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NOAA Technical Memorandum NWS NHC 29

ANNUAL DATA AND VERIFICATION TABULATION
ATLANTIC TROPICAL CYCLONES 1985

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National Hurricane Center
Miami, Florida
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UNITED STATES
DEPARTMENT OF COMMERCE
Malcolm Baldrige, Secretary

National Oceanic and
Atmospheric Administration
John V. Byrne, Administrator

National Weather
Service
Richard E. Hallgren, Director



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 Forecasts). 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 displacement 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 Tabulation 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.

REFERENCES

- Hope, J. R., and C. J. Neumann, 1970: "An Operational Technique for Relating the Movement of Existing Tropical Cyclones to Past Tracks," Monthly Weather Review, Vol. 98, No. 23, pp. 925-933.
- Hovermale, J. B., and R. E. Livezey, 1977: "Three-Year Performance Characteristics of the NMC Hurricane Model," Preprints 11th Technical Conference on Hurricanes and Tropical Meteorology, Miami Beach, Amer. Meteor. Soc., pp. 122-125.
- Lawrence, M. B., P. J. Hebert, and Staff, NHC, 1979: "Annual Data and Verification Tabulation Atlantic Tropical Cyclones, 1977," NOAA Technical Memorandum NWS NHC-8, 46 pp.
- Miller, B. I., E. C. Hill and P. P. Chase, 1968: "Revised Technique for Forecasting Hurricane Motion by Statistical Methods," Monthly Weather Review, Vol. 96, No. 8, pp. 540-548.
- Neumann, C. J., 1972: "An Alternative to the HURRAN Tropical Cyclone Forecast System," NOAA Technical Memorandum NWS SR-62, 24 pp.
- Neumann, C. J., J. R. Hope and B. I. Miller, 1972: "A Statistical Method of Combining Synoptic and Empirical Tropical Cyclone Prediction Systems," NOAA Technical Memorandum NWS SR-63, 32 pp.
- Neumann, C. J., and M. B. Lawrence, 1973: "Statistical-Dynamical Prediction of Tropical Cyclone Motion (NHC-73)," NOAA Technical Memorandum NWS SR-69, 34 pp.
- Neumann, C. J., 1979: "A Guide to Atlantic and Eastern Pacific Models for the Prediction of Tropical Cyclone Motion," NOAA Technical Memorandum NWS NHC-11, 26 pp.
- Pike, A. C., 1972: "Improved Barotropic Hurricane Track Prediction by Adjustment of the Initial Wind Field," NOAA Technical Memorandum NWS SR-66, 16 pp.
- Sanders, F., and R. W. Burpee, 1968: "Experiments in Barotropic Hurricane Track Forecasting," Journal of Applied Meteorology, Vol. 7, No. 3, pp. 313-323.
- Carter, T. Michael, 1983: "Probability of Hurricane/Tropical Storm Conditions: A User's Guide for Local Decision Makers," NOAA National Weather Service Headquarters, 25 pp.

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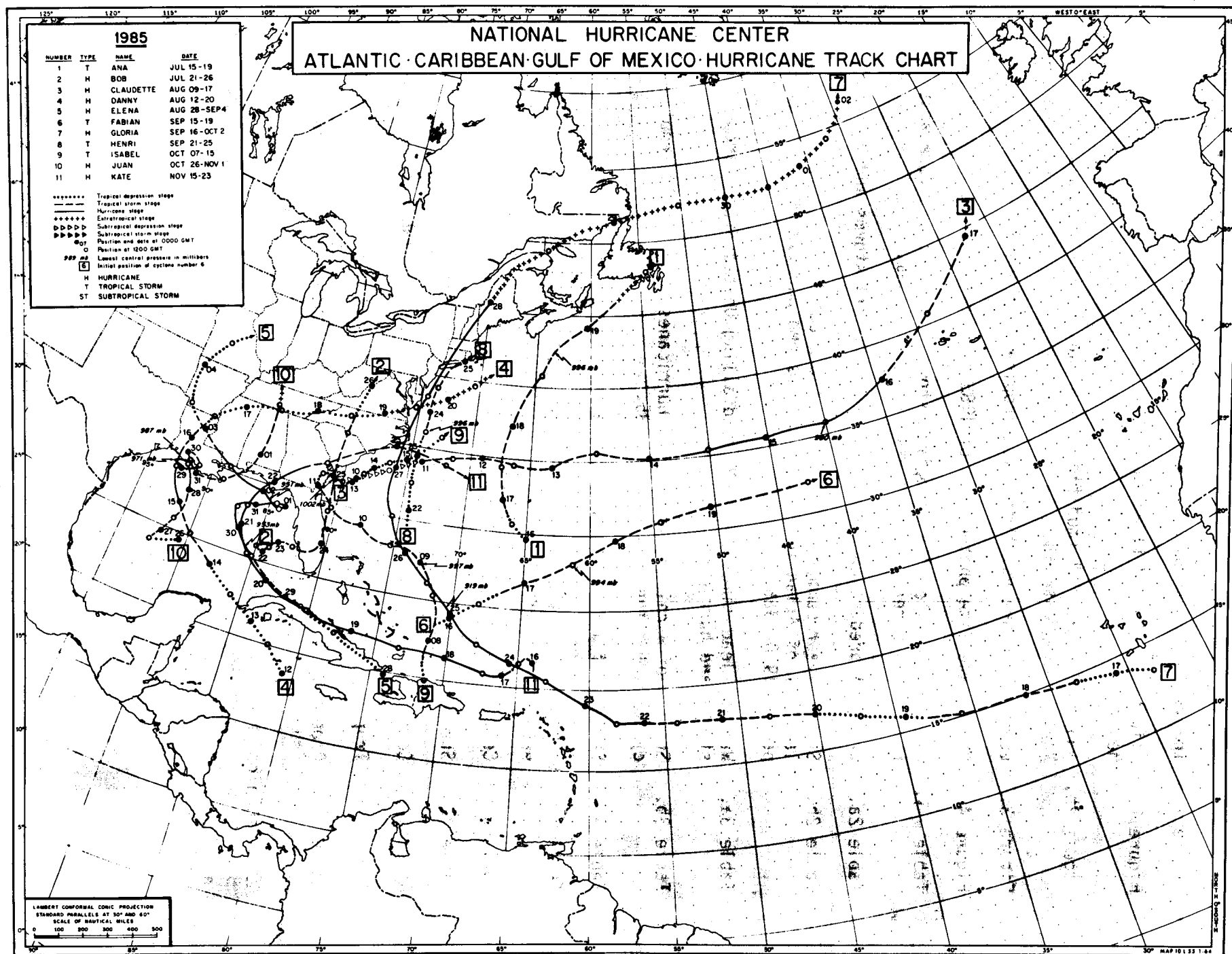


Figure 1. Tracks of the 1985 tropical cyclones.

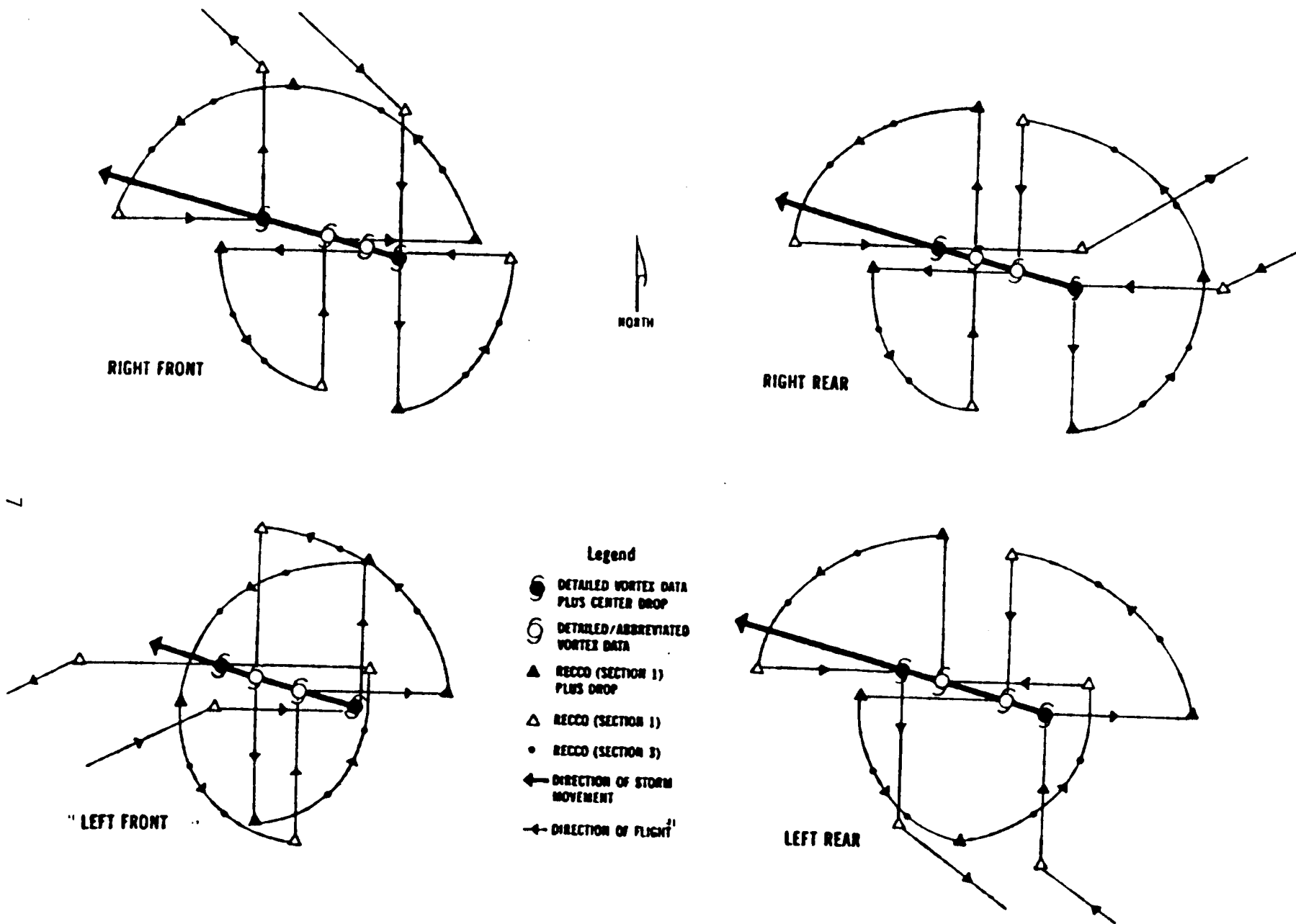
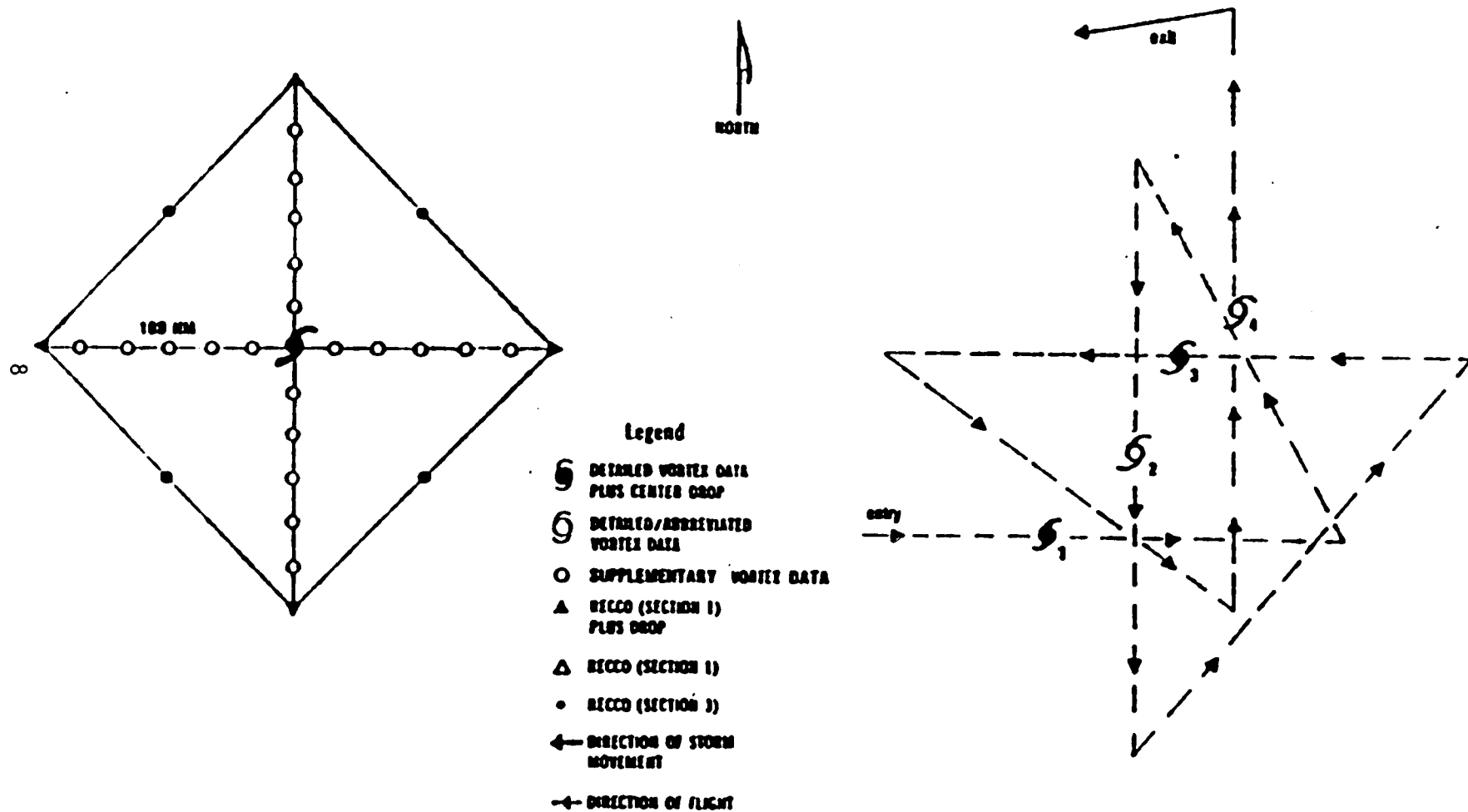


Figure 2a. Flight pattern "A" flown in obtaining Supplementary Vortex Data Message.

RECOMMENDED PATTERN "A" (MODIFIED) EXECUTION



Pattern may be entered on any leg

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

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

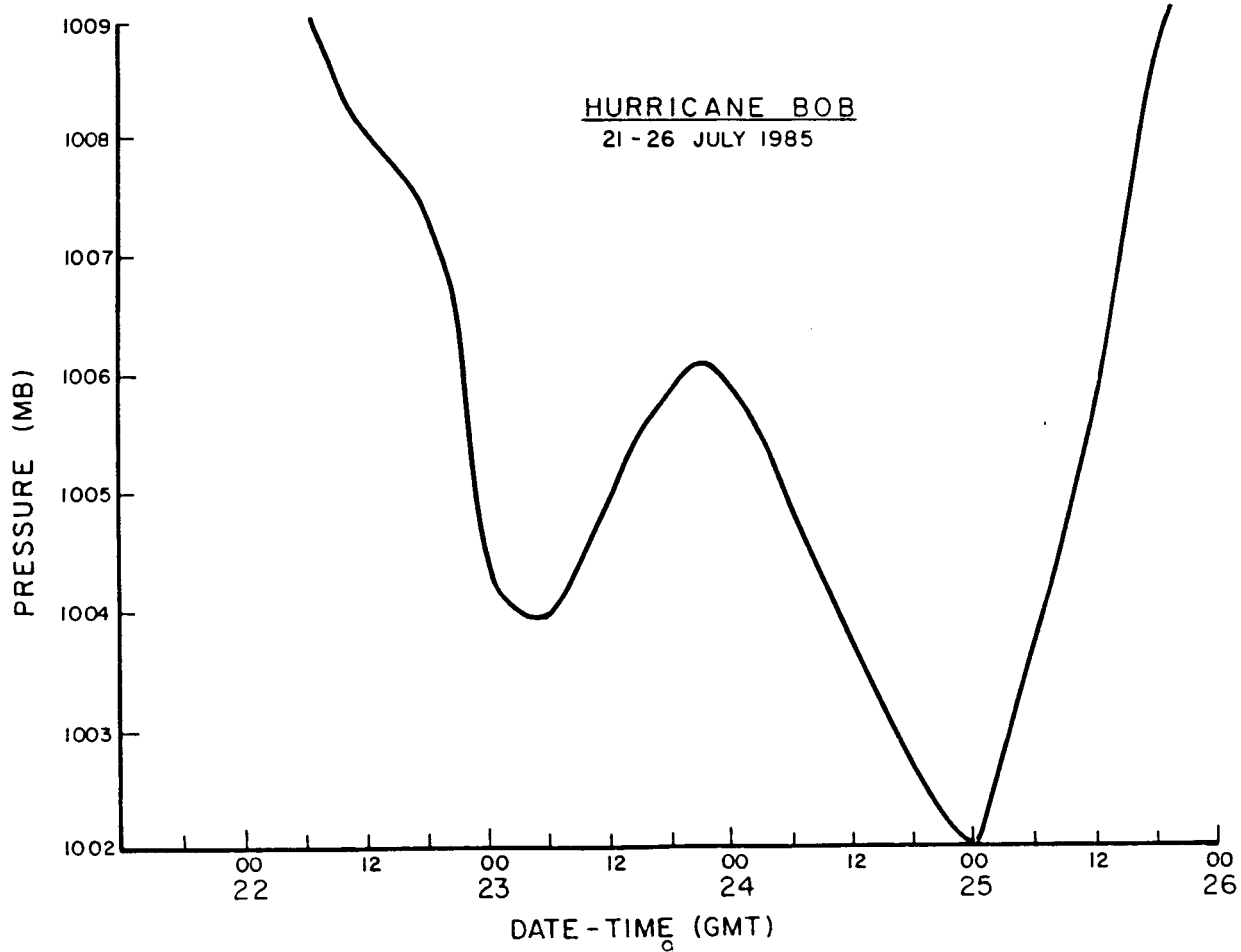
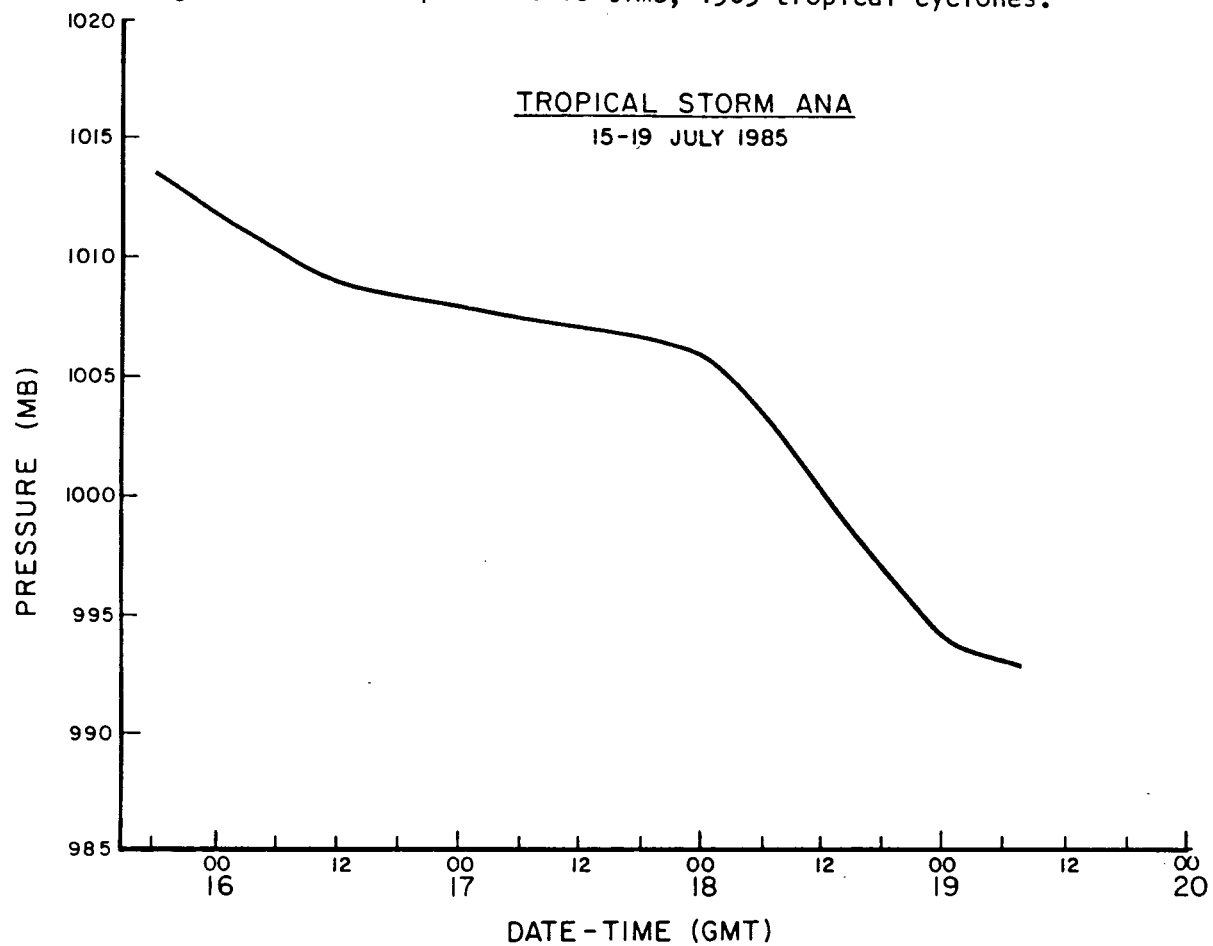


