

NOAA Technical Memorandum NWS NHC

ANNUAL DATA AND VERIFICATION TABULATION
ATLANTIC TROPICAL CYCLONES 1983

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National Hurricane Center
Miami, Florida
JANUARY 1984

United States Department of Commerce/National Oceanic & Atmospheric Administration/
National Weather Service

INTRODUCTION

This is the tenth 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 and 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 Satellite Field Service Station Miami Office, and the CARCAH (Chief Aerial Reconnaissance Coordination, all Hurricanes). A new feature in this report is the inclusion of Probability Forecasts issued with advisories on landfalling United States tropical storms and hurricanes

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, and includes 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 the CLIPER system into a single model
6. NHC-73 (Neumann and Lawrence, 1973). Similar in concept to the NHC-72 except it also uses the "perfect prog" and MOS (model output statistics) methods to introduce NMC (National Meteorological Center) numerical prognostic data into the prediction equations.
7. NMC MFM MODEL (Hovermale, 1975). A ten-level baroclinic model which uses a moving fine mesh (MFM) grid nested within the coarser NMC fixed grid primitive equation (PE) model.

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

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

VERIFICATION

Verification statistics for the 1983 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 for the period 1970-1983 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. A 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 the 1977 Annual Data and Verification Tabulation (Lawrence, Hebert, and Staff, 1979).

DATA SUMMARIES

A summary of 1983 North Atlantic tropical cyclone statistics is given in Table 4. Tracks of 1983 named storms are shown in Figure 1

The best track, initial, and forecast positions for the 1983 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 1983. Fixes are in chronological order, and include those obtained by aerial reconnaissance penetrations, satellite (Miami SFSS), 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 as Appendix A.

Table 8 is an aerial reconnaissance summary for the 1983 season.

Graphs of the lowest central pressure versus time for 1983 tropical cyclones are presented in Figure 3.

Daily GOES-5 satellite photographs of 1983 named tropical cyclones are shown in Figure 4.

Appendix B gives the probability forecasts and forecast tracks issued for 1983 landfalling United States tropical storms and hurricanes.

ACKNOWLEDGEMENTS

Main contributors were: Mr. Frank Marques who helped list the center fixes in chronological order; Mr. Miles Lawrence, who computed the verification statistics; Ms Joan David, who drafted the track chart and pressure/time graphs; and Mrs. Teresa Barker, who typed the tables and manuscript.

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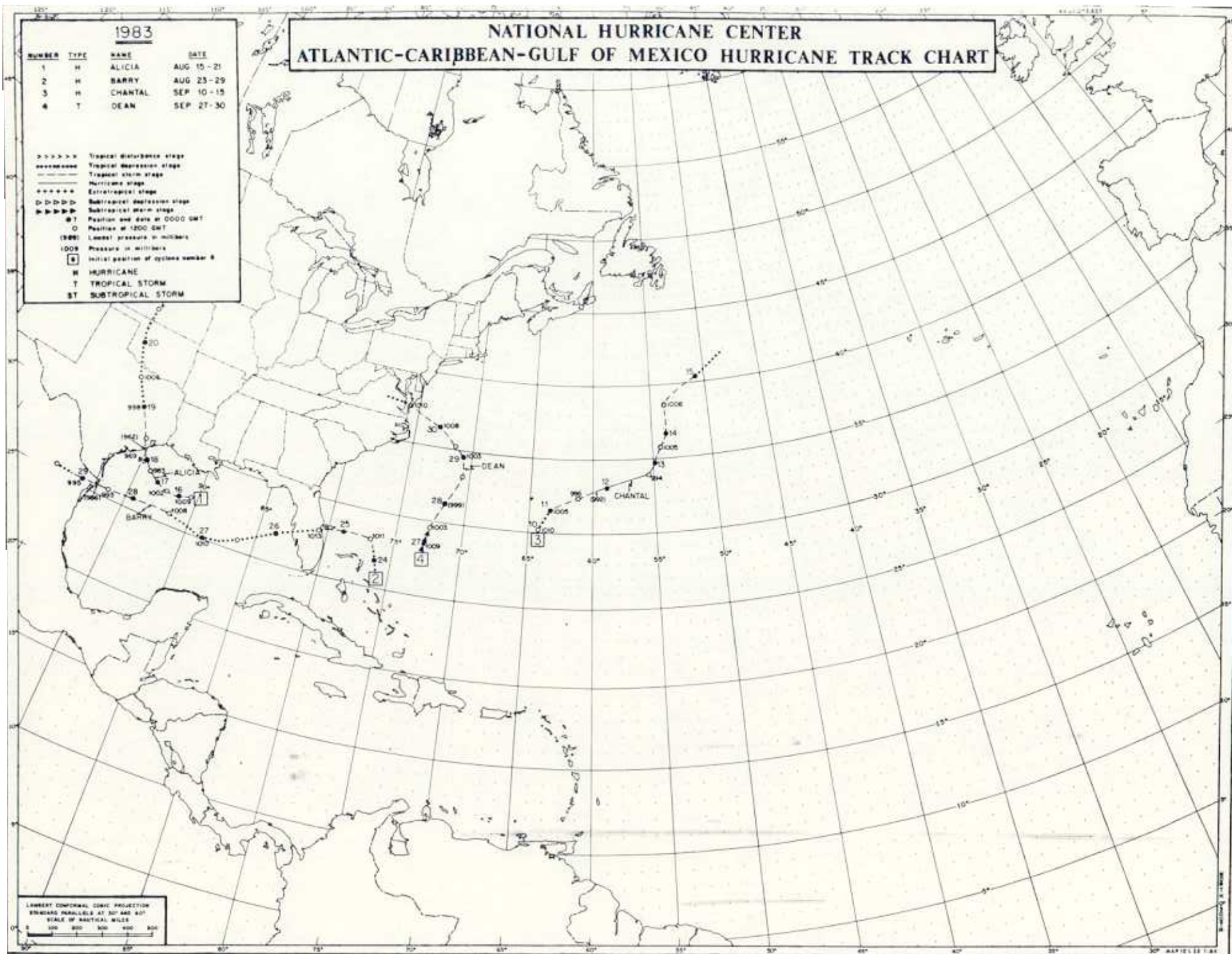
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NATIONAL HURRICANE CENTER ATLANTIC-CARIBBEAN-GULF OF MEXICO HURRICANE TRACK CHART

1983

NUMBER	TYPE	NAME	DATE
1	H	ALICIA	AUG 15-21
2	H	BARRY	AUG 25-29
3	H	CHANTAL	SEP 10-15
4	T	DEAN	SEP 27-30

- Tropical disturbance stage
- Tropical depression stage
- Tropical storm stage
- Hurricane stage
- Extratropical stage
- - - - - Subtropical depression stage
- - - - - Subtropical storm stage
- Position and date at 0000 GMT
- Position at 1200 GMT
- (999) Lowest pressure in millibars
- 1009 Pressure in millibars
- Initial position of cyclone number 8
- H HURRICANE
- T TROPICAL STORM
- ST SUBTROPICAL STORM



LOWERT CONFORMAL CONIC PROJECTION
STANDARD PARALLELS AT 30° AND 40°
SCALE OF NAUTICAL MILES
0 100 200 300 400 500

NOVEMBER 1983

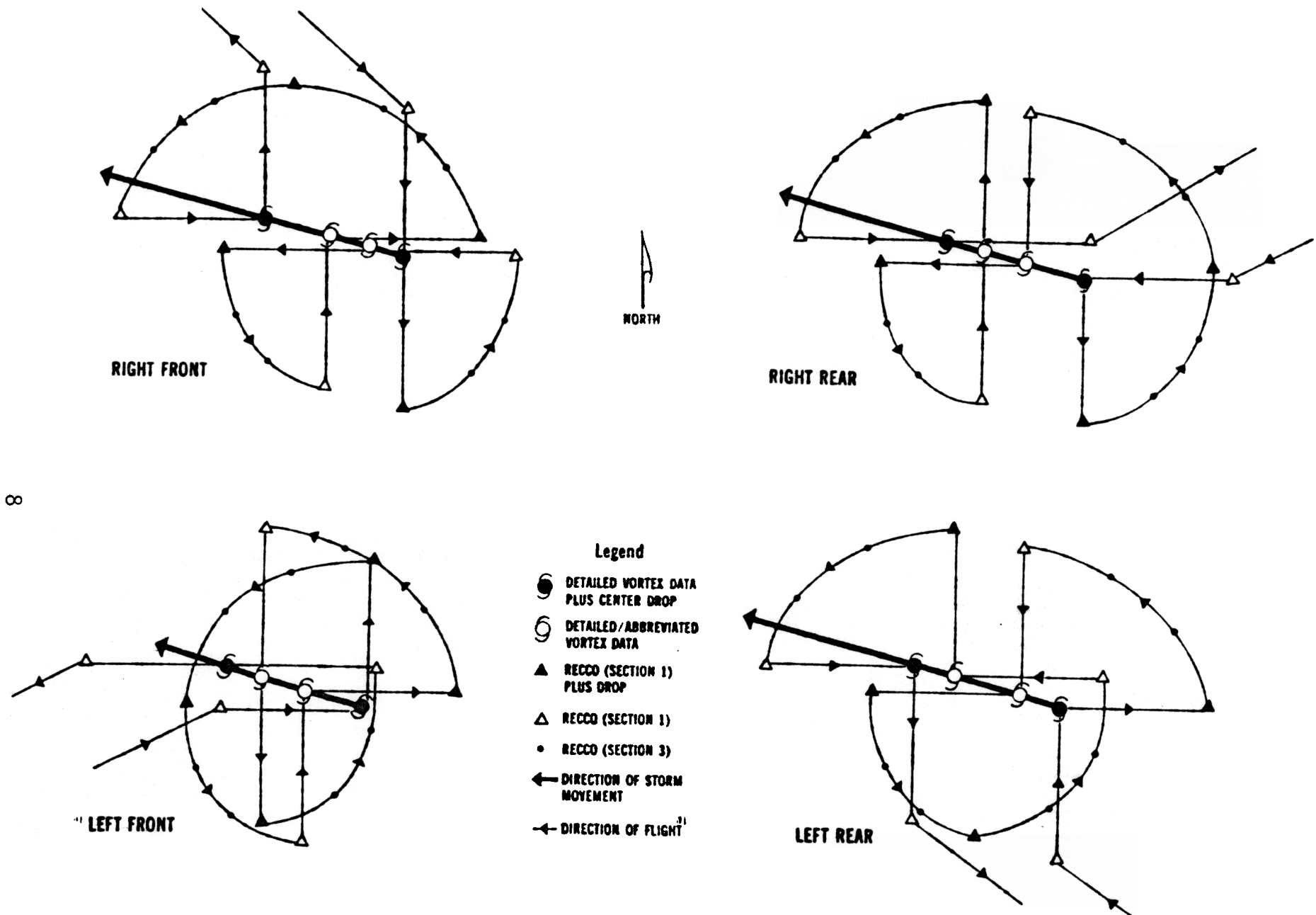
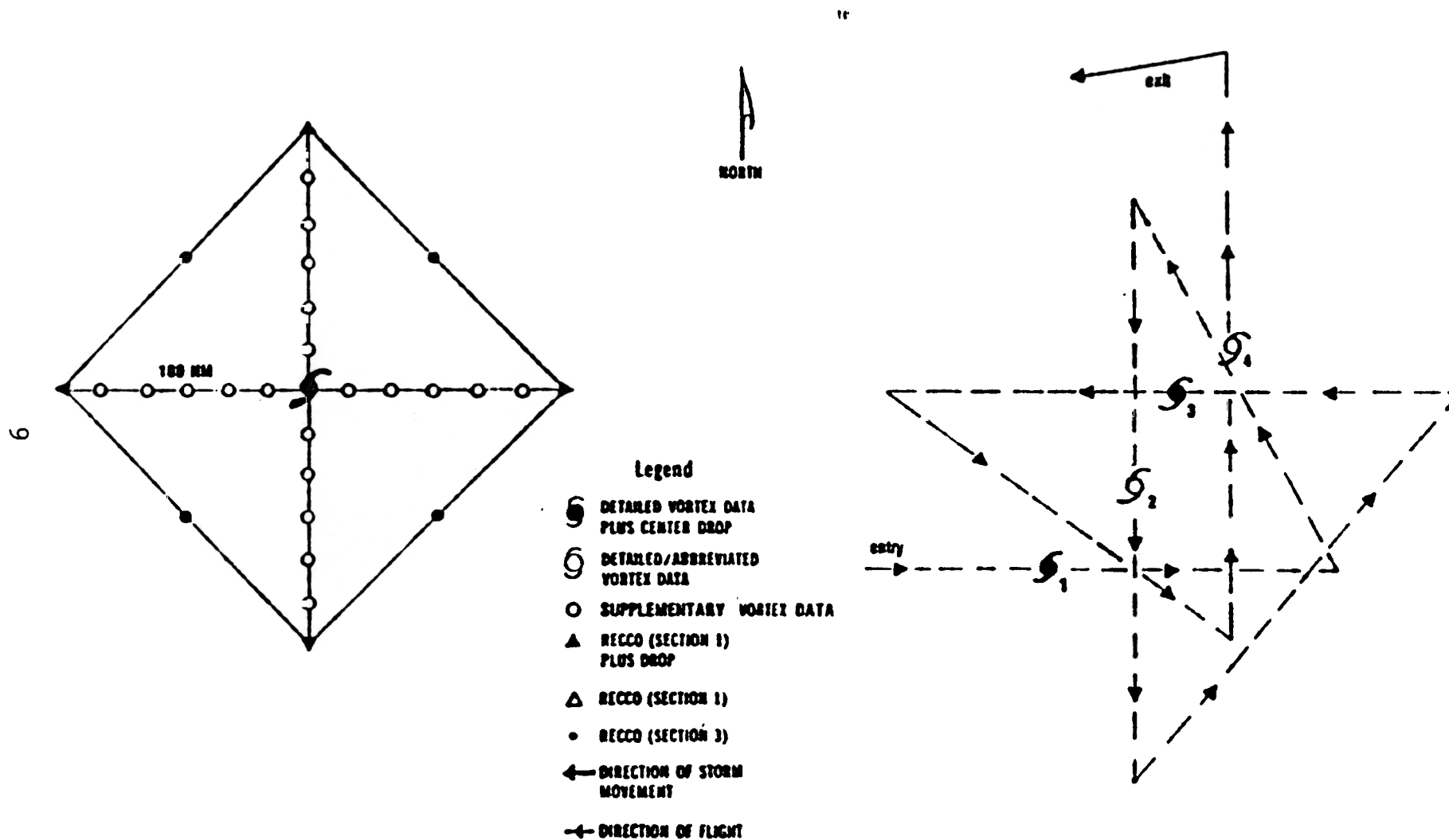


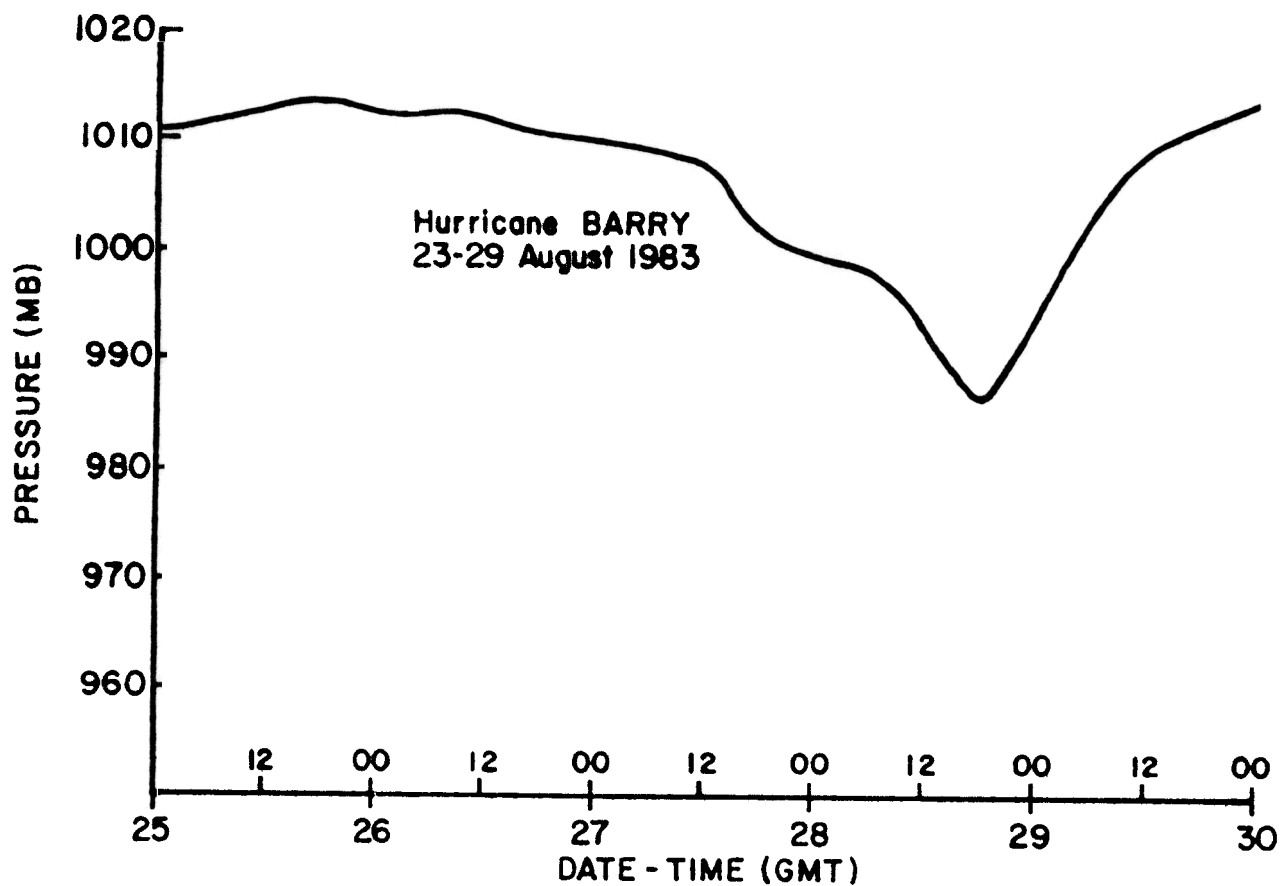
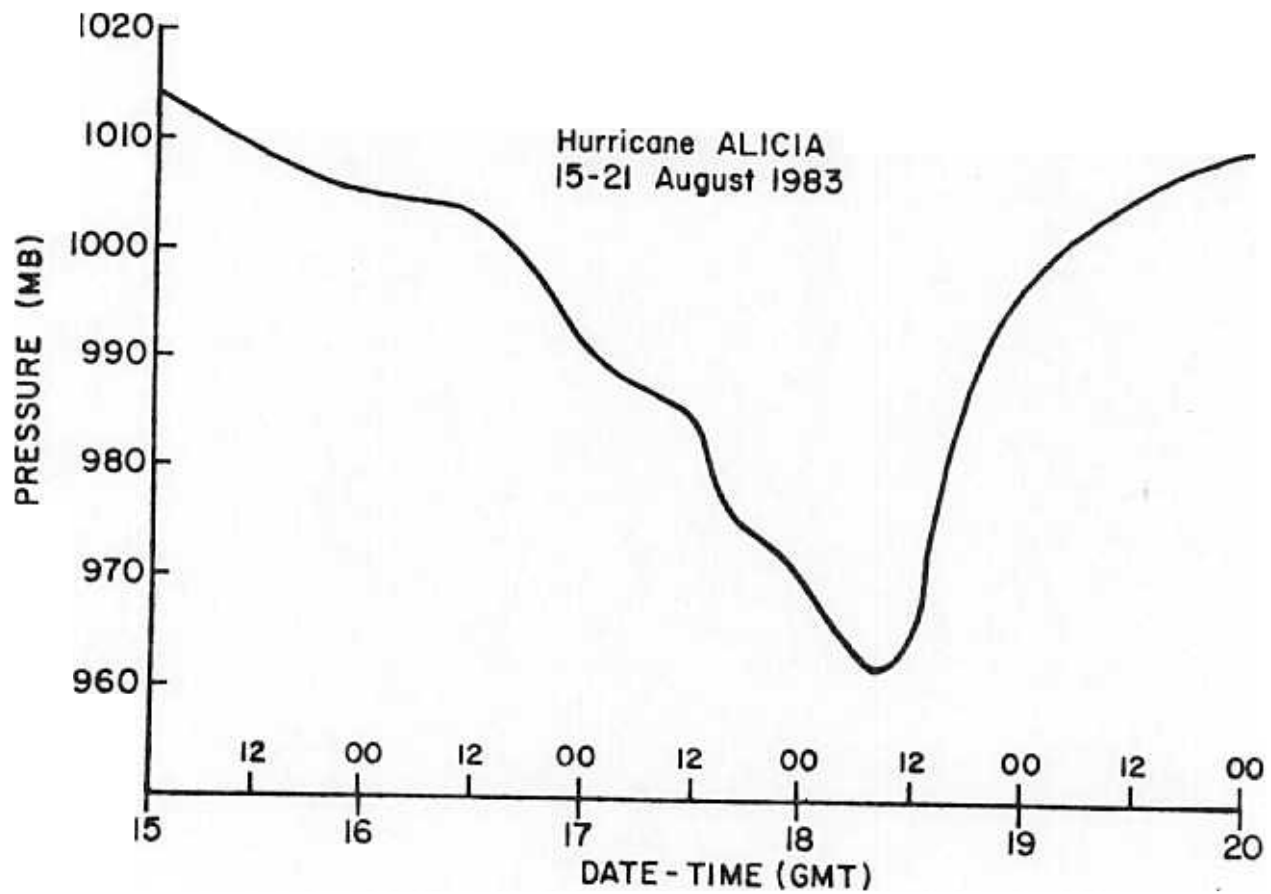
Figure 2a. Flight pattern "A" flown in obtaining Supplementary Vortex Data Message.

