107 17008
04280 40774 43163 41206 19013
05277 50774 53167 51104 23013
06274 60773 63170 61106 20013
07273 70772 73179 71104 23021
MF273 M0772 MF021
OBS 01 AT 0018Z OBS 07 AT 0046Z
OBS 07 SFC WND /////
REMARKS 290 773 128;
ZCZC WBC820
URNT14 KMIA 100415
AF968 0910 ISABEL OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01291 10755 12554 11710 16034
02292 20757 22547 21714 16049
03291 30760 32542 31713 16040
04290 40763 42536 41714 16040
05292 50766 52533 51714 16050
06292 60769 62523 61815 17037
07291 70772 72514 71817 16038
08290 80775 82499 81917 16031
09290 90778 92492 92114 17023
00290 00780 02486 02310 17015
11289 10783 12477 12115 19017
MF292 M0766 MF050
OBS 01 AT 0128Z OBS 11 AT 0217Z
OBS 01 SFC WND 08035
01289 10791 12487 11915 01021
02289 20794 22502 21817 02017
03289 30796 32523 31815 02019
MF289 M0791 MF021
OBS 01 AT 0252Z OBS 03 AT 0300Z
OBS 03 SFC WND /////
REMARKS 290 787 467
LAST REPORT OBS 01 THRU 10 TO KMIA ETA KBIX 10/045520

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ZCZC WBC124
URNT14 KMIA 262130
AF967 0111 JUAN OB 09 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01258 10931 10999 12219 05017
02256 20930 20998 22119 05021
03254 30929 30997 32219 06024
04251 40929 40996 42220 09016
05249 50929 50996 52219 05011
06246 60927 60995 62219 99005
MF254 M0931 MF024
OBS 01 AT 1945Z OBS 06 AT 2010Z
OBS 01 SFC WND 03020
01245 10931 10996 12220 01016
02247 20935 20997 22120 32036
03246 30937 30998 32119 34041
04245 40940 40999 42120 34037
05245 50943 50000 52119 35035
06244 60945 60002 62119 34043
07245 70948 70003 72018 35038
MF245 M0938 MF046
OBS 01 AT 2040Z OBS 07 AT 2111Z
OBS 07 SFC WND 34035
REMARKS 245 927 995;

ZCZC WBC125
URNT12 KMIA 261906 COR 02
AF967 0111 JUAN OB 06 COR 02 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01245 10925 10997 12120 17010
02245 20923 20997 22120 16010
03245 30920 30998 32219 16025
04245 40917 40998 42119 16030
05244 50914 50999 52119 16025
06244 60912 60000 62119 16025
07244 70909 70000 72219 16020
MF245 M0917 MF030
OBS 01 AT 0917Z OBS 07 AT 1856Z
OBS 01 SFC WND 16020
REMARKS 244 928 996 COR 02 FOR ACFT NUMBER

ZCZC WBC300
URNT14 KMIA 272156
AF967 0411 JUAN OB 05 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01268 10907 12292 11616 25036
02265 20907 22308 21514 25030
03263 30906 32320 31515 25036
04260 40906 42341 41713 25044
05259 50906 52354 51613 26055
06256 60906 62370 61513 26048
07253 70906 72375 71513 28046
MF259 M0906 MF055
OBS 01 AT 2110Z OBS 07 AT 2137Z
OBS 01 SFC WND 26045
REMARKS 271 907 985;

ZCZC WBC312
URNT14 KMIA 272330
AF967 0411 JUAN OB 08 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01272 10887 12358 11513 17049
02271 20890 22352 21513 18063
03271 30893 32341 31514 19062
04271 40895 42325 41614 19068
05271 50898 52313 51515 19062
06273 60902 62287 61615 21044
07275 70906 72262 71815 22037
MF271 M0895 MF068
OBS 01 AT 2218Z OBS 07 AT 2245Z
OBS 01 SFC WND 15050
01276 10914 1//// 1//// 36017
02276 20916 22282 21615 34020
03276 30921 32297 31515 01028
04276 40923 42311 41313 36053
MF276 M0923 MF053
OBS 01 AT 2301Z OBS 04 AT 2313Z
OBS 07 SFC WND /////
REMARKS 275 908 982;

ZCZC WBC321
URNT14 KMIA 280100
AF967 0411 JUAN OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01276 10923 12311 11715 36053
02276 20920 22288 21615 34030
03277 30917 32269 31715 30031
04277 40913 42257 41715 31014
MF276 M0923 MF053
OBS 01 AT 2330Z OBS 04 AT 2353Z
OBS 01 SFC WND /////
01280 10910 12247 11615 99005
02282 20911 22232 21715 15032
03285 30911 32247 31615 13055
04289 40914 42291 41514 09074
05288 50921 53949 50808 08046
MF289 M0914 MF074
OBS 01 AT 0008Z OBS 05 AT 0035Z
OBS 05 SFC WND /////
REMARKS 277 911 982;

ZCZC WBC329
URNT14 KMIA 280322
AF967 0411 JUAN OB 13 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01278 10930 13969 10503 33048
02277 20928 2//// 2//// 33044
03277 30925 33947 30705 32041
04276 40921 43931 40806 30036
05278 50918 53916 50908 26022
06282 60915 63885 61206 28020
07283 70913 73899 71303 20020
MF278 M0930 MF048
OBS 01 AT 0057Z OBS 07 AT 0155Z
OBS 01 SFC WND /////
01282 10910 13908 11006 20027
02280 20907 23920 20905 19041
03280 30905 33932 30905 19035
04281 40903 43942 40906 19050
05282 50901 53972 50804 19056
06283 60898 63981 60703 19056
07282 70895 73993 70703 19054
MF282 M0901 MF056
OBS 01 AT 0225Z OBS 07 AT 0250Z
OBS 07 SFC WND /////
REMARKS 282 915 878
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ZCZC WBC401
URNT14 KMIA 281522 COR
AF968 0611 JUAN OB 03 COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01286 10912 12294 11310 22050
02289 20913 22288 21309 21051
03290 30915 32251 31411 20058
04292 40918 42236 41412 19056
05293 50921 52208 51613 19060
06294 60925 62183 61716 25006
MF294 M0925 MF060
OBS 01 AT 1344Z OBS 06 AT 1410Z
OBS 01 SFC WND 21055
01294 10927 12187 11614 32030
02294 20930 22217 21513 02026
03294 30933 32232 31413 05036
04295 40935 42255 41312 02051
05294 50938 52278 51313 02064
06294 60941 62291 61312 02056
07294 70943 72306 71311 03047
MF294 M0938 MF064
OBS 01 AT 1438Z OBS 07 AT 1503Z
OBS 07 SFC WND /////
REMARKS 294 925 118 COR FOR REMARKS;

ZCZC WBC414
URNT14 KMIA 281815
AF968 0611 JUAN OB 06 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01278 10925 12324 11210 26055
02280 20924 22312 21210 26053
03283 30924 32294 31210 26052
04286 40924 42281 41211 25042
05288 50925 52266 51211 23047
06291 60927 62254 61312 20039
MF278 M0925 MF055
OBS 01 AT 1634Z OBS 06 AT 1658Z
OBS 01 SFC WND 27055
01291 10926 12202 11514 20044
02291 20923 22242 21511 20043
03291 30920 32260 31410 19043
04290 40917 42285 41311 19039
05290 50914 52294 51411 20041
06290 60911 62312 61410 19043
07290 70909 72330 71311 19038
MF291 M0926 MF044
OBS 01 AT 1732Z OBS 07 AT 1800Z
OBS 07 SFC WND /////
REMARKS 293 929 117;

ZCZC WBC507
URNT14 KMIA 291055
AF968 0811 JUAN OB 02 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01295 10915 12205 11716 36038
02293 20918 22259 21614 01030
03293 30922 32282 31513 36026
04293 40925 42294 41513 34017
05293 50927 52304 51413 34023
06293 60930 62313 61413 02015
07292 70933 72325 71413 01034
MF295 M0915 MF038
OBS 01 AT 1002Z OBS 07 AT 1031Z
OBS 07 SFC WND /////
REMARKS 294 913 973;

ZCZC WBC513
URNT14 KMIA 291327
AF968 0811 JUAN OB 05 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01278 10912 12331 11412 27031
02280 20912 22319 21512 25042
03283 30909 32310 31513 24043
04285 40908 42294 41613 23050
05287 50908 52288 51513 23043
06289 60911 62261 61514 24046
07292 70912 72221 71615 24048
08295 80913 82181 81817 31026
MF291 M0912 MF055
OBS 01 AT 1108Z OBS 08 AT 1155Z OBS 01 SFC WND /////
01296 10915 12221 11615 04011
02295 20918 22252 21515 36029
03295 30922 32283 31613 01023
04294 40925 42295 41513 31012
05294 50927 52307 51413 01010
06293 60928 62316 61413 36012
07292 70932 72318 71413 35007
MF295 M0918 MF029
OBS 01 AT 1228Z OBS 07 AT 1256Z OBS 07 SFC WND /////
REMARKS 296 913 176;

ZCZC WBC518
URNT14 KMIA 291510
AF968 0811 JUAN OB 08 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01278 10911 12340 11412 25030
02281 20908 22331 21412 26040
03284 30908 32318 31512 26041
04286 40908 42313 41512 25042
05288 50908 52303 51513 24037
06291 60909 62294 61513 23040
07293 70911 72273 71613 24052
08296 80912 82240 81514 21053
MF296 M0912 MF053
OBS 01 AT 1336Z OBS 08 AT 1410Z OBS 01 SFC WND /////
REMARKS 298 914 175 LAST REPORT OB 0108 TO KMIA;

ZCZC WBC476
URNT14 KMIA 311749 COR
AF968 0911 JUAN OB 03 COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01299 10877 12277 11613 29037
02300 20875 20989 21515 21043
03300 30872 30989 32016 21033
04300 40869 40990 42117 21031
05300 50866 50991 52117 19035
06300 60863 60992 62116 19022
MF300 M0875 MF043
OBS 01 AT 1705Z OBS 06 AT 1730Z
OBS 01 SFC WND 19025
REMARKS 300 883 263 COR FOR REMARKS;
983