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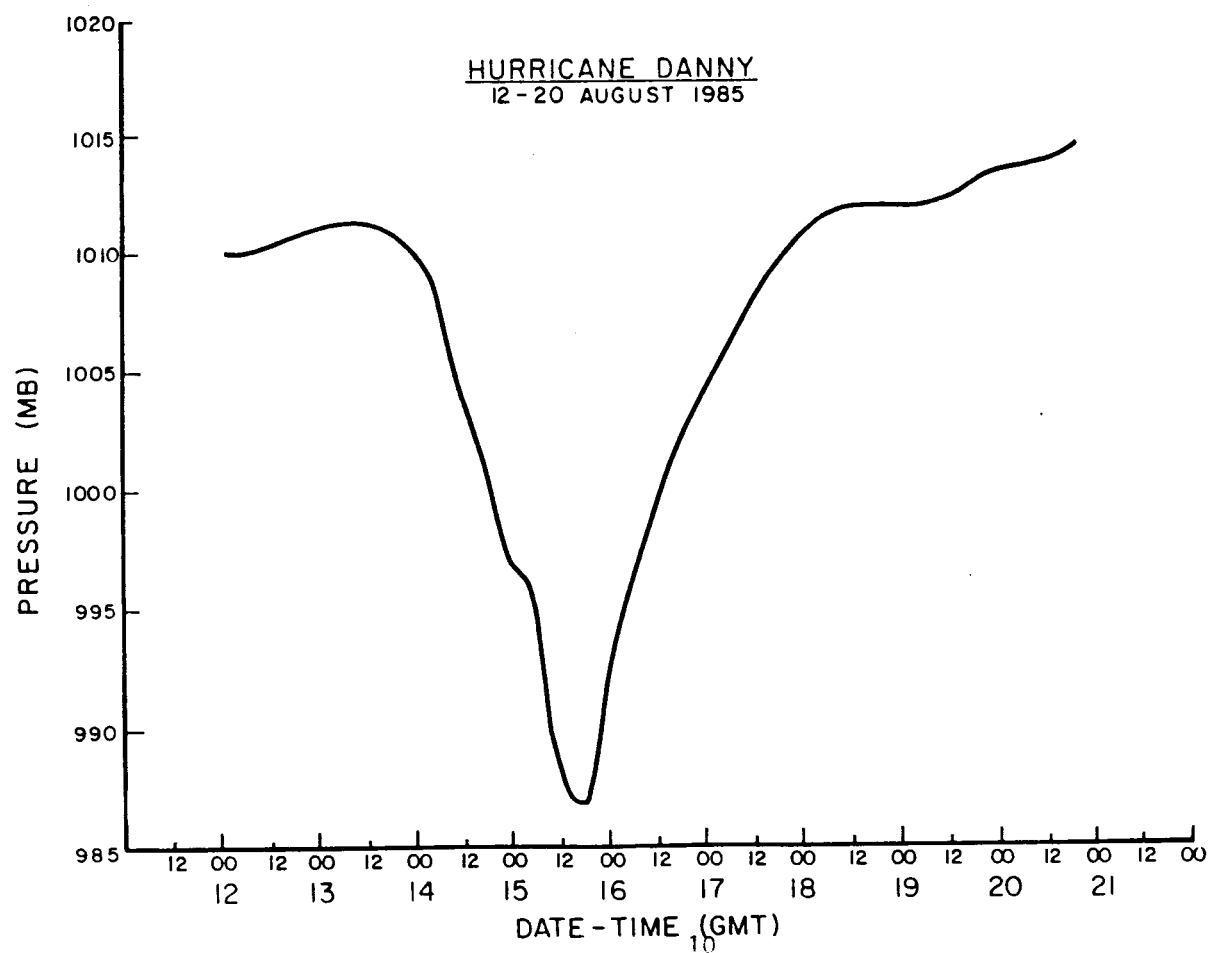
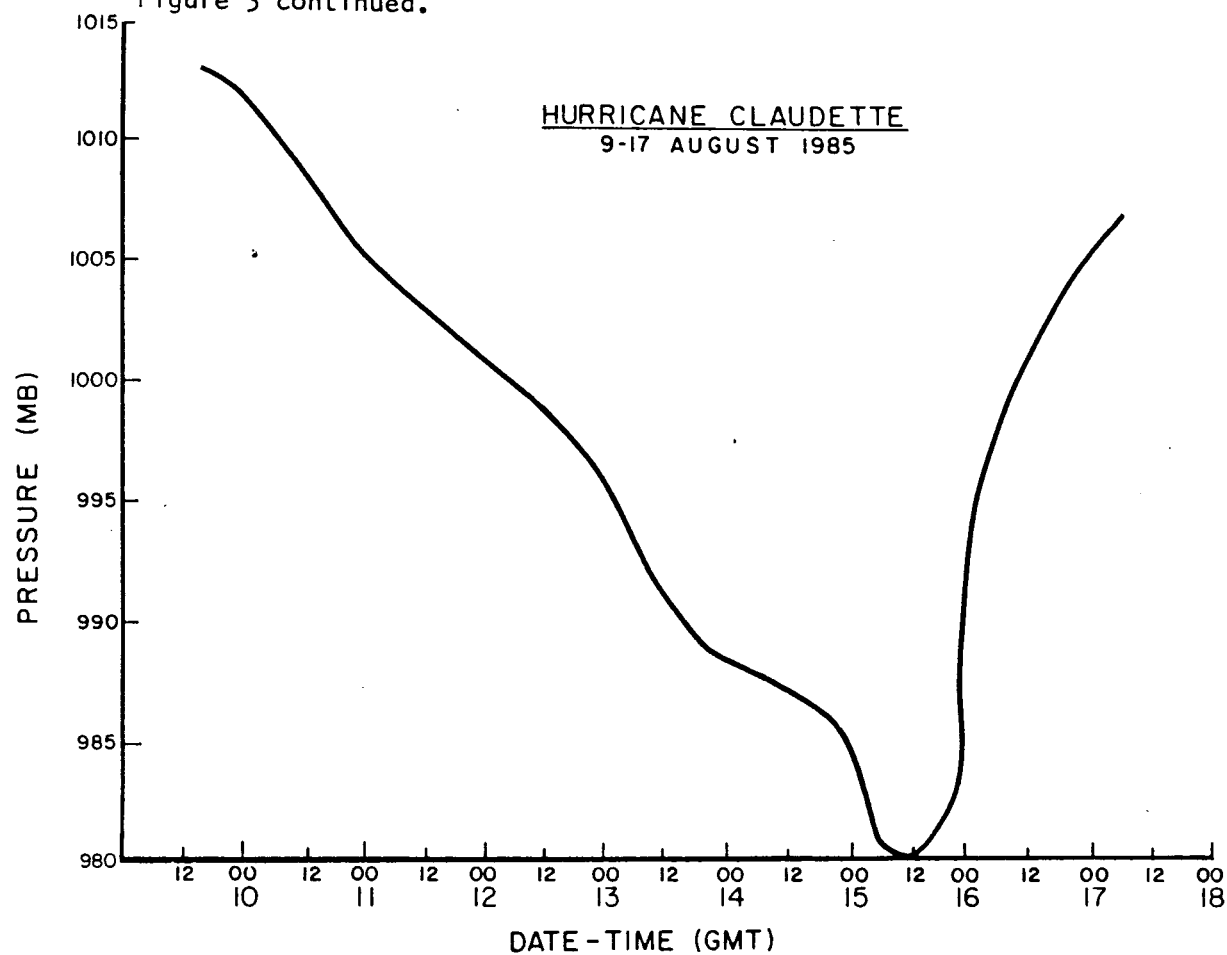


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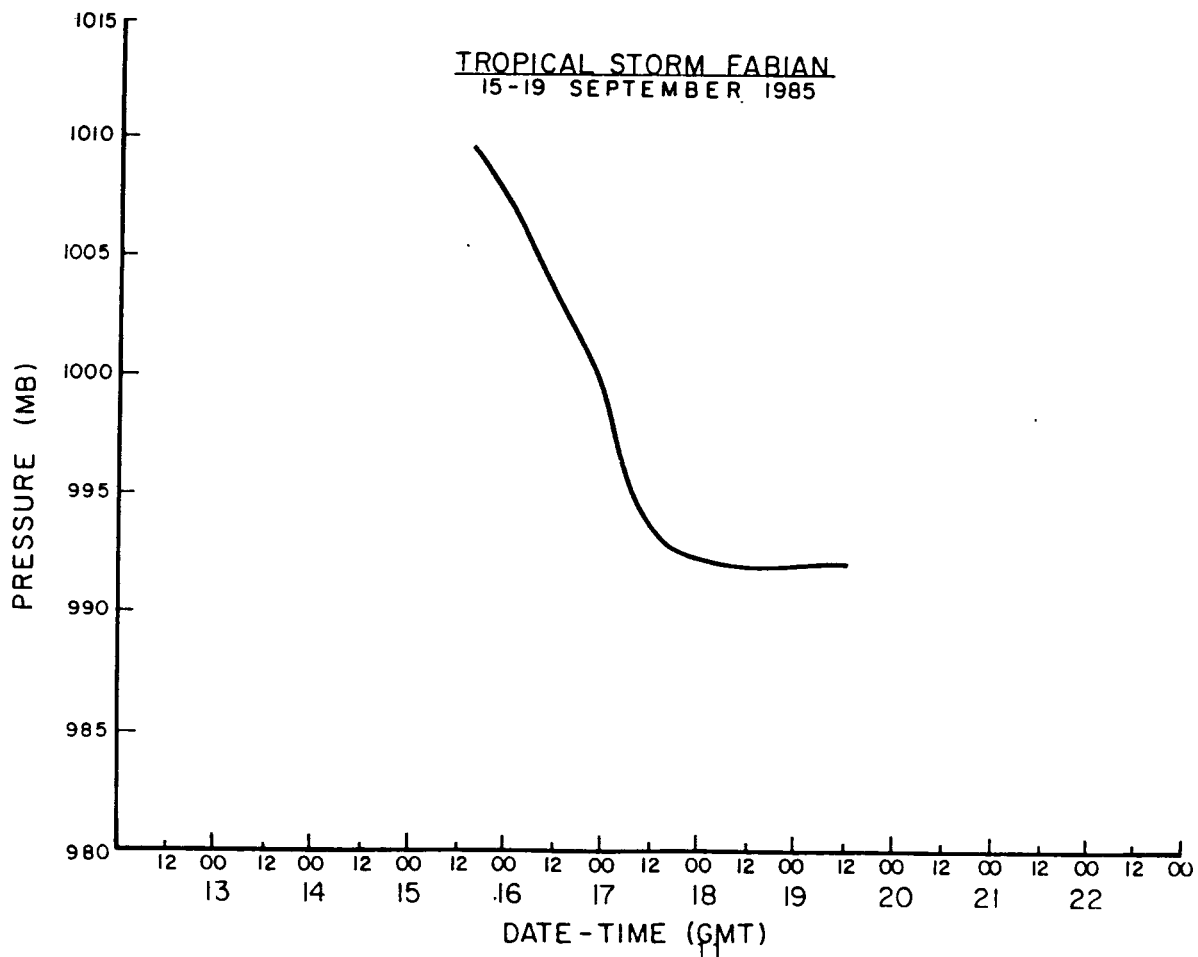
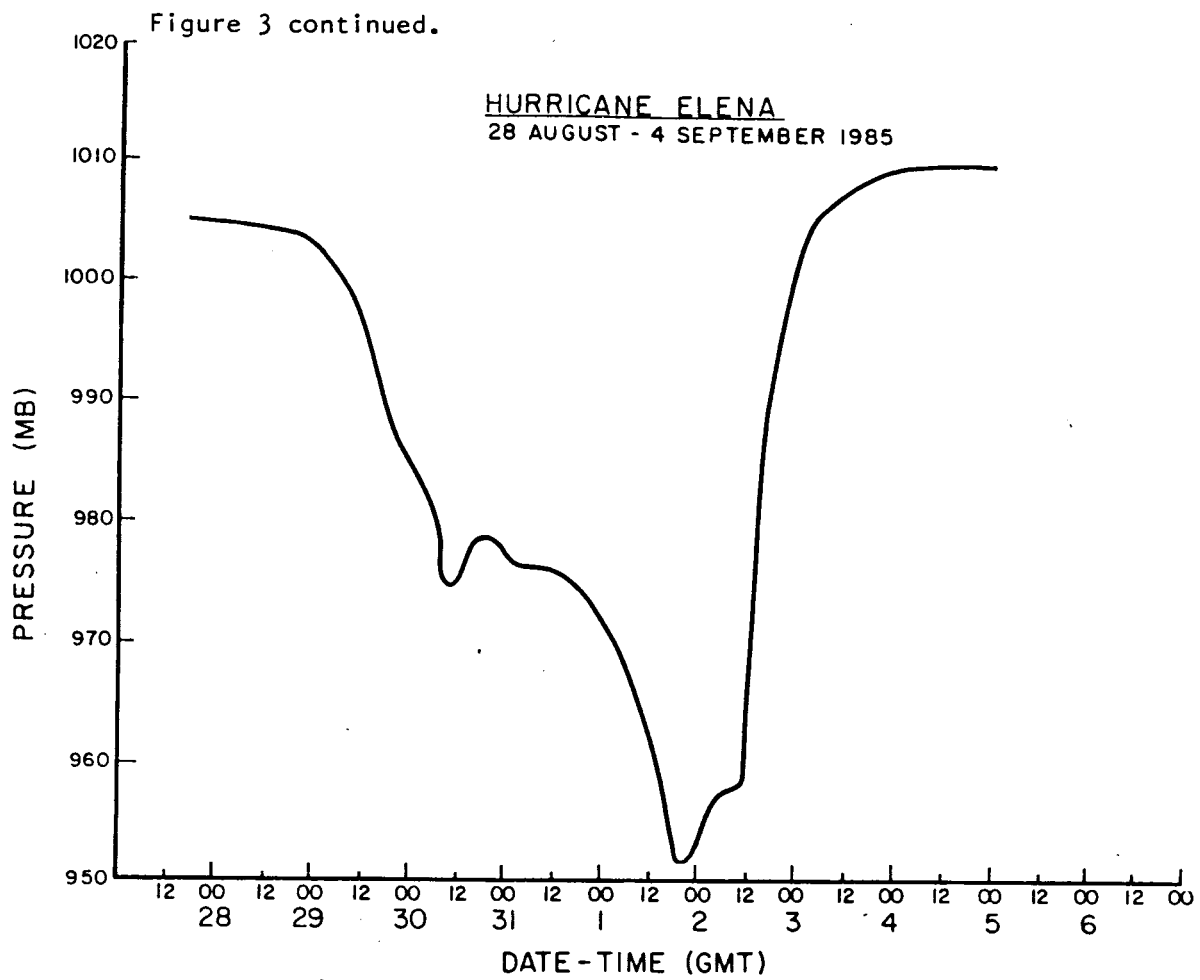