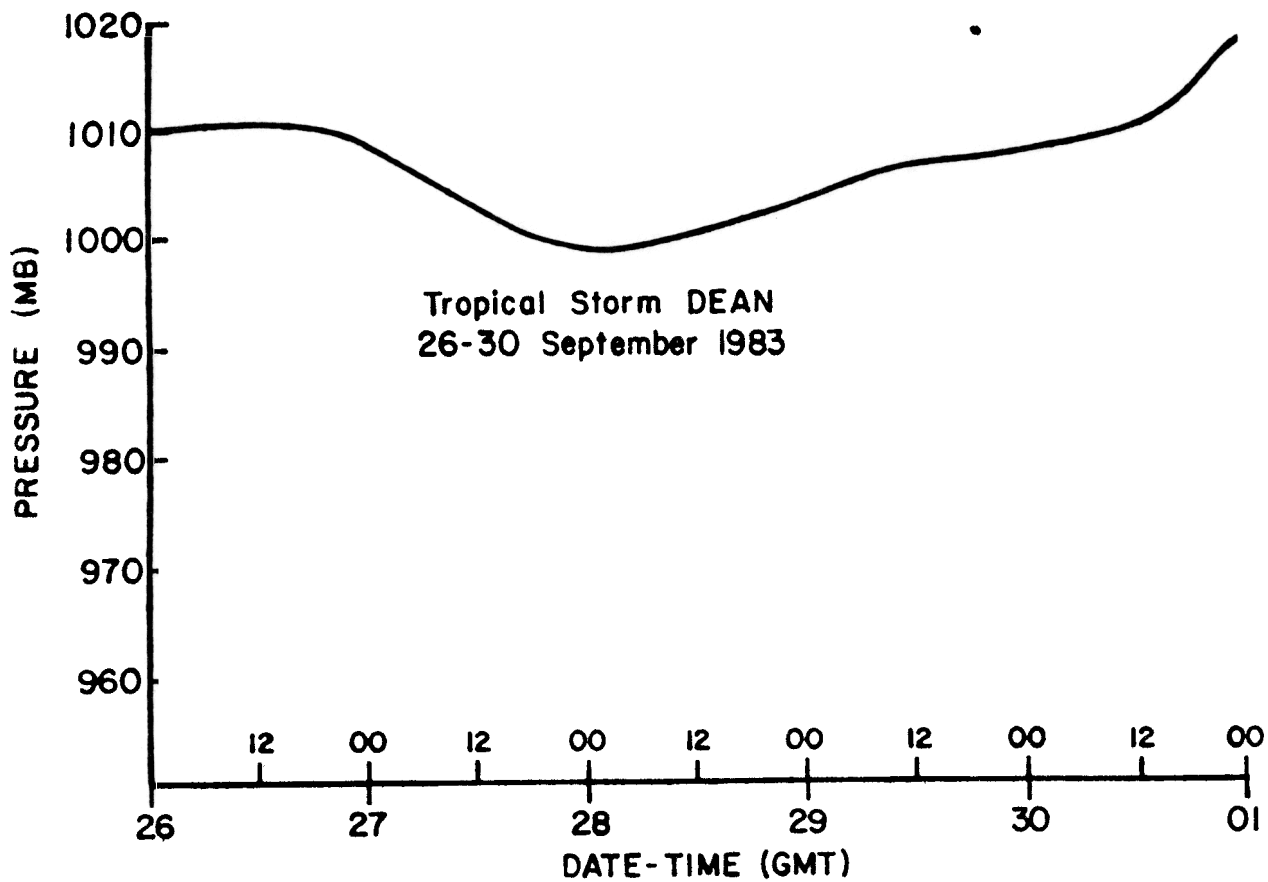
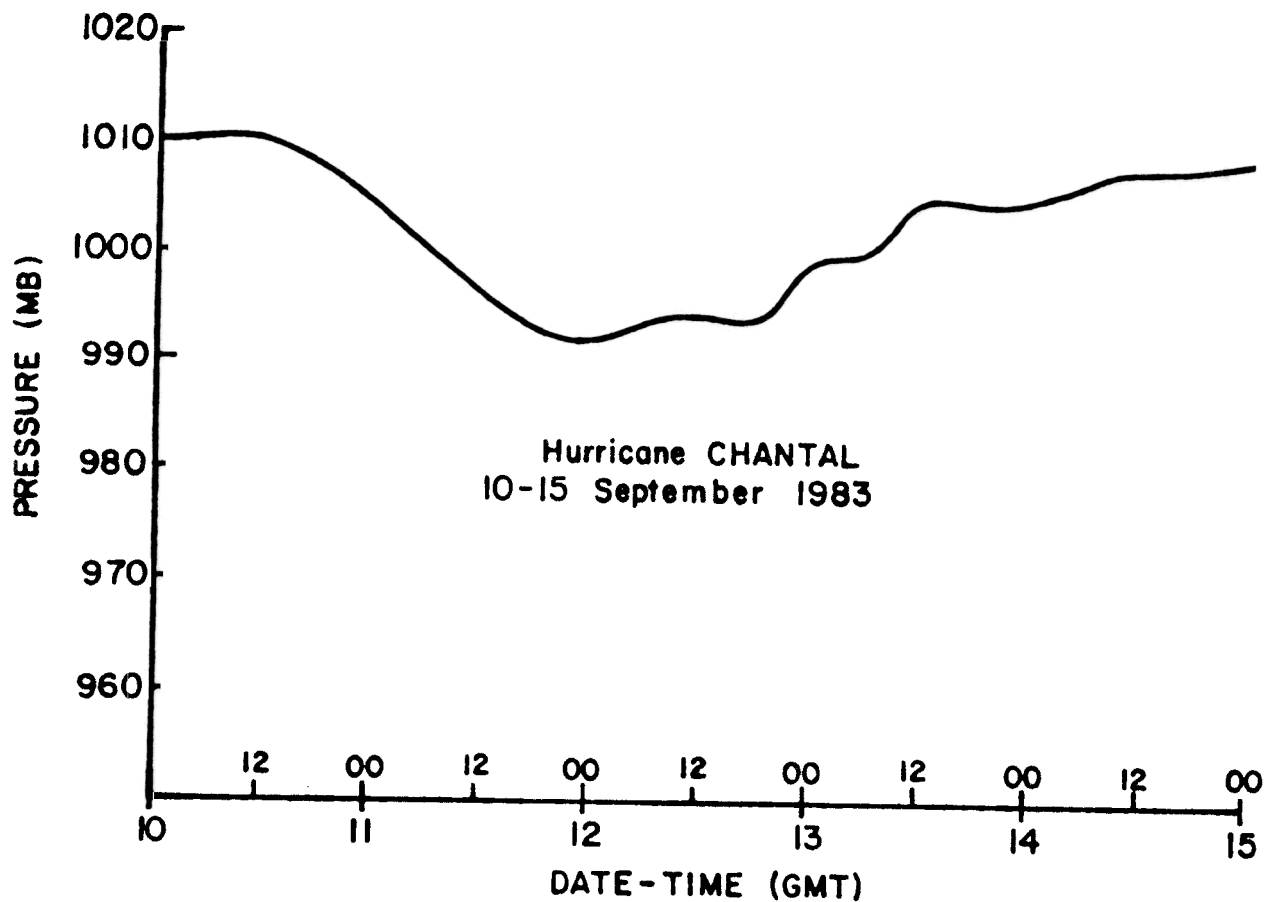
RECOMMENDED PATTERN "A" (MODIFIED) EXECUTION



Pattern may be entered on any leg

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







1631 GMT 8/14/83
1012 MB



1631 GMT 8/15/83
1006 MB

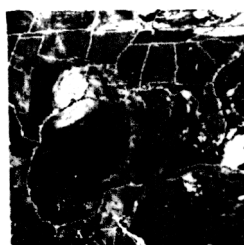


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998 MB

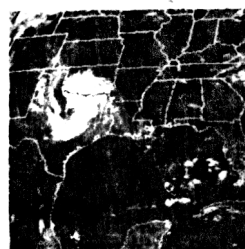
ALICIA



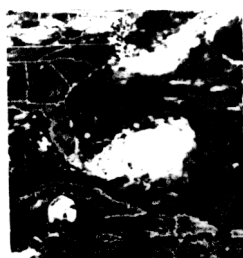
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978 MB



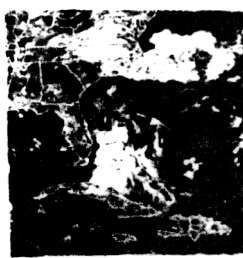
1401 GMT 8/18/83
970 MB



1501 GMT 8/19/83
1008 MB



1600 GMT 8/23/83
1012 MB



1701 GMT 8/24/83
1011 MB



1431 GMT 8/25/83
1013 MB

BARRY



1701 GMT 8/26/83
1011 MB



1701 GMT 8/27/83
1002 MB



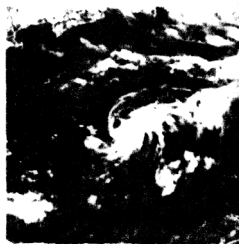
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FIGURE 4. DAILY SATELLITE PHOTOGRAPHS OF 1983 TROPICAL CYCLONES.

CHANTAL



1501 GMT 9/10/83
1008 MB



1701 GMT 9/11/83
992 MB



1501 GMT 9/12/83
994 MB



1501 GMT 9/13/83
1005 MB



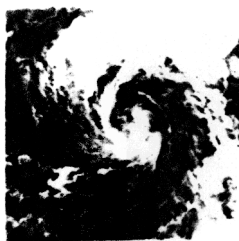
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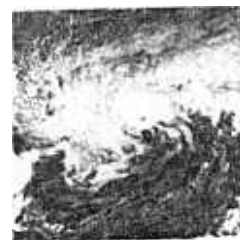
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1009 MB



1631 GMT 9/26/83
1010 MB



1631 GMT 9/27/83
1000 MB

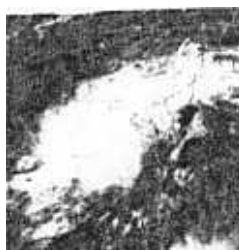


1931 GMT 8/28/83
1001 MB

DEAN



1531 GMT 9/29/83
1006 MB



1831 GMT 9/30/83
1015 MB



2001 GMT 10/1/83
1018 MB

Figure 4 continued.

Table 1. Verification of 1983 tropical storm and hurricane forecasts.

Technique	Initial position error (n.mi.)	Displacement errors (n.mi.) Forecast period (hours)			
		12	24	48	72
Official (# of cases)	10 (43)	41 (41)	83 (31)	203 (16)	415 (9)
NHC 67	11 (40)	46 (38)	101 (30)	320 (16)	770 (9)
NHC 72	11 (40)	37 (38)	84 (30)	215 (16)	585 (9)
HURRAN	9 (24)	51 (31)	137 (18)	359 (9)	988 (4)
CLIPER	10 (43)	41 (41)	89 (31)	191 (16)	461 (9)
NHC 73	11 (19)	47 (18)	93 (13)	189 (6)	442 (4)
SANBAR	11 (20)	45 (19)	83 (14)	223 (6)	390 (3)
MEF	13 (8)	54 (8)	95 (5)	166 (2)	- (0)

Table 2a. Landfall prediction errors for 1983 tropical storms and hurricanes.

Following is a list of landfall prediction errors for tropical storms and hurricanes during 1983. Each error represents the distance (in nautical miles) from the predicted landfall point determined from the "Official" forecast issued 24 hours prior to landfall 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.mi.)	Location and Remarks
ALICIA	Hurricane	8/18/07Z	35	25 miles southwest of Galveston, Texas.
BARRY	Hurricane	8/28/17Z	83	Mexico - 30 miles south of Brownsville, Texas.
CHANTAL	(No landfall			
DEAN	Tropical Storm	9/30/12Z	22	Eastern shore of Virginia, south of Wallops Island.

Table 2b. Fourteen-year summary of errors in the prediction of the points of landfall of Atlantic tropical storms and hurricanes during the period 1970-1983.

	United States Landfalls	All Landfalls
1983 Mean 24 Hour Landfall Prediction Error (number of cases)	29 (2)	47 (3)
14 year average 1970-1983	38 n.mi. (23)	50 n.mi. (58)

Table 3a. Tropical cyclone warning lead time of 1983 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)
ALICIA	Hurricane	8/18/07Z	25 miles southwest of Galveston, Texas	Hurricane warning, Corpus Christi, Texas to Morgan City, LA., 8/17/01Z	36
BARRY	Tropical Depression	8/25/11Z	Melbourne, Florida	Gale warnings, Jupiter, Fl. to Savannah, Georgia 8/24/19Z	*
CHANTAL	(No U.S. Landfall)				
DEAN	Tropical Storm	9/30/12Z	Eastern Shore of Virginia, south of Wallops Island	Gale Warnings, Virginia Beach, Virginia to Chincoteague, Va. 9/28/22Z	38

* Weakened to Tropical Depression prior to landfall.

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 1983 and during the 14 year period of 1970-1983.

	All tropical Storms and Hurricanes		All Hurricanes	
	1983	1970-1983	1983	1970-1983
Average Lead Time (hours)	37	21	36	21
(number of cases)	(2)	(29)	(1)	(12)

Table 4. Summary of North Atlantic Tropical Cyclone Statistics, 1983

Cyclone Number	Name	Class ¹	Dates ²	Maximum Sustained Wind (kt)	Lowest Pressure (MB)	U.S. Damage (Millions of \$)	Deaths
1	Alicia	H	15-21 AUG	100	962	200	21
2	Barry	H	23-29 AUG	70	986	Minor	1
3	Chantal	H	10-15 SEP	65			
4	Dean	T	27-30 SEP	55	999	Minor	

- ¹ T: Tropical Storm (winds 34-63 knots)
H: Hurricane (winds 64 knots or higher)

- ² The day starts at 0000 GMT.

Table 5. Best track, initial and forecast positions, initial position error and forecast errors for 1983 tropical cyclones.

HURRICANE ALICIA 15-21 AUGUST 1983

DATE/TIME (GMT)	BEST TRACK		OPERATIONAL POSITION		POSITION ERROR (N.M.I.)	12-HOUR FORECAST			24-HOUR FORECAST			48-HOUR FORECAST			72-HOUR FORECAST		
	LAT. (°N)	LONG. (°W)	LAT. (°N)	LONG. (°W)		LAT. (°N)	LONG. (°W)	ERROR (N.M.I.)	LAT. (°N)	LONG. (°W)	ERROR (N.M.I.)	LAT. (°N)	LONG. (°W)	ERROR (N.M.I.)	LAT. (°N)	LONG. (°W)	ERROR (N.M.I.)
081518	27.2	91.0	27.2	91.0	0	27.0	92.0	0	27.0	93.0	21	27.0	95.5	85	27.0	97.5	
081600	27.1	91.5	27.0	91.5	6	27.0	92.4	0	27.0	93.4	19	27.0	96.0	101	27.0	99.0	
081606	27.0	92.0	27.0	92.0	0	27.0	93.2	28	27.0	94.0	45	27.0	96.5	139	27.0	99.5	
081612	27.1	92.4	27.0	92.4	6	27.2	93.0	17	27.4	94.0	26	28.0	95.0	100	29.0	97.0	
081618	27.3	92.8	27.2	92.8	6	27.9	93.8	19	28.5	95.0	40	30.0	96.5				
081700	27.4	93.3	27.4	93.3	0	28.2	94.5	24	29.0	95.5	52	30.8	97.3				
081706	27.7	93.7	27.6	93.7	6	28.3	94.9	28	29.0	96.0	54	30.0	98.0				
081712	27.9	94.2	28.0	94.5	17	28.3	95.1	12	28.7	96.0	67	29.5	98.0				
081718	28.1	94.5	28.1	94.6	5	28.3	95.2	36	29.0	96.5		30.0	99.0				
081800	28.4	94.8	28.4	94.8	0	28.8	95.4	54	29.3	96.0							
081806	28.9	95.0	28.8	95.0		29.8	95.8		31.0	96.5							
081812	29.7	95.5	29.7	95.5		31.5	96.0										
MEAN VECTOR ERRORS (N.M.I.)					5	22			40			106			0		
NUMBER OF CASES					10	10			8			4			0		

.....

Table 5 continued.