ZCZC WBC509
URNT14 KMIA 311840
AF968 0911 JUAN OB 04 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01290 10872 10992 11918 23025
02293 20875 20990 22117 24039
03295 30877 30990 32016 25042
04296 40878 40989 41917 25039
05300 50879 50988 51916 28044
MF299 M0879 MF053
OBS 01 AT 1730Z OBS 05 AT 1818Z
OBS 01 SFC WND 24030
REMARKS 300 883 983 LST RPT OBS (
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ZCZC WBC392
URNT14 KMIA 161917
AF866 0212 KATE OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01211 10668 10005 12320 36045
02210 20667 20004 22320 36048
03210 30665 30003 32320 35048
04210 40662 40000 42120 35057
05210 50659 50996 52222 35062
06210 60657 60994 62321 34057
07210 70655 70992 72020 34068
MF210 M0655 MF068
OBS 01 AT 1730Z OBS 07 AT 1755Z
OBS 01 SFC WND 35045
01211 10650 10992 12322 15033
02211 20648 20997 22322 18022
03211 30644 30998 32322 17029
04211 40642 40999 42322 17033
05211 50640 50000 52322 17026
06211 60637 60001 62421 18033
07211 70635 70002 72321 18037
MF211 M0635 MF037
OBS 01 AT 1825Z OBS 07 AT 1854Z
OBS 07 SFC WND 17035
REMARKS 211 653 987
EAST LEG SMOOTH
NO SIG WX=

ZCZC WBC402
URNT14 KMIA 162145
AF866 0212 KATE OB 13 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01228 10654 10006 12220 05064
02226 20654 20004 22220 04048
03224 30651 30002 32221 04059
04221 40649 40002 42221 04052
05218 50648 50999 52522 10031
06216 60652 60996 62423 09038
07213 70654 70994 72422 10030
08210 80654 80990 82422 10040
MF225 M0651 MF063
OBS 01 AT 1939Z OBS 08 AT 2021Z
OBS 01 SFC WND 06065
01206 10656 10993 12322 28026
02203 20655 20994 22321 29027
03201 30655 30997 32221 30026
04199 40655 40000 42120 26055
05198 50654 50001 52120 26042
06196 60653 60002 52120 26030
07193 70654 70003 72220 27025
MF199 M0655 MF055
OBS 01 AT 2056Z OBS 07 AT 2126Z
OBS 07 SFC WND 26025
REMARKS 209 656 985
MAX SFC WND OUTBOUND W 50KT 60NM S OF CENTER=

ZCZC WBC419
URNT14 KMIA 170110
AF967 0312 KATE OB 04 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01198 10660 10000 12019 29033
02200 20659 20997 22019 28029
03203 30659 30992 32020 26022
04205 40660 40987 42020 24024
MF198 M0660 MF033
OBS 01 AT 2342Z OBS 04 AT 2357Z
OBS 01 SFC WND /////
01210 10660 10997 12020 09042
02212 20660 20997 22020 08044
03214 30659 30999 32020 08032
04217 40659 40001 42018 05071
05219 50662 50003 52018 05066
06222 60661 60004 52017 06065
07224 70661 70006 72017 07050
MF217 M0659 MF071
OBS 01 AT 0007Z OBS 07 AT 0043Z
OBS 07 SFC WND /////
REMARKS 207 660 981
CONTINUOUS MBT TURB 75NM105NM OUTBOUND TO N=

ZCZC WBC437
URNT14 KMIA 170410 COR
AF967 0312 KATE OB 09 COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01207 10678 12434 11412 02053
02207 20676 22427 21512 01049
03206 30673 32422 31513 01050
04206 40672 42418 41613 01048
05206 50671 52401 51613 01049
06205 60667 62381 51614 36029
07205 70665 72348 71613 36043
MF207 M0678 MF053
OBS 01 AT 0120Z OBS 07 AT 0144Z
OBS 01 SFC WND /////
01204 10658 12362 11615 19053
02205 20655 22389 21513 19051
03205 30652 32410 31513 19045
04205 40651 42419 41514 18048
05205 50648 52429 51511 18044
06205 60645 62438 51511 18042
07205 70643 72440 71511 17045
MF205 M0658 MF053
OBS 01 AT 0313Z OBS 07 AT 0338Z
OBS 07 SFC WND /////
REMARKS 205 661 243
SONDE RELEASED FROM 700MB, BETWEEN INBD AND OUTBD LEGS

ZCZC WBC440
URNT14 KMIA 170546
AF967 0312 KATE OB 12 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01221 10663 12429 11513 09037
02219 20663 22419 21512 08045
03217 30663 32407 31514 09043
04214 40664 42393 41613 09043
05212 50664 52374 51614 09048
06211 60664 62352 61714 09049
07210 70665 72316 71715 08044
MF211 M0664 MF049
OBS 01 AT 0418Z OBS 07 AT 0439Z
OBS 01 SFC WND /////
01203 10663 12351 11615 29016
02201 20663 22376 21515 28038
03197 30662 32386 31414 25028
04196 40663 42405 41414 24027
05193 50664 52416 51512 24028
06191 60664 62422 61511 25029
07189 70664 72425 71512 26028
MF201 M0663 MF038
OBS 01 AT 0504Z OBS 07 AT 0527Z
OBS 07 SFC WND /////
REMARKS 206 664 271=
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ZCZC WBC458
URNT14 KMIA 171346
AF964 0412 KATE OB 04 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01203 10656 10004 12422 17049
02203 20659 20002 22323 15041
03203 30662 30000 32222 16049
04201 40664 40999 42323 18041
05201 50667 50998 52121 20042
06199 60669 60997 62222 21053
07202 70672 70993 72323 24042
MF199 M0669 MF053
OBS 01 AT 1109Z OBS 07 AT 1145Z
OBS 01 SFC WND 18035
01207 10676 10986 12323 03043
02206 20679 20992 22323 36051
03205 30681 30995 32424 35041
04206 40684 40998 42423 01039
05206 50687 50000 52424 01038
06207 60689 60001 62423 01039
07207 70691 70002 72423 01034
MF206 M0679 MF051
OBS 01 AT 1230Z OBS 07 AT 1300Z
OBS 07 SFC WND 01030
REMARKS 207 673 992;

ZCZC WBC466
URNT14 KMIA 171552
AF964 0412 KATE OB 07 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01/// 1//// 1//// 1//// /////
02192 20673 20004 22323 22075
03195 30672 30003 32323 22038
04197 40675 40001 42323 27038
05200 50677 50998 52323 25032
06202 60678 60996 62424 25035
07205 70678 70991 72424 26028
MF208 M0674 MF056
OBS 01 AT 1343Z OBS 07 AT 1411Z
OBS 01 SFC WND 22030
01211 10677 10987 12323 09085
02214 20677 20997 22222 11085
03217 30677 30998 32323 10076
04219 40676 40001 42423 10057
05221 50676 50004 52423 10049
06223 60676 60005 62222 10050
07226 70677 70007 72121 10052
MF226 M0677 MF085
OBS 01 AT 1502Z OBS 07 AT 1531Z
OBS 07 SFC WND 09040
REMARKS 209 676 982
850MB CENTER 21.0N 67.7W AT 17/1445Z,OCNL MDT TURB OUTBOUND;

ZCZC WBC480
URNT14 KMIA 171835
AF964 0412 KATE OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01210 10694 10000 12424 01034
02209 20691 20998 22424 36037
03209 30689 30995 32323 35042
04209 40686 40991 42424 33040
05210 50683 50984 52424 33035
MF209 M0689 MF042
OBS 01 AT 1622Z OBS 05 AT 1641Z
OBS 01 SFC WND 36025
01210 10680 10989 12323 19036
02211 20677 20994 22222 15050
03211 30675 30998 32222 16053
04211 40673 40000 42323 16044
05211 50670 50002 52323 16039
06211 60668 60004 62323 16040
07211 70665 70005 72121 17047
MF211 M0677 MF050
OBS 01 AT 1721Z OBS 07 AT 1805Z
OBS 07 SFC WND 17040
REMARKS 210 683 977;

ZCZC WBC981
URNT14 KMIA 180655
AF866 0512 KATE OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01215 10691 12488 116// 15054
02216 20694 22480 215// 16070
03216 30697 32467 31413 16052
04216 40700 42454 41615 16061
05215 50702 52436 51715 16060
06215 60706 62404 61717 16071
07215 70709 72369 71616 18063
MF215 M0710 MF080
OBS 01 AT 0508Z OBS 07 AT 0537Z
OBS 01 SFC WND /////
01215 10720 12278 11717 02078
02215 20722 22366 21616 01057
03215 30726 32409 31615 01052
04215 40728 42429 41716 01041
05215 50730 52449 51815 02033
06215 60733 62451 61715 02035
07215 70735 72460 71615 03038
MF215 M0719 MF080
OBS 01 AT 0611Z OBS 07 AT 0636Z
OBS 07 SFC WND /////
REMARKS 216 716 203;

ZCZC WBC009
URNT14 KMIA 180846
AF866 0512 KATE OB 13 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01206 10714 12429 11615 22039
02209 20715 22405 21716 21045
03210 30716 32381 31616 21061
04212 40717 42323 41716 22054
05215 50718 52264 51918 22064
06216 60719 62204 61919 18010
MF215 M0718 MF064
OBS 01 AT 0719Z OBS 06 AT 0820Z
OBS 01 SFC WND /////
01218 10721 12213 11919 09035
02219 20721 22253 21818 10058
03224 30722 32390 31615 09072
04226 40723 42420 41715 09059
05228 50722 52442 51715 10059
06231 60722 62463 61715 11066
MF222 M0721 MF087
OBS 01 AT 0755Z OBS 06 AT 0820Z
OBS 06 SFC WND /////
REMARKS 216 721 200;

ZCZC WBC536
URNT14 KMIA 181018
AF866 0512 KATE OB 16 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01232 10722 13103 10805 08056
02229 20721 23093 20805 08060
03226 30721 33078 30805 08060
04225 40721 43053 40807 06056
05223 50721 53981 50707 08031
06221 60722 63930 61110 11085
07219 70723 73878 71110 11058
MF221 M0722 MF085
OBS 01 AT 0826Z OBS 07 AT 0849Z
OBS 01 SFC WND /////
01217 10719 13982 10807 28008
02217 20717 23003 20808 16062
03216 30714 33054 30707 19058
04216 40712 43072 40707 18035
05215 50709 53090 50806 18043
06214 60706 63111 60807 20030
07214 70705 73148 70707 19028
MF217 M0717 MF062
OBS 01 AT 0908Z OBS 07 AT 0935Z
OBS 07 SFC WND /////
REMARKS 216 723 856;
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ZCZC WNC545
URNT14 KNIA 181258
AF968 0612 KATE OB 05 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01219 10744 12439 11813 02053
02218 20739 22418 21715 02063
03218 30738 32393 31715 02060
04218 40736 42339 41815 02080
05216 50733 52255 51817 36093
MF216 M0733 MF093
OBS 01 AT 1046Z OBS 05 AT 1106Z
OBS 01 SFC WND /////
01216 10726 13019 11111 19053
02218 20724 23051 21110 18062
03218 30721 33073 31009 18042
04217 40718 43089 41206 15052
05216 50716 53109 51107 17044
06215 60712 69/// 61108 17029
07217 70711 73130 71108 18041
MF218 M0724 MF062
OBS 01 AT 1200Z OBS 07 AT 1230Z
OBS 07 SFC WND 15040
REMARKS 216 730 189
OUTBOUND LEG 700MB:
ZCZC WNC561
URNT12 KNIA 181549
AF968 0612 KATE OB 09 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01234 10729 13126 11107 11038
02230 20732 23112 21106 10058
03226 30734 33070 31009 11064
04224 40735 43037 41208 11069
05223 50736 53978 51010 11094
MF221 M0738 MF101
OBS 01 AT 1304Z OBS 06 AT 1331Z
OBS 01 SFC WND 18050
01213 10737 13988 10908 23052
02211 20737 23024 20907 20038
03208 30736 33054 31006 23040
04208 40733 43079 40906 21033
05208 50732 53091 50905 22045
06210 60730 63088 60807 21053
07212 70729 73098 70907 21058
MF212 M0729 MF058
OBS 01 AT 1417Z OBS 07 AT 1442Z
OBS 07 SFC WND /////
REMARKS 216 737 870:

ZCZC WNC565
URNT14 KNIA 181652
AF968 0612 KATE OB 12 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01216 10726 13101 10807 19053
02217 20728 23073 20808 16061
03216 30732 33970 30807 18059
04216 40736 43046 40906 18060
05218 50737 53000 50906 16083
06218 60738 63918 61009 16093
MF218 M0738 MF093
OBS 01 AT 1450Z OBS 06 AT 1510Z
OBS 01 SFC WND /////
01220 10750 13978 11209 05062
02222 20752 23043 21006 04061
03224 30754 33051 31006 07063
04225 40754 43066 40807 09057
05227 50754 53084 50904 08059
MF224 M0754 MF063
OBS 01 AT 1600Z OBS 05 AT 1617Z
OBS 05 SFC WND 05060
REMARKS 216 742 975
MAX SFC WND 22.0N 75.0W 030/100KT:

ZCZC WNC577
URNT14 KNIA 181905
AF964 0712 KATE OB 06 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01217 10725 12494 11308 15038
02218 20728 22486 21313 15045
03218 30730 32476 31414 16047
04217 40732 42375 41515 16044
05217 50735 52448 51515 15056
06216 60735 62445 61515 17062
07215 70741 72417 71616 17062
08216 80741 82377 81616 19060
09217 90747 92323 92016 19074
10218 00748 02236 02016 20081
MF218 M0748 MF081
OBS 01 AT 1738Z OBS 10 AT 1817Z
OBS 01 SFC WND 15030
01218 10756 12195 11919 35018
02218 20757 22278 21717 35057
03217 30759 32345 31616 35054
MF218 M0757 MF057
OBS 01 AT 1836Z OBS 03 AT 1843Z
OBS 03 SFC WND 36055
REMARKS 218 751 972:
ZCZC WNC592
URNT14 KNIA 182126 COR
AF964 0712 KATE OB 09 COR KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01236 10757 12472 11616 10064
02233 20757 22459 21615 09065
03231 30757 32444 31717 09069
04229 40757 42423 41717 09068
05226 50757 52384 51816 09071
06224 60758 62295 61816 09091
07221 70758 72179 71919 07036
MF223 M0758 MF097
OBS 01 AT 1948Z OBS 07 AT 2013Z
OBS 01 SFC WND 09055
01219 10754 12291 11717 17095
02220 20751 22389 21615 18059
03220 30748 32426 31616 17050
04219 40746 42444 41515 17050
05219 50743 52459 51414 15056
06219 60741 62466 61414 16055
07219 70738 72487 71413 18054
MF219 M0754 MF095
OBS 01 AT 2041Z OBS 07 AT 2108Z
OBS 07 SFC WND 15045
REMARKS 219 756 971 MAX FL WND INBOUND 084 DEG/97 KTS 25NM
N OF EYE. OUTBOUND LEG E DUE TO NO FLY RESTRICTIONS:
ZCZC WNC599
URNT14 KNIA 182328
AF964 0712 KATE OB 12 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01238 10763 12465 11616 09064
02235 20763 22462 21616 09067
03232 30762 32447 31616 09064
04229 40762 42422 41616 10074
05227 50762 52397 51616 09076
06226 60762 62365 61717 09080
07225 70763 72319 71717 10100
MF225 M0763 MF100
OBS 01 AT 2150Z OBS 07 AT 2210Z
OBS 01 SFC WND 11045
01222 10762 12329 11717 15100
02222 20758 22372 21616 16052
03221 30756 32411 31616 16062
04221 40753 42439 41616 17053
05221 50751 52454 51515 16044
06222 60748 62473 61515 15052
07222 70745 72475 71515 14047
MF222 M0762 MF100
OBS 01 AT 2228Z OBS 07 AT 2259Z
OBS 07 SFC WND /////
REMARKS 221 764 970:
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ZCZC WBC605
URNT14 KMIA 190037
AF964 0712 KATE OB 14 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01222 10745 12475 11515 14047
02223 20749 22470 21515 15051
 03223 30752 32450 31515 16049
 04222 40753 42442 41515 17058
05222 50756 52420 51616 16063
06222 60759 62399 61616 15070
07222 70761 72366 71616 15071
MF222 M0761 MF071
OBS 01 AT 2301Z OBS 07 AT 2322Z
OBS 01 SFC WND /////
01224 10769 12372 11717 06106
02227 20772 22405 21717 09065
 03229 30772 32441 31717 08069
04232 40773 42453 41717 08068
 05234 50775 52458 51616 07061
06234 60779 62469 61515 07045
07235 70780 72477 71515 07053
MF224 M0769 MF106
OBS 01 AT 2335Z OBS 07 AT 0007Z
 OBS 07 SFC WND /////
REMARKS 223 768 124;

ZCZC WBC627
URNT14 KMIA 190446
AF967 0812 KATE OB 07 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
 01231 10752 12515 11408 11039
 02231 20755 22517 21614 15051
 03230 30757 32488 31513 15046
 04229 40760 42491 41614 15060
05227 50763 52483 51514 14052
 06226 60765 62463 61514 15057
 07225 70769 72446 71514 14059
MF229 M0760 MF060
OBS 01 AT 0250Z OBS 07 AT 0318Z
OBS 01 SFC WND /////
01232 10779 12449 11615 10059
 02234 20779 22465 21514 11058
 03237 30778 32477 31613 11050
 04239 40778 42486 41513 11052
 05242 50778 52492 51612 11060
 06244 60778 6//// 61611 10050
 07247 70778 7//// 71412 11050
MF242 M0778 MF060
OBS 01 AT 0351Z OBS 07 AT 0420Z
OBS 07 SFC WND /////
REMARKS 223 778 128;

ZCZC WBC633
URNT14 KMIA 190637
AF967 0812 KATE OB 10 KMIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01237 10782 12471 11914 12052
 02238 20781 22480 21614 12046
03240 30780 32492 31514 12042
 04243 40780 42495 41613 12042
05245 50781 5//// 51613 13049
 06248 60781 6//// 61513 12059
 07250 70781 7//// 71513 12063
 MF250 M0781 MF063
OBS 01 AT 0556Z OBS 07 AT 0622Z
 OBS 08 SFC WND /////
REMARKS 226 780 130
OUTBD LEG ADJUSTED TO NO FLY LINE;

ZCZC WBC716
URNT14 KMIA 192237 COR
AF969 1012 KATE OB 05 COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01238 10826 12322 11616 11100
 02240 20826 22374 21717 11073
03243 30827 32420 31717 11074
 04247 40828 42435 41616 09053
05249 50827 52462 51616 10048
 06251 60827 62473 61616 10051
 07253 70827 72481 71616 10068
MF238 M0826 MF100
OBS 01 AT 2045Z OBS 07 AT 2214Z
OBS 07 SFC WND 09050
REMARKS 236 826 213;

ZCZC WBC721
URNT14 KMIA 200046
AF969 1012 KATE OB 08 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01237 10846 12461 11616 04034
02236 20843 22456 21616 01032
03237 30841 32438 31616 01032
04237 40840 42430 41616 02036
05238 50838 52406 51817 01043
06238 60836 62364 61918 01050
07238 60834 62270 61717 34060
MF238 M0834 MF060
OBS 01 AT 2252Z OBS 07 AT 2325Z
OBS 01 SFC WND /////
01238 10829 12218 11818 16057
02238 20825 22369 21717 16066
03238 30824 32418 31616 17056
04240 40822 42451 41616 17054
05240 50820 52458 51616 16051
06240 60817 62478 61616 16054
07240 70815 72479 71616 16046
MF238 M0828 MF100
OBS 01 AT 2333Z OBS 07 AT 0002Z
OBS 07 SFC WND /////
REMARKS 239 832 191;

ZCZC WBC728
URNT14 KMIA 200228
AF969 1012 KATE OB 11 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01258 10837 12494 11615 09067
 02254 20840 22478 21716 08061
03254 30840 32463 31717 09061
04249 40840 42454 41817 08061
 05246 50839 52417 51616 07073
06244 60839 62368 61717 06069
 MF243 M0838 MF100
OBS 01 AT 0041Z OBS 06 AT 0108Z
OBS 01 SFC WND /////
01237 10837 12354 11717 27045
02235 20836 22375 21717 27045
 MF237 M0837 MF045
OBS 01 AT 0135Z OBS 02 AT 0137Z
OBS 02 SFC WND /////
REMARKS 240 837 179;

ZCZC WBC/32
URNT14 KMIA 200628
AF969 1012 KATE OB 05 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
 01245 10865 12482 11615 03034
02245 20861 22470 21615 04040
 03243 30859 32469 31615 04039
04242 40856 42445 41616 03047
05243 50853 52417 51716 01039
 06243 60851 62392 61717 35035
07244 70847 72326 71916 35045
 MF244 M0846 MF055
OBS 01 AT 0529Z OBS 07 AT 0600Z
OBS 01 SFC WND /////
01247 10843 12246 11818 17097
 02247 20839 22344 21818 17079
 03246 30837 32406 31716 17070
 04246 40834 42445 41716 16062
05246 50831 52457 51615 17055
 06246 60829 62472 61615 17042
07246 70825 72478 71615 16049
MF247 M0840 MF100
OBS 01 AT 0622Z OBS 07 AT 0656Z
OBS 07 SFC WND /////
REMARKS 246 845 134
FL WND 360/55 KTS, 08 NM WEST OF EYE
FL WND 170/100 KTS, 20 NM EAST OF EYE;