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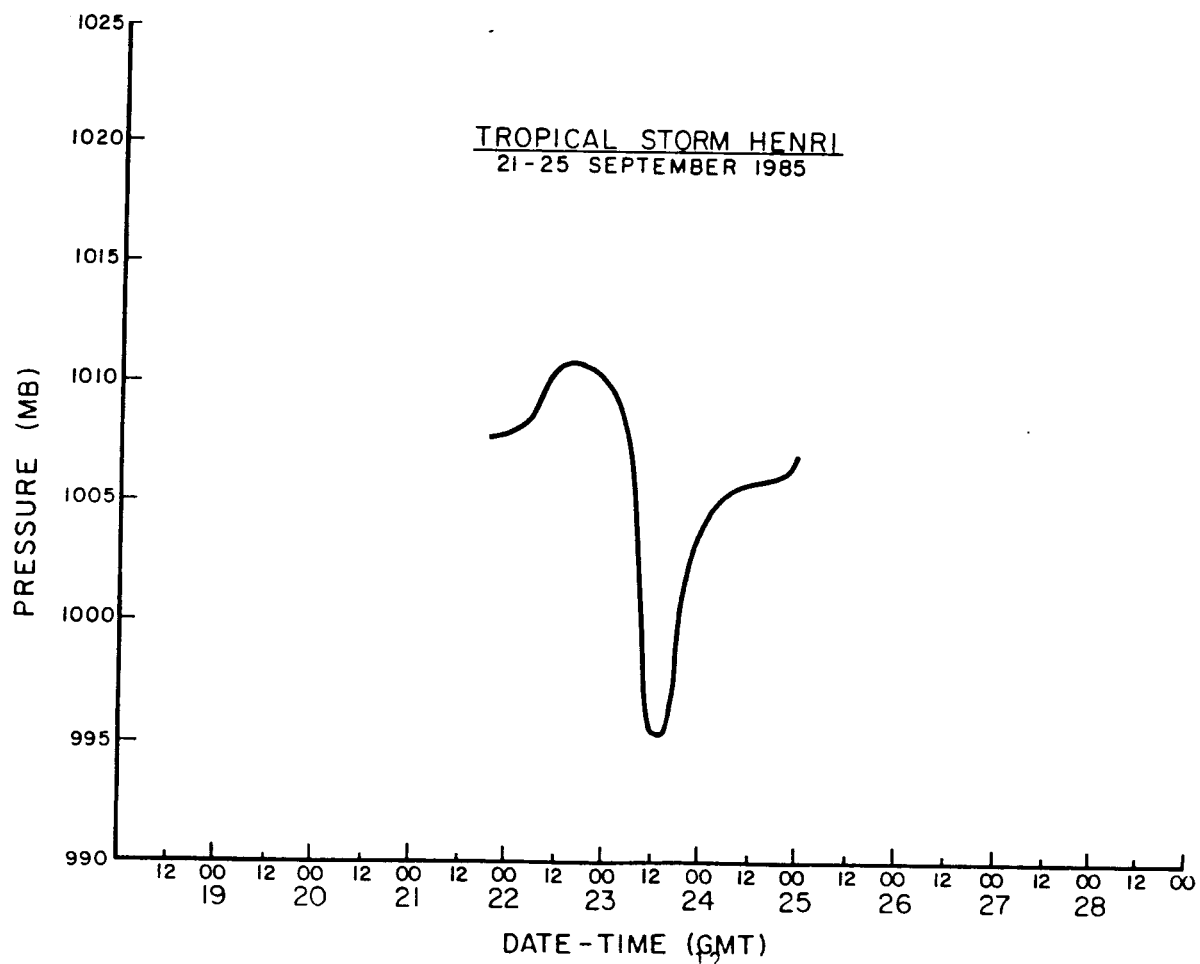
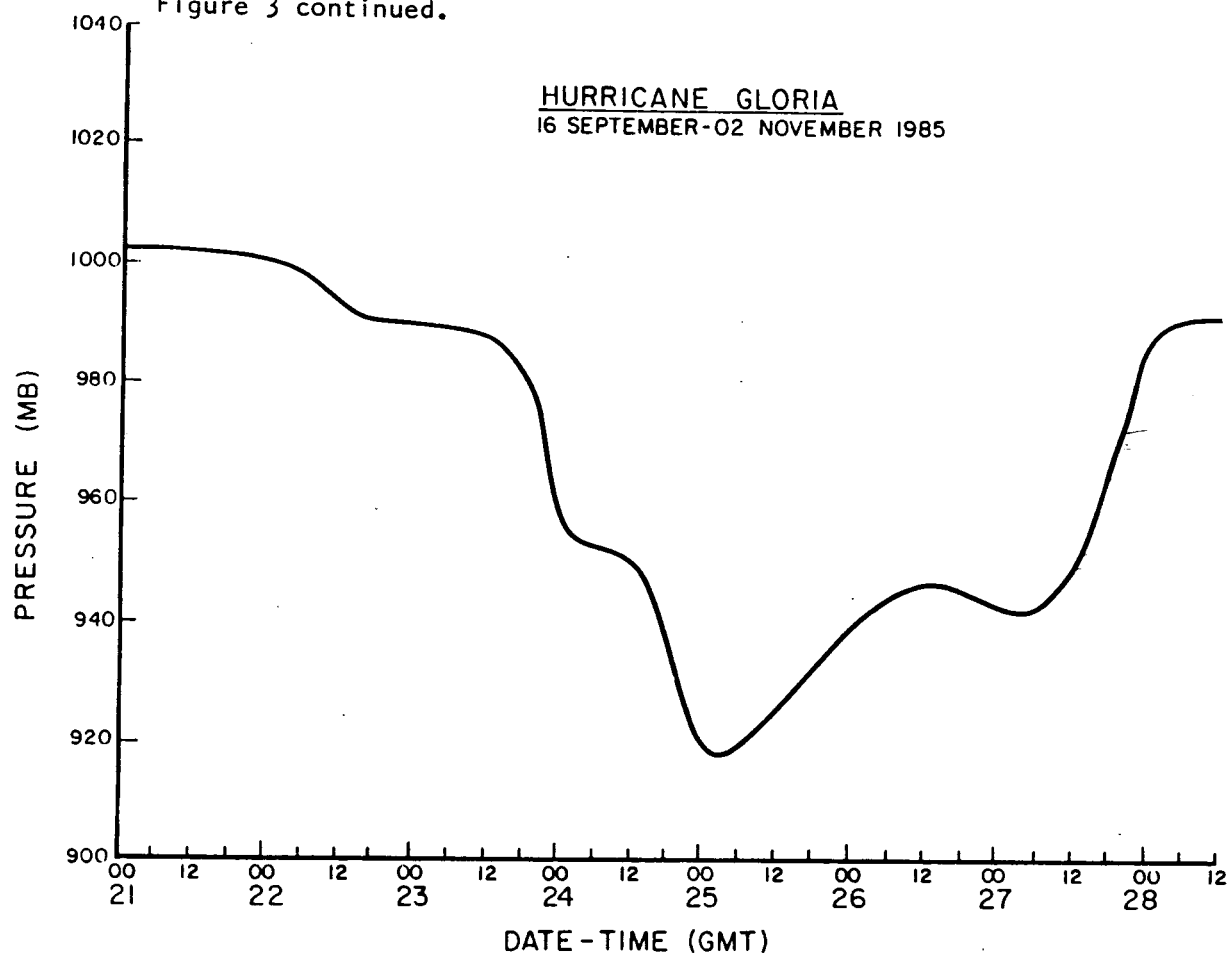


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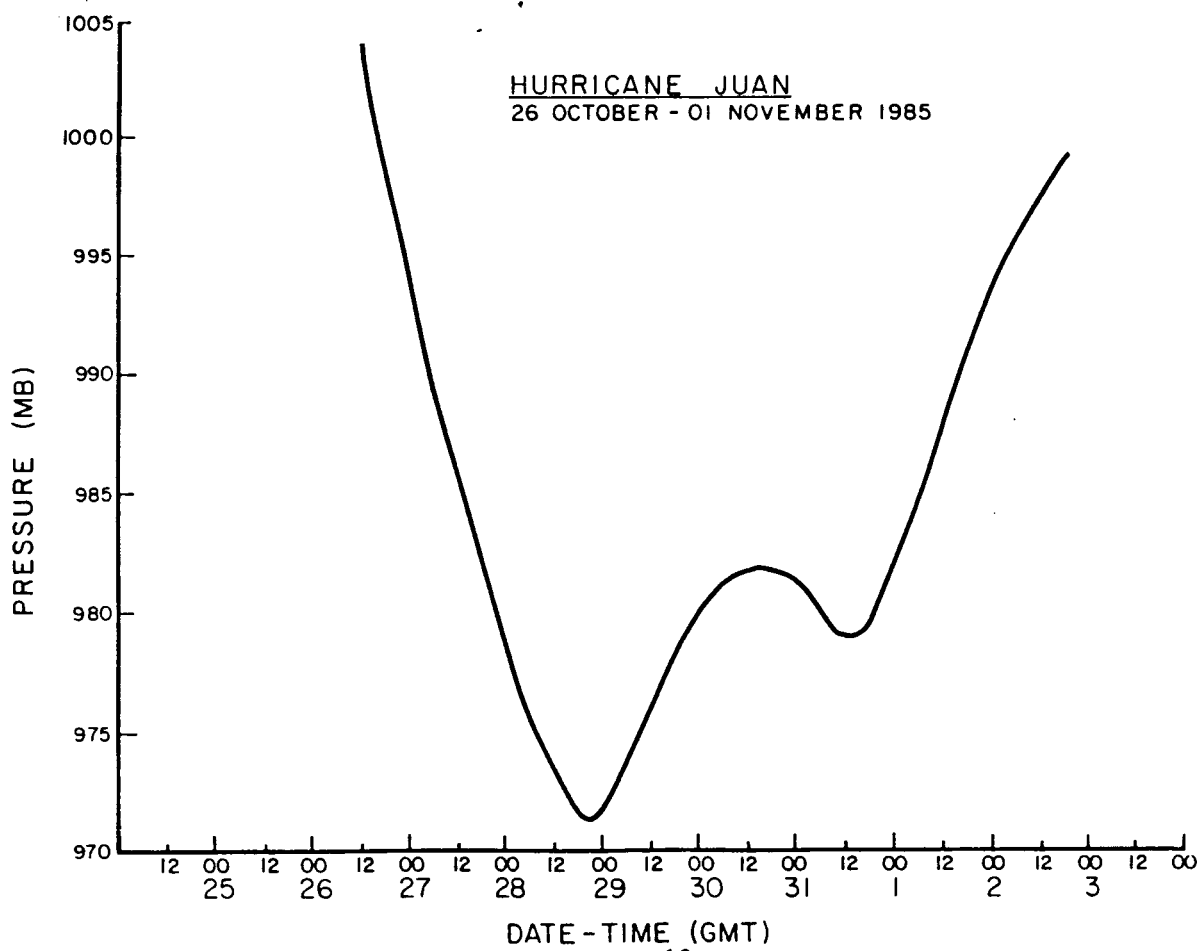
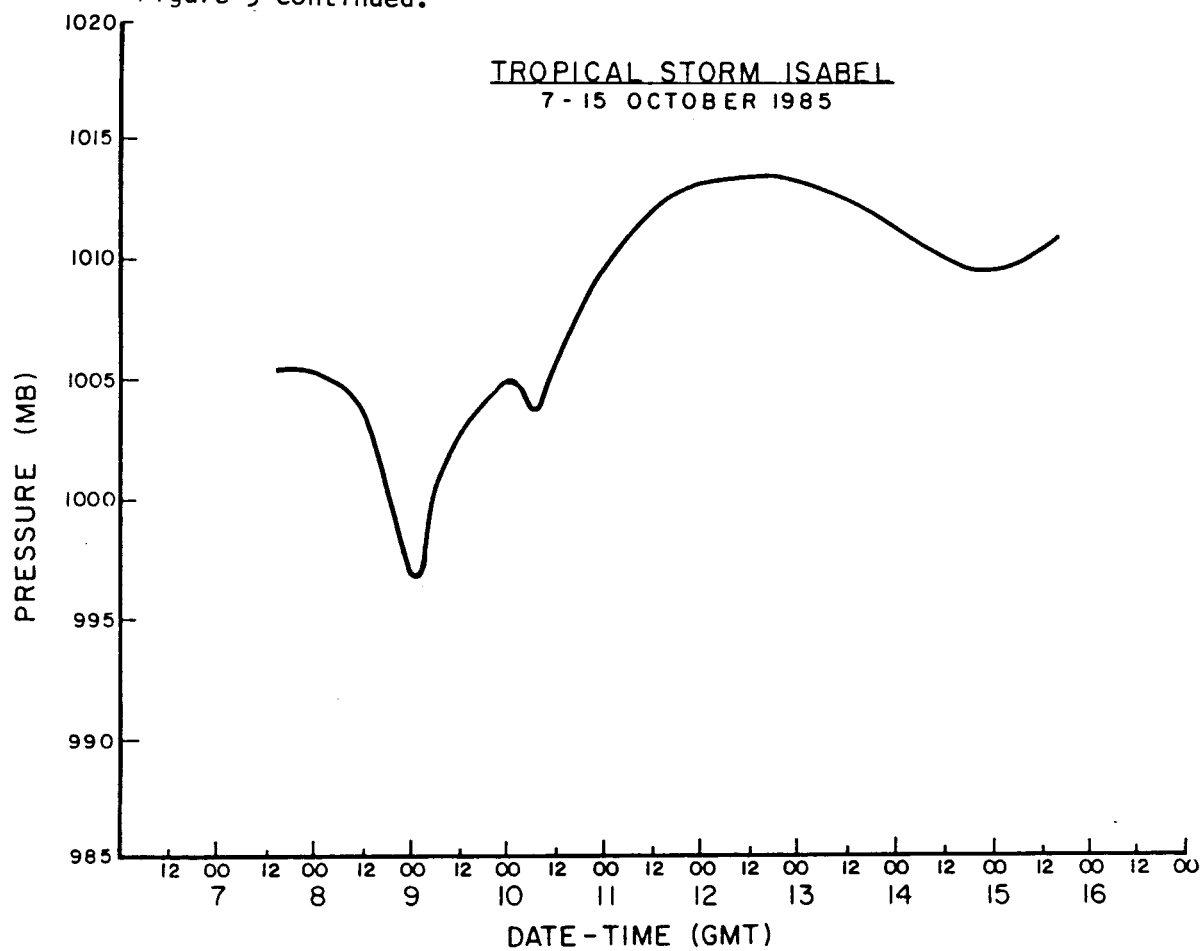


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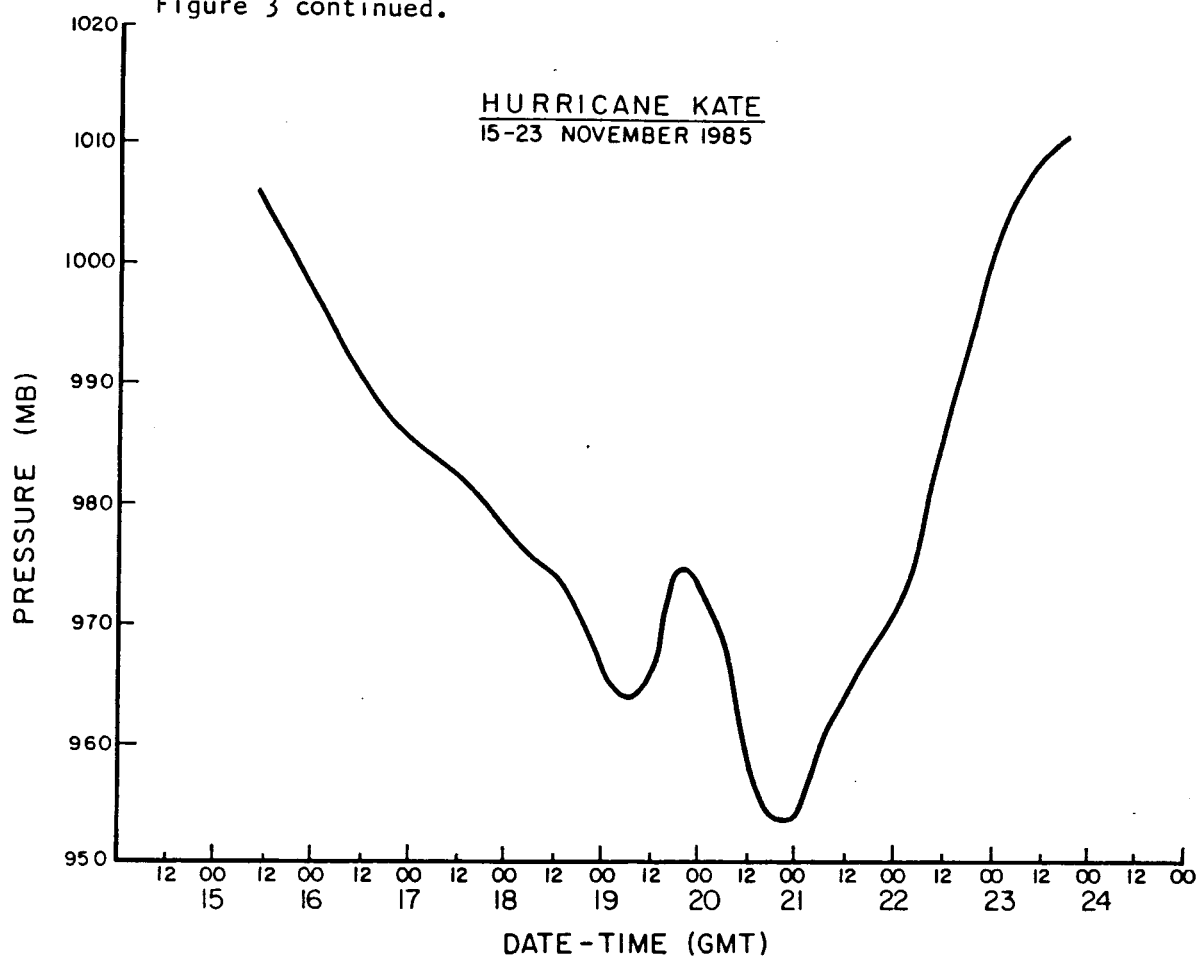


Table 1. Verification of 1985 tropical storm and hurricane forecasts.