HURRICANE BARRY 23-29 AUGUST 1983

DATE/TIME (GMT)	BEST TRACK		OPERATIONAL POSITION		POSITION ERROR (N.MI.)	12-HOUR FORECAST ERROR			24-HOUR FORECAST ERROR			48-HOUR FORECAST ERROR			72-HOUR FORECAST ERROR		
	LAT. (°N)	LONG. (°W)	LAT. (°N)	LONG. (°W)		LAT. (°N)	LONG. (°W)	(N.MI.)	LAT. (°N)	LONG. (°W)	(N.MI.)	LAT. (°N)	LONG. (°W)	(N.MI.)	LAT. (°N)	LONG. (°W)	(N.MI.)
082400	26.8	76.2	26.7	76.1	8	27.5	76.5	32	28.5	76.8	110	30.5	77.0		32.5	77.0	
082406	27.4	76.3	27.5	76.5	12	28.5	76.8	56	29.5	77.0	179	31.0	77.0		32.0	77.0	
082412	28.1	76.8	28.1	76.7	5	29.0	77.0	109	30.0	77.5		30.5	77.5		31.0	77.5	801
082418	28.1	77.6	28.1	77.5	5	28.1	79.2	27	28.1	81.1		28.0	83.0		29.0	84.5	487
082500	28.1	78.9	28.2	78.3	32	28.2	80.2		28.2	82.0		28.5	85.5		29.0	89.0	324
082506	28.0	79.8	28.0	79.7	5	28.0	82.0		27.5	84.0		27.0	87.0		27.0	91.0	253
082712	25.8	91.6	25.6	91.5	13	26.5	93.8	68	27.3	95.7	124	29.5	99.0				
082718	25.8	93.0	25.6	93.1	13	26.2	96.0	58	27.0	98.0		28.0	101.0				
082800	25.7	94.5	25.7	94.1	22	26.0	97.0	62	26.5	99.5		28.0	104.0				
082806	25.5	95.5	25.7	95.8		25.5	98.5										
082812	25.5	96.4	25.3	97.0													
MEAN VECTOR ERRORS (N.MI.)					13						138						
NUMBER OF CASES					9						3						0

Table 5 continued.

HURRICANE CHANTAL 10-15 SEPTEMBER 1983

DATE/TIME (GMT)	BEST TRACK		OPERATIONAL POSITION		POSITION ERROR (N.M.I.)	12-HOUR FORECAST ERROR			24-HOUR FORECAST ERROR			8-HOUR FORECAST ERROR			72-HOUR FORECAST ERROR		
	LAT. (°N)	LONG. (°W)	LAT. (°N)	LONG. (°W)		LAT. (°N)	LONG. (°W)	(N.M.I.)	LAT. (°N)	LONG. (°W)	(N.M.I.)	LAT. (°N)	LONG. (°W)	(N.M.I.)	LAT. (°N)	LONG. (°W)	(N.M.I.)
091018	30.9	64.0	30.8	64.1	8	32.0	63.5	51	33.5	62.0	107	36.0	58.0	156	38.0	53.0	118
091100	31.6	63.3	31.4	63.5	16	33.0	62.0	57	35.0	59.0	126	38.0	53.0	228	40.0	45.0	470
091106	32.0	62.4	32.0	62.5	5	33.2	60.7	39	34.4	58.7	69	36.5	54.5	72	38.5	48.5	264
091112	32.4	61.2	32.5	61.2	6	33.0	59.0	13	34.0	56.0	16	37.0	50.0	211	42.0	44.0	487
091118	32.8	60.0	32.8	59.8	10	33.5	57.0	21	34.5	54.5	40	38.0	48.0	291	42.0	41.0	535
091200	33.1	58.9	33.3	58.5	23	34.0	55.5	23	35.0	53.0	74	38.5	46.5	339	42.0	38.0	
091206	33.6	57.6	33.6	57.4	10	34.5	54.9	21	35.4	52.3	98	38.0	47.5	292	40.3	42.5	
091212	34.0	56.3	34.0	56.2	5	34.8	53.5	64	35.5	51.0	153	38.0	46.0	365	42.0	40.0	
091218	34.4	55.5	34.5	55.2	16	35.5	53.0	59	37.0	51.0	130	41.0	46.0	296	46.0	39.0	
091300	34.8	54.9	34.8	54.8	5	36.0	53.0	54	37.5	51.0	136	41.0	47.0		45.0	40.0	
091306	35.3	54.5	35.0	54.5	18	37.0	53.0	74	39.0	51.5	158	42.0	49.0		47.0	40.0	
091312	35.9	54.2	35.9	54.3	5	37.2	54.0	25	38.9	53.8	13	42.3	51.9		46.7	42.5	
091318	36.3	53.9	36.3	54.1	10	37.3	53.9	8	38.3	53.7	86	42.0	50.0		44.5	40.0	
091400	36.8	53.8	36.8	53.8	0	38.0	53.0	56	39.0	52.0		41.5	47.5		43.0	39.0	
091406	37.4	53.8	37.4	53.7	5	39.0	53.0	41	41.0	51.5		44.0	48.0		46.0	40.0	
091412	38.7	53.8	38.7	53.7		40.5	53.2		42.7	51.0							
091418	39.5	52.5	39.3	52.8		41.0	48.5		43.2	42.5							
MEAN VECTOR ERRORS (N.M.I.)					9	40			93			250			375		
NUMBER OF CASES					15	15			13			9			5		

Table 5 continued.

TROPICAL STORM DEAN 7-30 SEPTEMBER 1983

DATE/TIME (GMT)	BEST TRACK		OPERATIONAL POSITION		POSITION ERROR (N.MI.)	12-HOUR FORECAST ERROR			24-HOUR FORECAST ERROR			48-HOUR FORECAST ERROR			72-HOUR FORECAST ERROR		
	LAT. (°N)	LONG. (°W)	LAT. (°N)	LONG. (°W)		LAT. (°N)	LONG. (°W)	(N.MI.)	LAT. (°N)	LONG. (°W)	(N.MI.)	LAT. (°N)	LONG. (°W)	(N.MI.)	LAT. (°N)	LONG. (°W)	(N.MI.)
092718	30.3	72.1	30.4	72.3	12	31.5	72.3	70	32.0	72.5	150	32.5	73.5	205	33.0	75.0	
092800	31.2	71.7	30.9	72.0	24	32.0	71.3	50	34.0	70.7	23	35.0	71.5	152	36.0	73.0	
092806	32.2	71.1	32.0	71.2	13	33.5	70.5	23	35.0	70.0	59	36.5	70.5	217	37.5	72.0	
092812	33.1	70.7	33.1	70.6	5	35.0	70.0	46	36.5	70.5	95	37.5	71.5		37.5	73.0	
092818	34.0	70.7	34.1	70.6	8	35.5	70.5	41	36.5	71.0	99	37.0	73.0		37.0	75.0	
092900	34.5	70.8	34.4	71.0	12	35.1	71.8	8	35.6	73.0	72	36.0	74.0		36.2	75.0	
092906	34.8	71.0	34.6	71.5	27	34.9	72.5	65	35.2	73.5	133	36.0	75.5		37.0	77.5	
092912	35.1	71.5	35.2	71.6	8	36.0	73.0	61	37.0	75.5		39.0	79.0				
092918	35.8	73.0	35.7	73.0	6	37.0	76.5	77	38.5	79.5							
093000	36.4	74.0	36.0	73.6		36.6	75.0		37.0	76.0							
093006	37.0	74.9	37.0	74.9		38.1	76.9		39.0	78.5							
MEAN VECTOR ERRORS (N.MI)					13			49			90			191			0
NUMBER OF CASES					9			9			7			3			

LEGEND FOR TABLE 6

Key to Observational Unit and Resolution

OBSERVATIONAL UNIT

Reconnaissance

AF = Air Force

NOAA = National Oceanographic and Atmospheric Administration

Satellite

GOES-5 = Geostationary Operational Environmental Satellite

Radar

GLS-R = Galveston, Texas National Weather Service Radar

LCH-R = Lake Charles, Louisiana National Weather Service Radar

BRO-R = Brownsville, Texas National Weather Service Radar

RESOLUTION

Reconnaissance

Navigational Accuracy/Meteorological Accuracy. (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 or down by 1/2 T or S number.

3 = might vary up or down by 1 T or S number, or more.

**1 = well defined eye with certain picture registration.

2 = well defined eye with uncertain picture registration.

3 = well defined circulation center with certain picture registration.

4 = well defined circulation center with uncertain picture registration.

5 = poorly defined circulation center with certain picture registration.

6 = poorly defined circulation center with uncertain picture registration.

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

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

Table 6. Center Fix positions and intensity evaluations for 1983 Tropical Cyclones.

HURRICANE ALICIA 15-21 AUGUST 1983

CENTER FIXES																
FIX NO.	DATE	TIME (GMT)	POSITION		MAX.WIND(KT)		MIN PRES (MB)	MIN 700 MB HT. (M)	TEMP. °C		EYE		CHARACTERISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
			LAT. (°N)	LONG. (°W)	SFC.	FLT. LVL.			IN.	OUT.	C=CIR. DIA. E=ELIP. (N.MI)					
1	15	0100	27.5	90.0	25									GOES 5	2,5 IR 8	
2	15	0630	27.3	90.3	25									GOES 5	IR 8	
3	15	1230	27.3	90.5	25									GOES 5	2,5 VSBL 1	
4	15	1800	27.2	91.0	25									GOES 5	2,5 VSBL 1	
5	15	2045	27.1	91.2	45	48	1004		26	25		16		AF	2/3	244M
6	15	2330	27.0	91.5	30									GOES 5	1,5 VSBL 1	
7	16	0602	27.0	92.0		55	1006		25	24		20	Poorly defined	NOAA	5/10	289M
8	16	0630	26.9	92.1	35									GOES 5	1,5 IR 8	
9	16	0701	27.0	92.2			1004							NOAA		
10	16	0830	27.0	92.1									Poor Fix	GLS-R		
11	16	0935	27.0	92.5									Poor Fix	GLS-R		
12	16	1200	27.0	92.4	40	59	1002		24	24		15		AF	4/8	396M
13	16	1414	27.1	92.5	45	53	1001					10		AF		
14	16	1500	27.1	92.7	55									GOES 5	2,5 VSBL	
15	16	1604	27.2	92.7	40	51	1000					6		AF		350M
16	16	1730	27.2	93.3									Good Fix	GLS-R		
17	16	1735	27.2	92.8									15° Overlay	LCH-R		
18	16	1800	27.1	92.8	55								Good Fix	GOES 5	2,5 VSBL	
19	16	1807	27.0	93.1									Good Fix	GLS-R		
20	16	1825	27.0	93.1									Good Fix	GLS-R		
21	16	1835	27.3	92.7									Possible Center	LCH-R		
22	16	1845	27.2	92.8	50	56	997		23	23		2		AF	3/1	375M
23	16	1930	26.9	93.1									Poor Fix	GLS-R		
24	16	2003	27.1	92.9									Good Fix	LCH-R		
25	16	2010	27.1	93.1									Good Fix	GLS-R		
26	16	2035	27.1	93.0								16	Fair Fix	LCH-R		
27	16	2056	27.1	93.1								11	Good Fix	LCH-R		
28	16	2100	27.3	93.2	65									GOES 5		
29	16	2111	27.2	93.2									Good Fix	GLS-R		
30	16	2126	27.3	93.1									Fair Fix	LCH-R		
31	16	2128	27.2	93.2									Good Fix-Possible Eye	GLS-R		

Table 6 continued.

HURRICANE ALICIA continued.

IX NO.	DATE	TIME (GMT)	POSITION		MAX. WIND (KT)		MIN PRES. (MB)	MIN 700 MB HT. (M)	EMP. °C		EYE C=CTR. DIA. E=ELIP. (N.M.I.)	CHARACTERISTICS	OBS. UNIT	RESOLUTION	ACFT ALT
			LAT. (°N)	LONG. (°W)	SFC.	FLT. LVL.			N.	OUT.					
32	16	2156	27.3	93.1							16	Good Fix	LCH-R		
33	16	2203	27.3	93.2								Good Fix-Possible Eye	GLS-R		
34	16	2224	27.4	93.2	60	60	991		26	23	12	Poorly Defined	AF	2/2	334M
35	16	2225	27.3	93.1							15	Poor Fix	LCH-R		
36	16	2225	27.3	93.2								Good Fix-Possible Eye	GLS-R		
37	16	2255	27.4	93.2								Good Fix	LCH-R		
38	16	2305	27.3	93.3								Fair Fix-Possible Eye	GLS-R		
39	16	2325	27.4	93.2								Fair Fix	LCH-R		
40	16	2326	27.3	93.3								Fair Fix-Possible Eye	GLS-R		
41	16	2354	27.4	93.2							16	Fair Fix	LCH-R		
42	17	0000	27.4	93.3	65							Good Fix-Possible Eye	GOES 5	2,3 VSBL	
43	17	0003	27.4	93.4								Good Fix-Possible Eye	GLS-R		
44	17	0025	27.4	93.3							20	Fair Fix	LCH-R		
45	17	0026	27.4	93.4								Good Fix	GLS-R		
46	17	0028	27.5	93.3	55	55	990		26	25	15	Open West-Northwest	AF	3/2	347M
47	17	0055	27.4	93.2							18	Fair Fix	LCH-R		
48	17	0108	27.4	93.4								Good Fix-Possible Eye	GLS-R		
49	17	0125	27.5	93.3							16	Good Fix	LCH-R		
50	17	0125	27.4	93.4								Good Fix	GLS-R		
51	17	0155	27.4	93.2							18	Good Fix	LCH-R		
52	17	0201	27.5	93.3	45	45	989	3002	13	9	20	Open Northwest-North	AF	4/5	700MB
53	17	0206	27.4	93.6								Good Fix	GLS-R		
54	17	0225	27.5	93.5								Poor Fix	LCH-R		
55	17	0226	27.4	93.6								Good Fix	GLS-R		
56	17	0300	27.5	93.6	65								GOES 5	2,3 IR 8	
57	17	0308	27.4	93.5								Fair Fix-Possible Eye	GLS-R		
58	17	0325	27.4	93.5								Poor Fix	LCH-R		
59	17	0325	27.4	93.5								Fair Fix-Possible Eye	GLS-R		
60	17	0355	27.5	93.6								Good Fix	LCH-R		
61	17	0400	27.6	93.5		57	989	3003					AF		700MB
62	17	0405	27.4	93.8								Fair Fix-Possible Eye	GLS-R		
63	17	0425	27.5	93.7								Good Fix	LCH-R		
64	17	0426	27.4	93.8								Fair Fix-Possible Eye	GLS-R		
65	17	0448	27.5	93.6								Good Fix-Eye	LCH-R		

Table 6 continued.

HURRICANE ALICIA continued.

FIX NO.	DATE	TIME (GMT)	POSITION		MAX. WIND (KT)		MIN PRES. (MB)	MIN 700 MB HT. (M)	TEMP. °C		EYE C=CIR. DIA E=ELIP. (N.MI.)	CHARACTERISTICS	BS NIT	RESOLUTION	ACFT ALT
			LAT. (°N)	LONG. (°W)	SFC.	FLT. LVL.			IN.	OUT.					
66	17	0501	27.6	93.6		39	995	2992	14	10	20	Open Southwest	AF	2/5	700MB
67	17	0510	27.4	93.7								Fair Fix-Possible Eye	GLS-R		
68	17	0525	27.5	93.6							20	Good Fix-EYE	LCH-R		
69	17	0530	27.4	93.7								Fair Fix-Possible Eye	GLS-R		
70	17	0551	27.6	93.7							20	Good Fix-Eye	LCH-R		
71	17	0600	27.7	93.5		65									
72	17	0603	27.7	93.8		70	992	1350	22	18	20	Closed	GOES 5	2,3 IR 8	850MB
73	17	0610	27.6	93.7								Fair Fix	NOAA	5/15	
74	17	0625	27.6	93.8							14	Good Fix-Eye	GLS-R		
75	17	0629	27.6	93.7								Fair Fix-Possible Eye	LCH-R		
76	17	0650	27.7	93.9							12	Good Fix-Eye	GLS-R		
77	17	0710	27.6	94.0								Fair Fix-Possible Eye	LCH-R		
78	17	0725	27.7	93.9							12	Good Fix-Eye	GLS-R		
79	17	0731	27.6	94.0								Fair Fix-Possible Eye	LCH-R		
80	17	0752	27.6	93.8							25	Good Fix-Eye	GLS-R		
81	17	0825	27.6	93.8							25	Good Fix-Eye	LCH-R		
82	17	0831	27.8	94.0								Good Fix - Eye	GLS-R		
83	17	0850	27.7	94.0							20	Good Fix - Eye	LCH-R		
84	17	0900	27.9	93.7	65										
85	17	0902	27.9	94.0		75	986	1303	22	19	20	Closed	GOES 5	2,3 IR 8	850MB
86	17	0910	27.9	94.0								Good Fix-EYE	NOAA	5/5	
87	17	0925	27.8	94.1								Possible Center	GLS-R		
88	17	0925	27.7	94.1							20	Good Fix-Eye	BRO-R		
89	17	0950	27.8	94.1							18	Good Fix-Eye	LCH-R		
90	17	1005	27.9	94.2								Good Fix-Eye	GLS-R		
91	17	1010	28.0	94.3							40	Possible Center	BRO-R		
92	17	1025	27.9	94.2							18	Good Fix-Eye	LCH-R		
93	17	1025	28.0	94.2							38	Fair Fix	BRO-R		
94	17	1031	27.9	94.2								Good Fix-Eye	GLS-R		
95	17	1050	27.9	94.3							22	Good Fix-Eye	LCH-R		
96	17	1100	27.9	94.3							30	Fair Fix	BRO-R		
97	17	1110	28.0	94.3								Good Fix-Eye	GLS-R		
98	17	1125	27.9	94.4							20	Good Fix-Eye	LCH-R		

able 6 continue

HURRICANE ALICIA continued.