ZCZC WBC753
URNT14 KMIA 200728 COR
AF866 1112 KATE OB 05 COR KMIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
01245 10865 12482 11615 03034
02245 20861 22470 21615 04040
 03243 30859 32469 31615 04039
 04242 40856 42445 41616 03047
 05243 50853 52417 51716 01039
06243 60851 62392 61717 35035
 07244 70847 72326 71916 35045
 MF244 M0846 MF055
OBS 01 AT 0529Z OBS 07 AT 0600Z
 OBS 01 SFC WND /////
01247 10843 12246 11818 17097
 02247 20839 22344 21818 17079
03246 30837 32406 31716 17070
 04246 40834 42445 41716 16062
 05246 50831 52457 51615 17055
06246 60829 62472 61615 17042
 07246 70825 72478 71615 16049
MF247 M0840 MF100
OBS 01 AT 0622Z OBS 07 AT 0656Z
OBS 07 SFC WND /////
REMARKS 246 845 134
FL WND 360/55 KTS AT 08 NM WEST OF EYE
FL WND 170/100 KTS AT 20 NM EAST OF EYE;

ZCZC WBC758
URNT14 KMIA 200919
AF866 1112 KATE OB 08 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
 01265 10850 12495 11615 08049
02263 20850 22482 21615 10048
 03261 30850 32467 31615 10057
04258 40850 42446 41615 10056
 05255 50850 52415 51616 09065
06253 60850 62376 61616 09071
 07250 70851 72288 71717 09075
MF250 M0851 MF075
OBS 01 AT 0736Z OBS 07 AT 0808Z
OBS 01 SFC WND /////
01246 10850 12198 11919 27071
02243 20850 22354 21817 25061
03240 30850 32406 31717 26039
 04237 40850 42430 41716 24042
05234 50850 52449 51716 24034
 06233 60851 62455 61615 24030
 07230 70851 72466 71615 24029
 MF246 M0850 MF071
OBS 01 AT 0825Z OBS 07 AT 0856Z
OBS 07 SFC WND /////
REMARKS 247 850 090;
ZCZC WBC793
URNT14 KMIA 201052 COR
AF866 1112 KATE OB 11 COR KMIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
01243 10838 12441 11615 17059
02250 20840 22431 21616 17057
03250 30842 32420 31716 17050
04249 40844 42365 41816 17075
05250 50846 52321 51817 15079
06250 60848 62269 61819 16076
 07250 70849 72195 71819 15085
MF250 M0849 MF085
 OBS 01 AT 0933Z OBS 07 AT 0950Z
OBS 01 SFC WND /////
 01248 10852 12165 12020 33080
02249 20855 22326 21819 01056
03249 30858 32394 31817 02043
 04249 40861 42420 41716 02043
 05249 50863 52435 51716 01033
06249 60867 62451 61615 01039
07249 70869 72464 71515 02040
 MF248 M0852 MF090
OBS 01 AT 1007Z OBS 07 AT 1042Z
OBS 07 SFC WND /////
REMARKS 249 850 090
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URNT14 KMIA 201237
AF966 1112 KATE OB 14 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01235 10850 12463 11516 25032
02237 20850 22457 21616 23038
03239 30849 32445 31616 23036
04241 40849 42429 41717 23050
05244 50850 52396 51717 22051
06247 60851 62340 61717 22063
07249 70851 72181 71917 22091
MF249 M0851 MF091
OBS 01 AT 1116Z OBS 07 AT 1142Z
OBS 01 SFC WND /////
01253 10853 12231 11818 09101
02256 20854 22347 21817 09089
03258 30853 32406 31717 10072
04261 40852 42430 41616 11053
05263 50852 52460 51616 11064
06266 60852 62476 61616 10052
07269 70852 72488 71414 08052
MF253 M0853 MF101
OBS 01 AT 1152Z OBS 07 AT 1221Z
OBS 07 SFC WND /////
REMARKS 252 852 056
LAST REPORT OBS 0114 TO KMIA
LTG KDIS AT 20/1550Z:

ZCZC WBC796
URNT14 KMIA 201623
AF967 1212 KATE OB 05 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01273 10855 12497 11413 06045
02270 20855 22475 21313 07051
03267 30855 32472 31513 10049
04265 40855 42454 41614 11051
05263 50855 52426 51615 10060
06260 60855 62373 61616 10076
07256 70857 72291 71616 10109
MF256 M0857 MF109
OBS 01 AT 1432Z OBS 07 AT 1505Z
OBS 01 SFC WND /////
01253 10858 12097 11919 25075
02251 20858 22353 21816 25044
03248 30858 32416 31616 25041
04246 40858 42438 41714 24030
05243 50858 52451 51715 23022
06241 60858 62467 61615 25028
07238 70857 72477 71618 24019
MF253 M0858 MF075
OBS 01 AT 1533Z OBS 07 AT 1602Z
OBS 07 SFC WND 26030
REMARKS 255 858 956:

ZCZC WBC[illegible]
URNT14 KMIA 201845
AF967 1212 KATE OB 09 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01260 10842 12474 11614 15052
02260 20844 22459 21614 15052
03260 30847 39/// 3//// 15062
04260 40850 42425 41615 15065
05259 50852 52382 51616 15068
06259 60855 62257 61616 15091
07257 70858 72095 71818 14107
MF257 M0858 MF107
OBS 01 AT 1643Z OBS 07 AT 1707Z
OBS 01 SFC WND 12050
01258 10863 12232 11717 36073
02258 20866 22353 21616 02060
03258 30868 39/// 31514 02037
04258 40871 42395 41714 01044
05259 50874 52407 51713 02035
06259 60876 62456 61513 01047
07259 70879 72468 71613 01046
MF258 M0863 MF073
OBS 01 AT 1749Z OBS 07 AT 1814Z
OBS 07 SFC WND 35035
REMARKS 258 860 020:

ZCZC WBC806
URNT14 KMIA 202103
AF967 1212 KATE OB 12 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01242 10863 12452 11615 25029
02245 20863 22444 21614 24023
03247 30863 32437 31614 26033
04250 40862 42419 41614 25033
05252 50862 52401 51614 24037
06255 60863 62368 61715 25041
07257 70863 72322 71817 26055
08260 80862 82164 81817 27092
MF260 M0862 MF092
OBS 01 AT 1920Z OBS 08 AT 1950Z
OBS 01 SFC WND 24025
01265 10862 12217 11515 10102
02267 20862 22286 21717 10087
03269 30863 32362 31715 10065
04271 40862 42399 41616 10050
05274 50862 52434 51515 10038
06276 60862 62436 61515 10047
07279 70863 72448 71414 09056
MF265 M0862 MF102
OBS 01 AT 2016Z OBS 07 AT 2042Z
OBS 07 SFC WND /////
REMARKS 262 862 989:
ZCZC WBC897
URNT14 KMIA 210229
AF964 1312 KATE OB 08 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01286 10865 12452 11515 08055
02283 20865 22439 21515 08068
03280 30865 32426 31515 08057
04278 40865 42412 41717 08057
05275 50866 52359 51616 08077
06273 60865 62292 61717 08088
07271 70866 7//// 7//// 08095
MF271 M0866 MF095
OBS 01 AT 0059Z OBS 07 AT 0121Z
OBS 01 SFC WND /////
01268 10863 12153 11918 26080
02265 20864 22320 21918 26045
03263 30864 32373 31919 26039
04261 40863 42405 41717 26040
05258 50863 52437 51717 29040
06255 60864 62449 61616 28038
07253 70864 72461 71616 29043
MF268 M0863 MF090
OBS 01 AT 0137Z OBS 07 AT 0201Z
OBS 07 SFC WND /////
REMARKS 270 864 037
WALL CLOUD WEAKENING SOUTHW

ZCZC WBC824
URNT14 KMIA 210400
AF964 1312 KATE OB 11 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01274 10846 12459 11717 16057
02275 20849 22443 21717 14058
03274 30851 32435 31717 15064
04273 40855 42401 41616 14068
05273 50857 52357 51717 15073
06272 60861 62267 61717 14096
MF272 M0861 MF096
OBS 01 AT 0238Z OBS 06 AT 0301Z
OBS 01 SFC WND /////
01272 10867 12160 11818 02053
02272 20870 22342 21717 01080
03272 30874 32393 31616 01070
04272 40876 42417 41616 01070
05271 50879 52446 51717 02052
06271 60881 62449 61615 02052
07271 70884 72464 71615 02050
MF272 M0870 MF080
OBS 01 AT 0316Z OBS 07 AT 0341Z
OBS 07 SFC WND /////
REMARKS 272 865 051:

ZCZC WBC830
URNT14 KMIA 210555
AF964 1312 KATE OB 14 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01254 10865 12466 11615 27049
02256 20865 22455 21715 27042
03259 30864 32423 31515 26046
04261 40864 42385 41616 26051
05264 50864 52353 51818 25050
06266 60863 62301 62018 24057
07270 70864 72134 72020 22070
MF270 M0864 MF070
OBS 01 AT 0415Z OBS 07 AT 0442Z
OBS 01 SFC WND /////
01275 10865 12198 11717 11083
02277 20865 22308 21819 10072
03280 30865 32369 31717 10053
04284 40864 42409 41616 10057
05286 50864 52430 51616 10057
06288 60864 62436 61616 10063
07290 70864 72446 71414 10063
MF275 M0865 MF083
OBS 01 AT 0503Z OBS 07 AT 0527Z
OBS 07 SFC WND /////
REMARKS 272 866 071
STRONG RAINBAND 75 NM TO 105 NM OUTBND:

ZCZC WBC842
URNT14 KMIA 210946
AF968 1412 KATE OB 05 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01284 10883 13081 11002 02053
02282 20879 23069 21003 36029
03281 30878 33042 31005 01048
04279 40875 43008 41006 01050
05278 50872 53956 51106 35057
06278 60870 63898 61306 34073
07278 70867 73781 71409 33058
MF278 M0870 MF073
OBS 01 AT 0754Z OBS 07 AT 0819Z
OBS 01 SFC WND /////
01279 10863 13906 11310 18046
02280 20860 23931 21008 19074
03280 30858 33997 31007 18048
04281 40855 43036 40909 17043
05281 50852 53062 50906 17062
06281 60849 63081 61003 19056
07281 70846 73097 71003 20049
MF280 M0860 MF074
OBS 01 AT 0845Z OBS 07 AT 0909Z
OBS 07 SFC WND /////
REMARKS 279 866 758
LT TURB/OCNL LTG OUTBD TO EAST:

ZCZC WBC850
URNT14 KMIA 211117
AF968 1412 KATE OB 08 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01299 10866 13103 10903 10035
02296 20866 23090 20904 08045
03295 30866 33076 30804 09049
04292 40866 43047 40806 09067
05289 50867 53021 51007 09064
06287 60868 63975 61007 07061
07285 70867 73911 71107 07067
08282 80867 83763 81410 04031
MF285 M0867 MF067
OBS 01 AT 0940Z OBS 08 AT 1008Z
OBS 01 SFC WND /////
01278 10866 13870 11508 25050
02276 20866 23964 21206 27046
03273 30866 33001 31105 27046
04271 40865 43032 41105 27066
05268 50866 53066 51005 26041
06266 60866 63087 61104 26034
07264 70866 73090 70904 27035
MF271 M0865 MF066
OBS 01 AT 1033Z OBS 07 AT 1100Z
OBS 07 SFC WND /////
REMARKS 281 866 755
LT TURBC OUTBOUND 30NM THRU 60NM:
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ZCZC WBC857
URNT14 KMIA 211332
AF968 1412 KATE OB 12 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01293 10846 13098 11004 17045
02292 20848 23081 20904 17052
03283 30850 33051 30805 16057
04283 40854 43027 40806 17075
05283 50857 53989 50907 18061
06293 60860 63963 61108 18061
07283 70862 73855 71209 17069
MF283 M0854 MF075
OBS 01 AT 1137Z OBS 07 AT 1204Z
OBS 01 SFC WND 17045
01293 10865 13829 11409 30033
02283 20868 23905 21209 35057
03283 30871 33971 31208 34037
04283 40874 43014 40905 34047
05283 50877 53047 51104 35051
06283 60880 63071 61003 35032
07282 70883 73084 70903 34028
MF283 M0877 MF051
OBS 01 AT 1247Z OBS 07 AT 1314Z
OBS 07 SFC WND 31030
REMARKS 284 865 758;

ZCZC WBC864
URNT14 KMIA 211552
AF968 1412 KATE OB 16 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01267 10864 13098 11002 26044
02269 20864 23084 21003 26050
03272 30864 33071 31004 25055
04275 40864 43058 41005 26060
05277 50864 53010 51104 29075
06290 60863 63946 61206 27073
07282 70863 73893 71207 26082
MF282 M0863 MF082
OBS 01 AT 1346Z OBS 07 AT 1411Z
OBS 01 SFC WND /////
01289 10863 13870 11210 09056
02292 20864 23977 21008 12046
03295 30864 33012 31008 12045
04298 40865 43051 40707 09056
05300 50864 53072 50806 10051
06302 60864 63091 60805 10033
07304 70864 73105 70805 12019
MF283 M0865 MF069
OBS 01 AT 1456Z OBS 07 AT 1521Z
OBS 07 SFC WND 06045
REMARKS 286 863 778
LAST REPORT OBS 0116 TO KMIA
ETA KBYS AT 21/1800Z;

ZCZC WBC875
URNT14 KMIA 212002
AF866 1512 KATE OB 04 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01288 10879 12446 11614 36035
02288 20876 22441 21614 35036
03288 30873 32404 31616 35048
04289 40871 42391 41716 35046
05289 50869 52358 51815 35052
06290 60866 62301 61916 34055
07291 70863 72205 72315 31071
MF291 M0863 MF071
OBS 01 AT 1802Z OBS 07 AT 1826Z
OBS 01 SFC WND 02040
01293 10857 12206 11717 19050
02294 20854 22304 21717 17085
03294 30852 32347 31715 16076
04293 40849 42385 41714 17077
05293 50846 52429 51616 17074
06293 60843 62450 61616 18053
07293 70840 72459 71613 18061
MF294 M0854 MF085
OBS 01 AT 1841Z OBS 07 AT 1901Z
OBS 07 SFC WND 15045
REMARKS 292 862 148;
ZCZC WBC881
URNT14 KMIA 212124
AF866 1512 KATE OB 07 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01299 10860 12272 11616 09075
02297 20860 22212 21917 07052
MF299 M0860 MF075
OBS 01 AT 1950Z OBS 02 AT 1954Z
OBS 01 SFC WND /////
01292 10858 12211 12017 25062
02290 20858 22300 21716 25070
03288 30858 32361 31616 26059
04285 40858 42410 41615 27048
05283 50858 52431 51615 27046
06280 60858 62449 61616 26038
07278 70858 72459 71515 25041
MF294 M0858 MF070
OBS 01 AT 2016Z OBS 07 AT 2050Z
OBS 07 SFC WND /////
REMARKS 295 858 139
INBOUND AND OUTBOUND SFC OBSCURED BY SC;

ZCZC WBC889
URNT14 KMIA 220010
AF866 1512 KATE OB 10 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01298 10875 12446 11715 01027
02298 20873 22438 21714 36027
03297 30871 32432 31713 36037
04297 40868 42417 41714 36044
05297 50866 52402 51715 35052
06297 60863 62371 51716 34042
07297 70859 72316 71716 35045
08298 80857 82277 81717 30045
MF297 M0866 MF052
OBS 01 AT 2223Z OBS 08 AT 2252Z
OBS 01 SFC WND 36045
01300 10858 12259 11916 33044
02300 20861 22337 21716 02052
03300 30863 32377 31715 01051
04300 40866 42407 41714 01046
05300 50868 52429 51714 02038
06300 60872 62447 61712 02032
07300 70875 72456 71714 01031
MF300 M0861 MF052
OBS 01 AT 2313Z OBS 07 AT 2341Z
OBS 07 SFC WND /////
REMARKS 301 855 149
LAST REPORT OBS 0110 TO KMIA. ETA KBIX 22/0110Z;

URNT14 KMIA 230151
AF967 1812 KATE OB 03 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01340 10771 12427 11609 36045
02340 20768 22421 21411 02020
03341 30766 32415 31313 30014
04343 40765 42418 41312 31007
MF340 M0771 MF045
OBS 01 AT 2358Z OBS 04 AT 0012Z
OBS 01 SFC WND /////
01347 10758 12421 11312 35011
02346 20755 22434 21412 24012
03347 30752 32434 31413 24012
04347 40749 42448 41313 15035
05347 50746 52455 51412 16040
06348 60743 62464 61311 17018
07348 70740 72477 71205 17022
MF347 M0746 MF040
OBS 01 AT 0032Z OBS 07 AT 0101Z
OBS 07 SFC WND /////
REMARKS 347 762 415;
ZCZC WBC652
URNT14 KMIA 230337
AF967 1812 KATE OB 06 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01362 10753 12474 11109 14013
02359 20754 22471 21209 11015
03356 30755 32464 31211 11020
04355 40756 42458 41310 99005
05352 50757 52451 51410 03018
06347 60754 62434 61312 34010
07345 70753 72430 71312 03017
MF356 M0755 MF020
OBS 01 AT 0137Z OBS 07 AT 0155Z
OBS 01 SFC WND /////
01342 10749 12430 11311 27017
02339 20749 22430 21211 24015
03337 30749 32433 31212 24020
04334 40749 42436 41412 24022
05332 50749 52439 51312 25037
06329 60750 62445 61312 24038
07327 70750 72447 71512 24043
MF327 M0750 MF043
OBS 01 AT 0238Z OBS 07 AT 0306Z
OBS 07 SFC WND /////
REMARKS 343 750 427;
ZCZC WBC972
URNT14 KMIA 230610
AF967 1812 KATE OB 09 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01344 10732 12459 11211 13030
02344 20734 22461 21212 14035
03344 30737 32448 31413 15021
04343 40740 42439 41313 13014
MF344 M0734 MF035
OBS 01 AT 0408Z OBS 04 AT 0419Z
OBS 01 SFC WND /////
01342 10746 12436 11312 34014
02341 20749 22436 21312 36017
03341 30751 32439 31411 02020
04341 40754 42448 41311 02035
05341 50757 52457 51410 01046
06340 60760 62469 61310 36033
07341 70763 72478 71210 36030
MF341 M0757 MF046
OBS 01 AT 0504Z OBS 07 AT 0532Z
OBS 07 SFC WND /////
REMARKS 342 743 433
LAST REPORT OBS 0109 TO KMIA. ETA KBIX 23/0815Z;
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Table 8. Tropical cyclone Reconnaissance Summary for 1985.

1. Requirements Levied	Atlantic	Eastern Pacific	Central Pacific
TDs, Storms, Hurricanes	314	05	45
Invests	83	0	02
Total	397	05	47
cancellations	109	02	16
2. Requirements Accomplished			
53rd WRS (Cyclone/Invest)	42/08	3/0	15/0
815th WRS	125/23	0/0	14/03
OAO	79/0	0/0	0/0
Total	246/31	3/0	29/03
3. Missions Flown			
54th WRS	0	0	09
53th WRS	27	02	10
815th WRS	82	01	08
OAO	19	0	0
Total	128	03	27
4. Flying Time			
54th WRS	0	0	120.7
53rd WRS	324.3	20.8	138.2
815th WRS	943.4	11.5	146.0
OAO	294.0	0	0
Total	1561.7	32.2	404.9

5. Observations

Horizontal.....2438 Vertical.....99

Table 9 Probability forecasts for 1985 landfalling U.S. tropical cyclones. Chances of the center of Bob passing within 65 miles of listed locations by date and time (CDT) indicated (probabilities in percent).

Advisory date/time	22/1700	22/2300	23/0500	23/1100	23/1700	23/2300	24/0500
Probability thru	25/1300	25/1900	26/0100	26/0700	26/1100	26/1900	27/0100
Bermuda	X	X	X	2	2	2	X
Marathon FL	13	7	19	19	X	X	X
Miami FL	13	10	25	35	82	5	X
W Palm Beach FL	14	12	26	39	95	41	X
Ft Pierce FL	15	15	26	36	53	88	65
Cocoa Beach FL	15	17	23	29	30	53	94
Daytona Beach FL	14	17	18	20	18	20	60
Jacksonville FL	12	13	14	14	13	13	32
Savannah GA	9	6	11	11	12	13	29
Charleston SC	7	3	10	11	12	15	27
Myrtle Beach SC	6	2	9	10	11	15	21
Wilmington NC	5	X	8	9	11	15	17
Morehead City NC	4	X	8	8	11	14	14
Cape Hatteras NC	3	X	7	7	10	13	11
Norfolk VA	2	X	X	5	7	11	9
Ocean City MD	X	X	X	4	5	9	X
Atlantic City NJ	X	X	X	2	4	8	X
New York City NY	X	X	X	2	3	6	X
Montauk Point NY	X	X	X	X	2	5	X
Providence RI	X	X	X	X	2	5	X
Nantucket MA	X	X	X	X	2	5	X
Hyannis MA	X	X	X	X	2	5	X
Boston MA	X	X	X	X	X	4	X
Portland ME	X	X	X	X	X	3	X
Bar Harbor ME	X	X	X	X	X	2	X
Eastport ME	X	X	X	X	X	2	X
Yarmouth NS	X	X	X	X	X	2	X
Key West FL	15	8	18	X	7	X	X
Marco Island FL	21	25	65	X	X	4	X
Ft Myers FL	23	39	71	X	X	5	X
Venice FL	27	64	59	X	X	5	X
Tampa FL	20	35	27	X	14	7	5
Cedar Key FL	16	23	16	X	11	7	7
St Marks FL	13	14	11	X	8	6	6
Apalachicola FL	13	15	11	X	7	5	4
Panama City FL	12	12	9	X	6	4	3
Pensacola FL	9	5	7	X	4	3	2
Mobile AL	7	3	5	X	3	3	X
Gulfport MS	6	2	4	X	3	2	X
Buras LA	7	2	4	X	2	2	X
New Orleans LA	5	X	X	X	2	X	X
New Iberia LA	4	X	X	X	X	X	X
Port Arthur TX	2	X	X	X	X	X	X
Galveston TX	2	X	X	X	X	X	X
Freeport TX	2	X	X	X	X	X	X

Table 9 (cont'd)
Chances of the center of Bob passing within 65 miles of listed locations by date and time (CDT) indicated (probabilities in percent).