model	initial	forecast period (hours)			
		12	24	48	72
Official (no. of cases)	17 (175)	50 (173)	104 (150)	217 (105)	331 (68)
NHC67	16 (166)	52 (166)	116 (146)	256 (106)	449 (72)
NHC72	17 (176)	56 (174)	128 (150)	279 (110)	406 (77)
HURRAN	19 (67)	51 (65)	113 (53)	221 (39)	268 (31)
CLIPER	17 (176)	55 (174)	125 (150)	275 (110)	416 (77)
NHC73	16 (77)	51 (77)	110 (68)	257 (48)	473 (31)
SANBAR	16 (75)	50 (75)	108 (62)	256 (42)	400 (27)
MFM	10 (53)	62 (53)	88 (48)	140 (34)	210 (21)
NHC83		50 (147)	93 (126)	195 (89)	296 (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 point determined 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	7/24/00Z (moved offshore)	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	1 Class	2 Dates	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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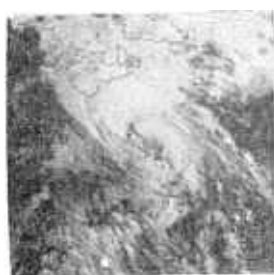
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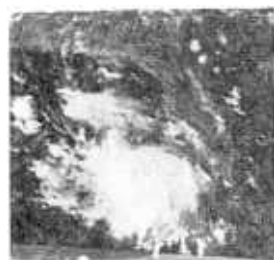
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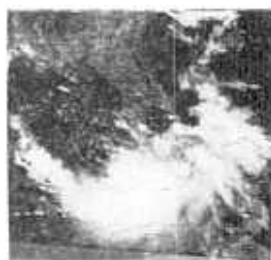
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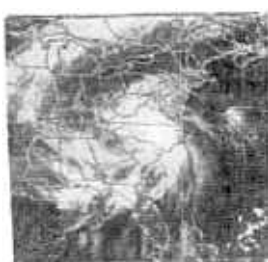
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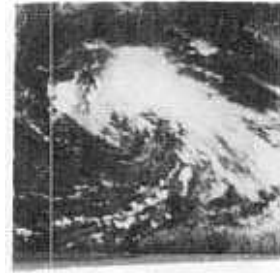
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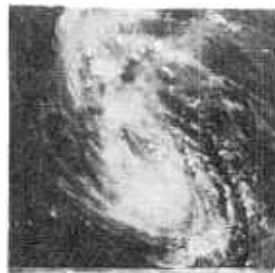
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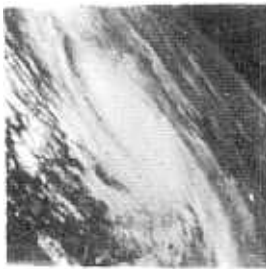
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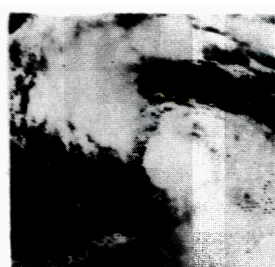


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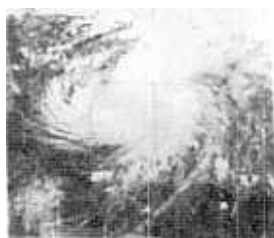
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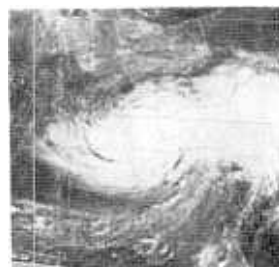
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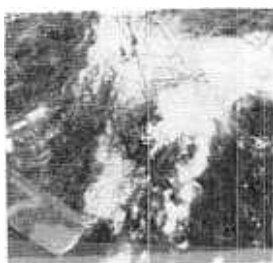
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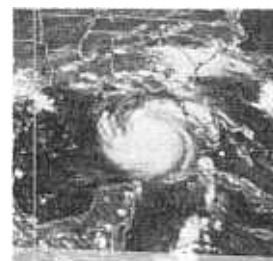
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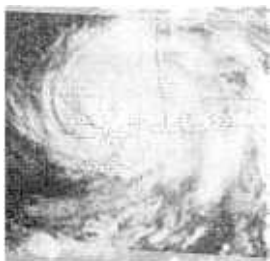


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1801 GMT 9/15/85
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1601 GMT 9/16/85
1004 mb



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

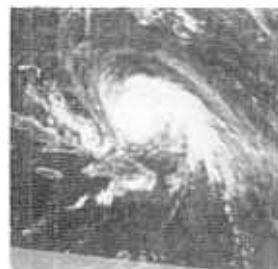
Figure continued



1501 GMT 9/22/85



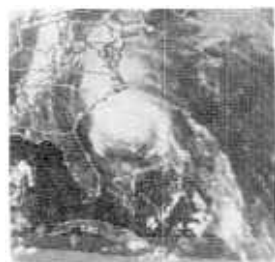
1501 9/23/85
984 mb



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



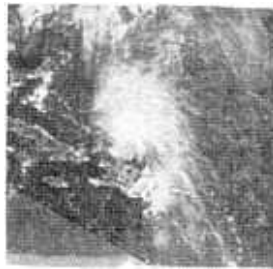
1401 GMT 9/23/85
996 mb



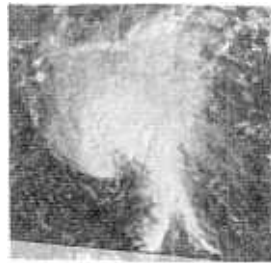
1601 GMT 9/24/85
1006 mb

Figure 4 continued

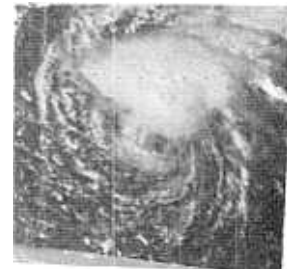
ISABEL



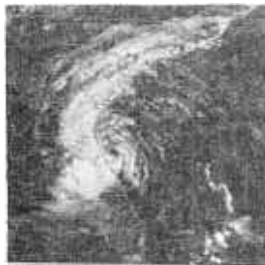
1901 GMT 10/7/85
1005 mb



331 GMT 10/08/85
1002 mb



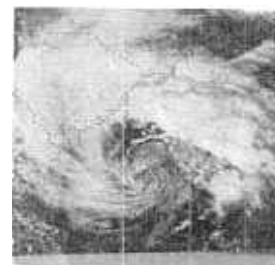
2001 GMT 10/09/85
1004 mb



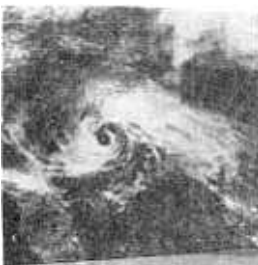
163 GMT 10/10/85
1008 mb



1901 GMT 10/11/85
1013 mb



1901 GMT 10/12/85
1013 mb

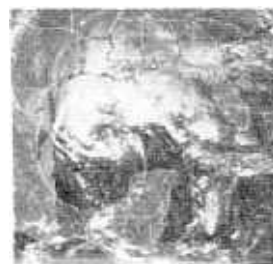


1730 GMT 10/13/85
1013 mb

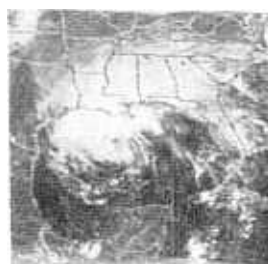


1531 GMT 10/14/85
1010 mb

JUAN



1830 GMT 10/26/85
996 mb



1830 GMT 10/27/85
984 mb



1800 GMT 10/28/85
971 mb

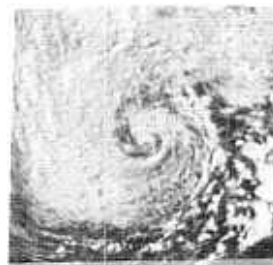
Figure 4 continued



1700 GMT 10/29/85
976 mb



1830 GMT 10/30/85
982 mb



1430 GMT 10/31/85
980 mb

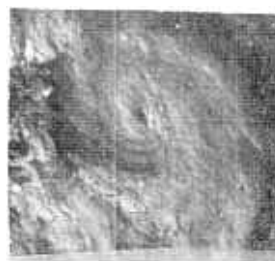
KATE



1831 GMT 11/15/85
999 mb



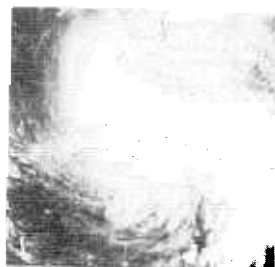
1701 GMT 11/16/85
987 mb



2001 GMT 11/17/85
977 mb



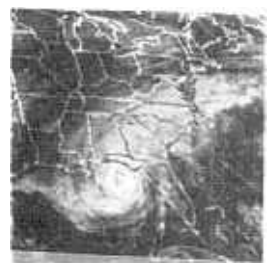
401 GMT 11/18/85
974 mb



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

JUL 16-JUL 19 1955

JUL 22-JUL 25 1935

NUMBER OF CASES 10 33 118 0 253 8

CLAUDETTE AUG 11-AUG 16 1935

MEAN VECTOR ERRORS (NM)	25	47	108	0	239	498
NUMBER OF CASES	21	21	20	8		

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

AUG 14-AUG 16 1985

[illegible]

AUG 28-SEP 02 1985

[illegible]

SEP 17-SEP 19 1985

DATE/TIME		BEST TRACK		OPERATIONAL POSITION		12HR FORECAST		12HR FORECAST		36HR FORECAST		48HR FORECAST		72HR FORECAST	
GHT		LAT. LONG.		LAT. LONG.		LAT. LONG. ERROR NM		LAT. LONG. ERROR NM		LAT. LONG. ERROR NM		LAT. LONG. ERROR NM		LAT. LONG. ERROR NM	
00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
02	02	02	02	02	02	02	02	02	02	02	02	02	02	02	02
03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03
04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04
05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05
06	06	06	06	06	06	06	06	06	06	06	06	06	06	06	06
07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07
08	08	08	08	08	08	08	08	08	08	08	08	08	08	08	08
09	09	09	09	09	09	09	09	09	09	09	09	09	09	09	09
10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MEAN VECTOR ERRORS (NM)						83		141		0		330		0	
NUMBER OF CASES						5		7		0		5		0	

MEAN VECTOR ERRORS (VM)	21	47	48	0	157	231
NUMBER OF CASES	34	32	28	0	27	34

SEP 23-SEP 24 1945

MEAN VECTOR ERRORS (NM)	14	43	75	8	3	8
NUMBER OF CASES	5	5	3			

OCT 28-OCT 10 1955

MEAN VECTOR ERRORS (NM)	11	33	55	77	99	122	155	188	222	255	288	322	355	388	422	455	488	522	555	588	622	655	688	722	755	788	822	855	888	922	955	988	1000
NUMBER OF CASES	11	33	55	77	99	122	155	188	222	255	288	322	355	388	422	455	488	522	555	588	622	655	688	722	755	788	822	855	888	922	955	988	1000

[illegible]

NOV 15-NOV 23 1985

[illegible]

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

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

Satellite

Classification confidence*, location and confidence**, visible 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, Vsb1,1 = classification confidence 1, location confidence 1, visible picture with 1 kilometer resolution.)

(Example-2,5, IR 8 = classification 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. 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	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	1009		23 23			AF	5/5	457M
10	16	2144	31.9 66.6	36	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	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	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	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. 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.
66	25	0532	32.7 80.8					10	eye good	CHS-R	-,3 IR 8	
67	25	0600	32.8 80.2							GOES 6		
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	eyes 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		700M
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					35	center poor	SAV-R		
61	25	0325	32.7 80.6						eye good	CHS-R		
62	25	0335	32.7 80.8		39					AF		700M
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. 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	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. 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	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	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. 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	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	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. 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.
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	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
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		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. 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	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		998	44				AF		457M
41	29	0804	24.4 83.9		998	28	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	994	58	24 26	C35	closed	NOAA	5/5	457M
48	29	1314	25.1 85.1		994	66			open north	NOAA		457M
49	29	1428	25.4 85.3	60	995	53	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		995	60				NOAA		850MB
52	29	1647	25.8 85.8		992	80				NOAA		850MB
53	29	1755	26.0 85.9	75	990	72	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	987	72	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	985	1293	17 21		poorly def.	NOAA	4/6	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.
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	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	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	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	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	977	2890				AF	5/5	700MB
94	31	0135	28.4 85.7		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		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		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		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		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	77	979			60	psbl center	TBW-R	2,5 IR 8					
122	31	0900	28.0 84.9							GOES 6						
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	95	975	1207	19 20	12	eye good	AQQ-R	3/3	850MB				
127	31	1010	28.5 84.8					20	eye fair	TBW-R						
128	31	1027	28.7 84.7					C40	closed	NOAA						
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	18	eye good	NOAA	3/3	850MB				
132	31	1132	28.6 84.6	77	979					AQQ-R						
133	31	1200	28.5 84.5							GOES 6						
134	31	1232	28.5 84.3							AQQ-R						
135	31	1252	28.5 84.4							TBW-R						
136	31	1254	28.8 84.4	75	97	975	1203	15	eye good	NOAA	3/3	850MB				
137	31	1305	28.5 84.2	70	73					AQQ-R						
138	31	1330	28.5 84.4							TBW-R						
139	31	1330	28.7 84.1							AQQ-R						
140	31	1400	28.8 84.1							AQQ-R						
141	31	1413	28.8 84.3	77	976	1219	20 23	C30	closed	NOAA	1,3 VIS 1	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							NOAA						
145	31	1500	28.8 84.1							GOES 6						
146	31	1500	28.8 84.0	75	974			16	eye fair	TBW-R	3/3	850MB				
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. 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	31	1625	28.9 84.1	65	975			20	eye good	AQQ-R	3/3	850MB
152	31	1630	28.8 84.1							NOAA		
153	31	1635	29.0 84.0						eye fair	TBW-R		
154	31	1725	28.9 84.1	80	975	1209	20 24	20	eye good	AQQ-R	3/3	850MB
155	31	1727	28.8 84.0						closed	NOAA		
156	31	1730	28.9 84.0						eye good	TBW-R		
157	31	1757	28.9 84.1	77	979			20	eye good	AQQ-R	1,3 VIS 1	
158	31	1800	28.9 84.1						eye good	TBW-R		
159	31	1800	29.0 84.0						eye good	GOES 6		
160	31	1825	28.9 84.1					17	eye good	AQQ-R	10/10	850MB
161	31	1835	28.9 84.1						eye good	TBW-R		
162	31	1900	28.8 84.0						eye poor	TBW-R		
163	31	1904	28.9 84.0					14	eye good	AQQ-R	10/10	850MB
164	31	1925	28.8 84.0						eye poor	AQQ-R		
165	31	1927	28.8 84.0						open sw	NOAA		
166	31	1930	28.8 84.0	80	973	1204	19 21	20	eye poor	TBW-R	10/10	850MB
167	31	2000	28.8 84.1						eye poor	TBW-R		
168	31	2005	29.0 84.0						eye poor	AQQ-R		
169	31	2015	28.8 83.9	77	973			16	center poor	NOAA	- ,3 VIS 1	850MB
170	31	2025	28.8 83.9						eye poor	AQQ-R		
171	31	2025	28.7 83.9						center poor	TBW-R		
172	31	2100	28.9 83.8	75	979			C25	center poor	AQQ-R	10/10	850MB
173	31	2100	28.8 83.8						closed	GOES 6		
174	31	2109	28.8 83.9						psbl center	NOAA		
175	31	2125	28.9 84.2	72	973	1198	17 21		center poor	TBW-R	10/10	850MB
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		973				center poor	NOAA	10/10	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	84	965	1131	17 23	15	eye good	AQQ-R	4/4	850MB
212	01	0533	28.6 83.9					15	eye good	TBW-R		
213	01	0554	28.7 84.0					E12/40/30	open nw	NOAA		
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	93	965	1125		10	eye good	AQQ-R		850MB
217	01	0630	28.6 84.0					20	eye good	TBW-R		
218	01	0643	28.6 84.0							NOAA		
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	88	964	1105	17 21	16	eye good	AQQ-R	5/5	850MB
222	01	0730	28.6 84.1					20	eye good	TBW-R		
223	01	0756	28.5 84.0					E/05/35/25	closed	NOAA		
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	77	979	1092	17 22	15	eye good	AQQ-R	2,4 IR 8 5/4	850MB
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							GOES 6		
230	01	0908	28.6 84.1					C35	closed	NOAA		
231	01	0910	28.6 84.1	95	963	1092		20	eye good	TBW-R		850MB
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		

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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.
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	115	948			18	eye good	TBW-R	2,1 VIS 1	
262	01	1758	29.0 84.9					15	eye good	AQQ-R		
263	01	1800	29.0 84.8							GOES 6		
264	01	1810	29.1 84.9					18	eye good	TBW-R		
265	01	1825	29.1 84.9	60	954	121		18	eye good	AQQ-R		850MB
266	01	1835	29.1 85.0					18	eye good	TBW-R		
267	01	1837	29.0 84.9							NOAA		
268	01	1851	29.1 84.9					20	eye good	AQQ-R		
269	01	1910	29.2 85.0	95	951			18	eye good	TBW-R		850MB
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							NOAA		
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	85	952	1000	20 23	15	eye good	AQQ-R	5/5	850MB
278	01	2027	29.1 85.1					C25	closed	NOAA		
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		14 17	C20	closed	AF	5/1	700MB
290	01	2308	29.3 85.7					20	eye good	NPA-R		

ENTER 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.
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	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	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	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. 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.
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		MAX WIND (KT)		MIN. PRES. (MB)	MIN. 700MB HT. (M)	TEMP. C		EYE C=CIR.DIA. E=ELIP. (N.MI.)	CHARACTER- ISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
			LAT.	LONG.	SFC.	FLT. LVL.			OUT	IN					
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. 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	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. 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	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	999		23 25	C15		AF	5/3	457M
25	21	1426	17.7 54.7	45	1001					AF		457M
26	21	1703	17.7 55.2	65	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		1000		26 25			AF	3/15	457M
30	22	0212	17.8 56.7		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. 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	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		942	2605	09 18			NOAA	5/5	700MB
94	26	0849	29.1 75.1		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		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		946	2647	11 16	C15	closed	NOAA	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		946	2641				NOAA		700MB
101	26	1735	31.4 76.2		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		944	2622				NOAA		700MB
104	26	1953	32.0 76.3		943	2612				NOAA		700MB
105	26	2033	32.2 76.2		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		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		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. LONG.	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	85	941	2605		10	eye good	HAT-R		700MB
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							NOAA		
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	89	941	2603	13 17	10	eye good	ILM-R	3/5 2,3 IR 8	700MB
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					C10	closed	NOAA		
132	27	0300	34.4 75.3							GOES 6		
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	74	941			10	eye good	ILM-R	2,1 IR 8	700MB
136	27	0330	34.3 75.8					10	eye good	HAT-R		
137	27	0400	34.8 75.8							NOAA		
138	27	0430	34.7 75.7					08	eye good	HAT-R		
139	27	0500	35.4 75.4							GOES 6		
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	103	942	2620	13 16	20	eye poor	ILM-R	5/5	700MB
143	27	0540	35.4 75.6					C15	open s	NOAA		
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	115	948				psbl eye	NHK-R	2,1 IR 8	
150	27	0900	37.0 75.0							GOES 6		