FIX NO.	DATE	TIME (GMT)	POSITION		MAX. WIND (KT)		MIN PRES. (MB)	MIN 700 MB HT. (M)	TEMP. °C		EYE C=CIR. DIA E=ELIP. (N.MI.)	CHARACTERISTICS	OBS UNIT	RESOLUTION	ACFT ALT
			LAT. (°N)	LONG. (°W)	SFC.	FLT. LVL.			IN.	OUT.					
99	17	1125	27.8	94.3							18	Poor Fix	BRO-R		
100	17	1130	28.0	94.3								Good Fix-Eye	GLS-R		
101	17	1152	27.9	94.4							20	Good Fix-Eye	LCH-R		
102	17	1200	27.9	94.3							22	Fair Fix	BRO-R		
103	17	1210	27.9	94.3								Good Fix-Eye	GLS-R		
104	17	1218	27.9	94.3	75	80	984	1290	20	17	20	Closed	NOAA	1/2	850MB
105	17	1225	27.9	94.4							20	Good Fix-Eye	LCH-R		
106	17	1229	27.9	94.3								Good Fix-Eye	GLS-R		
107	17	1229	27.9	94.3								Good Fix	BRO-R		
108	17	1230	28.0	94.5	27										
109	17	1250	27.9	94.4											
110	17	1305	27.8	94.3							22	Good Fix	LCH-R	2,3 VSBL 1	
111	17	1305	27.7	94.4								Good Fix	GLS-R		
112	17	1325	27.9	94.4								Good Fix	BRO-R		
113	17	1325	27.7	94.4							20	Good Fix	LCH-R		
114	17	1328	27.9	94.3							18	Good Fix	BRO-R		
115	17	1351	27.9	94.3		70	980	2916				Good Fix	GLS-R		
116	17	1351	27.9	94.4									AF		700MB
117	17	1405	28.0	94.3							20	Good Fix	LCH-R		
118	17	1410	27.7	94.4								Good Fix	GLS-R		
119	17	1425	27.9	94.4							20	Fair Fix	BRO-R		
120	17	1451	27.9	94.4							20	Good Fix	LCH-R		
121	17	1500	27.9	94.4							20	Good Fix	LCH-R		
122	17	1500	28.0	94.4	90						12	Good Fix	GLS-R		
123	17	1514	28.0	94.4	45	90	975	2880	15	12	25	Closed	GOES 5	2,1 VSBL 1	
124	17	1516	28.0	94.4	80	86	976	1233	22	17	20	Closed	AF	4/3	700MB
125	17	1527	27.9	94.5									NOAA	2/5	850MB
126	17	1530	27.9	94.4							20	Good Fix	LCH-R		
127	17	1557	27.9	94.5							12	Good Fix	GLS-R		
128	17	1605	27.9	94.3							20	Good Fix	LCH-R		
129	17	1625	27.9	94.3							12	Good Fix	GLS-R		
130	17	1631	28.0	94.5							12	Good Fix	GLS-R		
131	17	1659	28.0	94.5							20	Fair Fix	LCH-R		
											15	Fair Fix	LCH-R		

Table 6 continued.

HURRICANE ALICIA continued.

FIX NO.	DATE	TIME (GMT)	POSITION		MAX. WIND (KT)		MIN PRES. (MB)	MIN 700 MB HT. (M)	TEMP. °C		EYE		CHARACTERISTICS	OBS UNIT	RESOLUTION	ACFT ALT
			LAT. (°N)	LONG. (°W)	SFC.	FLT. LVL.			IN.	OUT.	C-CTR.	DIA E-ELIP. (N.MI)				
132	17	1700	28.0	94.5								13	Good Fix	GLS-R		
133	17	1728	28.0	94.5								12	Good Fix	GLS-R		
134	17	1753	28.0	94.5								18	Good Fix	LCH-R		
135	17	1755	28.1	94.4		86	974	1206	22	18		20	Closed	NOAA	2/5	850MB
136	17	1800	28.1	94.4	90									GOES 5	2,3 VSBL 1	
137	17	1800	28.1	94.5								12	Good Fix	GLS-R		
138	17	1804	28.1	94.4	45	75	972	2861	16	8		20	Closed	AF	2/3	700MB
139	17	1830	28.1	94.5								12	Good Fix	GLS-R		
140	17	1834	28.1	94.5								20	Good Fix	LCH-R		
141	17	1900	28.1	94.4								10	Good Fix	GLS-R		
142	17	1930	28.1	94.4								10	Good Fix	GLS-R		
143	17	1933	28.1	94.6								17	Good Fix	LCH-R		
144	17	1956	28.1	94.6								15	Good Fix	LCH-R		
145	17	2000	28.2	94.6								10	Good Fix	GLS-R		
146	17	2032	28.2	94.6								12	Good Fix	LCH-R		
147	17	2033	28.2	94.6								10	Good Fix	GLS-R		
148	17	2050	28.2	94.6								15	Good Fix	LCH-R		
149	17	2100	28.2	94.7	90									GOES 5	2,1 VSBL 1	
150	17	2102	28.2	94.6	65	85	973	180	23	17		20	Open Northeast	NOAA	5/10	850MB
151	17	2105	28.3	94.4								10	Fair Fix	GLS-R		
152	17	2126	28.2	94.6								15	Good Fix	LCH-R		
153	17	2130	28.4	94.7								9	Fair Fix	GLS-R		
154	17	2131	28.2	94.7								15	Poor Fix-Possible center	BRO-R		
155	17	2151	28.2	94.6								15	Good Fix	LCH-R		
156	17	2203	28.3	94.6									Fair Fix	GLS-R		
157	17	2226	28.3	94.7								16	Good Fix	LCH-R		
158	17	2228	28.3	94.7									Good Fix	GLS-R		
159	17	2254	28.3	94.7								15	Good Fix	LCH-R		
160	17	2258	28.3	94.6									Good Fix	GLS-R		
161	17	2331	28.4	94.7								11	Good Fix	GLS-R		
162	17	2355	28.3	94.7								15	Good Fix	LCH-R		
163	17	2359	28.3	94.7								5	Good Fix	GLS-R		
164	18	0000	28.3	94.7	90									GOES 5	2,1 VSBL 1	

able 6 continued.

HURRICANE ALICIA continued.

IX NO.	DATE	TIME (GMT)	POSITION		MAX. WIND (KT)		MIN PRES. (MB)	MIN 700 MB HT. (M)	TEMP °C		EYE C=CIR. DIA E=ELIP. (N.MI)	CHARACTERISTICS	OBS UNIT	RESOLUTION	ACFT ALT
			LAT. (°N)	LONG. (°W)	SFC.	FLT. LVL.			JN.	OUT.					
165	18	0012	28.3	94.7		90	968	1153	24	17	15	Closed	NOAA	5/5	850MB
166	18	0026	28.3	94.7							15	Good Fix	LCH-R		
167	18	0029	28.5	94.7							5	Good Fix	GLS-R		
168	18	0104	28.4	94.8							10	Good Fix	GLS-R		
169	18	0125	28.4	94.7							15	Good Fix	LCH-R		
170	18	0130	28.4	94.8							10	Good Fix	GLS-R		
171	18	0151	28.4	94.8							14	Good Fix	LCH-R		
172	18	0203	28.5	94.8							10	Good Fix	GLS-R		
173	18	0225	28.5	94.8							14	Good Fix	LCH-R		
174	18	0229	28.5	94.8							10	Good Fix	GLS-R		
175	18	0250	28.5	94.9							14	Good Fix	LCH-R		
176	18	0259	28.5	94.8		90	966	1157							850MB
177	18	0300	28.5	94.8	102								GOES 5	2,1 IR 8	
178	18	0300	28.6	94.9							10	Good F x	GLS-R		
179	18	0325	28.6	94.9							14	Good F x	LCH-R		
180	18	0330	28.6	94.9							10	Good F x	GLS-R		
181	18	0425	28.7	95.0							12	Good G x	LCH-R		
182	18	0430	28.5	95.0							10	Good F x	GLS-R		
183	18	0450	28.7	95.0							10	Good F x	LCH-R		
184	18	0500	28.7	95.0							4	Good F x	GLS-R		
185	18	0504	28.6	95.8								Possible Center	BRO-R		
186	18	0525	28.7	94.9							10	Good F x	LCH-R		
187	18	0533	28.7	95.0							4	Good F x	GLS-R		
188	18	0550	28.8	95.1								Possible Center	LCH-R		
189	18	0600	28.9	95.0	102								GOES 5	2,1 IR 8	
190	18	0600	28.8	95.0								Good Fix	GLS-R		
191	18	0608	28.7	95.8								20° Overlay	BRO-R		
192	18	0625	28.9	95.1							10	Good Fix	LCH-R		
193	18	0625	29.0	95.0		95	963	1118	25	16	12	Closed	NOAA	5/5	850MB
194	18	0627	28.9	94.9								20° Overlay	BRO-R		
195	18	0627	28.9	94.9							10	Good Fix	GLS-R		
196	18	0653	29.0	95.1							10	Good Fix	LCH-R		
197	18	0700	28.7	95.2								15° Overlay	BRO-R		
198	18	0713	29.3	94.9							10	Fair Fix	GLS-R		
199	18	0725	29.1	95.2									LCH-R		

Table 6 continued.

HURRICANE ALICIA continued.

FIX NO.	DATE	TIME (GMT)	POSITION		MAX. WIND (KT)		MIN PRES. (MB)	MIN 700 MB HT. (M)	TEMP. °C		EYE C=CTR. DIA E=ELIP. (N.MI)	CHARACTERISTICS	OBS UNIT	RESOLUTION	ACFT ALT
			LAT. (°N)	LONG. (°W)	SFC.	FLT. LVL.			IN.	OUT.					
200	18	0725	28.8	95.3								15° Overlay	BRO-R		
201	18	0730	29.1	95.1							10	Good Fix	GLS-R		
202	18	0730	29.1	95.1								GOES 5		2.1 IR 8	
203	18	0750	29.1	95.3							10		LCH-R		
204	18	0758	29.1	95.1							10	Good Fix	GLS-R		
205	18	0800	28.9	95.4							8	Fair Fix	BRO-R		
206	18	0825	28.9	95.6							6	Good Fix	BRO-R		
207	18	0825	29.1	95.3									LCH-R		
208	18	0842	29.2	95.2		90	962	1103	22	17	12	Open North	NOAA	2/2	850MB
209	18	0855	29.2	95.4									LCH-R		
210	18	0902	29.2	95.4							17	Fair Fix	BRO-R		
211	18	0925	29.2	95.6							20	Fair Fix	BRO-R		
212	18	0925	29.2	95.4									LCH-R		
213	18	0955	29.3	95.6							30		LCH-R		
214	18	1001	29.5	95.4							22	Fair Fix	BRO-R		
215	18	1025	29.4	95.6							30		LCH-R		
216	18	1225	29.7	95.5									LCH-R		
217	18	1334	29.9	95.7									LCH-R		

Table 6 continued.

HURRICANE BARRY 23-29 AUGUST 1983

FIX NO.	DATE	TIME (GMT)	POSITION		MAX. WIND (KT) SFC.	MIN PRES. (MB)	MIN 700 MB HT. (M)	TEMP. °C		EYE C=CTR. DIA. E=ELIP. (N.M.I.)	CHARACTERISTICS	OBS. UNIT	RESOLUTION	ACFT ALT.
			LAT. (°N)	LONG. (°W)				IN.	OUT.					
1	22	1230	21.3	71.2	25							GOES 5	5 VSBL 1	
2	22	1830	23.5	73.5	30	1009						GOES 5	2.5 VSBL 1	
3	23	0000	23.5	74.5	30	1009						GOES 5	2.5 IR 8	
4	23	0600	24.5	75.5	30	1009						GOES 5	2.5 IR 8	
5	23	1230	25.5	75.0	30	1009						GOES 5	2.5 VLBL 1	
6	23	1800	26.5	75.7	30	1009						GOES 5	2.5 VSBL 1	
7	23	2232	26.6	76.1	60	1011		24	26			AF	10/5	15
8	24	0000	26.5	76.0	35	1005						GOES 5	2.5 IR 8	
9	24	0012	26.7	76.0		56	1010	26	22			AF	7/5	189M
10	24	0222	27.2	76.4		55	1010	24	23			AF	7/5	305M
11	24	0400	27.3	76.2								GOES 5	2.3 IR 8	
12	24	0600	27.3	76.2	35	1005						GOES 5	2.3 IR 8	
13	24	0628	27.6	76.5		25	1010	24	24	20		AF	5/3	1410M
14	24	0905	28.0	76.6		17	1011	24	25			AF	5/5	372M
15	24	1131	28.1	76.7	20	28	1011	26	24			AF	5/5	186M
16	24	1200	28.1	76.7	35	1005						GOES 5	2.3 VSBL 1	
17	24	1500	28.2	77.2	35	1005						GOES 5	2.3 VSBL 1	
18	24	1505	28.1	77.1	25	32	1013	25	24			AF	5/10	216M
19	24	1752	28.1	77.6	35	37	1011	25	24			AF	5/5	350M
20	24	1800	28.2	77.6	45	1000						GOES 5	2.3 VSBL 1	
21	24	2053	27.9	78.1	40	51	1011	25	23			AF	3/5	247M
22	24	2100	28.1	78.1	45	1000						GOES 5	2.3 VSBL 1	
23	24	2348	28.2	78.4	30	24	1011	25	25			AF	3/3	427M
24	25	0000	28.1	78.5	45	1000						GOES 5	2.5 IR 8	
25	25	0206	28.1	78.9		29	1012	25	24			AF	5/3	384M
26	25	0300	28.0	79.0	45	1000						GOES 5	2.3 IR 8	
27	25	0423	28.0	79.5		30	1012					AF		
28	25	0503	28.1	79.6		30	1012	25	25			AF	5/3	442M
29	25	0630	28.1	79.7	45	1000						GOES 5	2.5 IR 8	
30	25	0815	27.9	80.2		1007						AF		280M
31	25	1200	27.9	80.5								GOES 5	-.3 VSBL	
32	25	1800	27.7	82.1								GOES 5	-.5 VSBL	

Table 6 continued.

HURRICANE BARRY continued.

FIX NO.	DATE	TIME (GMT)	POSITION		MAX. WIND (KT)		MIN PRES.		TEMP. °C		EYE C=CIR. DIA. E=ELIP. (N.M.I.)	CHARACTERISTICS	OBS. UNIT	RESOLUTION	ACFT ALT
			LAT. (°N)	LONG. (°W)	SFC.	FLT. LVL.	MIN PRES. (MB)	MIN 700 MB HT. (M)	IN.	OUT.					
33	25	2100	27.2	82.9									GOES 5	-5 VSBL 1	
34	26	0000	27.2	83.7	25								GOES 5	2,5 IR 8	
35	26	0600	26.5	85.2	35		1005						GOES 5	2,5 IR 8	
36	26	1200	25.5	86.7	35		1005						GOES 5	2,5 VSBL 1	
37	26	1800	25.4	88.1	35		1005						GOES 5	2,5 VSBL 1	
38	26	1830	25.2	87.9		19	1013		25	23			AF	5/5	201M
39	26	2042	25.7	88.1	30	27	1011		25	26			AF	5/5	332M
40	26	2302	25.2	88.5	15	20	1011		25	26		Poorly defined	AF	5/3	338M
41	27	0030	25.2	89.6	35		1005						GOES 5	2,5 IR 8	
42	27	0215	25.0	89.1	28		1009		24	25			AF	5/3	357M
43	27	0625	25.3	90.5		40	1009		25	26			AF	20/8	293M
44	27	0630	25.1	90.5	35		1005						GOES 5	1,5 IR 8	
45	27	0827	25.6	90.7		30	1009		25	25			AF	20/8	323M
46	27	1146	25.8	91.4	15	37	1009		23	23			AF	5/4	408M
47	27	1200	25.6	91.5	35								GOES 5	2,5 VSBL 1	
48	27	1433	26.0	92.1	15	23	1009		25	25			AF	3/1	378M
49	27	1800	25.7	92.7	35		1009						GOES 5	2,5 VSBL 1	
50	27	1829	25.6	93.2	55	55	1002		26	26		Poorly defined	AF	2/2	405M
51	27	2036	25.6	93.4	45	33		1428					AF		850MB
52	27	2100	25.6	93.3	45		1000						GOES 5	2,5 VSBL 1	
53	27	2304	25.7	94.0	65	66	999		24		10	Poorly defined	AF	2/2	381M
54	28	0000	25.7	94.3	45		1000						GOES 5	1,5 IR 8	
55	28	0024	25.6	94.2	40	38	1000	3088					AF		700MB
56	28	0231	25.5	94.7		47	1000	3078	12	13	5	Closed Wall	AF	2/2	700MB
57	28	0600	25.6	96.0	55		994						GOES 5	2,5 IR 8	
58	28	0626	25.3	95.7		73		3075	16		7	Poorly defined	AF	3/3	700MB
59	28	0710	25.5	96.0							50	Possible Center 15° overlay	BRO-R		
60	28	0725	25.4	96.0							50	Possible Center 15° overlay	BRO-R		
61	28	0734	25.3	95.8			994	3085					AF		700MB
62	28	0805	25.3	96.1								Possible Center 15° overlay	BRO-R		
63	28	0825	25.3	96.1								Possible Center 15° overlay	BRO-R		

Table 6 continued.

HURRICANE BARRY continued.

FIX NO.	DATE	TIME (GMT)	POSITION		MAX. WIND (KT)		MIN. PRES. (MB)	MIN 700 MB MT. (M)	TEMP. °C		EYE C=CIR. DIA. E=ELIP. (N.MI.)	CHARACTERISTICS	OBS. UNIT	RESOLUTION	ACFT ALT
			LAT. (°N)	LONG. (°W)	SFC.	FLT. LVL.			IN.	OUT.					
64	28	0900	25.6	96.2	65		987						GOES 5	2,3 IR 8	
65	28	0905	25.3	96.2							18	Possible Center 15° overlay	BRO-R		
66	28	1210	25.3	96.9							13	Possible Center	BRO-R		
67	28	1230	25.4	96.9							12	Possible Center	BRO-R		
68	28	1230	25.3	96.7	65		987						GOES 5	2,5 VSBL	
69	28	1305	25.4	96.8							14	Possible Center	BRO-R		
70	28	1312	25.7	96.5	70	40	993	3037	14	14		Poorly defined	AF	0/1	700MB
71	28	1325	25.3	96.8								Possible Center	BRO-R		
72	28	1400	25.5	96.9							12	Poor Fix	BRO-R		
73	28	1425	25.4	97.0							12	Poor Fix	BRO-R		
74	28	1500	25.3	97.0							13	Good Fix	BRO-R		
75	28	1501	25.3	97.0	70	50	986	3004	16	10		Poorly defined	AF	0/1	700MB
76	28	1525	25.3	97.0							10	Good Fix	BRO-R		
77	28	1559	25.3	97.0							18	Fair Fix-Possible Ctr.	BRO-R		
78	28	1625	25.3	97.1							13	Good Fix	BRO-R		
79	28	1700	25.4	97.3									BRO-R		
80	28	1725	25.4	97.4							28	Good Fix	BRO-R		
81	28	1800	25.4	97.6							28	Good Fix	BRO-R		
82	28	1825	25.4	97.7							32	Good Fix	BRO-R		
83	28	1900	25.4	97.8							28	Good Fix	BRO-R		
84	28	1930	25.3	97.8							22	Good Fix	BRO-R		
85	28	2000	25.4	97.9							30	Good Fix	BRO-R		
86	28	2033	25.7	97.9							30	Fair Fix	BRO-R		
87	28	2100	25.4	98.0							25	Good Fix	BRO-R		
88	28	2130	25.4	98.1							30	Good Fix	BRO-R		
89	28	2200	25.5	98.1							20	Good Fix	BRO-R		
90	28	2230	25.4	98.2							28	Good Fix	BRO-R		
91	28	2300	25.5	98.3							35	Good Fix	BRO-R		
92	28	2330	25.5	98.4							32	Good Fix	BRO-R		
93	29	0000	25.5	98.5							33	Fair Fix	BRO-R		
94	29	0030	25.5	98.5							33	Possible Eye	BRO-R		
95	29	0130	25.5	98.7							37	Fair Fix	BRO-R		
96	29	0202	25.5	98.7							40	Fair Fix	BRO-R		
97	29	0230	25.5	98.8							40	Fair Fix	BRO-R		

Table 6 continued.