Advisory date/time	24/1100	24/1700	24/2300	25/0500
Probability thru	27/0700	27/1300	27/1900	28/0100
Savannah GA	50	57	74	X
Charleston SC	51	60	92	X
Myrtle Beach SC	32	34	46	X
Wilmington NC	21	20	24	X
Morehead City NC	15	13	15	X
Cape Hatteras NC	12	11	13	8
Norfolk VA	14	15	X	17
Ocean City MD	12	13	X	16
Atlantic City NJ	11	13	X	16
New York City NY	10	12	X	15
Montauk Point NY	9	10	X	13
Providence RI	8	10	X	13
Nantucket MA	7	9	X	11
Hyannis MA	8	9	X	11
Boston MA	8	9	X	12
Portland ME	7	8	X	12
Bar Harbor ME	6	7	X	10
Eastport ME	5	7	X	9
St John NB	4	6	X	X
Moncton NB	3	5	X	X
Yarmouth NS	5	7	X	X
Halifax NS	3	5	X	X
Sable Island NS	2	3	X	X
Sydney NS	2	3	X	X
Eddy Point NS	2	4	X	X
Pix Basques NFLD	X	2	X	X
Burgeo NFLD	X	2	X	X
Ile St Pierre	X	2	X	X

Table 9 (cont'd)
Chances of the center of Danny passing within 65 miles of the listed locations by date and time (CDT) indicated (probabilities in percent).

ADVISORY DATE/TIME	13/5PM	13/11PM	14/5AM	14/11AM	14/5PM	14/11PM	15/5AM
PROBABILITY THRU	16/1PM	16/7PM	17/1AM	17/7AM	17/1PM	17/7PM	18/1AM
Cedar Key, FL	3	X	X	X	X	X	X
St. Marks, FL	7	X	X	X	X	X	X
Apalachicola, FL	9	3	X	X	X	X	X
Panama City, FL	11	5	3	X	X	X	X
Pensacola, FL	14	13	8	2	1	2	X
Mobile, AL	15	18	12	4	4	7	3
Gulfport, MS	16	22	16	7	7	13	4
Buras, LA	19	30	20	10	9	21	2
New Orleans, LA	16	27	22	13	16	32	10
New Iberia, LA	13	23	25	23	35	51	67
Port Arthur, TX	8	13	19	26	36	28	57
Galveston, TX	6	9	16	26	29	14	20
Freeport, TX	5	7	13	23	20	8	5
Port O Conner, TX	3	4	7	15	9	4	X
Corpus Christi, TX	X	2	4	9	4	2	X
Brownsville, TX	X	X	2	3	X	X	X
Gulf 29N 85W	9	2	X	X	X	X	X
Gulf 29N 87W	17	12	5	X	X	X	X
Gulf 28N 89W	26	41	21	5	2	5	X
Gulf 28N 91W	20	39	45	36	66	81	81
Gulf 28N 93W	11	17	31	45	61	47	76
Gulf 28N 95W	5	6	13	25	18	5	2
Gulf 27N 96W	3	3	6	12	4	X	X
Gulf 25N 96W	2	X	2	3	X	X	X

X MEANS LESS THAN 2 PERCENT

Table 9 (cont'd)
Chances of the center of elena passing within 65 miles of the listed locations by date and time (CDT) indicated (probabilities in percent).

ADVISORY DATE/TIME	28/11PM	28/2PM	28/5PM	29/11PM	29/5AM	29/8AM	29/11AM	29/5PM
PROBABILITY THRU	31/7AM	31/7AM	31/2PM	31/7PM	01/1AM	01/7AM	01/7AM	01/1PM
Marathon, FL	39	39	14	2	X	X	X	X
Miami, FL	10	10	5	X	X	X	X	X
W. Palm Bch, FL	8	8	5	X	X	X	2	X
FT. Pierce, FL	8	8	6	2	2	X	3	X
Cocoa Bch, FL	9	9	7	3	2	X	4	X
Daytona Bch, FL	10	10	9	5	4	X	6	X
Jacksonville, FL	10	10	9	8	8	X	9	X
Savannah,GA	8	8	8	7	9	X	10	2
Charleston, SC	6	6	6	5	8	X	9	X
Myrtle Bch, SC	5	5	4	4	7	X	8	X
Wilmington, NC	4	4	3	4	7	X	7	2
Morehead City, NC	3	3	3	3	5	X	6	X
Cape Hatteras, NC	2	2	2	2	5	X	6	X
Norfolk, VA	2	2	2	2	6	X	6	X
Key West, FL	50	50	42	42	22	X	X	X
Marco Island, FL	19	19	12	4	X	X	2	X
Ft. Myers, FL	16	16	13	6	X	X	3	X
Venice, FL	17	17	15	10	2	X	4	X
Tampa, FL	14	14	13	9	4	X	5	X
Cedar Key, FL	13	13	13	11	8	X	8	2
St. Marks, FL	13	13	13	13	15	6	12	8
Apalachicola, FL	14	14	14	16	22	11	13	13
Panama City, FL	14	14	14	16	26	15	16	17
Pensacola, FL	12	12	13	16	30	22	24	26
Mobile, AL	12	12	12	16	27	25	28	27
Gulfport, MS	11	11	12	15	25	28	33	28
Buras, LA	12	12	12	16	24	34	40	30
New Orleans, LA	10	10	11	14	17	27	31	22
New Iberia, LA	8	8	9	12	10	18	18	13
Port Arthur, TX	6	6	7	8	5	10	8	6
Galveston, TX	5	5	6	7	3	7	5	4
Freeport, TX	5	5	5	6	2	5	4	3
Port O Conner, TX	4	4	4	5	2	3	2	X
Corpus Christi, TX	3	3	3	3	X	2	X	X
Brownsville, TX	2	2	3	2	X	X	X	X
Gulf 29N 85W	15	15	15	18	25	14	13	13
Gulf 29N 87W	15	15	15	20	46	42	46	49
Gulf 28N 89W	13	13	14	19	31	42	47	38
Gulf 28N 91W	10	10	11	14	9	17	18	12
Gulf 28N 93W	7	7	8	9	5	8	9	6
Gulf 28N 95W	5	5	6	6	2	4	4	2
Gulf 27N 96W	4	4	4	4	X	2	2	X
Gulf 25N 96W	3	3	3	3	X	X	X	X

X MEANS LESS THAN 2 PERCENT

(Part 1 of 3)

Table 9 (cont'd)
Chances of the center of elena passing within 65 miles of the listed locations by date and time (CDT) indicated (probabilities in percent).

ADVISORY DATE/TIME	29/11PM	30/5AM	30/11AM	30/5PM	30/11PM	31/5AM	31/11AM	31/5PM
PROBABILITY THRU	01/7PM	02/1AM	02/7AM	02/1PM	02/7PM	03/1AM	03/7AM	03/1PM
Marathon, FL	X	X	X	6	10	7	6	8
Miami, FL	X	X	X	8	13	9	9	11
W. Palm Bch, FL	X	X	X	10	16	12	12	13
FT. Pierce, FL	X	X	2	12	19	15	17	16
Cocoa Bch, FL	X	2	4	13	23	19	22	19
Daytona Bch, FL	2	5	7	16	26	25	34	22
Jacksonville, FL	6	9	10	17	21	24	29	20
Savannah,GA	6	10	10	14	13	16	17	14
Charleston, SC	4	7	7	12	11	14	14	11
Myrtle Bch, SC	3	5	5	10	9	12	12	9
Wilmington, NC	2	4	4	8	8	10	11	8
Morehead City, NC	X	2	2	7	7	9	10	6
Cape Hatteras, NC	X	X	2	6	6	8	8	5
Norfolk, VA	X	2	X	4	4	6	6	3
Key West, FL	X	X	X	6	10	6	6	8
Marco Island, FL	X	X	2	10	15	11	11	13
Ft. Myers, FL	X	X	3	12	19	14	14	17
Venice, FL	X	2	4	15	26	19	20	22
Tampa, FL	3	4	7	18	36	32	47	37
Cedar Key, FL	6	9	11	22	42	52	74	61
St. Marks, FL	13	17	18	25	27	34	30	26
Apalachicola, FL	17	22	23	37	40	47	41	29
Panama City, FL	21	29	28	32	27	26	15	18
Pensacola, FL	27	40	33	18	7	10	8	11
Mobile, AL	26	32	26	12	5	7	6	8
Gulfport, MS	25	27	21	10	4	6	5	7
Buras, LA	24	24	18	9	4	6	5	7
New Orleans, LA	18	14	12	7	3	4	4	5
New Iberia, LA	9	4	5	5	2	3	3	4
Port Arthur, TX	3	X	X	3	X	2	X	2
Galveston, TX	X	X	X	2	X	X	X	2
Freeport, TX	X	X	X	2	X	X	X	X
Port O Conner, TX	X	X	X	X	X	X	X	X
Corpus Christi, TX	X	X	X	X	X	X	X	X
Brownsville, TX	X	X	X	X	X	X	X	X
Gulf 29N 85W	18	19	22	50	68	84	85	65
Gulf 29N 87W	48	65	74	64	50	14	9	13
Gulf 28N 89W	31	38	26	12	5	6	5	8
Gulf 28N 91W	9	4	6	6	3	4	3	5
Gulf 28N 93W	3	X	2	4	2	2	2	3
Gulf 28N 95W	X	X	X	2	X	X	X	2
Gulf 27N 96W	X	X	X	2	X	X	X	X
Gulf 25N 96W	X	X	X	X	X	X	X	X

X MEANS LESS THAN 2 PERCENT

(Part 2 of 3)

Table 9 (cont'd)
Chances of the center of elena passing within 65 miles of the listed locations by date and time (CDT) indicated (probabilities in percent).