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	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. 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	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. 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	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		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	1003	44	23 24			AF	3/10	457M
10	08	1428	25.5 71.6		1004	25				AF		457M
11	08	1713	26.1 72.1	50	1002	55	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	999	70	24 24			NOAA		457M
14	08	2106	26.9 72.2	75	997	65	23 24		poorly def.	NOAA	5/5	457M
15	08	2348	27.1 72.7		1000	60	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		1002	65	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	1005	55	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	1004	65	23 24			NOAA	5/5	457M
23	09	1945	28.3 76.9	45	1004	45	23 24			NOAA	5/5	457M
24	09	2053	28.5 77.0	60	1005	28	22 24			NOAA	10/5	457M
25	09	2211	28.6 77.3		1006	50				NOAA		457M
26	09	2329	29.2 77.7		1005	70	22 25			NOAA	10/10	457M
27	09	2340	28.9 77.3		1005	57	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	23 21			AF	4/5	850MB
30	10	0239	29.2 78.5		1004	60	23 29			NOAA	10/10	457M

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.
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		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		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		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				NOAA		457M
43	10	1026	29.6 80.0					15	center poor	DAB-R		
44	10	1112	29.5 80.2	35	1006					NOAA		457M
45	10	1126	29.6 80.1					16	center poor	DAB-R		
46	10	1159	29.6 80.3	40	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	1009		22 25			NOAA	5/5	457M
49	10	1738	30.3 81.0	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	1008		22 25			NOAA	5/5	457M
52	10	2045	30.6 81.3	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. 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	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	65	987			30	psbl eye	GLS-R	2,4 VIS 1	
62	28	1755	29.2 92.8						psbl center	LCH-R		
63	28	1800	29.2 92.8							GOES 6		
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	45	50	971	17 19		center	LCH-R	5/5	850MB
72	28	2002	29.1 92.9							AF		
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							GOES 6		
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	55					psbl center	LCH-R	2,3 VIS 1	
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							GOES 6		
85	29	0030	29.0 92.5						psbl center	LCH-R		
86	29	0034	28.9 92.5					15 18	poorly def.	NOAA		
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					15 18	poorly def.	NOAA	10/10	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.
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					20	psbl center	LCH-R		
96	29	0359	28.8 92.1						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	55 55	994 974		16 18	20	center poor	SIL-R	2,2 IR 8 1/3	850MB
122	29	1155	29.6 91.2						psbl center	LCH-R		
123	29	1200	29.5 91.5							GOES 6		
124	29	1200	29.6 91.3							AF		
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	53	974		16 16		psbl center	LCH-R	1/3	850MB
132	29	1400	29.8 91.3					12	eye fair	SIL-R		
133	29	1419	29.9 91.4							AF		
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. 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	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. 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	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. LONG.	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.
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	999		22 22			AF	2/5	457M
7	15	2011	21.2 63.9	45	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	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	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		981		20 21	C20	closed	AF	3/5	457M
16	17	0151	20.5 66.1		982	1243				AF		850MB
17	17	0225	20.5 66.1		985	2933				AF		700MB
18	17	0501	20.6 66.4		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	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	982					AF		457M
23	17	1700	21.1 68.3	35	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		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		975		19 20	C20	closed	AF	2/3	850MB
30	18	0855	21.6 72.3		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	115	948			20	eye good	EYW-R	1,1 IR 8	850MB
62	20	0000	23.8 83.2							GOES 6		
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	100	972	1179		20	eye good	EYW-R	5/3	850MB
66	20	0119	24.0 83.7							AF		
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	1,1 IR 8	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							GOES 6		
73	20	0330	24.2 84.1	115	948			20	eye good	EYW-R	1,2 IR 8	850MB
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	115	948	1134	19 21	20	eye fair	EYW-R	7/3	850MB
78	20	0600	24.6 84.6					20	eye fair	EYW-R		
79	20	0600	24.6 84.4					C18	closed	GOES 6		
80	20	0605	24.6 84.5					30	eye fair	AF		
81	20	0630	24.6 84.7	115	963	1090	17 22	20	eye fair	EYW-R	1,2 IR 8	850MB
82	20	0702	24.7 84.8						psbl center	EYW-R		
83	20	0800	24.8 85.1					C17	closed	AF		
84	20	0813	24.7 85.0							GOES 6		
85	20	0900	24.9 85.0	115	963	1092	19 22	C12	closed	AF	3/3	850MB
86	20	0953	24.9 85.0					E36/18/12	closed	AF		
87	20	1142	25.2 85.2							GOES 6		
88	20	1230	25.2 85.5							GOES 6		
89	20	1500	25.5 85.6	115	948					GOES 6	1,1 VIS 1	850MB
90	20	1507	25.5 85.8					C13	closed	AF		

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	67	962	2755		25	eye good	NPA-R		700MB			
122	21	1001	28.1 86.6						eye good	AQQ-R					
123	21	1011	28.1 86.6							AF					
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	81	966	2758	12 14	E19/28/15	18	eye good	NPA-R	700MB			
132	21	1227	28.4 86.5						45	open e	AF		5/2		
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		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	75	965	2778	13 13	25	eye good	AQQ-R	5/3 2,5 VIS 1	700MB			
144	21	1434	28.6 86.3						65				AF		
145	21	1500	28.5 86.2						90				GOES 6		
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. 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	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		1003	1415	14 13		poorly def.	AF	5/10	850MB
199	23	0233	34.3 75.0		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		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

MINOP HEADING (Completed by monitors only)

UR _____ 12 _____

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

AF _____

SUPPLEMENTARY VORTEX DATA MESSAGE					LEGEND
00 (L ₀ L ₀ L ₀)	0 (L ₀ L ₀ L ₀ L ₀)	0 (iHHH)	0 (TTT _d T _d)	0 (ddfff)	00/0 = INDICATORS FOR DATA COLLECTED APPROX 100NM FROM SYSTEM CENTER
80	8	8	8		80/8 = INDICATORS FOR DATA COLLECTED APPROX 80NM FROM SYSTEM CENTER
60	6	6	6		60/6 = INDICATORS FOR DATA COLLECTED APPROX 60NM FROM SYSTEM CENTER
45	4	4	4		45/4 = INDICATORS FOR DATA COLLECTED APPROX 45NM FROM SYSTEM CENTER
30	3	3	3		30/3 = INDICATORS FOR DATA COLLECTED APPROX 30NM FROM SYSTEM CENTER
15	1	1	1		15/1 = INDICATORS FOR DATA COLLECTED APPROX 15NM FROM SYSTEM CENTER
CC	C	C	C	(YYGGgg)	CC/C = INDICATORS FOR DATA COLLECTED AT THE SYSTEM CENTER
(fff)	(BBRRR)	(ddd)			ddd = TRUE DIRECTION IN TENS OF DEGREES OF STORM MOTION
MF (L ₀ L ₀ L ₀)	(L ₀ L ₀ L ₀ L ₀)	AZ (iHHH)	(TTT _d T _d)	(ddfff)	MF = INDICATOR FOR MAX FLIGHT LEVEL WIND OBSERVED
15	1	1	1		AZ = INDICATOR FOR TRUE DIRECTION STORM MOTION
30	3	3	3		fff = SPEED OF WIND IN KNOTS
45	4	4	4		dd = TRUE DIRECTION OF FLIGHT LEVEL WIND SPEED IN TENS OF DEGREES
60	6	6	6		BBRRR = BEARING (BB) AND RANGE (RRR) FROM CENTER OF MF
80	8	8	8		YYGGgg = ZULU DATE/TIME OF CENTER
00	0	0	0		TTT _d T _d = TEMP/DEWPOINT IN DEGREES CELSIUS; ADD 50 FOR NEGATIVE VALUES
(fff)	(BBRRR)				iHHH = PRESSURE HEIGHT DATA IN REC FORMAT
MF					L ₀ L ₀ L ₀ = LATITUDE IN DEGREES/TENTHS
REMARKS (End of message)					L ₀ L ₀ L ₀ L ₀ = LONGITUDE IN DEGREES/TENTHS
					/ = 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 11000 11010 35108
 CC177 C0876 C3947 C1811 241647
 MF148 27003 A2310
 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 14 TO KMIA ETA KBIX 241930Z

APPENDIX A CODE FOR SUPPLEMENTARY VORTEX DATA MESSAGE.

PREPARED BY

TRANSMISSION TIME

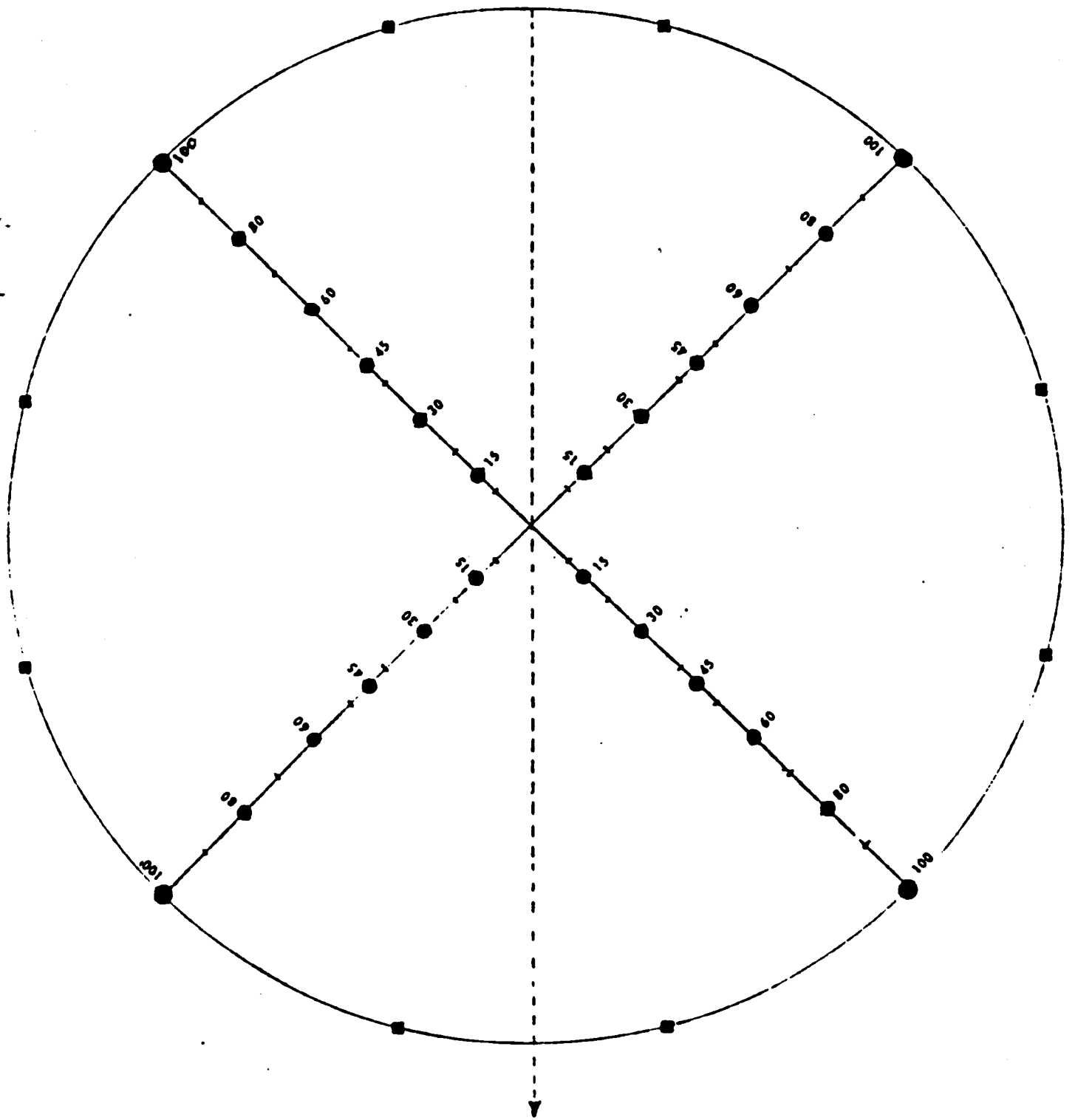


Table 7. Supplementary vortex data messages, 1985 tropical cyclones.

ZCZC MFC731
URNT12 KNIA 162044
AF985 0101 ANA OB 15 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01315 10668 10009 12222 02004
02317 20666 20009 22221 05003
03319 30664 30009 32222 07006
04320 40652 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 MNT TURB 45N OUTBOUND
LGT RA OUTBOUND:

ZCZC MFC737
URNT12 KNIA 162300
AF985 0101 ANA OB 19 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01324 10694 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 60010 62222 36013
07318 70667 70011 72221 34019
MF320 M0681 MF031
OBS 01 AT 2104Z OBS 07 AT 2132Z
OBS 07 SFC WND 04020
REMARKS 319 666 008:

ZCZC MFC837
URNT12 KNIA 171410
AF977 0201 ANA OB 11 KNIA
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 MFC947
URNT12 KNIA 171550
AF977 0201 ANA OB 14 KNIA
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 MFC981
URNT12 KNIA 171905 COR
AF968 0301 ANA OB 07 COR KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01351 10695 10015 12220 29017
02351 20692 20014 22318 33017
03353 30688 30013 32119 30009
04355 40686 40013 42018 28011
05356 50683 50011 52221 31020
06357 60679 60010 62120 36018
07356 70676 70009 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 1809Z OBS 07 AT 1831Z
OBS 07 SFC WND 1804Z
REMARKS 354 673 006
LT TURB 60NM TO 145NM OUTBOUND:

ZCZC MFC869
URNT12 KNIA 172120
AF968 0301 ANA OB 10 KNIA
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 1914Z 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 MFC915
URNT12 KNIA 180210
AF969 0401 ANA OB 07 KNIA
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 MF034
OBS 01 AT 0104Z OBS 07 AT 0134Z
OBS 07 SFC WND 07030
REMARKS 374 666 004:

ZCZC MFC923
URNT12 KNIA 180408
AF969 0401 ANA OB 10 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01374 10699 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
07378 70672 70007 72320 31015
08382 80670 80006 82220 34018
MF373 M0676 MF041
OBS 01 AT 0213Z OBS 08 AT 0251Z
OBS 08 SFC WND 07030
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 07030
REMARKS 384 667 005:

ZCZC MFC933
URNT12 KNIA 180605 COR
AF969 0401 ANA OB 13 COR KNIA
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 07030
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 07030
REMARKS 389 661 004:

ZCZC MFC976
URNT12 KNIA 181352
AF985 0501 ANA OB 08 KNIA
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 0703Z OBS 07 AT 0703Z
OBS 01 SFC WND 07030
01413 10640 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 MFC986
URNT12 KNIA 181655
AF985 0501 ANA OB 11 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01412 10661 10013 11818 35027
02412 20658 20009 21917 35021
03410 30655 30007 31915 36053
04409 40652 40008 42018 36069
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 50003 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 414 637 999:

ZCZC MFC995
URNT12 KNIA 181802
AF985 0501 ANA OB 14 KNIA
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

ZCZC WRC097
 URNT12 KNIA 231325
 AF977 0402 BOB OB 04 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01265 10344 10013 12422 33017
 02265 20942 20013 22422 32019
 03266 30839 30012 32422 32019
 04268 40835 40011 42422 33017
 05267 50829 50011 52422 03016
 06267 60829 60010 62422 03021
 07267 70827 70009 72422 02029
 08265 80824 80007 82422 02030
 MF265 M0824 MF030
 OBS 01 AT 11302 OBS 03 AT 12062
 OBS 01 SFC WND 36015
 01262 10823 10008 12423 30026
 02259 20827 20010 22423 27026
 03257 30825 30011 32423 27026
 04253 40822 40012 42422 25023
 05251 50821 50012 52422 23039
 06249 60825 60014 62422 25034
 07247 70823 70014 72420 25023
 MF251 M0821 MF030
 OBS 01 AT 12252 OBS 07 AT 13112
 OBS 07 SFC WND 24023
 REMARKS 264 822 005 BETWEEN 50 AND
 60 NM S OF CENTER OF CIRC. GUST
 45KTS NOTED BENEATH CONVECTIONS
 ZCZC WRC428
 URNT12 KNIA 221928
 AF968 0202 CYCLONE OB 07 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01277 10840 10013 12819 08015
 02273 20840 20012 22318 08015
 03270 30941 30011 32219 07020
 04269 40841 40010 42321 06020
 05265 50840 50009 52421 07015
 06263 60840 60007 62422 06008
 MF271 M0841 MF020
 OBS 01 AT 17512 OBS 06 AT 18172
 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 18402 OBS 07 AT 19102
 OBS 07 SFC WND 24030
 REMARKS 261 840 005;
 ZCZC WRC434
 URNT12 KNIA 222151
 AF968 0202 BOB OB 10 KNIA
 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 19552 OBS 05 AT 20152
 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 21422 OBS 07 AT 21322
 OBS 07 SFC WND 35010
 REMARKS 260 833 005;

ZCZC WRC475
 URNT12 KNIA 230133
 AF972 0302 BOB OB 04 KNIA
 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 23202 OBS 09 AT 23562
 OBS 01 SFC WND 34015
 01263 10831 10005 12420 22029
 02263 20825 20008 22222 18029
 MF263 M0825 MF029
 OBS 01 AT 00202 OBS 02 AT 00252
 OBS 02 SFC WND 18035
 REMARKS 263 833 004;
 ZCZC WRC544
 URNT12 KNIA 231532
 AF977 0402 BOB OB 06 KNIA
 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 14072 OBS 08 AT 14432
 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 14552 OBS 07 AT 15262
 OBS 07 SFC WND 03010
 REMARKS 264 822 005
 REF CENTER OVER LAND;
 ZCZC WRC546
 URNT12 KNIA 240640
 AF972 0502 BOB OB 04 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01280 10802 10007 12119 23034
 02279 20800 20008 22119 22033
 03278 30798 30010 32119 21020
 04276 40796 40010 42219 23019
 05273 50794 50011 52219 22042
 06271 60792 60012 62419 21039
 07270 70791 70012 72419 19036
 MF272 M0793 MF043
 OBS 01 AT 05352 OBS 07 AT 06042
 OBS 07 SFC WND 11015
 REMARKS 282 804 0050