HURRICANE CHANTAL 10-15 SEPTEMBER 1983

CENTER FIXES

FIX NO.	DATE	TIME (GMT)	POSITION		MAX. WIND (KT)		MIN. PRES. (MB)	MIN 700 MB HT. (M)	TEMP. °C		EYE C=CTR. DIA. E=ELIP. (N.M.I.)	CHARACTERISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
			LAT. (°N)	LONG. (°W)	SFC.	FLT. LVL.			IN.	OUT.					
1	10	1230	30.0	64.5	25								GOES 5	2,5 VSBL 1	
2	10	1424	30.4	64.2	25	32	1010		23				AF	3/3	180M
3	10	1830	30.7	64.0	25								GOES 5	2,5 VSBL 1	
4	10	1837	30.9	64.1	30		1008		24	24			AF	5/2	213M
5	10	2053	31.1	63.8	35	40	1006		24	24			AF	5/2	168M
6	11	0000	31.6	63.3	35								GOES 5	2,3 IR 8	
7	11	0400	31.7	62.7									GOES 5	3 IR 8	
8	11	0600	32.0	62.5	35								GOES 5	2,3 IR 8	
9	11	1200	32.5	61.2	35								GOES 5	2,3 VSBL 1	
10	11	1229	32.4	61.2	55	50	996		25	24		Open South-Southwest	AF	3/1	338M
11	11	1500	32.6	60.6	45								GOES 5	2,3 VSBL 1	
12	11	1800	32.8	59.8	55								GOES 5	2,3 VSBL 1	
13	12	0000	33.3	58.5	55								GOES 5	2,5 IR 8	
14	12	0600	33.6	57.4	55								GOES 5	2,3 IR 8	
15	12	1200	34.0	56.2	55								GOES 5	2,3 VSBL 1	
16	12	1500	34.4	55.7	55								GOES 5	2,3 VSBL 1	
17	12	1800	34.5	55.2	55								GOES 5	2,5 VSBL 1	
18	13	0000	34.8	54.8	45								GOES 5	2,5 IR 8	
19	13	0600	35.4	54.7	45								GOES 5	1,3 IR 8	
20	13	1200	35.9	54.3	35								GOES 5	2,3 VSBL 1	
21	13	1800	36.3	54.1	35								GOES 5	2,5 IR 8	
22	14	0000	36.8	53.8	45								GOES 5	2,3 VSBL 1	
23	14	0600	37.4	53.7	45								GOES 5	2,5 IR 8	
24	14	1230	38.8	53.8	35								GOES 5	2,5 VSBL 1	
25	14	1800	39.3	52.8	35								GOES 5	2,3 VSBL 1	
26	15	0000	40.4	50.7	30								GOES 5	1,3 IR 8	
27	15	0600	41.7	48.8	30								GOES 5	1,3 IR 8	

Table 6 continued.

TROPICAL STORM DEAN 27-30 SEPTEMBER 1983

CENTER FIXES

FIX NO	DATE	TIME (GMT)	POSITION		MAX. WIND (KT)		MIN. PRES. (MB)	MIN 700 MB HT, (M)	TEMP. °C		EYE C=CTR. DIA. E=ELIP. (N.M.I.)	CHARACTERISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT
			LAT. (°N)	LONG. (°W)	SFC	FLT. LVL.			IN	OUT					
1	26	1700	28.0	73.0	25										
2	27	0000	28.6	72.9	30								GOES 5	2,5 VSBL 1	
3	27	0600	29.5	72.5	30								GOES 5	2,5 IR 8	
4	27	1200	29.5	72.5	30								GOES 5	2,5 IR 8	
5	27	1800	30.4	72.2	40								GOES 5	2,5 VSBL 1	
6	27	1943	30.3	72.2	50	35	1000						GOES 5	2,5 VSBL 1	
7	27	2136	30.7	71.8	35	28	999						AF	2/2	457M
8	28	0000	30.9	71.5	40								AF	1/1	457M
9	28	0600	32.0	71.2	40								GOES 5	2,3 IR 8	
10	28	1230	33.2	70.6	40								GOES 5	2,3 IR 8	
11	28	1303	33.3	70.6	45	34	999						GOES 5	2,3 VSBL 1	
12	28	1700	34.1	70.6	60	50	1000						AF		457M
13	28	1730	34.1	70.6	50								AF		457M
14	29	0000	34.3	70.7	45								GOES 5	2,3 VSBL 1	
15	29	0030	34.5	71.0		65	1003						GOES 5	2,5 IR 8	
16	29	0340	34.4	71.3		58	1005						AF	5/3	457M
17	29	0514	34.6	71.3		17	1005						AF		457M
18	29	0600	34.2	71.1	45					23			AF	3/3	427M
19	29	0911	34.6	71.2		40	1006						GOES 5	2,3 IR 8	
20	29	1146	35.0	71.5	45	50	1008						NOAA	5/5	457M
21	29	1200	35.2	71.3	40				22.5	23			NOAA	5/5	457M
22	29	1401	35.2	72.0	60	40	1008						GOES 5	2,5 VSBL 1	
23	29	1530	35.7	72.2									NOAA		457M
24	29	1730	36.0	73.0	35								GOES 5	2,3 VSBL 1	
25	29	1820	35.8	73.2	75	65	1005						GOES 5	2,5 VSBL 1	
26	29	2020	35.8	73.3	85	75	1003		23	21			NOAA	2/5	447M
27	29	2100	36.3	73.5	50								NOAA		457M
28	29	2303	36.0	73.7		60	1007						GOES 5	2,5 VSBL 1	
29	30	0000	36.2	73.7	50				22	16			NOAA	2/5	452M
30	30	0258	36.5	74.4		42	1009		20	20		Poorly defined	GOES 5	2,5 IR 8	
31	30	0330	36.8	74.2	40								NOAA	5/5	456M
32	30	0600	37.0	75.0		55	1008		22	21		Poorly defined	GOES 5	2,5 IR 8	
33	30	0600	37.2	74.8	40								NOAA	5/5	465M
34	30	0900	37.5	75.5	40								GOES 5	2,5 IR 8	
													GOES 5	2,5 IR 8	

Table 7. Supplementary vortex messages, 1983 tropical cyclones

ALICIA

URNT12	KMI	161333		
AF963	0303	<u>ALICIA</u>	OB 04	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
80280	80914	80013	82219	13037
60276	60916	60012	62219	13039
45274	40918	40009	42120	11049
30272	30919	30005	32421	14059
15271	10921	10002	12421	19021
CC2271	C0924	C0002	C2421	161200
MF059	07030	AZ270		
15272	10927	10007	12220	02032
30272	30931	30010	32120	01036
45270	40933	40012	42319	36024
60270	60937	60013	62418	36017
80270	80940	80014	82420	02015
00270	00943	00014	02420	01014
MF036	29030			

URNT12	KMIA	161525		
AF963	0303	<u>ALICIA</u>	OB 08	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00253	00924	00015	02416	28018
80257	80925	80014	82220	24040
60261	60926	60012	62221	24042
45265	40927	40009	42221	27045
30267	30926	30007	32321	28053
15269	10926	10003	12422	29042
CC271	C0925	C0001	C2322	161414
MF053	20030	AZ270		
15273	10924	10004	12322	15034
30275	30925	30006	32220	11038
45278	40927	40011	42219	09041
60281	60927	60013	62219	09034
80284	80927	80015	82219	10023
00287	00926	00016	02219	14012
MF041	33045			

Table 7 continued

ALICIA

URNT12	KMIA	161705		
AF963	0303	<u>ALICIA</u>	OB 12	MIA
SUPPLEMENTARY	VORTEX	DATA MESSAGE		
00270	00943	00014	02517	02014
80269	80939	80013	82319	33026
60269	60936	60012	62320	34039
45270	40933	40009	42121	32051
30270	30930	30007	32321	34036
15271	10927	10000	12222	33011
CC272	C0926	C0000	C2221	161604
MF051	26045	AZ270		
15272	10922	10006	12322	18025
30271	30920	30009	32221	19042
45270	40917	40013	42119	17045
60270	60915	60014	62218	16035
80270	80912	80015	82316	17032
00270	00908	00016	02317	19022
MF045	10045			

URNT12	KMIA	161903		
AF963	0303	<u>ALICIA</u>	OB 16	KMIA
SUPPLEMENTARY	VORTEX	DATA MESSAGE		
80282	80927	80013	82220	00049
60278	60929	60009	62220	07056
45276	40930	40006	42120	06054
30274	30930	30003	32421	05045
15273	10928	10997	12321	05028
CC273	C0927	C0997	C2221	161746
MF056	36060	AZ270		
15269	10927	10007	12221	27030
30267	30925	30009	32220	24034
45264	40924	40011	42320	25023
60263	60923	60012	62519	23026
80///	8////	8////	8////	////
00///	0////	0////	0////	////
MF034	16030			

Table 7 continued.

ALICIA

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URNT12  KMIA  161945
AF963  0303  ALICIA  OB  19  KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
00///  0////  0////  0////  /////
80///  8////  8////  8////  /////
60///  6////  6////  6////  /////
45265  40926  40010  42220  23041
30268  30928  30006  32321  24049
15270  10928  10003  12321  25045
CC272  C0928  C0997  C2321  161845
MF049  18030  AZ270
15///  1////  1////  1////  /////
30276  30923  33312  30808  17033
45278  40921  43314  40806  15038
60279  60919  63316  60706  13033
80281  80918  83316  80704  13019
00283  00915  03317  01152  13036
MF038  05045
OUTBOUND LEG FLOWN AT FL 100

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URNT12  KMIA  162350  COR
AF866  0403  ALICIA  OB  05  COR  KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
00///  0////  0////  0////  /////
80275  80915  80013  82320  16038
60275  60920  60010  62222  15045
45275  40924  40006  42323  15046
30275  30927  30002  32424  15060
15275  10929  10998  12524  14035
CC274  C0932  C0991  C2626  162224
MF060  09030  AZ///
15275  10934  10994  12525  07036
30274  30938  30005  32323  01054
45274  40940  40006  42222  35049
60274  60942  60008  62322  35041
80274  80947  80010  82422  35033
00274  00950  00011  02421  35018
MF054  27030

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Table 7 continued.

ALICIA

URNT12	KMIA	170132	COR		
AF866	0403	<u>ALICIA</u>	OB 09	COR	KMIA
SUPPLEMENTARY		VORTEX	DATA	MESSAGE	
00257	00932	00010	02424	28027	
80261	80932	80010	82523	26028	
60264	60931	60009	62521	24031	
45266	40931	40008	42521	24036	
30268	30931	30004	32222	24049	
15272	10931	10998	12424	23041	
CC275	C0933	C0990	C2626	170028	
MF055	18020	AZ///			
15277	10933	10002	12323	09062	
30279	30934	30006	32323	08054	
45282	40933	40010	42222	10050	
60285	60933	60011	62323	08038	
80288	80933	80012	82321	08027	
00291	00932	00013	02424	11033	
MF062	36015				

URNT12	KMIA	170309			
AF866	0403	<u>ALICIA</u>	OB 13	KMIA	
SUPPLEMENTARY		VORTEX	DATA	MESSAGE	
00///	0////	0////	0////	/////	
80///	8////	8////	8////	/////	
60281	60943	63145	60906	03033	
45279	40941	43125	40908	03040	
30278	30938	33095	30909	03032	
15277	10936	13034	10909	03032	
CC275	C0933	C3002	C1310	170201	
MF045	27035	AZ///			
15275	10930	13067	11010	19034	
30275	30927	33111	30909	20042	
45275	40924	43139	40808	18030	
60275	60921	63146	60707	17030	
80275	80918	83164	80807	16032	
00275	00914	03177	00805	16024	
MF042	09030				

Table 7 continued.

ALICIA

URNT12	KMIA	170448	COR		
AF866	0403	<u>ALICIA</u>	OB	17	COR KMIA
SUPPLEMENTARY		VORTEX	DATA MESSAGE		
00292	00933	03173	00805	12033	
80289	80935	83162	80808	09041	
60285	60934	63138	61006	10042	
45282	40934	43125	41106	10044	
30280	30934	33097	31007	08044	
15278	10934	13030	11110	09057	
CC276	C0935	C3003	C1310	170400	
MF057	36015	AZ///			
15273	10935	13069	11210	25021	
30270	30935	33101	30909	27031	
45269	40935	43125	40908	25031	
60266	60935	63140	60707	26037	
80///	8////	8////	8////	/////	
00///	0////	0////	0////	/////	
MF037	18060				

URNT12	KMIA	170603			
AF866	0403	<u>ALICIA</u>	OB	20	KMIA
SUPPLEMENTARY		VORTEX	DATA MESSAGE		
00///	0////	0////	0////	/////	
80///	8////	8////	8////	/////	
60266	60933	63133	60808	26032	
45269	40935	43115	40909	26034	
30271	30935	33080	31010	27039	
15274	10935	13027	11310	26036	
CC276	C0936	C2992	C1410	170501	
MF039	18030	AZ///			
15277	10932	13093	10808	16049	
30278	30930	33133	30808	17028	
45280	40927	43145	40808	14036	
60281	60926	63147	60707	13041	
80283	80925	8////	8////	15024	
00285	00922	03178	00804	13029	
MF049	09015	LAST REPORT ETA KBIX 17/0620Z OB 01-20 TO KMIA			

Table 7 continued

BARRY

URNT12	KMIA	232355	COR02		
AF985	05XX	<u>INVEST</u>	OB 12	COR02	KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE					
00///	0////	0////	0////	////	
80///	8////	8////	8////	////	
60///	6////	6////	6////	////	
45///	4////	4////	4////	////	
30///	3////	3////	3////	////	
15///	1////	1////	1////	////	
CC266	C0761	C0011	C2423	232232	
MF062	14015	AZ///			
15263	10761	10014	12523	24026	
30260	30761	30015	32121	21041	
45259	40761	40018	42121	22028	
60255	60761	60018	62222	22025	
80///	8////	8////	8////	////	
00///	0////	0////	0////	////	
MF041	18030				

URNT12	KMIA	240133	COR		
AF985	0504	<u>CYCLONE</u>	OB 16	COR	KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE					
00///	0////	0////	0////	////	
80///	8////	8////	8////	////	
60///	6////	6////	6////	////	
45///	4////	4////	4////	////	
30267	30756	30016	32321	19046	
15267	10759	10012	12222	18056	
CC267	C0760	C0010	C2622	240012	
MF056	05008	AZ310			
15266	10764	10013	12422	34037	
30266	30767	30015	32322	33028	
45266	40769	40016	42422	35019	
60266	60772	60016	62521	33022	
80266	80775	80017	82523	32021	
00266	00779	00017	02523	33015	
MF037	27015				

Table 7 continued.

BARRY

URNT12	KMIA	240304		
AF985	0504	<u>CYCLONE</u>	OB 20	KMIA
SUPPLEMENTARY		VORTEX	DATA	MESSAGE
00257	00761	00018	02219	23038
80258	80759	80018	82220	22027
60260	60759	60018	62120	22048
45262	40761	40016	42221	20055
30265	30763	30015	32424	29032
15268	10762	10014	12323	29055
CC271	C0763	C0010	C2423	240222
MF055	18015	AZ///		
15274	10764	10014	12423	09034
30276	30764	30015	32321	10026
45279	40765	40017	42322	10025
60///	6////	6////	6////	/////
80///	8////	8////	8////	/////
00///	0////	0////	0////	/////
MF034	36015			

URNT12	KMIA	240742		
AF964	0604	<u>BARRY</u>	OB 06	KMIA
SUPPLEMENTARY		VORTEX	DATA	MESSAGE
00///	0////	0////	0////	/////
80269	80779	80018	824//	33009
60269	60775	60016	62424	32018
45271	40772	40016	42424	34017
30272	30770	30015	32322	32024
15274	10767	10013	12323	33017
CC276	C0765	C0010	C2423	240628
MF025	27030	AZ///		
15276	10762	10014	12322	18030
30275	30759	30017	32222	19053
45275	40756	40017	42222	16036
60275	60754	60018	62222	17035
80275	80750	80019	82322	18027
00275	00746	00019	02320	16016
MF053	09030			

Table 7 continued

BARRY

URNT12	KMIA	241020		
AF964	0604	<u>BARRY</u>	OB 10	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00260	00765	00020	02220	20036
80263	80766	80019	82221	22027
60267	60770	60017	62323	26013
45269	40769	40017	42323	26017
30272	30770	30016	32323	28014
15276	10767	10014	12323	20017
CC280	C0766	C0011	C2525	240905
MF017	21015	AZ///		
15284	10765	10016	12323	12028
30287	30766	30017	32323	12028
45290	40766	40018	42322	10021
60292	60765	60019	62423	10020
80296	80765	80019	82422	11017
00298	00765	00019	02323	11016
MF032	36022			

URNT12	KMIA	241240		
AF964	0604	<u>BARRY</u>	OB 14	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00280	00785	00018	02423	30023
80279	80781	80018	82424	32020
60279	60776	60017	62422	33020
45278	40773	40016	42423	32027
30277	30772	30013	32424	32028
15280	10767	10012	12424	34010
CC281	C0765	C0011	C2626	241131
MF028	27030	AZ///		
15278	10770	10014	12525	32015
30278	30773	30014	32525	31026
45277	40775	40015	42623	29041
60276	60779	60018	62422	35008
80276	80782	80018	82424	34016
00275	00786	00018	02424	36015
MF041	25045			

Table 7 continued.

BARRY

URNT12	KMIA	241635		
AF963	0704	<u>BARRY</u>	OB	06 KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00///	0///	0///	0///	////
80282	80786	80018	82420	35025
60283	60782	60018	62419	36028
45283	40778	40016	42322	36029
30283	30776	30015	32422	36029
15283	10773	10013	12523	02026
CC281	C0771	C0013	C2523	241505
MF032	27035	AZ320		
15282	10768	10016	12321	16039
30282	30766	30017	32221	16032
45282	40763	40018	42321	18027
60282	60759	60019	62220	17027
80281	80756	80020	82319	17024
00281	00752	00020	02414	18016
MF039	08025			

URNT12	IMIA	241930		
AF963	0704	<u>BARRY</u>	OB	10 KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00296	07772	00019	02321	10025
80294	80772	80018	82321	10022
60291	60772	60017	62421	12023
45288	40772	40017	42320	13027
30286	30773	30015	32321	12035
15283	10775	10013	12322	12031
CC281	C0776	C0011	C2423	241752
MF037	03005	AZ320		
15280	10773	10012	12221	18028
30277	30773	30015	32220	18030
45274	40774	40017	42220	21012
60271	60775	60018	62321	19013
80268	80775	80018	82321	19022
00265	00776	00019	02321	19029
MF030	14025			

Table 7 continued.