ADVISORY DATE/TIME	31/11PM	01/5AM	01/11AM	01/1PM	01/5PM	01/7PM	01/11PM	02/5AM
PROBABILITY THRU	03/7PM	04/1AM	04/7AM	04/1PM	04/1PM	04/1PM	04/7PM	05/1AM
Marathon, FL	7	3	X	X	X	X	X	X
Miami, FL	8	4	X	X	X	X	X	X
W. Palm Bch, FL	9	5	X	X	X	X	X	X
FT. Pierce, FL	12	8	X	X	X	X	X	X
Cocoa Bch, FL	14	10	X	X	X	X	X	X
Daytona Bch, FL	17	13	2	X	X	X	X	X
Jacksonville, FL	17	14	4	X	X	X	X	X
Savannah,GA	11	10	3	X	X	X	X	X
Charleston, SC	8	7	2	X	X	X	X	X
Myrtle Bch, SC	6	6	X	X	X	X	X	X
Wilmington, NC	5	4	X	X	X	X	X	X
Morehead City, NC	4	3	X	X	X	X	X	X
Cape Hatteras, NC	3	3	X	X	X	X	X	X
Norfolk, VA	2	2	X	X	X	X	X	X
Key West, FL	7	4	X	X	X	X	X	X
Marco Island, FL	11	8	X	X	X	X	X	X
Ft. Myers, FL	14	11	X	X	X	X	X	X
Venice, FL	19	17	2	X	X	X	X	X
Tampa, FL	27	24	5	X	X	X	X	X
Cedar Key, FL	78	39	22	12	12	12	X	X
St. Marks, FL	27	26	39	54	54	54	7	X
Apalachicola, FL	32	34	77	93	93	93	82	X
Panama City, FL	22	24	55	86	86	86	97	14
Pensacola, FL	14	17	34	65	65	65	82	95
Mobile, AL	11	14	26	48	48	48	70	89
Gulfport, MS	10	14	22	36	36	36	71	85
Buras, LA	11	14	18	21	21	21	50	38
New Orleans, LA	9	12	16	22	22	22	49	47
New Iberia, LA	7	10	12	15	15	15	28	17
Port Arthur, TX	4	7	7	10	10	10	15	7
Galveston, TX	4	7	5	7	7	7	10	3
Freeport, TX	3	6	4	5	5	5	8	2
Port O Conner, TX	3	5	2	3	3	3	4	X
Corpus Christi, TX	2	4	X	2	2	2	2	X
Brownsville, TX	2	3	X	X	X	X	X	X
Gulf 29N 85W	51	63	95	98	98	98	52	X
Gulf 29N 87W	17	20	33	48	48	48	83	40
Gulf 28N 89W	12	14	14	8	8	8	12	X
Gulf 28N 91W	9	11	11	7	7	7	12	X
Gulf 28N 93W	6	9	7	5	4	4	9	X
Gulf 28N 95W	4	6	4	4	2	2	6	X
Gulf 27N 96W	3	5	2	2	X	X	3	X
Gulf 25N 96W	3	4	X	X	X	X	X	X

X MEANS LESS THAN 2 PERCENT

(Part 3 of 3)

Table 9 (cont'd)
Chances of the center of Gloria passing within 65 miles of the listed locations by date and time (EDT) indicated (probabilities in percent).

Advisory Date/Time	24/0600	24/1200	24/1800	25/0000	25/0600	25/1200	25/1500	25/1800
Probability thru	27/0200	27/0800	27/1400	27/2000	28/0200	28/0800	28/0800	28/1400
Charleston SC	6	7	8	8	9	7	12	11
Myrtle Beach SC	6	7	10	10	12	13	18	20
Wilmington NC	6	7	11	12	14	17	22	25
Morehead City NC	6	8	12	14	16	20	24	28
Cape Hatteras NC	6	8	12	14	16	21	23	26
Norfolk VA	4	5	11	13	14	17	18	22
Ocean City MD	2	4	10	13	14	16	16	18
Atdlantic City NJ	2	3	9	11	14	15	15	16
New York NY	X	2	9	10	13	15	15	15
Montauk Point NY	X	2	9	9	13	14	14	13
Providence RI	X	X	8	8	13	14	13	13
Nantucket MA	X	2	8	8	13	13	11	10
Hyannis MA	X	X	8	8	13	13	12	11
Boston MA	X	X	8	7	12	14	13	13
Portland ME	X	X	6	6	10	13	11	13
Bar Harbor ME	X	X	5	5	8	12	9	12
Eastport ME	X	X	5	4	7	10	7	11

Advisory Date/Time	26/0000	26/0600	26/1200	26/1800	27/0000	27/0600	27/1000
Probability thru	28/2000	29/0200	29/0800	29/1400	29/2000	30/0200	30/0200
Charleston SC	7	15	X	X	X	X	X
Myrtle Beach SC	23	38	18	X	X	X	X
Wilmington NC	32	45	44	31	5	X	X
Morehead City NC	36	42	55	82	68	X	X
Cape Hatteras NC	32	31	48	78	86	X	X
Norfolk VA	27	28	42	66	53	50	X
Ocean City MD	22	23	35	51	57	78	X
Atdlantic City NJ	19	20	30	43	48	71	54
New York NY	17	17	27	37	43	67	57
Montauk Point NY	13	13	20	24	42	58	66
Providence RI	12	12	18	22	39	52	61
Nantucket MA	8	9	12	11	29	25	36
Hyannis MA	9	10	14	14	33	34	46
Boston MA	10	12	17	22	37	49	58
Portland ME	8	12	16	21	35	44	50
Bar Harbor ME	4	9	13	14	33	35	42
Eastport ME	2	7	11	11	30	29	36

X means less than 2 percent

Table 9.(cont'd) Chances of the center of Henri passing within 65 miles of the listed locationa by Date and Time (EDT) indicated. Probabilities in percent.

Advisory Date/Time	23/8AM	23/NOON	23/6PM	23/MID	24/6AM
Probability thru	26/2AM	26/8AM	26/2PM	26/8PM	27/2AM
Norfolk, Va.	19	X	X	X	X
Ocean City, Md.	33	43	41	62	69
Atlantic City, NJ.	25	35	32	39	68
New York, City, NY.	18	29	25	29	52
Montauk Point, NY.	17	30	25	25	37
Providence, Ri.	15	24	20	20	30
Nantucket, Ma.	16	25	21	21	26
Hyannis, Ma.	15	24	20	20	25
Boston, Ma.	14	20	17	17	22
Portland, Me.	11	14	13	13	14
Bar Harbor, Me.	10	13	12	12	11
Eastport, Me	9	12	11	11	9
St. John, NB.	8	12	10	10	8
Moncton, NB.	7	10	9	8	5
Yarmouth, NS.	11	15	13	13	11
Halifax, NS.	9	13	11	11	7
40.0N 72.0W	X	40	35	35	X
38.6N 74.0W	X	X	X	85	X

X Means less than one percent

Table 9 (cont'd)
Chances of the center of Isabel passing within 65 miles the listed locations by date and time (EDT) indicated (probabilities in percent).

ADVISORY DATE/TIME	8/6AM	8/NOON	8/6PM	8/1030PM	9/6AM	9/NOON
PROBABILITY THRU	11/2AM	11/8AM	11/2PM	11/8PM	12/2AM	12/8AM
Marathon, FL	6	7	6	6	3	2
Miami, FL	7	9	10	10	6	4
W. Palm Bch., FL	7	10	15	15	10	10
Ft. Pierce, FL	7	10	18	18	15	18
Cocoa Beach, FL	7	9	20	20	19	26
Daytona Bch., FL	6	9	20	20	23	33
Jacksonville, FL	4	7	17	17	22	28
Savannah, GA	4	6	14	14	18	18
Charleston, SC	4	6	12	12	15	13
Myrtle Beach, SC	4	6	9	9	12	9
Wilmington, NC	4	6	7	7	9	6
Morehead City, NC	4	6	6	5	7	4
Cape Hatteras, NC	4	5	4	4	5	3
Norfolk, VA	2	3	3	3	4	3
Ocean City, MD	X	2	2	2	2	X

ADVISORY DATE/TIME	9/6PM	10/MID	10/6AM
PROBABILITY THRU	12/2PM	12/8PM	13/2AM
Marathon, FL	6	6	X
Miami, Fl	9	8	X
W. Palm Bch., FL	16	10	X
Ft. Pierce, FL	28	15	5
Cocoa Beach, FL	36	30	42
Daytona Bch., FL	38	50	80
Jacksonville, FL	27	44	60
Savannah, GA	16	21	13
Charleston, SC	14	15	6
Myrtle Beach, SC	11	11	2
Wilmington, NC	9	9	X
Morehead City, NC	8	8	X
Cape Hatteras, NC	6	6	X
Norfolk, VA	4	4	X
Ocean City, MD	2	2	X

X MEANS LESS THAN 2 PERCENT

Table 9 (cont'd)
Chances of the center of Juan passing within 65 miles of the listed locations by date and time (cdt) indicated (probabilities in percent).

Advisory Date/Time	26/0830	26/1100	26/1700	26/2130	27/0500
Probability through	29/0100	29/0700	29/1300	29/1900	30/0100
FT PIERCE FL	X	X	X	2	X
COCOA BEACH FL	X	X	X	2	X
DAYTONA BEACH FL	X	X	X	3	X
JACKSONVILLE FL	X	X	2	3	X
SAVANNAH GA	X	X	2	3	X
CHARLESTON SC	X	X	X	2	X
MYRTLE BEACH SC	X	X	X	2	X
MARCO ISLAND FL	X	X	X	2	2
FT MYERS FL	X	X	X	2	2
VENICE FL	X	X	2	3	3
TAMPA FL	X	X	2	3	3
CEDAR KEY FL	X	2	3	4	4
ST MARKS FL	X	3	4	5	6
APALACHICOLA FL	X	3	4	6	7
PANAMA CITY FL	X	4	5	7	8
PENSACOLA FL	X	5	6	8	10
MOBILE AL	X	6	7	9	11
GULFPORT MS	X	6	8	10	12
DURAS LA	2	8	10	12	15
NEW ORLEANS LA	2	8	10	11	14
NEW IBERIA LA	3	9	10	12	14
PORT ARTHUR TX	5	9	10	11	13
GALVESTON TX	7	10	12	12	13
FREEPORT TX	8	11	12	11	13
PORT O CONNOR TX	10	11	12	11	11
CORPUS CHRISTIE TX	12	11	12	10	10
BROWNSVILLE TX	18	15	16	11	10
GULF 29N 85W	X	3	4	6	7
GULF 29N 87W	X	5	7	9	11
GULF 28N 89W	2	9	10	13	16
GULF 28N 91W	5	12	13	16	22
GULF 28N 93W	9	14	16	17	22
GULF 28N 95W	12	14	15	14	15
GULF 27N 96W	17	16	18	14	13
GULF 25N 96W	29	22	26	15	12

X means less than one percent

Table 9 (cont'd)
Chances of the center of Juan passing within 65 miles of the listed locations by date and time (cdt) indicated (probabilities in percent).