ZCZC WRC631
 URNT12 KNIA 240835
 AF972 0502 BOB OB 03 KNIA
 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 06462 OBS 05 AT 07062
 OBS 01 SFC WND 11015
 REMARKS 298 805 006
 LAST REPORT OBS 0109 TO KNIA
 ETA KNIX 24-1030Z;
 ZCZC WRC669
 URNT12 KNIA 241250 COR 02
 AF969 0602 BOB OB 03 COR 02 KNIA
 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 11021
 MF301 M0802 MF034
 OBS 01 AT 10592 OBS 07 AT 11302
 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 12002 OBS 07 AT 12282
 OBS 07 SFC WND 22010
 REMARKS 293 804 003;
 ZCZC WRC672
 URNT12 KNIA 241459
 AF969 0602 BOB OB 06 KNIA
 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 60798 60010 62220 17053
 07296 70800 70006 72322 16047
 MF295 M0798 MF053
 OBS 01 AT 13112 OBS 07 AT 13382
 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 14022 OBS 07 AT 14302
 OBS 07 SFC WND 07015
 REMARKS 298 804 004
 FLIGHT LEVEL WND 19047 SFC WND 18050 AT 293N 787W;

ZCZC WRC693
 URNT12 KNIA 241630 COR
 AF969 0602 BOB OB 08 COR KNIA
 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 70007 72321 08035
 MF309 M0805 MF044
 OBS 01 AT 14552 OBS 07 AT 15222
 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
 06295 60803 60014 62321 25012
 07283 70803 70014 72321 24012
 MF298 M0804 MF036
 OBS 01 AT 15432 OBS 07 AT 16142
 OBS 07 SFC WND 22015
 REMARKS 301 804 004;
 ZCZC WRC691
 URNT12 KNIA 241812
 AF969 0602 BOB OB 11 KNIA
 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 16442 OBS 07 AT 17212
 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 17392 OBS 04 AT 17502
 OBS 04 SFC 02016
 REMARKS 303 804 003
 FLIGHT LEVEL WND 17060 SFC WND 17057
 ETA KNIX 24-1935Z LAST REPORT OBS 0
 ZCZC WRC771
 URNT12 KNIA 250222 COR 02
 AF967 0802 BOB OB 05 COR 02 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01320 10803 10005 12321 19042
 02320 20801 20009 22321 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 01222 OBS 07 AT 01552 OBS
 REMARKS 320 806 003
 MAX WIND LOCATED IN FEEDER BAND 48NM
 EAST OF CENTER, FL 015;

19
 URNT12 KNIA 101340 COR
 AF363 0103 CYCLONE OB 09 COR KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 1331 10755 10007 12321 00003
 1331 20755 20009 22321 22115
 1329 30755 30009 22321 25013
 1325 40755 40013 22121 22021
 1324 50755 50013 22420 24021
 1321 60755 60010 22221 25013
 1313 70755 70011 22421 24015
 1323 80755 80021
 R 21 AT 15247 OBS 07 AT 15542
 S 07 SFC WND 25015
 REMARKS 333 756 334;

20 WBC725
 URNT12 KNIA 101845
 AF363 0103 CYCLONE OB 11 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 1337 10735 10011 12318 15010
 1337 20738 20009 22221 16035
 1337 30741 30009 22321 19017
 1337 40744 40009 22321 17017
 1337 50747 50008 22321 18018
 1336 60750 60007 22421 19018
 1336 70753 70007 22321 20009
 S 01 AT 16372 OBS 07 AT 17102
 S 07 SFC WND 16010
 1335 10759 10008 12321 34025
 1335 20762 20009 22320 33016
 1335 30765 30010 22320 01010
 1335 40768 40011 22320 36009
 1335 50771 50011 22220 34010
 1336 60774 60011 22320 32014
 1335 70777 70011 22319 32013
 S 01 AT 17442 OBS 07 AT 18122
 S 07 SFC WND 36005
 REMARKS 336 754 007

20 WBC765
 URNT12 KNIA 110207
 AF368 0203 CYCLONE OB 03 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 1440 10756 10010 12318 36030
 1440 20753 20009 22318 36033
 1440 30750 30011 22219 36028
 1440 40747 40011 22219 03028
 1339 50744 50009 22319 02021
 1440 60753 60033
 S 01 AT 22542 OBS 05 AT 23192
 S 01 SFC WND 01030
 1338 10736 10010 12320 27015
 1338 20734 20011 22319 22015
 1338 30731 30011 22320 19035
 1338 40728 40012 22420 19020
 1338 50725 50014 22320 20020
 1338 60722 60014 22320 19025
 1338 70719 70015 22222 18030
 1338 80731 80035
 S 01 AT 23512 OBS 07 AT 00182
 S 07 SFC WND 11011
 REMARKS 342 733 009

2020 WBC785
 URNT12 KNIA 110328
 AF968 0203 CYCLONE OB 06 KNIA
 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
 AF346 60734 AF035
 OBS 01 AT 01402 OBS 05 AT 02002
 OBS 01 SFC WND 11011
 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

AF230 80733 AF026
 OBS 01 AT 02312 OBS 07 AT 03032
 OBS 07 SFC WND 11011
 REMARKS 342 733 009
 ONCL LGT T3 AND LTNG OUTBOUND
 2020 WBC851
 URNT12 KNIA 110630 COR
 AF968 0203 CYCLONE OB 09 COR KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01347 10706 10017 12118 16026
 02347 20703 20017 22219 11031
 03347 30712 30016 22219 11043
 04346 40714 40016 42120 11035
 05343 50717 50013 52321 16034
 06343 60721 60010 62321 17024
 07343 70724 70010 72321 17028
 08343 80727 80010 82321 16020
 AF347 90712 AF043
 OBS 01 AT 04242 OBS 08 AT 05002
 OBS 01 SFC WND 11011
 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

AF342 80738 AF027
 OBS 01 AT 05202 OBS 07 AT 05462
 OBS 07 SFC WND 11011
 REMARKS 342 729 009
 ONCL LGT T3 AND LTNG INBOUND
 2020 WBC941
 URNT12 KNIA 111227
 AF963 0303 CYCLONE OB 04 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01341 10736 10010 12220 34040
 02341 20734 20008 22120 35035
 03342 30731 30007 22220 36039
 04342 40728 40005 42320 36034
 05343 50724 50002 52321 34035
 06345 60721 60002 62421 35017
 07346 70718 70004 72421 28006
 AF341 80736 AF040
 OBS 01 AT 11082 OBS 07 AT 11442
 OBS 01 SFC WND 35025
 REMARKS 342 721 002;

2020 WBC970
 URNT12 KNIA 111253
 AF963 0303 CYCLONE OB 05 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01345 10718 10003 12321 22006
 02346 20715 20004 22321 23110
 03347 30712 30004 32421 22020
 04347 40702 40005 42321 21019
 05347 50705 50006 52421 19021
 06348 60703 60007 62321 18020
 07348 70700 70008 72320 18019
 AF348 80704 AF025
 OBS 01 AT 12122 OBS 07 AT 12402
 OBS 07 SFC WND 99005
 REMARKS 342 721 002

2020 WBC996
 URNT12 KNIA 111518
 AF963 0303 CLAUDETTE OB KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 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
 AF351 80716 AF050
 OBS 01 AT 13282 OBS 07 AT 13592
 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
 AF329 80717 AF033
 OBS 01 AT 14292 OBS 07 AT 15052
 OBS 07 SFC WND 26025
 REMARKS: 346 711 002

2020 WBC409
 URNT12 KNIA 111739
 AF963 0303 CLAUDETTE 11 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 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
 AF347 80700 AF035
 OBS 01 AT 15582 OBS 07 AT 16302
 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
 AF344 50722 AF028
 OBS 01 AT 17052 OBS 04 AT 17202
 OBS 04 SFC WND 34030
 REMARKS 346 713 002;

0214
 URNT12 KNIA 120145
 AF553 0403 CLAUDETTE 34 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01350 10713 10011 12219 01015
 02351 20711 20010 22318 01039
 03351 30713 30010 32219 05043
 04350 40715 40008 42217 03043
 05348 50702 50005 52220 02043
 06349 60698 60003 62320 01025
 07349 70395 70000 72421 03029
 AF346 80722 AF043
 OBS 21 AT 00057 OBS 27 AT 00272
 OBS 27 SFC WND 22010
 01349 10386 10004 12419 14018
 02349 20491 20004 22420 14025
 03349 30591 30005 32421 1302
 04348 40378 40005 42420 17024
 05348 50675 50007 52420 17023
 06348 60672 60007 62420 19021
 07349 70670 70008 72420 17028
 AF349 80570 AF029
 OBS 01 AT 00562 OBS 07 AT 01257
 OBS 27 SFC WND 11011
 REMARKS 348 352 000
 ONCL LTNG OUTBOUND TO 75NM;

2020 WBC369
 URNT12 KNIA 120406
 AF553 0403 CLAUDETTE 07 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01365 10692 11011 12219 06026
 02363 20693 21011 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
 AF356 800 AF061
 OBS 01 AT 02132 OBS 07 AT 02452
 OBS 07 SFC WND 11011
 01346 10684 10002 12739 23016
 02343 20684 20004 22320 22031
 03341 30684 30005 32318 22032
 04338 40683 40006 42319 25032
 05336 50683 50006 52319 25031
 06333 60683 60007 62319 25035
 07330 70683 70008 72319 23033
 AF333 80683 AF035
 OBS 01 AT 03052 OBS 07 AT 03372
 OBS 07 SFC WND 11011
 REMARKS 548 685 000
 DOPPLER ATTENUATED AT 05 INBOUND;

2020 WBC421
 URNT12 KNIA 120700
 URNT12 KNIA COR
 AF553 0403 CLAUDETTE OB 10 COR KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01349 10664 10007 12420 18023
 02349 20666 20006 22420 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
 AF350 80675 AF041
 OBS 01 AT 04182 OBS 07 AT 04462
 OBS 07 SFC WND: 11011
 01351 10687 10001 12220 36037
 02349 20690 20003 32116 20044
 03348 30693 30006 32017 35037
 04348 40696 40007 42117 36035
 05348 50699 50008 52218 35033
 06349 60702 60009 62217 36032
 07349 70705 70011 72115 35026
 AF349 80630 AF044

OBS 01 AT 05102 OBS 07 AT 05422
 OBS 07 SFC WND: 11011
 REMARKS 351 634 009

ZCZC 440577
 UPNT12 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 00670 MF060
 OBS 01 AT 1411Z OBS 10 AT 1451Z
 OBS 01 SFC WND 04030
 01339 10658 10399 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 00658 MF051
 OBS 01 AT 1533Z OBS 07 AT 1603Z
 OBS 07 SFC WND 29040
 REMARKS 342 660 997

ZCZC 440533
 UPNT14 KNIA 121714
 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 40003 42222 14014
 MF345 00639 MF031
 OBS 01 AT 1648Z OBS 04 AT 1704Z
 OBS 01 SFC WND 21020
 01345 10652 10000 12121 01040
 02346 20655 20005 22121 03054
 03347 30655 30006 32121 01055
 04346 40671 40007 42121 02044
 05349 50677 50010 52120 26034
 MF 347 00667 MF065
 OBS 01 AT 1735Z OBS 05 AT 1759Z
 OBS 05 SFC WND 05020
 REMARKS 344 653 997
 MAX SFC WND 02050 OUTBOUND 270
 DEG RADIAL 4547

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 00608 MF042
 OBS 01 AT 0126Z OBS 07 AT 0154Z
 OBS 01 SFC WND 00000
 REMARKS 346 628 995

ZCZC 440657
 UPNT14 KNIA 130451
 AF969 0503 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 00627 MF048
 OBS 01 AT 0244Z OBS 064AT 0320Z
 OBS 01 SFC WND 00000
 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 00621 MF035
 OBS 01 AT 0354Z OBS 07 AT 0422Z
 OBS 05 SFC WND 00000
 REMARKS 348 621 994

ZCZC 440356
 UPNT12 KNIA 130640
 AF969 0503 CLAUDETTE 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 50000 52221 29020
 06346 60621 60009 62220 29016
 07350 70619 70006 72220 30032
 08352 80617 80004 82321 34040
 MF341 00626 MF048
 OBS 01 AT 0505Z OBS 09 AT 0536Z
 OBS 01 SFC WND 00000
 REMARKS 353 616 990

ZCZC 440148
 UPNT14 KNIA 152303
 AF963 0703 CLAUDETTE OB 05 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01354 10369 13107 10006 27042
 02353 20367 23027 20045 2304
 03360 30365 33068 31202 30047
 04365 40362 43045 41004 30041
 05368 50359 53032 51006 30035
 MF362 00365 MF047
 OBS 01 AT 2102Z OBS 05 AT 2125Z
 OBS 01 SFC WND 00000
 01373 10359 13045 11205 34012
 02376 20359 23056 21007 99005
 03379 30360 33063 30007 34010
 04381 40351 43070 40005 12018
 05384 50360 53072 50003 14027
 06385 60350 63075 60003 14030
 07388 70360 73083 70002 16023
 MF386 00360 MF030
 OBS 01 AT 2159Z OBS 07 AT 2221Z
 OBS 07 SFC WND 00000
 REMARKS 371 356 0320

ZCZC WBC457
 URNT12 KNIA 120925
 AF967 06XX INVEST 08 12 KNIA
 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 136 921 010;

ZCZC WBC490
 URNT12 KNIA 121128
 AF967 0604 CYCLONE 08 14 COR KNIA
 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 136 921 010 INBOUND FROM NORTH, UNABLE TO
 LOCATE FLIGHT LEVEL CENTER THIS TIME THROUGH;

ZCZC WBC735
 URNT14 KNIA 131914
 AF972 0904 CYCLONE 08 05 KNIA
 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 60868 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 KNIA 132122
 AF972 0904 CYCLONE 08 08 KNIA
 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 PW AT 23.3N 86.5W;
 ZCZC WBC751
 URNT14 KNIA 140007
 AF972 0904 DANNY 08 11 KNIA
 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;

ZCZC WBC035
 URNT14 KNIA 140755
 AF966 1004 DANNY OB 03 KNIA
 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 AT 24.6N 89.4W 15024;

ZCZC WBC785
 URNT14 KNIA 140944
 AF966 1074 DANNY OB 06 KNIA
 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 0948Z OBS 03 AT 0900Z
 OBS 03 SFC WND /////
 REMARKS 247 899 130;

ZCZC WBC914
 URNT14 KNIA 141247
 AF966 1004 DANNY OB 11 KNIA
 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 KNIA 150204
 AF967 1204 DANNY OB 03 KNIA
 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 KNIA 150404
 AF967 1204 DANNY OB 06 KNIA
 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 KNIA 150551
 AF967 1204 DANNY OB 09 KNIA
 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;

ZCZC WBC783
URNT14 KNIA 290636
AF972 1105 ELENA 03 10 KNIA
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 W0830 MF050

OBS 01 AT 0548Z OBS 07 AT 0618Z
OBS 01 SFC WND /////
REMARKS 240 933 002:

ZCZC WBC792

URNT12 KNIA 290751
AF980 0705 ELENA 03 12 KNIA
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 MN
H. 999MB EXTRAPOLATED:

ZCZC WBC793
URNT14 KNIA 290810
AF980 0507 ELENA 03 13 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE

01261 10838 10012 12522 09028
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 W0839 MF044

OBS 01 AT 0705Z OBS 07 AT 0733Z
OBS 01 SFC WND /////
01240 10838 10004 12323 24028
02239 20837 20006 22423 21016
MF240 W0838 MF028
OBS 01 AT 0745Z OBS 02 AT 0749Z
OBS 02 SFC WND /////
REMARKS 243 839 398:

ZCZC WBC155

URNT14 KNIA 301055
AF972 1105 ELENA 03 04 KNIA
SUPPLEMENTAL VORTEX DATA MESSAGE

01282 10852 12483 11508 17071
02282 20854 22464 21511 17070
03282 30858 32425 31612 17067
04282 40861 42393 41612 17067
05282 50863 52324 51614 18072
MF282 W0853 MF072

OBS 01 AT 1659Z OBS 05 AT 1716Z OBS 01 SFC WND 17085
01282 10871 12241 12422 35045
02282 20873 22314 22205 35057
03281 30876 32399 317// 36054
04281 40873 42430 416// 36043
05281 50882 52451 517// 01040
06281 60885 62463 617// 01039
07281 70889 72478 718// 01025
MF282 W0873 MF057
OBS 01 AT 1759Z OBS 07 AT 1827Z OBS 07 SFC WND 35035

ZCZC WBC004

URNT14 KNIA 302121 COR
AF972 1105 ELENA 03 08 COR KNIA
SUPPLEMENTAL VORTEX DATA MESSAGE

01264 10866 12480 11912 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 W0867 MF068

OBS 01 AT 1936Z OBS 07 AT 2003Z OBS 01 SFC WND 22050
01285 10866 12272 12215 06051
02289 20866 22331 21814 08053
03292 30866 32392 31814 09057
04296 40866 42420 41714 09047
MF292 W0866 MF057
OBS 01 AT 2042Z OBS 04 AT 2058Z OBS 04 SFC WND 07100
REMARKS 284 867 230:

ZCZC WBC021

URNT14 KNIA 302219
AF972 1105 ELENA 03 11 KNIA
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 W0871 MF054

OBS 01 AT 2121Z OBS 04 AT 2136Z OBS 01 SFC WND 35080
01284 10861 12229 12116 28019
02284 20858 22306 21818 12041
03285 30855 32377 31715 18057
04286 40853 42393 41715 16036
MF285 W0855 MF057
OBS 01 AT 2153Z OBS 04 AT 2206Z OBS 04 SFC WND /////
REMARKS 284 864 217:

ZCZC WBC189

URNT14 KNIA 302351
AF972 1105 ELENA 03 15 KNIA
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 W0863 MF058

OBS 01 AT 2223Z OBS 04 AT 2237Z OBS 01 SFC WND 08090
01282 10863 13909 11403 30029
02279 20863 23964 21303 25047
03277 30862 33009 31103 25057
04275 40862 43047 41103 26052
MF277 W0862 MF057
OBS 01 AT 2313Z OBS 04 AT 2326Z OBS 04 SFC WND 25080
REMARKS 284 863 217
OUTBOUND LEG 700 MB