BARRY

URNT12	KMIA	242031		
AF963	0704	<u>BARRY</u>	OB 14	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00282	07761	00019	02320	17035
80282	80764	80018	82320	17037
60281	60768	60017	62320	17040
45281	40771	40016	42220	18038
30281	30774	30015	32220	18041
15281	10777	10012	12320	16051
CC279	C0781	C0011	C2523	242053
MF051	06025	AZ///		
15282	10782	10012	12523	09020
30282	30786	30013	32422	03026
45282	40788	40014	42522	04024
60282	60791	60015	62422	01024
80282	80796	80016	82421	01025
00282	00800	00017	02521	35018
MF026	29030			

URNT12	KMIA	250148		
AF866	0704	<u>BARRY</u>	OB 07	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00287	00802	00016	02523	05024
80286	80798	80016	82522	02021
60285	60795	60015	62423	02023
45284	40792	40014	42423	02022
30283	30790	30012	32423	01022
15282	10787	10011	12424	01011
CC282	C0784	C0011	C2524	242348
MF024	31100	AZ///		
15281	10781	10014	12323	19035
30282	30779	30015	32323	17027
45283	40777	40016	42322	17018
60282	60774	60017	62322	18023
80282	80771	80018	82321	17019
00282	00766	00019	02421	18016
MF035	09015			

Table 7 continued.

BARRY

URNT12	KMIA	250334		
AF866	0804	BARRY	OB 13	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00298	00785	00018	02422	10027
80295	80785	80018	82422	09024
60292	60785	60016	62423	08025
45288	40783	40015	42423	10029
30286	30784	30014	32423	11034
15285	10785	10013	12423	12027
CC281	C0789	C0012	C2524	250206
MF034	36030	AZ///		
15279	10789	10013	12423	29004
30276	30790	30015	32423	28009
45274	40790	40015	42322	22005
60271	60790	60017	62322	20018
80269	80790	80017	82322	25009
00265	00790	00018	02221	26017
MF018	18060			

URNT12	KMIA	250541		
AF866	0804	BARRY	OB 19	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00282	00772	00018	02421	17024
80282	80776	80018	82423	15026
60282	60779	60017	62423	15027
45282	40782	40016	42423	15030
30282	30786	30015	32424	14030
15282	10788	10015	12424	15024
CC280	C0795	C0012	C2525	250423
MF030	09030	AZ///		
15280	10799	10011	12523	01015
30281	30801	30013	32423	02022
45280	40804	40014	42423	36024
60///	6////	6////	6////	/////
80///	8////	8////	8////	/////
00///	0////	0////	0////	/////

MF024 27045

POSITION W OF 45NM PT OVR LAND LAST REPORT OBS 01-19 TO KMIA.
ETA KBIX 25/0710Z

Table 7 continued.

BARRY

URNT12	KMIA	251108	COR	
AF969	0904	<u>BARRY</u>	OB 06	COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE				
00297	00801	00011	02623	10017
80293	80801	80011	82621	11023
60290	60801	60010	62524	11017
45287	40801	40009	42624	13025
30285	30802	30007	32624	15016
15282	10802	10007	12524	17020
CC279	C0802	C0007	C2525	250815
MF025	01045	AZ///		
15277	10801	10010	12524	18013
30277	30799	30011	32524	18022
45277	40796	40011	42624	18025
60276	60793	60011	62523	17019
80277	80790	80008	82522	15027
00279	00785	00012	02521	13012
MF025	09045			
CENTER APPEARS TO BE OVR LAND AT 1045				

URNT12	KMIA	261945	
AF972	1204	<u>BARRY</u>	OB 07 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE			
00///	0///	0///	0///
80///	8///	8///	8///
60///	6///	6///	6///
45///	4///	4///	4///
30///	3///	3///	3///
15///	1///	1///	1///
CC252	C0879	C0013	C2522 261830
MF017	36080	AZ///	
15252	10878	10013	12622 17013
30257	30878	30013	32522 13013
45260	40879	40013	42522 15015
60263	60879	60013	62622 13012
80265	80879	80012	82623 14017
00269	00878	00013	02623 14016

Table 7 continued

BARRY

URNT12	KMIA	262218			
AF972	1204	<u>BARRY</u>	OB	10	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE		
00251	00897	00014	02522	30011	
80251	80893	80014	82522	32015	
60251	60889	60013	62622	32020	
45252	40887	40012	42422	35027	
30252	30884	30012	32421	33020	
15257	10882	10012	12421	26004	
CC257	C0881	C0011	C2522	262042	
MF027	27045	AZ///			
15257	10876	10013	12422	15016	
30257	30873	30013	32421	17017	
45257	40871	40014	42421	16020	
60257	60868	60014	62521	18016	
80257	80864	80014	82522	13011	
00257	00861	00015	02521	15012	
MF020	09045				

URNT12	KMIA	270021			
AF972	1204	<u>BARRY</u>	OB	14	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE		
00274	00883	00013	02622	13017	
80270	80881	80013	82622	14020	
60267	60881	60013	62522	15018	
45264	40882	40012	42522	14011	
30261	30885	30011	32522	13009	
15///	1////	1////	1////	////	
CC252	C0885	C0011	C2521	262302	
MF020	36080	AZ///			
15250	10885	10012	12321	21014	
30245	30884	30012	32421	24016	
45243	40884	40012	42521	28005	
60241	60885	60013	62521	27010	
80237	80885	80013	82521	21009	
00234	00885	00013	02521	09010	
MF016	18030				
BROAD AREA OF CALM SFC WND FROM 35-100NM TO S OF CNTR					

Table 7 continued.

BARRY

URNT12	KMIA	270300		
AF972	1204	<u>BARRY</u>	OB 18	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00252	00870	00013	02522	11016
80252	80874	80013	82421	18009
60252	60876	60013	62421	18012
45251	40879	40013	42421	14021
30251	30883	30013	32322	16017
15250	10887	10012	12321	16013
CC250	C0891	C0009	C2422	270215
MF028	09020	AZ///		
15253	10891	10011	12322	09009
30255	30892	30011	32522	10016
45257	40892	40012	42522	12018
60260	60892	60012	62522	12020
80264	80891	80012	82523	14023
00267	00891	00014	02523	13031
MF031	02100			

URNT12	KMIA	270803		
AF985	1304	<u>BARRY</u>	OB 04	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00271	00904	00014	02524	10024
80266	80905	80013	82623	09022
60262	60905	60012	62523	08026
45259	40905	40011	42524	08030
30256	30905	30010	32525	03040
15///	1////	1////	1////	////
CC253	C0905	C0009	C2523	270625
MF040	36018	AZ270		
15257	10905	10011	12424	11036
30261	30904	30012	32423	12019
45///	4////	4////	4////	////
60267	60904	60012	62422	14026
80///	8////	8////	8////	////
00271	00904	00013	02423	13028
MF036	36015			

Table 7 continued

BARRY

URNT12	KMIA	271003		
AF985	1304	<u>BARRY</u>	OB 08	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00///	0////	0////	0////	////
80270	80908	80012	82524	12028
60267	60909	60012	62523	10030
45263	40911	40011	42524	08028
30259	30911	30010	32524	06026
15257	10910	1////	12524	07012
CC256	C0907	C0009	C2524	270827
MF030	35060	AZ270		
15257	10904	10010	12525	18014
30257	30902	30010	32524	17021
45257	40900	40011	42524	17024
60256	60897	60012	62424	16021
80256	80892	80013	82523	15023
00255	00888	00013	02522	16023
MF024	09045			

URNT12	KMIA	271320		
AF963	1404	<u>BARRY</u>	OB 04	KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00///	0////	0////	0////	////
80///	8////	8////	8////	////
60268	60914	60011	62222	13037
45266	40916	40011	42322	14023
30262	30915	30009	32222	10020
15260	10915	10010	12221	99005
CC258	C0914	C0009	C2322	271146
MF037	01060	AZ260		
15256	10914	10010	12322	22028
30253	30913	30012	32320	19020
45251	40914	40012	42220	19022
60248	60914	60012	62220	21012
80245	80914	80013	82318	20010
00242	00914	00014	02219	99005
MF028	16015			

Table 7 continued

BARRY

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* URNT12 KMIA 271544
AF963 1404 BARRY OB 08 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
00259 00906 00013 02322 18023
80269 80909 80012 82420 18019
60260 60912 60012 62421 19023
45261 40915 40012 42422 19020
30261 30917 30011 32323 18023
15261 10920 10009 12523 17016
CC260 C0921 C0009 C2523 271433
MF023 08025 AZ260
15/// 1//// 1//// 1//// ////
30264 30920 38006 31715 10014
45/// 4//// 4//// 4//// ////
60268 60917 63179 60902 09022
80271 80915 83186 80900 09017
00274 00913 03195 00851 09020
MF/// ////
OUT BOUND OBS MISSING DUE TO CLIMB

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URNT12 KMIA 271948
AF977 1504 BARRY OB 05 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
00277 00928 00019 02524 07027
80274 80928 80014 82624 11013
60271 60930 60013 62624 07014
45268 40929 40013 42624 07017
30267 30928 30012 32624 07014
15258 10927 10007 12524 17018
CC256 C0932 C0002 C2623 271829
MF055 36010 AZ///
15/// 1//// 1//// 1//// ////
30251 30931 32418 31715 27026
45248 40931 42508 41814 27018
60245 60931 62501 61614 27007
80242 80930 82513 81813 26010
00239 00930 02522 01714 24016
MF026 18030

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Table 7 continued.

BARRY

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URNT12  KMIA  272200
AF977  1504  BARRY  OB  09  KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
00257  00915  02514  01715  15017
80257  80917  82509  81815  14020
60257  60921  62501  61815  15015
45256  40923  42493  41816  17019
30256  30926  32488  31916  16024
15257  10932  12466  12515  10033
CC256  C0934  C2428  C2515  272036
MF033  09015  AZ///
15///  1////  1////  1////  1////
30255  30937  32456  31917  03041
45257  40943  42473  41717  36036
60257  60945  62490  61814  02036
80257  80948  82499  81717  01034
00255  00952  02507  01916  01028
MF041  27030

```

```

URNT12  KMIA  280029
AF977  1504  BARRY  OB  13  KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
00239  00932  02509  01812  24015
80242  80935  82509  81813  22015
60246  60937  62503  61714  21019
45248  40937  42498  41616  23021
30251  30937  32491  31815  20028
15252  10938  12451  11916  18028
CC257  C0940  C0999  C2423  272304
MF066  09005  AZ///
15260  10939  12465  12115  12041
30262  30939  32481  31818  12027
45265  40940  42490  42016  11029
60267  60941  62497  61817  09026
80270  80941  82502  81915  10018
00272  00940  02509  01914  10020
MF041  36015

```

Table 7 continued.

BARRY

URNT12	KMIA	280155		
AF977	1504	<u>BARRY</u>	OB 17	KMIA
SUPPLEMENTARY		VORTEX	DATA	MESSAGE
00///	0////	0////	0////	/////
80257	80958	83156	81206	34027
60256	60955	63139	60807	34038
45255	40951	43129	41008	08034
30255	30948	33117	30908	35030
15255	10945	13095	11207	36036
CC256	C0942	C3088	C1505	280024
MF038	27060	AZ///		
15257	10938	13117	11304	15035
30257	30935	33142	31203	13028
45258	40931	43147	41105	15014
60257	60929	63156	61106	14019
80257	80927	83159	81006	14015
00257	00923	03165	01005	16016
MF035	09015			

URNT12	KMIA	280340		
AF977	1504	<u>BARRY</u>	OB 22	KMIA
SUPPLEMENTARY		VORTEX	DATA	MESSAGE
00273	00943	03169	01204	07013
80260	80942	83162	81204	09020
60267	60943	63154	61204	07022
45264	40945	43149	41304	09022
30261	30945	33140	31203	10035
15258	10947	13130	11305	11028
CC255	C0947	C3078	C1211	280231
MF047	36010	AZ///		
15///	1////	1////	1////	/////
30258	30942	33134	31304	13036
45261	40941	43147	41303	12022
60262	60940	63157	61204	15022
80265	80937	83163	81105	15023
00267	00935	03167	01105	15023
MF036	36030			

Table 7 continued.

BARRY

```

URNT12  KMIA  280849
AF963  1604  BARRY  OB  06  KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
00265  00943  00012  02321  13029
80262  80946  80011  82321  13027
60261  60949  60010  62320  14035
45///  4////  4////  4////  /////
30258  30955  3////  3////  08046
15///  1////  1////  1////  /////
CC253  C0957  C3075  C1610  280626
MF073  05011  AZ///
15251  10960  13115  10808  34041
30248  30960  3////  30806  /////
45245  40960  43124  40807  /////
60243  60959  63135  60906  /////
80240  80959  83147  80705  /////
00237  00957  03156  00702  /////
MF041  21015
HVY R DURING OUTBOUND LEG DOPPLER RADAR ATTENUATED

```

```

URNT12  KMIA  281422
AF985  1704  BARRY  OB  07  KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
00///  0////  0////  0////  0////
80///  8////  8////  8////  /////
60///  6////  6////  6////  /////
45265  40961  43141  40906  10029
30260  30962  33122  31008  09037
15256  10964  13083  11110  12040
CC256  C0965  C3037  C1407  281312
MF040  04015  AZ///
15251  10969  13096  108//  36007
30249  30966  33132  308//  26029
45246  40964  43137  409//  28035
60244  60964  63147  608//  26019
80242  80964  83147  808//  26011
00238  00965  03153  008//  25018
MF035  18045
HAIL - HVY R - OCNL LTG OUTBOUND TO SOUTH

```

Table 7 continued.

BARRY

```

URNT12 KMIA 281615
AF985 1704 BARRY OB 11 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
00/// 0//// 0//// 0//// /////
80256 80956 83168 808// 14029
60256 60958 63140 610// 13032
45255 40962 43131 408// 13038
30254 30964 33107 310// 15050
15/// 1//// 1//// 1//// /////
CC254 C0969 C3004 C16// 281501
MF050 04030 AZ///
15256 10969 13079 111// 12049
30258 30967 33131 309// 13041
45260 40965 43145 410// 12033
60262 60963 63153 609// 12030
80264 80960 83162 810// 14030
00266 00957 03171 010// 13023
MF049 03015
MDT TURB - HAIL - HVY R AND OCNL LTG

```

Table 7 continued.

CHANTAL

```

URNT12 KMIA 091506
AF969 01XX INVEST OB 15 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
00/// 0/// 0/// 0/// 0///
80/// 8/// 8/// 8/// 8///
60255 60670 60018 62520 01012
45256 40668 40018 42521 31010
30256 30666 30019 32521 02015
15256 10663 10019 12422 36016
CC256 C0660 C0019 C2322 091420
MF016 27015 AZ///
15256 10658 10019 12422 20008
30256 30654 30019 32421 18012
45256 40651 40019 42420 20008
60256 60648 60019 62420 19011
80/// 8/// 8/// 8/// 8///
00/// 0/// 0/// 0/// 0///
MF012 09030

```