Advisory Date/Time	27/1100	27/1100	27/2300	28/0500	29/0500
Probability through	30/0700	30/1300	30/1900	31/0100	01/0100
FT PIERCE FL	X	X	X	X	X
COCOA BEACH FL	X	X	X	X	X
DAYTONA BEACH FL	X	X	X	X	X
JACKSONVILLE FL	X	X	X	X	X
SAVANNAH GA	X	X	X	X	X
CHARLESTON SC	X	X	X	X	X
MYRTLE BEACH SC	X	X	X	X	X
MARCO ISLAND FL	X	X	X	X	4
FT MYERS FL	X	2	X	X	5
VENICE FL	2	3	X	X	7
TAMPA FL	3	4	X	X	9
CEDAR KEY FL	4	6	X	X	11
ST MARKS FL	7	9	X	X	15
APALACHICOLA FL	8	11	X	X	16
PANAMA CITY FL	9	12	2	X	18
PENSACOLA FL	13	17	6	X	24
MOBILE AL	15	19	11	X	27
GULFPORT MS	17	22	16	3	33
DURAS LA	20	33	26	14	56
NEW ORLEANS LA	19	26	53	46	44
NEW IBERIA LA	20	21	82	90	37
PORT ARTHUR TX	15	12	17	26	X
GALVESTON TX	14	10	7	9	X
FREEPORT TX	13	9	5	5	X
PORT O CONNOR TX	10	7	2	X	X
CORPUS CHRISTI TX	8	5	X	X	X
BROWNSVILLE TX	7	3	X	X	X
GULF 29N 85W	7	10	X	X	X
GULF 29N 87W	12	16	2	X	23
GULF 28N 89W	20	35	2	X	35
GULF 28N 91W	43	67	86	76	67
GULF 28N 93W	26	17	8	7	X
GULF 28N 95W	14	8	3	2	X
GULF 27N 96W	10	6	X	X	X
GULF 25N 96W	7	4	X	X	X

X means less than 1 percent

Table 9 (cont'd)

Chances of the center of Kate passing within 65 miles of the listed locations by date and time (est) indicated (probabilities in percent).

Advisory Date/Time	17/11pm thru 20/Nov	18/5am thru 21/Nov	18/11am thru 21/Nov	18/5pm thru 21/Nov	18/11pm thru 21/Nov	19/5am thru 22/Nov	19/11am thru 22/Nov
Coastal Locations	7pm Wed	1am Thu	7am Thu	1pm Thu	7pm Thu	1am Fri	7am Fri
MARTHON FL	12	20	25	33	47	20	16
MIAMI FL	12	18	21	20	11	4	X
W PALM BEACH FL	11	15	16	14	5	4	X
FT PIERCE FL	9	13	13	12	6	5	X
COCOA BEACH FL	8	11	11	10	6	6	X
DAYTONA BEACH FL	6	9	9	9	6	7	X
JACKSONVILLE FL	4	7	7	8	6	7	X
SAVANNAH GA	3	4	4	5	4	5	X
CHARLESTON SC	2	3	3	4	3	4	X
MYRTLE BEACH SC	2	X	2	3	2	3	X
WILMINGTON NC	X	X	X	2	X	2	X
MOOREHEAD CITY NC	X	X	X	2	X	X	X
KEY WEST FL	11	19	23	31	52	44	51
MARCO ISLAND FL	10	16	19	20	17	8	6
FT MYERS FL	9	15	16	17	13	9	6
VENICE FL	8	13	14	15	13	10	8
TAMPA FL	7	12	12	13	10	10	8
CEDAR KEY FL	5	9	10	11	9	10	9
ST MARKS FL	3	7	8	9	9	10	10
APALACHICOLA FL	4	7	8	10	10	12	11
PANAMA CITY FL	3	7	8	9	10	11	11
PENSACOLA FL	2	5	6	8	9	11	11
MOBILE AL	X	4	5	7	8	10	11
GULFPORT MS	X	4	5	7	9	10	12
DURAS LA	X	5	6	8	10	12	13
NEW ORLEANS LA	X	4	5	6	9	10	12
NEW IBERIA LA	X	3	4	5	7	8	10
PORT ARTHUR TX	X	2	3	3	5	6	8
GALVESTON TX	X	2	3	3	5	6	8
FREEPORT TX	X	X	2	3	5	5	7
PORT O CONNOR TX	X	X	2	3	4	4	6
CORPUS CHRISTIE TX	X	X	2	2	4	3	5
BROWNSVILLE TX	X	X	2	2	4	4	5
GULF 29N 85W	X	9	10	11	11	13	12
GULF 29N 87W	X	7	9	10	12	14	14
GULF 28N 89W	X	7	8	10	13	15	16
GULF 28N 91W	X	5	7	8	11	12	14
GULF 28N 93W	X	3	5	6	9	9	11
GULF 28N 95W	X	2	3	3	6	5	7
GULF 27N 96W	X	2	3	3	6	5	7
GULF 25N 96W	X	2	4	3	6	5	6

X means less than one percent

Table 9 (cont'd)
Chances of the center of Kate passing within 65 miles of the listed locations by date and time indicated (probabilities in percent).

Advisory Date/Time	19/5pm thru 22/Nov (est)	19/11pm thru 22/Nov (est)	20/4am thru 23/Nov (cst)	20/10am thru 23/Nov (cst)	20/4pm thru 23/Nov (cst)	20/10pm thru 23/Nov (cst)
Coastal Locations	1pm Fri	7pm Fri	12am Sat	6am Sat	12pm Sat	6pm Sat
MARTHON FL	12	X	X	X	X	X
MIAMI FL	2	X	X	X	X	X
W PALM BEACH FL	3	X	X	X	X	X
FT PIERCE FL	4	4	X	X	X	7
COCOA BEACH FL	5	5	7	X	6	9
DAYTONA BEACH FL	7	7	9	X	9	14
JACKSONVILLE FL	8	9	11	X	13	19
SAVANNAH GA	7	9	11	X	16	17
CHARLESTON SC	5	7	9	X	15	15
MYRTLE BEACH SC	4	6	8	X	13	19
WILMINGTON NC	3	5	7	X	12	12
MOOREHEAD CITY NC	2	4	6	X	11	11
CAPE HATTERAS NC	2	3	5	X	9	10
NORFOLK VA	X	3	4	X	8	9
OCEAN CITY MD	X	2	3	X	7	9
ATLANTIC CITY NJ	X	X	2	X	6	7
NEW YORK CITY NY	X	X	X	X	4	6
MONTAUK POINT NY	X	X	X	X	3	5
PROVIDENCE RI	X	X	X	X	2	4
NANTUCKET MA	X	X	X	X	2	4
HYANNIS MA	X	X	X	X	2	4
BOSTON MA	X	X	X	X	2	3
KEY WEST FL	64	X	X	2	X	X
MARCO ISLAND FL	5	4	5	5	X	X
FT MYERS FL	6	5	6	7	X	6
VENICE FL	8	7	8	9	9	8
TAMPA FL	9	9	10	12	12	13
CEDAR KEY FL	10	11	13	16	19	23
ST MARKS FL	12	14	16	19	27	36
APALACHICOLA FL	13	15	18	23	36	48
PANAMA CITY FL	14	16	19	23	35	47
PENSACOLA FL	13	16	19	20	24	25
MOBILE AL	13	16	18	16	16	13
GULFPORT MS	13	16	17	14	12	8
DURAS LA	15	17	21	13	9	6
NEW ORLEANS LA	13	15	15	10	7	4
NEW IBERIA LA	10	11	10	5	4	2
PORT ARTHUR TX	7	7	4	2	2	X
GALVESTON TX	7	6	3	2	X	X
FREEPORT TX	6	5	3	X	X	X
PORT O CONNOR TX	5	3	2	X	X	X
CORPUS CHRISTIE TX	4	2	X	X	X	X
BROWNSVILLE TX	4	2	X	X	X	X
GULF 29N 85W	14	16	18	27	40	54
GULF 29N 87W	17	20	27	33	45	52
GULF 28N 89W	19	25	35	18	12	6
GULF 28N 91W	15	16	15	7	4	3
GULF 28N 93W	10	10	7	3	2	X
GULF 28N 95W	7	5	3	X	X	X
GULF 27N 96W	X	4	2	X	X	X

X means less than one percent

Table 9 (cont'd)

Chances of the center of Kate passing within 65 miles of the listed locations by date and time (cst) indicated (probabilities in percent).

Advisory Date/Time	21/4am thru 24/Nov	21/10am thru 24/Nov
Coastal Locations	12am Sun	6am Sun
FT PIERCE FL	4	5
COCOA BEACH FL	6	7
DAYTONA BEACH FL	10	13
JACKSONVILLE FL	15	20
SAVANNAH GA	15	19
CHARLESTON SC	13	15
MYRTLE BEACH SC	12	14
WILMINGTON NC	11	13
MOOREHEAD CITY NC	10	12
CAPE HATTERAS NC	9	11
NORFOLK VA	9	11
OCEAN CITY MD	8	9
ATLANTIC CITY NJ	7	8
NEW YORK CITY NY	5	6
MONTAUK POINT NY	4	5
PROVIDENCE RI	4	5
NANTUCKET MA	4	4
HYANNIS MA	4	4
BOSTON MA	3	4
PORTLAND ME	2	3
BAR HARBOR ME	2	2
VENICE FL	6	6
TAMPA FL	9	10
CEDAR KEY FL	16	22
ST MARKS FL	29	42
APALACHICOLA FL	39	58
PANAMA CITY FL	43	62
PENSACOLA FL	31	30
MOBILE AL	19	11
GULFPORT MS	13	7
DURAS LA	9	5
NEW ORLEANS LA	7	4
NEW IBERIA LA	4	2
GULF 29N 85W	42	58
GULF 29N 87W	64	74
GULF 28N 89W	9	4
GULF 28N 91W	4	2
GULF 28N 93W	2	X

X means less than one percent