ZCZC WBC003

URNT14 KNIA 302103
AF972 1105 ELENA 03 17 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE

01285 10873 12441 11103 35062
02285 20874 22419 21303 36054
03285 30863 32383 31303 26055
04285 40856 42334 41603 36041
MF285 W0873 MF059

OBS 01 AT 0001Z OBS 04 AT 0011Z OBS
01284 10858 13396 11403 12012
02283 20854 23961 21103 12040
03283 30851 33019 30903 20044
04283 40848 43953 40903 12057
05283 50846 53071 50803 12050
06282 60843 63093 60903 18046
07282 70840 73104 70904 20040
MF283 W0848 MF057

OBS 01 AT 0025Z OBS 07 AT 0052Z OBS 07 SFC WND /////
REMARKS 284 860 890
LAST REPORT OBS 01-17 TO KNIA
ETA INSET AT 011200Z

ZCZC WBC018

URNT14 KNIA 020324
AF964 1705 ELENA 03 11 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE

01291 10876 13070 10909 35034
02291 20873 23060 20909 35037
03290 30870 33041 30909 35038
04291 40866 43973 41010 32040
05292 50863 53842 51111 30045
06293 60862 63752 61616 36073
MF293 W0862 MF073

OBS 01 AT 0047Z OBS 06 AT 0110Z
OBS 01 SFC WND /////
01296 10856 13322 11010 16095
02292 20863 23937 20808 17062
03294 30848 33080 30808 17050
04295 40845 42110 40808 19044
05294 50843 53114 50707 17036
MF296 W0855 MF066
OBS 01 AT 0128Z OBS 05 AT 0200Z
OBS 05 SFC WND /////
REMARKS 294 861 710:

ZCZC WBC099
URNT14 KNIA 152300
AF967 0207 CYCLONE 08 08 KNIA
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 00707 MF021
OBS 01 AT 2210Z OBS 07 AT 2236Z
OBS 07 SFC WND 06010
REMARKS 240 707 009;

ZCZC WBC412
URNT14 KNIA 160100
AF967 0207 CYCLONE 08 11 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01242 10725 10009 12319 36010
02241 20729 20009 12320 01009
03241 30729 30009 32320 03018
04241 40716 40009 42320 01022
05241 50713 50009 52320 01020
06229 60709 60009 62321 36013
MF241 00716 MF022
OBS 01 AT 2318Z OBS 06 AT 2344Z
OBS 06 SFC WND 0000
01236 10702 10008 12320 16005
02236 20699 20009 12320 20017
03236 30695 30009 32321 21017
04236 40692 40009 42320 19030
05237 50689 50010 52121 17031
06236 60687 60010 62220 17015
07238 70685 70011 72120 17025
MF237 00693 MF031
OBS 01 AT 2358Z OBS 07 AT 0027Z
OBS 07 SFC WND 0000
REMARKS 236 705 0000

ZCZC WBC043
URNT14 KNIA 161630
AF968 0307 CYCLONE 08 09 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01255 10670 10004 12320 30020
02252 20663 20005 22320 29020
03249 30670 30006 32319 28020
04247 40670 40007 42219 28020
05244 50671 50007 52419 28015
06243 60671 60007 62320 28014
MF255 00670 MF028
OBS 01 AT 161554Z OBS 06 AT 161619Z
OBS 06 SFC WND 31025
REMARKS 257 671 003
15065 60705 35 KTS

ZCZC WBC050
URNT14 KNIA 161744
AF968 0307 CYCLONE 08 12 KNIA
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 00655 MF040
OBS 01 AT 1653Z OBS 04 AT 1703Z
OBS 01 SFC WND 21040
REMARKS 258 666
PRECIP AT EAST EDGE;

ZCZC WBC174
URNT14 KNIA 162300
AF966 0407 CYCLONE 08 09 KNIA
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 00675 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 00646 MF028
OBS 01 AT 2151Z OBS 07 AT 2212Z
OBS 07 SFC WND 19020
REMARKS 263 652 002;

ZCZC WBC089
URNT14 KNIA 162359
AF966 0407 CYCLONE 08 11 KNIA
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 00649 MF011
OBS 01 AT 2253Z OBS 05 AT 2312Z
OBS 01 SFC WND 99005
REMARKS 269 648 003;

ZCZC WBC022
URNT14 KNIA 170612
AF964 0507 CYCLONE 08 17 KNIA
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 00630 MF054
OBS 01 AT 0526Z OBS 07 AT 0554Z
OBS 01 SFC WND 0000
REMARKS 269 636 999;

ZCZC WBC230
URNT14 KNIA 170822
AF964 0507 FABIAN 08 20 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01298 10635 10005 12311 14008
02286 20635 20005 22311 08009
03284 30634 30004 32311 05011
04282 40633 40003 42311 06015
05278 50631 50001 52311 06015
06276 60628 60997 62311 05020
MF276 00628 MF020
OBS 01 AT 0640Z OBS 06 AT 0706Z
OBS 01 SFC WND 0000
01273 10628 10997 12311 31024
02271 20627 20999 22311 26035
03268 30627 30001 32411 26036
04267 40627 40002 42411 25033
05264 50627 50004 52511 25032
06252 60627 60004 62411 26025
07259 70627 70005 72311 27027
MF259 00627 MF036
OBS 01 AT 0732Z OBS 07 AT 0802Z
OBS 07 SFC WND 0000
REMARKS 275 627 993;

ZCZC WBC252
URNT14 KNIA 171047
AF977 0607 FABIAN 08 07 KNIA
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
07273 70628 70003 72323 35015
MF276 00638 MF030
OBS 01 AT 0910Z OBS 07 AT 0940Z
OBS 01 SFC WND 0000
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 00608 MF048
OBS 01 AT 1007Z OBS 07 AT 1037Z
OBS 07 SFC WND 18030
REMARKS 278 623 992;

ZCZC WBC258
URNT14 KNIA 171220
AF977 0607 FABIAN 08 10 KNIA
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 00619 MF035
OBS 01 AT 1115Z OBS 07 AT 1147Z
OBS 01 SFC WND 12015
REMARKS 279 618 995;

ZCZC WBC576
 UPNT14 KNIA 211335
 AF967 0108 GLORIA OB 04 KNIA
 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
 06179 60555 60008 62320 01024
 07177 70553 70007 72321 01026
 08176 80550 80006 82321 02028
 09175 90548 90005 92321 36017
 00174 00544 00004 02320 30015
 MF176 N0550 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 N0533 MF032
 OBS 01 AT 1229Z OBS 07 AT 1301Z
 OBS 07 SFC WND 13025
 REMARKS 177 542 3294

ZCZC WBC588
 UPNT14 KNIA 211530
 AF967 0108 GLORIA OB 07 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01194 10543 10011 12420 09033
 02192 20543 20011 22320 07025
 03189 30543 30010 32420 09026
 04187 40543 40010 42322 07030
 05195 50543 50009 52321 09031
 06182 60544 60008 62320 10042
 07180 70545 70008 72322 12033
 MF182 N0544 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 N0547 MF020
 OBS 01 AT 1437Z OBS 07 AT 1508Z
 OBS 07 SFC WND 23010
 REMARKS 177 547 0011

ZCZC WBC609
 UPNT14 KNIA 211833
 AF967 0108 GLORIA OB 10 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01178 10535 10008 12521 15033
 02178 20537 20008 22421 15030
 03178 30540 30007 32321 13028
 04178 40543 40007 42221 14027
 05177 50545 50005 52020 13050
 06177 60548 60009 62422 20057
 MF177 N0548 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 02010
 04177 40562 40006 42320 03021
 05177 50565 50007 52319 03026
 06177 60567 60007 62320 04030
 07178 70570 70007 72320 04032
 MF178 N0570 MF032
 OBS 01 AT 1711Z OBS 07 AT 1735Z
 OBS 07 SFC WND 03015
 REMARKS 177 552 0001

ZCZC WBC680
 UPNT14 KNIA 220633
 AF967 0208 GLORIA OB 10 KNIA
 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 N0573 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 N0574 MF034
 OBS 01 AT 0530Z OBS 07 AT 0557Z
 OBS 07 SFC WND
 REMARKS 179 571 9971

ZCZC WBC709
 UPNT14 KNIA 221300 COR
 AF967 0308 GLORIA OB 03 COR KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01179 10598 10005 12220 03020
 02179 20596 20005 22320 01018
 03179 30593 30005 32319 03027
 04179 40591 40005 42220 01021
 05178 50588 50004 52219 36032
 06178 60585 60004 62320 35050
 MF178 N0585 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 30005 31919 15052
 04177 40572 40007 42215 15052
 05178 50569 50003 52218 16034
 06178 60566 60010 62221 18033
 07178 70564 70010 72221 16031
 MF177 N0581 MF060
 OBS 01 AT 1157Z OBS 07 AT 1228Z
 OBS 07 SFC WND 13020
 REMARKS 177 593 2211

ZCZC WBC712
 UPNT14 KNIA 221440
 AF967 0308 GLORIA OB 06 KNIA
 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 70002 72420 07065
 MF180 N0584 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 N0584 MF050
 OBS 01 AT 1405Z OBS 07 AT 1434Z
 OBS 07 SFC WND 20025
 REMARKS 179 584 9911

ZCZC WBC736
 UPNT14 KNIA 221615
 AF967 0308 GLORIA OB 08 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01165 10586 12400 11712 21026
 02167 20585 22471 21714 19031
 03172 30583 32465 31715 22027
 04174 40583 42457 41712 22031
 05177 50585 52422 51512 25034
 MF177 N0585 MF034
 OBS 01 AT 1443Z OBS 05 AT 1504Z
 OBS 01 SFC WND 20025
 01183 10595 12378 11816 11074
 02185 20585 22471 21714 12058
 03189 30585 32465 31515 12053
 04191 40585 42472 41515 13040
 05193 50584 52479 51611 13050
 06196 60586 62493 61511 13046
 MF184 N0585 MF075
 OBS 01 AT 1536Z OBS 06 AT 1556Z
 OBS 06 SFC WND 12045
 REMARKS 181 585 9921

ZCZC WBC722
 UPNT14 KNIA 230110
 AF964 0408 GLORIA OB 04 KNIA
 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 N0600 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 N0603 MF045
 OBS 01 AT 0030Z OBS 07 AT 0056Z
 OBS 07 SFC WND
 REMARKS 191 602 3571

ZCZC WBC831
 UPNT14 KNIA 230308
 AF964 0408 GLORIA OB 07 KNIA
 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 N0611 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 60593 62491 61615 15046
 07189 70587 72494 71615 14041
 MF190 N0601 MF056
 OBS 01 AT 0227Z OBS 07 AT 0258Z
 OBS 07 SFC WND
 REMARKS 191 605 3481

ZCZC WBC847
 UPNT14 KNIA 230544
 AF964 0408 GLORIA OB 10 KNIA
 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 05043
 07193 70611 72349 72019 02034
 MF206 N0608 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 N0612 MF037
 OBS 01 AT 0430Z OBS 07 AT 0454Z
 OBS 07 SFC WND
 REMARKS 192 610 9901

ZCZC HBC954
UPNT14 KNIA 230707
AF964 0408 GLORIA OB 13 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01176 10613 12465 11717 22008
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 HBC864

UPNT14 KNIA 230909

AF964 0408 GLORIA OB 16 KNIA
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 09050

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 HBC891
UPNT14 KNIA 231340
AF967 0508 GLORIA OB 06 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01183 10621 13111 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 HBC907

UPNT14 KNIA 231624

AF967 0508 GLORIA OB 10 KNIA
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 60688 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 HBC906

UPNT14 KNIA 231655 COR

AF972 0409 HENRI OB 12 COR KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE

01379 10740 13138 10856 14023

02376 20740 23131 20759 13023

03374 30741 33129 30752 10026

04371 40743 43123 40811 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 20911 28021

03356 30742 33114 31005 24020

04354 40745 43121 43121 41011 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 HBC919
UPNT14 KNIA 231800
AF967 0508 GLORIA OB 13 KNIA
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 60633 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 HBC951

UPNT14 KNIA 240119

AF964 0508 GLORIA OB 06 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE

01203 10660 12442 11816 25015

02205 20660 22436 21717 27018

03208 30660 32418 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 09063

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 HBC906

UPNT14 KNIA 240324

AF964 0508 GLORIA OB 09 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE

01216 10675 12459 11616 02025

02217 20673 22445 21616 02044

03217 30670 32428 31818 02041

04217 40668 42436 41717 34052

05217 50665 52331 51818 35062

MF217 M0663 MF094

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 40651 42438 41818 17046

05218 50648 52453 51717 19033

MF218 M0663 MF115

OBS 01 AT 0215Z OBS 06 AT 0300Z

OBS 07 SFC WND /

REMARKS 217 662 015

ZCZC HBC936

UPNT14 KNIA 240606

AF967 0508 GLORIA OB 13 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE

01233 10667 13085 11008 06055

02230 20665 23054 20808 07042

03236 30664 33046 30909 10050

04235 40665 43004 41111 10053

05232 50665 52054 51212 10050

06234 60666 61111 61111 10054

MF220 M0666 MF047

OBS 01 AT 0357Z OBS 06 AT 0416Z

OBS 01 SFC WND /

REMARKS 219 667 6700

ZCZC HBC449

UPNT14 KNIA 241335

AF967 0708 GLORIA OB 05 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE

01209 10677 13097 10804 25030

02212 20678 23092 20704 24030

03214 30680 33079 30706 28037

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 13086 11310 12066

02230 20682 23086 21009 11067

03232 30682 31111 31111 11072

04234 40681 41111 41111 11048

05236 50681 53059 50907 11048

06239 60681 63081 60906 09050

07241 70681 73098 70906 10053

MF229 M0682 MF079

OBS 01 AT 1234Z OBS 07 AT 1256Z

OBS 07 SFC WND /

REMARKS 226 681 9500

ZCZC HBC012

UPNT14 KNIA 241351

AF900 0709 GLORIA OB 06 KNIA
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;

ZCZC WBC679
 UPNT14 KNIA 241530 COP
 AF967 0708 GLORIA OB 09 COR KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01230 10706 13110 10005 03036
 02230 10706 13110 20005 01049
 03229 30701 33005 30006 36006
 04229 20699 43073 40006 36039
 05229 50696 53059 50006 01049
 06228 60693 63024 60007 35009
 07229 70699 73005 70007 36050
 MF229 M0696 MF064
 OBS 01 AT 13532 OBS 07 AT 14102
 OBS 01 SFC WND /////
 01229 10682 13777 11111 04069
 02229 20679 23019 21106 01064
 03228 30677 33052 30008 08050
 04229 40674 43080 40006 19057
 05229 50671 53089 50008 18037
 06229 60669 63104 60008 18044
 07229 70669 73114 70005 19048
 MF229 M0684 MF101
 OBS 01 AT 14452 OBS 07 AT 15142
 OBS 07 SFC WND /////
 REMARKS 228 685 945 OUTBOUND TO EAST SFC WND 180 DEG 13 KTS
 800 FROM CENTER

ZCZC WBC044
 UPNT14 KNIA 241005
 AF967 0708 GLORIA OB 13 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01213 10690 13095 10005 24035
 02216 20690 23082 20005 26033
 03219 30691 33067 30006 26031
 04221 40691 43054 40004 27027
 05223 50691 53033 50007 28037
 06226 60691 63995 60007 28043
 07228 70690 73908 71009 27058
 MF230 M0689 MF082
 OBS 01 AT 16262 OBS 07 AT 16512
 OBS 01 SFC WND 27035
 01232 10692 13884 11109 35062
 02323 20694 23982 20907 35055
 03232 30698 33025 30007 01049
 04232 40700 43037 40007 01042
 05232 50703 53052 50007 02036
 06231 60705 63069 60707 02037
 07231 70708 73079 70007 35039
 MF232 M0691 MF068
 OBS 01 AT 17302 OBS 07 AT 17512
 OBS 07 SFC WND /////
 REMARKS 232 689 939;

ZCZC WBC125
 UPNT14 KNIA 250135
 AF977 0808 GLORIA OB 08 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01238 10698 13070 11211 24059
 02235 20696 23966 21311 24061
 03233 30695 33011 31010 25053
 04230 40696 43044 41010 29029
 05228 50697 53062 50009 28036
 06226 60698 63075 61008 26030
 07223 70699 73074 70008 28038
 MF235 M0696 MF061
 OBS 01 AT 23442 OBS 07 AT 00112
 OBS 01 SFC WND /////
 REMARKS 241 599 427;

ZCZC WBC134
 UPNT14 KNIA 250209
 AF977 0808 GLORIA OB 11 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01243 10681 13070 11007 15050
 02243 20683 23079 20908 16053
 03244 30687 33042 31110 16050
 04244 40690 43020 41010 15057
 05244 50692 53995 51110 16065
 06244 60695 63954 61010 16074
 07244 70699 73824 71110 13106
 MF244 M0699 MF106
 OBS 01 AT 00502 OBS 07 AT 01142
 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 01292 OBS 07 AT 01522
 OBS 07 SFC WND /////
 REMARKS 243 701 383;

ZCZC WBC159
 UPNT14 KNIA 250419
 AF977 0808 GLORIA OB 14 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01262 10705 13087 11009 08040
 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 02432 OBS 07 AT 03082
 OBS 01 SFC WND /////
 01247 10702 13804 11210 14107
 02240 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 03232 OBS 07 AT 03552
 OBS 07 SFC WND /////
 REMARKS 247 705 401;

ZCZC WBC174

UPNT14 KNIA 250619

AF977 0908 GLORIA OB 18 KNIA
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

UPNT14 KNIA 251330

AF964 0908 GLORIA OB 03 KNIA

SUPPLEMENTARY VORTEX DATA MESSAGE

01243 10720 13030 10908 27033
02245 20720 23013 20909 25039
03248 30719 33993 31010 24036
04250 40719 43966 41010 24050
05253 50719 53909 51212 25052
06255 60720 63964 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 53909 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 03065

REMARKS 248 708 4130

ZCZC WBC492

UPNT14 KNIA 251522

AF964 0908 GLORIA OB 13 KNIA

SUPPLEMENTARY VORTEX DATA MESSAGE

01261 10739 13013 10909 35037
02261 20735 23998 20808 35049
03262 30733 33936 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 60709 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 USPL. DURING INBOUND LEG

SFC WND 190-100 KTS AT 26.5H 71.9MM

ZCZC WBC712

UPNT14 KNIA 251751

AF964 0908 GLORIA OB 17 KNIA

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 53966 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 40808 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 VENTY PSN 6
ON INBOUND LEG