```

URNT12 KMIA 091623
AF969 01XX INVEST OB 18 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE
00/// 0/// 0/// 0/// 0///
80/// 8/// 8/// 8/// 8///
60265 60660 60018 62520 07009
45263 40660 40019 42520 06008
30261 30660 30019 32421 06007
15259 10660 10019 12420 02007
CC258 C0660 C0019 C2421 091516
MF009 36060 AZ///
15/// 1/// 1/// 1/// 1///
30/// 3/// 3/// 3/// 3///
45/// 4/// 4/// 4/// 4///
60/// 6/// 6/// 6/// 6///
80/// 8/// 8/// 8/// 8///
00/// 0/// 0/// 0/// 0///
MF/// 0///

```

Table 7 continued.

URNT12	KMIA	101942		
AF967	0305	<u>CYCLONE</u>	OB	10 KMIA
SUPPLEMENTARY		<u>VORTEX</u>	DATA	MESSAGE
00///	0////	0////	0////	/////
80///	8////	8////	8////	/////
60///	6////	6////	6////	/////
45///	4////	4////	4////	/////
30///	3////	3////	3////	/////
15///	1////	1////	1////	/////
CC309	C0641	C0008	C24//	101837
MF///	/////	AZ///		
15313	10640	10011	12222	08022
30315	30640	30013	32323	07023
45317	40641	40014	42323	07016
60319	60642	60015	62424	10017
80323	80642	80015	82423	10017
00325	00643	00016	02523	05017
MF023	36060			
30 KT SFC WINDS EXTEND APPROX 20NM N OF CNTR				

URNT12	KMIA	102149		
AF967	0305	<u>CYCLONE</u>	OB	14 KMIA
SUPPLEMENTARY		<u>VORTEX</u>	DATA	MESSAGE
00308	00660	00016	02423	35014
80309	80655	80015	82321	34007
60309	60651	60015	62523	34007
45309	40648	40014	42323	32008
30309	30646	30014	32222	31019
15310	10643	10013	12423	31019
CC311	C0638	C0006	C2424	102053
MF040	27006	AZ///		
15308	10638	10013	12222	30029
30306	30638	30013	32221	26018
45303	40638	40014	42221	26018
60///	6////	6////	6////	/////
80///	8////	8////	8////	/////
00///	0////	0////	0////	/////
MF029	18015			
25 KT SFC WINDS EXTEND 40NM S OF CNTR				

Table 7 continued

CHANTAL

URNT12	KMIA	111333		
AF977	0405	<u>CHANTAL</u>	OB	10 KMIA
SUPPLEMENTARY	VORTEX	DATA	MESSAGE	
00337	00644	00016	02220	33012
80334	80635	80015	82315	02032
60334	60631	60015	62217	02031
45333	40622	40013	42322	03031
30331	30617	30011	32422	01017
15329	10614	10009	12322	02029
CC324	C0612	C0996	C2524	111229
MF050	27005	AZ///		
15///	1////	1////	1////	/////
30///	3////	3////	3////	/////
45///	4////	4////	4////	/////
60///	6////	6////	6////	/////
80///	8////	8////	8////	/////
00///	0////	0////	0////	/////
MF///	/////			

Table 7 continued.

DEAN

URNT12	KMIA	290434	COR	
AF969	0307	<u>DEAN</u>	OB 08	COR KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE				
00344	00690	00011	02220	18023
80345	80694	80009	82221	18030
60345	60698	60008	62221	18026
45345	40701	40007	42221	18023
30345	30704	30006	32222	15018
15344	10707	10004	12222	20016
CC344	C0710	C0003	C2422	290030
MF030	09080	AZ330		
15347	10709	10006	12222	11024
30350	30708	30007	32320	09020
45353	40707	40008	42221	11019
60356	60710	60010	61919	03058
80359	80713	80012	81918	04052
00362	00713	00014	01919	05046
MF058	36060			

URNT12	KMIA	290632	
AF969	0307	<u>DEAN</u>	OB 13 KMIA
SUPPLEMENTARY VORTEX DATA MESSAGE			
00328	00714	00011	02120 31016
80331	80714	80010	82219 31012
60334	60714	60008	62221 28017
45337	40714	40007	42222 28012
30339	30713	30005	32323 33006
15342	10713	10005	12322 34007
CC346	C0712	C0005	C2322 290514
MF017	18060	AZ330	
15346	10716	10006	12121 36029
30346	30720	30008	32020 04040
45346	40722	40009	42119 02040
60346	60725	60010	62019 05034
80346	80729	80012	82020 03033
00346	00733	00013	02019 04023
MF040	27030		

Table 7 continued.

DEAN

URNT12 KMIA 291523 COR 02
 NOAA2 0407 DEAN OB 15 COR 02 KMIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 00345 00734 00013 01918 36025
 80346 80731 80013 82018 35030
 60347 60727 60011 62217 34040
 45348 40724 40010 42020 33022
 30350 30722 30009 32220 32512
 15/// 1//// 1//// 1//// /////
 CC352 C0720 C0008 C2119 291401
 MF040 26060 AZ300
 15/// 1//// 1//// 1//// /////
 30/// 3//// 3//// 3//// /////
 45/// 4//// 4//// 4//// /////
 60/// 6//// 6//// 6//// /////
 80/// 8//// 8//// 8//// /////
 00/// 0//// 0//// 0//// /////
 MF/// /////
 NO OUTBOUND DATA CLIMBING OUT OF PATTERN
 LAST REPORT OBS 01-15 TO KMIA ETA KMIA 29/1700Z

URNT12 KMIA 300953
 AF866 0707 DEAN OB 04 KMIA
 SUPPLEMENTARY VORTEX DATA MESSAGE
 00351 00748 00013 01616 30011
 80358 80747 80013 81616 26008
 60362 60747 60012 61616 24017
 45365 40750 40011 41717 25019
 30367 30751 30010 31717 24019
 15373 10753 10009 11818 24012
 CC/// C//// C//// C//// /////
 MF019 ///// AZ///
 15/// 1//// 1//// 1//// /////
 30/// 3//// 3//// 3//// /////
 45/// 4//// 4//// 4//// /////
 60/// 6//// 6//// 6//// /////
 80/// 8//// 8//// 8//// /////
 00/// 0//// 0//// 0//// /////
 MF/// /////
 NEGATIVE RADAR PRESENTATION SUSPECT CENTER OVER
 LAND NEAR 37.5N 75.8W BASED ON DOPPLER TREND
 TOWARD CENTER

SUPPLEMENTARY VORTEX DATA MESSAGE

MANOP 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 _o L _o L _o)	0	(L _o L _o L _o L _o)	0	(iHHH)	0	(TTTdTd)		(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					AZ					MF = INDICATOR FOR MAX FLIGHT LEVEL WIND OBSERVED
15	(L _o L _o L _o)	1	(L _o L _o L _o L _o)	1	(iHHH)	1	(TTTdTd)		(ddfff)	AZ = INDICATOR FOR TRUE DIRECTION OF 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 DATA
00		0		0		0				TTTdTd = TEMP/DEWPOINT IN DEGREES CELSIUS; ADD 50 FOR NEGATIVE VALUES
	(fff)		(BBRRR)							iHHH = PRESSURE HEIGHT DATA IN RECCO FORMAT
MF										L _o L _o L _o = LATITUDE IN DEGREES/TENTHS
										L _o L _o L _o L _o = LONGITUDE IN DEGREES/TENTHS
										/ = DATA UNKNOWN/UNOBTAINABLE

REMARKS (End of message)

SAMPLE MESSAGE

URNT 12 KMIA 241703
 AF966 0411 FREDERIC OB 14
 SUPPLEMENTARY VORTEX DATA MESSAGE
 00178 00899 03107 00908 36027
 80177 80895 83100 80908 35042
 60178 60891 63092 60807 36052
 45177 40887 43088 40907 35070
 30178 30883 33070 30908 36088
 15178 10880 13000 11010 35108
 CC177 C0876 C3947 C1811 241647
 MF146 27003 AZ310
 15177 10872 13000 11010 18120
 30178 30868 33070 31009 17098
 45178 40862 43088 40909 18080
 60177 60858 63093 60908 17050
 80177 80854 83102 80908 17048
 00178 00850 03108 00905 18031
 MF145 09005

REMARKS LAST REPORT OBS 01 THRU 14 TO KMIA ETA KBIX 241930Z

APPENDIX A

CODE FOR SUPPLEMENTARY VORTEX DATA MESSAGE.

PREPARED BY:

TRANSMISSION TIME:

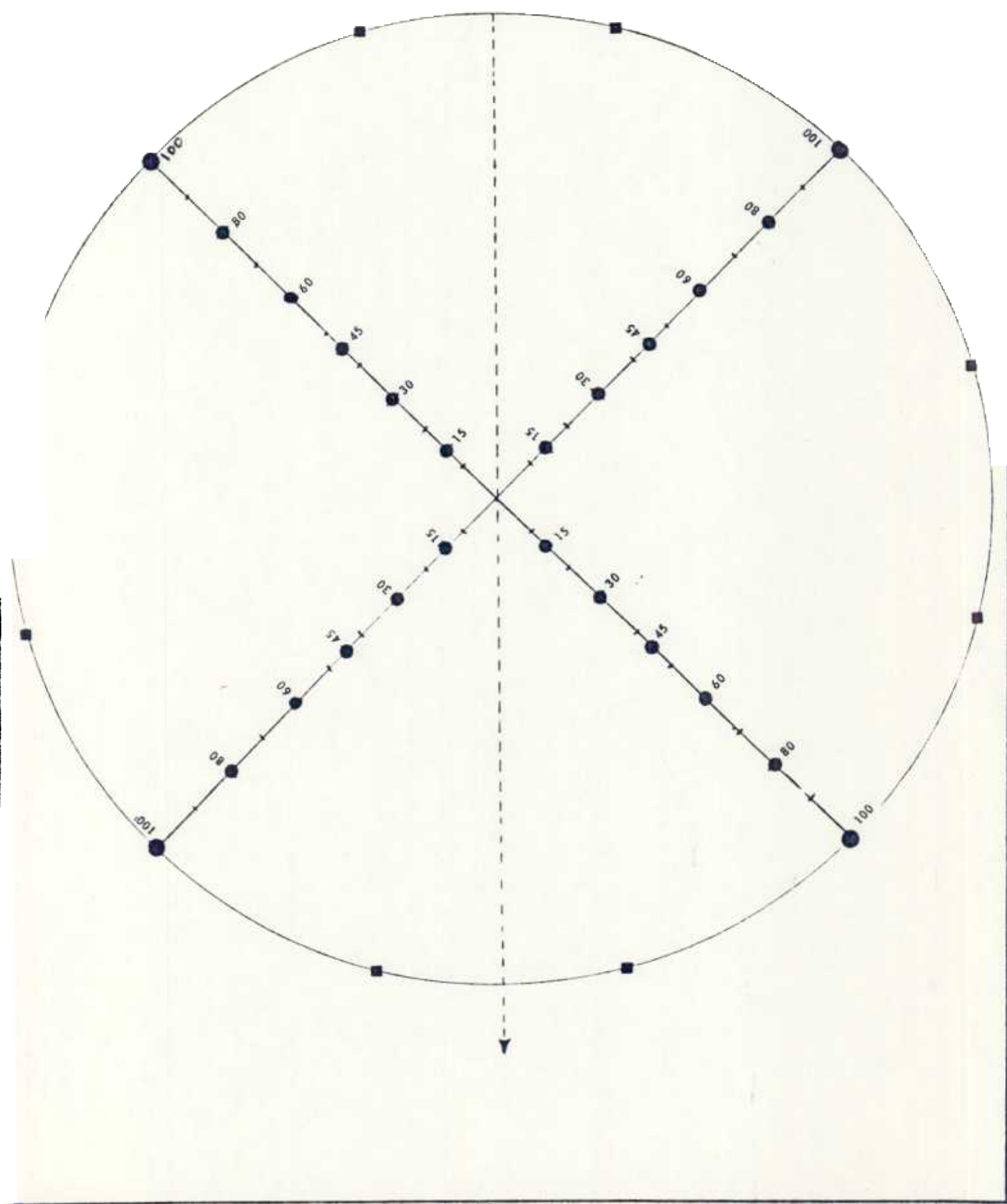


Table 8. Tropical Cyclone Reconnaissance Summary for 1983

1. Requirements Levied	Atlantic	Eastern Pacific	Central Pacific
TD, Storms, Hurricanes	112	5	60
Invests	39	0	0
Total	151	5	60
2. Requirements Accomplished			
53rd WRS (Cyclone/Invest)	25 / 2	0 / 0	14 / 0
920th WRG	41 / 21	5 / 0	22 / 0
OA0	19 / 1	0 / 0	0 / 0
54th WRS	0 / 0	0 / 0	11 / 0
Total	85 / 24	5 / 0	47 / 0
3. Missions Flown			
53th WRS	15	0	10
920th WRG	36	3	10
OA0	9	0	0
54th WRS	0	0	5
Total	60	3	25
4. Flying Time			
53th WRS	116.5	0	93.4
920th WRG	324.4	34.9	87.7
OA0	76.7	0	0
54th WRS	0	0	48.4
Total	517.6	34.9	229.5
5. Observations	Horizontal	Vertical	61
	1338		

APPENDIX B

ADVISORY NUMBER 1 TROPICAL STORM ALICIA PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF ALICIA PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 1 PM CDT THU AUG 18, 1983

CHANCES EXPRESSED IN PER CENT...TIMES CDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				TOTAL THRU 1 PM THU
	THRU	THRU	THRU	THRU	
	1 PM TUE	1 AM WED	1 PM WED	1 PM THU	
ST MARKS FL	X	X	1	1	2
APALACHICOLA FL	X	X	1	2	3
PANAMA CITY FL	X	X	1	2	3
PENSACOLA FL	X	1	1	3	5
MOBILE AL	X	2	2	3	7
GULFPORT MS	1	3	2	2	8
BURAS LA	4	3	2	2	11
NEW ORLEANS LA	4	3	2	3	12
NEW IBERIA LA	7	4	2	1	14
PORT ARTHUR TX	6	5	2	2	15
GALVESTON TX	9	4	2	2	17
PORT O CONNOR TX	4	7	3	2	16
CORPUS CHRISTI TX	1	7	3	4	15
BROWNSVILLE, TX	1	7	4	2	14
SOTO LA MARINA MEX	X	2	5	3	10
TAMPICO MEX	X	1	3	3	7
TUXPAN MEX	X	X	2	3	5
VERACRUZ MEX	X	X	X	2	2

X MEANS LESS THAN ONE PERCENT

APPENDIX B CONTINUED

ADVISORY NUMBER 2 TROPICAL STORM ALICIA PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF ALICIA PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 7 PM CDT THU AUG 18 1983

CHANCES EXPRESSED IN PER CENT... TIMES CDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				TOTAL THRU 7 PM THU
	THRU	7 PM TUE	7 AM WED	7 PM WED	
	7 PM TUE	7 AM WED	7 PM WED	7 PM THU	
ST MARKS FL	X	X	X	2	2
APALACHICOLA FL	X	X	1	1	2
PANAMA CITY FL	X	X	1	2	3
PENSACOLA FL	X	1	1	2	4
MOBILE AL	X	2	1	3	6
GULFPORT MS	1	2	2	2	7
BURAS LA	3	3	1	2	9
NEW ORLEANS LA	3	3	2	2	10
NEW IBERIA LA	6	4	2	2	14
PORT ARTHUR TX	6	5	2	2	15
GALVESTON TX	10	4	2	2	18