ZCZC WBC264

UPNT14 KNIA 252148

AF980 1008 GLORIA OB 07 KNIA

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 5275

ZCZC WBC292

UPNT14 KNIA 260008

AF980 1008 GLORIA OB 13 KNIA

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 5505

ZCZC WBC309

UPNT14 KNIA 260400

AF980 1008 GLORIA OB 18 KNIA

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 06080
03289 30748 33872 31111 08075
04293 40750 43951 41010 07058
MF285 M0740 MF080

OBS 01 AT 0235Z OBS 04 AT 0250Z

OBS 04 SFC WND //

REMARKS 281 744 5825

ZCZC WMO309
 URNT14 KNIA 220430
 AF963 0109 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 62419 15021
 07317 70725 70013 72319 04015
 HF314 H0737 HF021
 OBS 01 AT 03452 OBS 07 AT 04312
 OBS 07 SFC WND /////
 REMARKS 312 746 008
 DOB TURS AT 08 079

ZCZC WMO823
 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
 HF340 H0754 HF032
 OBS 01 AT 23152 OBS 08 AT 00102
 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
 HF356 H0746 HF032
 OBS 01 AT 00352 OBS 07 AT 01062
 OBS 07 SFC WND /////
 REMARKS 341 745 010

ZCZC WMO797
 URNT14 KNIA 232022 COR
 AF966 0509 HENRI OR 03 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01369 10750 12490 11909 35020
 02369 20747 22481 21813 34020
 03370 30744 32468 31716 35013
 04370 40741 42447 41816 04014
 HF369 H0747 HF020
 OBS 01 AT 18562 OBS 04 AT 19092
 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
 HF369 H0736 HF031
 OBS 01 AT 19372 OBS 07 AT 20042
 OBS 07 SFC WND 17015
 REMARKS 369 740 000

ZCZC WMO798
 URNT14 KNIA 240346
 AF968 0609 HENRI OR 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
 HF376 H0745 HF027
 OBS 01 AT 01557 OBS 04 AT 02227
 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
 HF376 H0736 HF043
 OBS 01 AT 02457 OBS 07 AT 03152
 OBS 07 SFC WND /////
 REMARKS 376 740 005

ZCZC WMO777
 URNT14 KNIA 240646
 AF968 0609 HENRI OR 06 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01389 10740 10012 12319 12031
 02387 20740 20010 22220 11035
 03385 30740 30009 32221 11032
 04383 40740 40007 42222 11027
 05380 50740 50005 52322 99005
 HF387 H0740 HF035
 OBS 01 AT 04107 OBS 05 AT 05027
 OBS 01 SFC WND /////
 01377 10738 10007 12322 23037
 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
 HF372 H0738 HF035
 OBS 01 AT 05277 OBS07 AT 06097
 OBS 07 SFC WND /////
 REMARKS 380 740 000

ZCZC WBC456

URNT14 KNIA 080600 COR

AF980 03XX INVEST OB 18 COR KNIA

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 KNIA 080700

AF980 03XX INVEST OB 18 KNIA

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 KNIA 081308

AF967 0410 ISABEL OB 07 KNIA

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

F243 M0704 MF044

BS 01 AT 1133Z OBS 07 AT 1201Z

BS 07 SFC WND 18035

1250 10718 10005 12221 35067

2249 20720 20009 22221 34043

3249 30723 30011 32120 36026

4250 40726 40012 42120 02025

5251 50729 50012 52120 01020

6251 60732 60013 62120 01018

7251 70734 70014 72120 02021

F250 M0718 MF067

BS 01 AT 1226Z OBS 07 AT 1254Z

BS 07 SFC WND 01020

REMARKS 251 715 003 PROMINENT BAND 65KT SFC WND BENEATH CONVECTION

1ST OF CENTER 15-24NNH

ZCZC WBC522

URNT14 KNIA 081630 COR

AF967 0410 ISABEL OB 11 COR KNIA

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

20105NN N OF CENTER;

URNT14 KNIA 081806

AF967 0410 ISABEL OB 14 KNIA

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 1740NN

E OF CENTER;

2500 000001
 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 62322 23015
 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 OUTEND 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 KRIX 10/0455Z

ZCZC WBC124
 URNT14 KNIA 262130
 AF967 0111 JUAN OB 09 KNIA
 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 KNIA 261906 COR 02
 AF967 0111 JUAN OB 06 COR 02 KNIA
 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 KNIA 272156
 AF967 0411 JUAN OB 05 KNIA
 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 KNIA 272330
 AF967 0411 JUAN OB 08 KNIA
 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 11111 11111 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 11111
 REMARKS 275 908 982;

ZCZC WBC321
 URNT14 KNIA 280100
 AF967 0411 JUAN OB 10 KNIA
 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 11111
 01280 10910 12247 11615 99005
 02282 20911 22232 21715 15032
 03285 30911 32247 31615 13055
 04289 40914 42291 41514 09074
 05288 50921 53948 50808 08046
 MF289 M0914 MF074
 OBS 01 AT 0008Z OBS 05 AT 0035Z
 OBS 05 SFC WND 11111
 REMARKS 277 911 982;

ZCZC WBC329
 URNT14 KNIA 280322
 AF967 0411 JUAN OB 13 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01278 10930 13969 10503 33048
 02277 20928 21111 21111 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 11111
 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 11111
 REMARKS 282 915 878

ZCZC WBC401
 URNT14 KNIA 281522 COR
 AF968 0611 JUAN OB 03 COR KNIA
 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 KNIA 281815
 AF968 0611 JUAN OB 06 KNIA
 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 KNIA 291055
 AF968 0811 JUAN OB 02 KNIA
 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 KNIA 291327
 AF968 0811 JUAN OB 05 KNIA
 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 KNIA 291510
 AF968 0811 JUAN OB 08 KNIA
 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 REFGR: OB 0108 TO KNIA:

ZCZC WBC476
 URNT14 KNIA 311749 COR
 AF968 0911 JUAN OB 03 COR KNIA
 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 300 893 263 COR FOR REMARKS:
 983

ZCZC WBC509
 URNT14 KNIA 311840
 AF968 0911 JUAN OB 04 KNIA
 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 1

ZCZC WRC332
 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 50990 52322 17026
 06211 60637 60991 62421 18033
 07211 70635 70992 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 WRC402
 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 WRC419
 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 MDT TURB 75NM105NM OUTBOUND TO W:

ZCZC WRC437
 URNT14 KMIA 170410 COP
 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
 SOME RELEASED FROM 700MB, BETWEEN INBD AND OUTBD LEGS

ZCZC WRC440
 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:

ZCZC WRC458
 URNT14 KNIA 171346
 AF964 0412 KATE OB 04 KNIA
 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 WRC466
 URNT14 KNIA 171552
 AF964 0412 KATE OB 07 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01111 11111 11111 11111 11111
 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 30098 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 171445Z;OCNL MDT TURB OUTBOUND:

ZCZC WRC480
 URNT14 KNIA 171835
 AF964 0412 KATE OB 10 KNIA
 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 1712Z OBS 07 AT 1805Z
 OBS 07 SFC WND 17040
 REMARKS 210 683 977:

ZCZC WRC901
 URNT14 KNIA 180655
 AF866 0512 KATE OB 10 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01215 10691 12488 11611 15054
 02216 20694 22480 21511 15070
 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 11111
 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 11111
 REMARKS 216 716 203:

ZCZC WRC009
 URNT14 KNIA 180846
 AF866 0512 KATE OB 13 KNIA
 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 11111
 01218 10721 12213 11919 09035
 02219 20721 22253 21818 10059
 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 11111
 REMARKS 216 721 200:

ZCZC WRC536
 URNT14 KNIA 181018
 AF866 0512 KATE OB 16 KNIA
 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 11111
 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 11111
 REMARKS 216 723 856:

ZCZC WMO545
 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 WMO561
 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 13998 10908 23052
 02211 20737 23024 20907 20038
 03208 30736 33054 31006 21040
 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 WMO565
 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 22.0M 75.0M 030/100KT;

ZCZC WMO577
 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 WMO592
 URNT14 KNIA 182126 COP
 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 25MM
 N OF EYE. OUTBOUND LEG E DUE TO NO FLY RESTRICTIONS;

ZCZC WMO599
 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;

ZCZC HRC605
 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 18063
 06222 60759 62399 61616 19070
 07222 70761 72366 71616 15071
 MF222 M0761 MF071
 OBS 01 AT 23012 OBS 07 AT 23222
 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 23352 OBS 07 AT 00072
 OBS 07 SFC WND /////
 REMARKS 223 768 1241

ZCZC HRC627
 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 02502 OBS 07 AT 03182
 OBS 01 SFC WND /////
 01232 10779 12449 11615 10059
 02234 20779 22465 21514 11058
 03237 30778 32477 31613 11050
 04239 40778 42486 41513 10052
 05242 50778 52492 51612 11060
 06244 60778 62492 61611 10050
 07247 70778 72492 71412 11050
 MF242 M0778 MF060
 OBS 01 AT 03512 OBS 07 AT 04202
 OBS 07 SFC WND /////
 REMARKS 223 778 1281

ZCZC HRC633
 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 52495 51613 13049
 06248 60781 62495 61513 12059
 07250 70781 72495 71513 12063
 MF250 M0781 MF063
 OBS 01 AT 05562 OBS 07 AT 06222
 OBS 08 SFC WND /////
 REMARKS 226 780 130
 OUTBD LEG ADJUSTED TO NO FLY LINE

ZCZC HRC716
 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 20452 OBS 07 AT 22142
 OBS 07 SFC WND 09050
 REMARKS 236 826 2131

ZCZC HRC721
 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 70834 62270 61717 34060
 MF238 M0834 MF060
 OBS 01 AT 22522 OBS 07 AT 23252
 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 23332 OBS 07 AT 00022
 OBS 07 SFC WND /////
 REMARKS 239 832 1911

ZCZC HRC728
 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 00412 OBS 06 AT 01082
 OBS 01 SFC WND /////
 01237 10837 12354 11717 27045
 02235 20836 22375 21717 27045
 MF237 M0837 MF045
 OBS 01 AT 01352 OBS 02 AT 01372
 OBS 02 SFC WND /////
 REMARKS 240 837 1791

ZCZC HRC732
 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 05292 OBS 07 AT 06002
 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 06222 OBS 07 AT 06562
 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 HRC753
 URNT14 KMIA 200728 COR
 AF966 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 05292 OBS 07 AT 06002
 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 06222 OBS 07 AT 06562
 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 HRC758
 URNT14 KMIA 200919
 AF966 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 07362 OBS 07 AT 08082
 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 08252 OBS 07 AT 08562
 OBS 07 SFC WND /////
 REMARKS 247 850 0901
 ZCZC HRC793
 URNT14 KMIA 201052 COR
 AF966 1112 KATE OB 11 COR KMIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01242 10838 12441 11616 17059
 02250 20840 22431 21616 17057
 03250 30842 32420 31716 17050
 04249 40844 42365 41816 17075
 05250 50846 52321 51817 16079
 06250 60848 62269 61818 16076
 07250 70849 72495 71819 15085
 MF250 M0849 MF085
 OBS 01 AT 09332 OBS 07 AT 09502
 OBS 01 SFC WND /////
 01248 10852 12165 12020 33080
 02249 20855 22326 21818 01056
 03249 30858 32384 31817 02043
 04249 40861 42420 41716 02043
 05249 50863 52435 51716 01033
 06249 60867 62451 61615 01039
 07249 70869 72464 71615 02040
 MF248 M0852 MF080
 OBS 01 AT 10072 OBS 07 AT 10422
 OBS 07 SFC WND /////
 REMARKS 249 850 0920

UPNT14 KNIA 201237
AF964 1212 KATE OB 14 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01235 10850 12463 11616 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 11162 OBS 07 AT 11422
OBS 01 SFC WND *****
01253 10853 12231 11818 02101
02256 20854 22347 21817 09089
03258 30853 32406 31717 10072
04261 40852 42438 41616 11053
05263 50852 52460 51616 11064
06266 60852 62476 61616 10052
07269 70852 72488 71414 08052
MF253 M0853 MF101
OBS 01 AT 11522 OBS 07 AT 12212
OBS 07 SFC WND *****
REMARKS 252 852 056
LAST DEPART OBS 0114 TO KNIA
ETA KNIS AT 20:1550Z

ZCZC WRC846
UPNT14 KNIA 201623
AF967 1212 KATE OB 05 KNIA
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 14322 OBS 07 AT 15052
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 15332 OBS 07 AT 16022
OBS 07 SFC WND 26030
REMARKS 255 858 956

ZCZC WRC844
UPNT14 KNIA 201845
AF967 1212 KATE OB 09 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01260 10842 12474 11614 15052
02260 20844 22459 21614 15052
03260 30847 39111 31111 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 16432 OBS 07 AT 17072
OBS 01 SFC WND 12050
01258 10863 12232 11717 36073
02258 20866 22353 21616 02060
03258 30868 39111 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 17492 OBS 07 AT 18142
OBS 07 SFC WND 35035
REMARKS 258 860 020

ZCZC WRC806
UPNT14 KNIA 202103
AF967 1212 KATE OB 12 KNIA
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 19202 OBS 08 AT 19502
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 20162 OBS 07 AT 20422
OBS 07 SFC WND *****
REMARKS 262 862 989

ZCZC WRC887
UPNT14 KNIA 210229
AF964 1312 KATE OB 08 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01286 10865 12452 11515 08055
02283 20865 22439 21515 08068
03280 30865 32416 31717 08022
04278 40865 42406 41616 08027
05275 50866 52359 51616 08077
06273 60865 62292 61717 08089
07271 70866 71111 71111 08095
MF271 M0866 MF095
OBS 01 AT 08592 OBS 07 AT 01212
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 28040
06255 60864 62449 61616 28038
07253 70864 72461 71616 28043
MF268 M0863 MF080
OBS 01 AT 01372 OBS 07 AT 02012
OBS 07 SFC WND *****
REMARKS 270 864 037
WALL CLOUD HEAVENING SOUTH

ZCZC WRC824
UPNT14 KNIA 210400
AF964 1312 KATE OB 11 KNIA
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 02382 OBS 06 AT 03012
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 03162 OBS 07 AT 03412
OBS 07 SFC WND *****
REMARKS 272 865 051
ZCZC WRC830
UPNT14 KNIA 210555
AF964 1312 KATE OB 14 KNIA
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 04152 OBS 07 AT 04422
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 05032 OBS 07 AT 05272
OBS 07 SFC WND *****
REMARKS 272 866 071
STRONG RAINBAND 75 NM TO 105 NM OUTBOUND

ZCZC WRC842
UPNT14 KNIA 210946
AF968 1412 KATE OB 05 KNIA
SUPPLEMENTARY VORTEX DATA MESSAGE
01284 10883 13081 11002 02053
02282 20879 23063 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 07542 OBS 07 AT 08192
OBS 01 SFC WND *****
01279 10863 13006 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 20048
MF280 M0860 MF074
OBS 01 AT 08452 OBS 07 AT 09092
OBS 07 SFC WND *****
REMARKS 279 866 758
LT TURN/ONCL LTG OUTBD TO EAST
ZCZC WRC850
UPNT14 KNIA 211117
AF968 1412 KATE OB 08 KNIA
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 09402 OBS 08 AT 10032
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 10332 OBS 07 AT 11002
OBS 07 SFC WND *****
REMARKS 281 866 755
LT TURN OUTBOUND 30NM THRU 60NM

ZCZC WRC857
 URNT14 KNIA 211332
 AF968 1412 KATE OB 12 KNIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 01283 10846 13098 11004 17045
 02282 20848 23081 20904 17052
 03283 30850 33051 30805 16057
 04283 40854 43027 40806 17075
 05283 50857 53989 50907 18061
 06283 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
 01283 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 WRC864
 URNT14 KNIA 211552
 AF968 1412 KATE OB 16 KNIA
 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
 06280 60863 63946 61206 27073
 07282 70863 73893 71207 26082
 MF282 M0863 MF082
 OBS 01 AT 1346Z OBS 07 AT 1411Z
 OBS 01 SFC WND 1111Z
 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 KNIA
 ETA KDYS AT 21/1900Z;

ZCZC WRC875
 URNT14 KNIA 212002
 AF866 1512 KATE OB 04 KNIA
 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 1926Z
 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 WRC881
 URNT14 KNIA 212124
 AF866 1512 KATE OB 07 KNIA
 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 1111Z
 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 1111Z
 REMARKS 295 858 139
 INBOUND AND OUTBOUND SFC OBSERVED BY SC;
 ZCZC WRC889
 URNT14 KNIA 220010
 AF866 1512 KATE OB 10 KNIA
 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 1111Z
 REMARKS 301 855 149
 LAST REPORT OBS 0110 TO KNIA. ETA KBIX 22/0110Z;

URNT14 KNIA 230151
 AF967 1812 KATE OB 03 KNIA
 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 1111Z
 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 1111Z
 REMARKS 347 762 415;
 ZCZC WRC892
 URNT14 KNIA 230337
 AF967 1812 KATE OB 06 KNIA
 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 1111Z
 01342 10749 12430 11311 27017
 02339 20749 22430 21211 24015
 03337 30749 32433 31212 24028
 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 1111Z
 REMARKS 343 750 427;
 ZCZC WRC894
 URNT14 KNIA 230610
 AF967 1812 KATE OB 09 KNIA
 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 1111Z
 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 1111Z
 REMARKS 342 743 433
 LAST REPORT OBS 0109 TO KNIA. ETA KBIX 23/0815Z;

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
0AO	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
0AO	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
0AO	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	<u>27/0700</u>	<u>27/1300</u>	<u>27/1900</u>	<u>28/0100</u>
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
Atlantic 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
Atlantic 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
<u>Probability thru</u>	<u>26/2AM</u>	<u>26/8AM</u>	<u>26/2PM</u>	<u>26/8PM</u>	<u>27/2AM</u>
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.ON 72.OW	X	40	35	35	X
38.6N 74.OW	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
<u>PROBABILITY THRU</u>	<u>11/2AM</u>	<u>11/8AM</u>	<u>11/2PM</u>	<u>11/8PM</u>	<u>12/2AM</u>	<u>12/8AM</u>
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
<u>PROBABILITY THRU</u>	<u>12/2PM</u>	<u>12/8PM</u>	<u>13/2AM</u>
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 12am Sun	21/10am thru 24/Nov 6am Sun
Coastal Locations		
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