PORT O CONNOR TX	6	7	2	2	17
CORPUS CHRISTI TX	2	7	4	2	15
BROWNSVILLE TX	1	8	4	2	15
SOTO LA MARINA MEX	X	3	4	4	11
TAMPICO MEX	X	1	3	3	7
TUXPAN MEX	X	X	2	3	5
VERACRUZ MEX	X	X	X	2	2

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 3 TROPICAL STORM ALICIA PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF ALICIA PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 1 AM CDT FRI AUG 19 1983

CHANCES EXPRESSED IN PER CENT...TIMES CDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES					TOTAL THRU 1 AM FRI
	THRU	1 AM WED	1 PM WED	1 AM THU	1 AM THU	
	1 AM WED	1 PM WED	1 AM THU	1 AM THU	1 AM FRI	
APALACHICOLA FL	X	X	X	2		2
PANAMA CITY FL	X	X	1	1		2
PENSACOLA FL	X	1	X	3		4
MOBILE AL	X	1	1	3		5
GULFPORT MS	X	2	2	2		6
BURAS LA	1	3	1	3		8
NEW ORLEANS LA	2	3	2	2		9
NEW IBERIA LA	5	4	2	2		13
PORT ARTHUR TX	7	4	2	2		15
GALVESTON TX	13	3	1	2		19
PORT O CONNOR TX	11	5	1	2		19
CORPUS CHRISTI TX	4	8	2	3		17
BROWNSVILLE TX	3	8	3	2		16

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 4 TROPICAL STORM ALICIA PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF ALICIA PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 7 AM CDT FRI AUG 19 1983

CHANCES EXPRESSED IN PER CENT... TIMES CDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				
	THRU	7 AM WED	7 PM WED	7 AM THU	TOTAL
	7 AM WED	7 PM WED	7 AM THU	7 AM FRI	7 AM FRI
TAMPA FL	X	X	X	1	1
CEDAR KEY FL	X	X	X	2	2
ST MARKS FL	X	X	1	2	3
APALACHICOLA FL	X	X	1	2	3
PANAMA CITY FL	X	X	1	3	4
PENSACOLA FL	X	1	2	3	6
MOBILE AL	X	2	2	4	8
GULFPORT MS	1	2	3	3	9
BURAS LA	2	3	3	3	11
NEW ORLEANS LA	3	4	3	2	12
NEW IBERIA LA	7	5	2	2	16
PORT ARTHUR TX	11	3	2	2	18
GALVESTON TX	17	2	1	1	21
PORT O CONNOR TX	12	4	1	2	19
CORPUS CHRISTI TX	4	6	3	2	15
BROWNSVILLE TX	2	6	3	3	14

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 5 HURRICANE ALICIA PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF ALICIA PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 1 PM CDT FRI AUG 19 1983

CHANCES EXPRESSED IN PER CENT...TIMES CDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				
	THRU	1 PM WED	1 AM THU	1 PM THU	TOTAL
	1 PM WED	1 AM THU	1 PM THU	1 PM FRI	1 PM FRI
PANAMA CITY FL	X	X	1	1	2
PENSACOLA FL	X	1	X	2	3
MOBILE AL	X	1	1	3	5
GULFPORT MS	X	2	2	2	6
BURAS LA	1	2	1	3	7
NEW ORLEANS LA	2	3	2	2	9
NEW IBERIA LA	10	3	1	2	16
GALVESTON TX	35	X	1	X	36
PORT ARTHUR TX	23	1	1	X	25
PORT O CONNOR TX	23	1	1	X	25
CORPUS CHRISTI TX	9	5	2	1	17
BROWNSVILLE TX	3	4	2	2	11

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 6 HURRICANE ALICIA PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF ALICIA PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 7 PM CDT FRI AUG 19 1983

CHANCES EXPRESSED IN PER CENT...TIMES CDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				
	THRU	7 PM WED	7 AM THU	7 PM THU	TOTAL
	7 PM WED	THRU	THRU	THRU	THRU
		7 AM THU	7 PM THU	7 PM FRI	7 PM FRI
PANAMA CITY FL	X	X	X	1	1
PENSACOLA FL	X	X	1	1	2
MOBILE AL	X	1	1	2	4
GULFPORT MS	X	1	1	2	4
BURAS LA	1	X	1	2	4
NEW ORLEANS LA	1	2	2	2	7
NEW IBERIA LA	7	3	2	1	13
PORT ARTHUR TX	26	1	X	X	27
GALVESTON TX	46	X	X	X	46
PORT O CONNOR TX	27	1	X	X	28
CORPUS CHRISTI TX	12	3	1	1	17
BROWNSVILLE TX	2	4	1	2	9

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

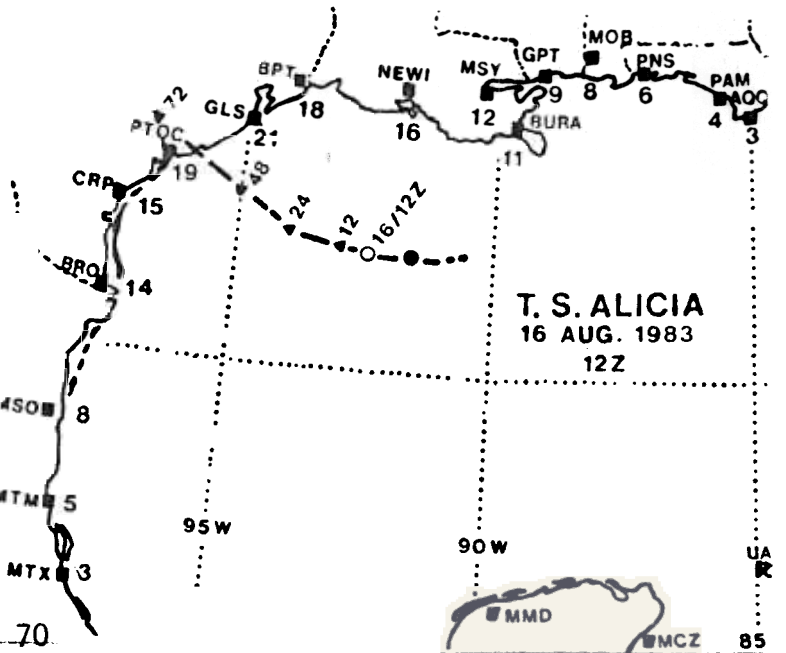
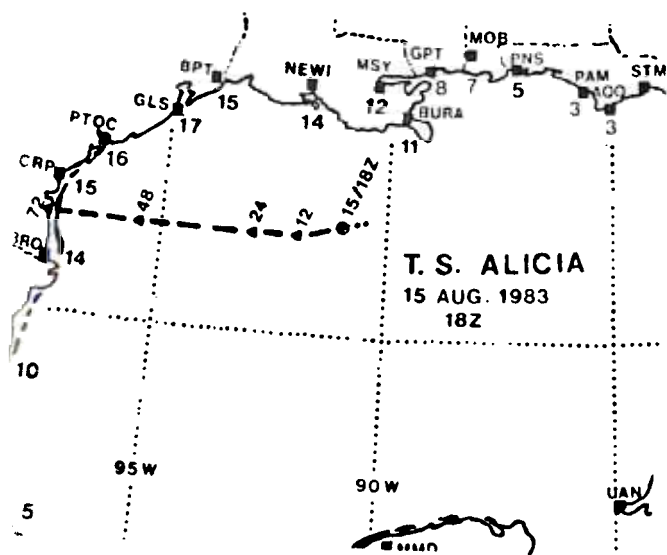
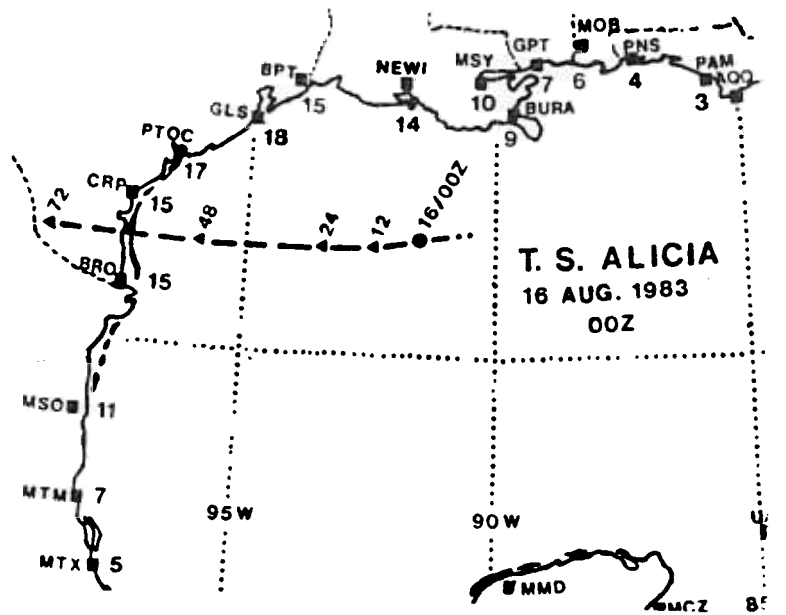
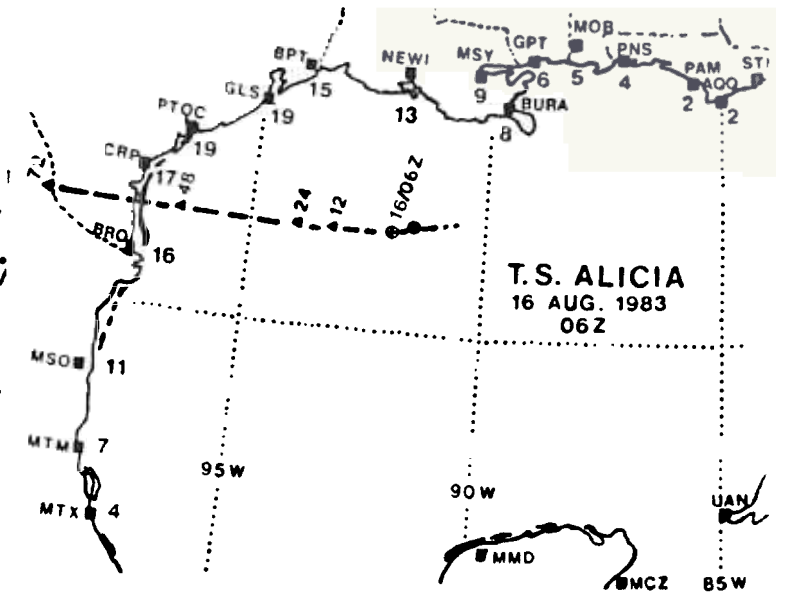
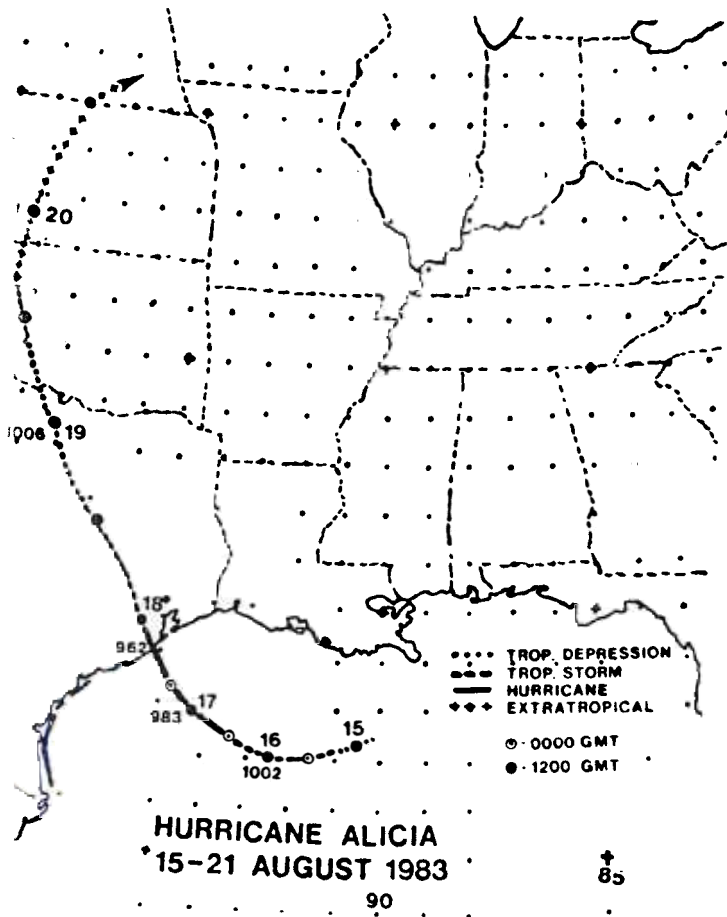
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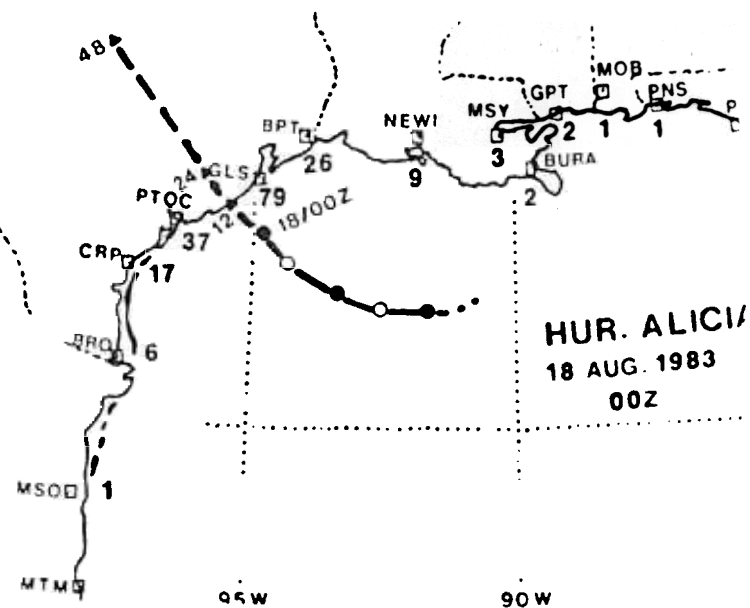
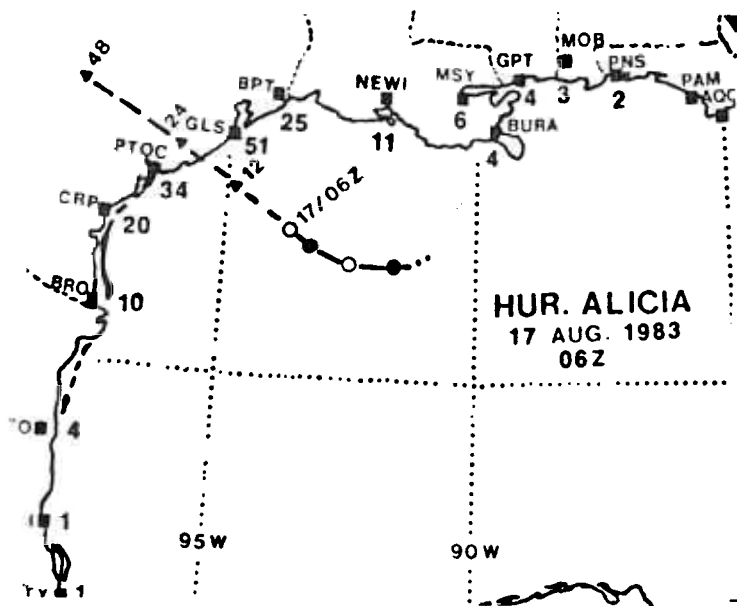
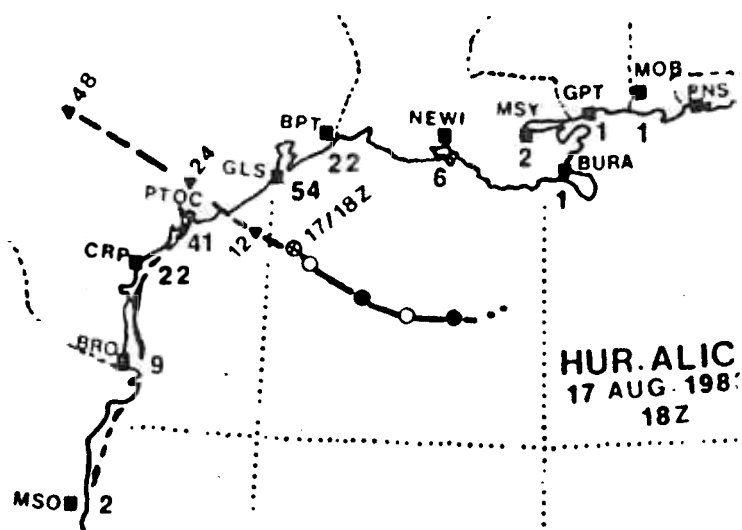
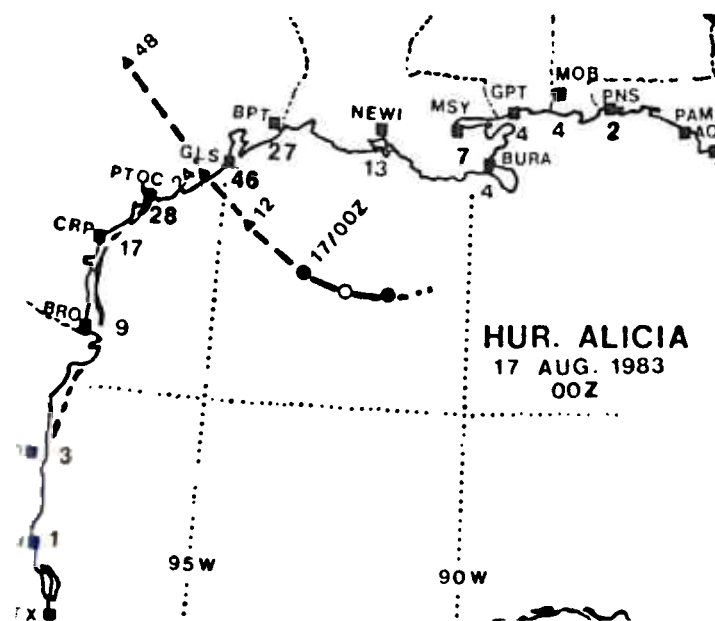
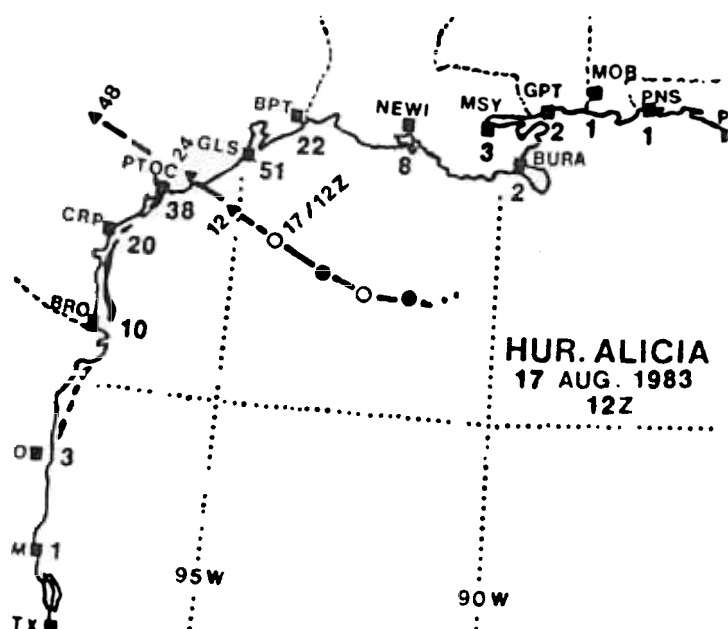
CHANCES OF CENTER OF ALICIA PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 1 AM CDT SAT AUG 20 1983

CHANCES EXPRESSED IN PER CENT...TIMES CDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				
	THRU	1 AM THU	1 PM THU	1 AM FRI	TOTAL
	1 AM THU	1 PM THU	1 AM FRI	1 AM SAT	1 AM SAT
PENSACOLA FL	X	X	1	1	2
MOBILE AL	X	X	1	2	3
GULFPORT MS	X	1	1	2	4
BURAS LA	X	1	1	2	4
NEW ORLEANS LA	1	1	1	3	6
NEW IBERIA LA	5	2	2	2	11
PORT ARTHUR TX	24	X	1	X	25
GALVESTON TX	51	X	X	X	51
PORT O CONNOR TX	33	1	X	X	34
CORPUS CHRISTI TX	16	2	1	1	20
BROWNSVILLE TX	3	4	2	1	10

X MEANS LESS THAN ONE PERCENT





APPENDIX B

ADVISORY NUMBER 1 TROPICAL STORM BARRY PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 8 PM EDT FRI AUG 26 1983

CHANCES EXPRESSED IN PER CENT...TIMES EDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				TOTAL THRU 8 PM FRI
	THRU 8 PM WED	8 PM WED THRU 8 AM THU	8 AM THU THRU 8 PM THU	8 PM THU THRU 8 PM FRI	
MARATHON FL	X	2	1	2	5
MIAMI FL	1	3	2	3	9
W PALM BEACH FL	3	4	2	2	11
FT PIERCE FL	3	5	2	2	12
COCOA BEACH FL	3	5	2	3	13
DAYTONA BEACH FL	1	5	3	3	12
JACKSONVILLE FL	X	3	3	4	10
SAVANNAH GA	X	2	3	5	10
CHARLESTON SC	X	2	4	4	10
MYRTLE BEACH SC	X	2	3	5	10
WILMINGTON NC	X	1	4	5	10
MOREHEAD CITY NC	X	1	4	5	10
CAPE HATTERAS NC	X	1	3	5	9
NORFOLK VA	X	X	1	5	6
OCEAN CITY MD	X	X	X	4	4
ATLANTIC CITY NJ	X	X	X	3	3

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 2 TROPICAL STORM BARRY PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 2 AM EDT SAT AUG 27 1983

CHANCES EXPRESSED IN PER CENT ...TIMES EDT

		ADDITIONAL PROBABILITIES			
COASTAL LOCATIONS	THRU 2 AM THU	2 AM THU	2 PM THU	2 AM FRI	TOTAL
		THRU	THRU	THRU	THRU
		2 PM THU	2 AM FRI	2 AM SAT	2 AM SAT
ATLANTIC COAST PROBABILITIES					
MARATHON FL	X	1	1	3	5
MAIAMI FL	1	2	2	2	7
W PALM BEACH FL	2	3	2	3	10
FT PIERCE FL	3	4	2	3	12
COCOA BEACH FL	3	4	3	2	12
DAYTONA BEACH FL	2	4	3	3	12
JACKSONVILLE FL	1	3	3	4	11
SAVANNAH GA	X	4	3	4	11
CHARLESTON SC	1	3	4	3	11
MYRTLE BEACH SC	X	4	3	4	11
WILMINGTON NC	X	3	4	4	11
MOREHEAD CITY NC	X	3	3	5	11
CAPE HATTERAS NC	X	2	3	5	10
NORFOLK VA	X	X	2	5	7
OCEAN CITY MD	X	X	1	3	4
ATLANTIC CITY NJ	X	X	X	3	3
NEW YORK CITY NY	X	X	X	2	2
MONTAUK POINT NY	X	X	X	2	2
PROVIDENCE RI	X	X	X	1	1
NANTUCKET MA	X	X	X	2	2
GULF COAST PROBABILITIES					
KEY WEST FL	X	1	1	2	4
MARCO ISLAND FL	X	2	2	3	7
FT MYERS FL	X	2	2	3	7
VENICE FL	X	2	2	3	7
TAMPA FL	X	2	3	3	8
CEDAR KEY FL	X	2	2	4	8
ST MARKS FL	X	1	1	5	7
APALACHICOLA FL	X	X	2	4	6
PANAMA CITY FL	X	X	1	4	5
PENSACOLA FL	X	X	X	3	3
MOBILE AL	X	X	X	2	2
GULFPORT MS	X	X	X	2	2
BURAS LA	X	X	X	2	2

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 3 TROPICAL STORM BARRY PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 8 AM EDT SAT AUG 27 1983

CHANCES EXPRESSED IN PER CENT... TIMES EDT

COASTAL LOCATIONS	THRU 8 AM THU	ADDITIONAL PROBABILITIES				TOTAL THRU 8 AM SAT
		8 AM THU THRU 8 PM THU	8 PM THU THRU 8 AM FRI	8 AM FRI THRU 8 AM SAT		
LAT 30N LON 77W	47	X	X	X		47
MARATHON FL	X	1	1	4		6
MIAMI FL	1	1	3	3		8
W PALM BEACH FL	2	3	3	3		11
FT PIERCE FL	3	4	3	3		13
COCOA BEACH FL	4	4	3	2		13
DAYTONA BEACH FL	3	5	3	2		13
JACKSONVILLE FL	2	4	3	3		12
SAVANNAH GA	2	4	2	3		11
CHARLESTON SC	2	5	2	3		12
MYRTLE BEACH SC	1	4	3	4		12
WILMINGTON NC	X	4	3	4		11
MOREHEAD CITY NC	X	3	3	4		10
CAPE HATTERAS NC	X	2	3	4		9
NORFOLK VA	X	X	2	4		6
OCEAN CITY MD	X	X	1	2		3
ATLANTIC CITY NJ	X	X	X	2		2

GULF COAST PROBABILITIES

KEY WEST FL	X	1	1	3		5
MARCO ISLAND FL	X	2	2	4		8
FT MYERS FL	X	2	3	4		9
VENICE FL	X	2	3	4		9
TAMPA FL	1	2	3	4		10
CEDAR KEY FL	X	3	2	4		9
ST MARKS FL	X	1	2	4		7
APALACHICOLA FL	X	1	1	4		6
PANAMA CITY FL	X	X	1	4		5
PENSACOLA FL	X	X	1	2		3

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 5 TROPICAL STORM BARRY PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 2 PM EDT SAT AUG 27 1983

CHANCES EXPRESSED IN PER CENT...TIMES EDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				TOTAL THRU 2 PM SAT
	THRU	2 PM THU	2 AM FRI	2 PM FRI	
	2 PM THU	2 AM FRI	2 PM FRI	2 PM SAT	
MARATHON FL	1	4	3	2	10
MIAMI FL	10	2	2	1	15
W PALM BEACH FL	25	X	1	X	26
FT PIERCE FL	40	X	X	X	40
COCOA BEACH FL	46	X	X	X	46
DAYTONA BEACH FL	34	X	1	X	35
JACKSONVILLE FL	13	3	2	1	19
SAVANNAH GA	1	4	3	4	12
CHARLESTON SC	X	3	2	4	9
MYRTLE BEACH SC	X	1	2	4	7
WILMINGTON NC	X	1	1	4	6
MOREHEAD CITY NC	X	X	1	4	5
CAPE HATTERAS NC	X	X	1	3	4
NORFOLK VA	X	X	X	2	2

GULF COAST PROBABILITIES

KEY WEST FL	1	4	3	2	10
MARCO ISLAND FL	10	4	2	1	17
FT MYERS FL	16	3	1	1	21
VENICE FL	17	3	1	1	22
TAMPA FL	23	2	1	X	26
CEDAR JET FK	17	3	1	2	23
ST MARKS FL	3	7	2	3	15
APALACHICOLA FL	2	6	3	3	14
PANAMA CITY FL	1	5	3	4	13
PENSACOLA FL	X	2	2	5	9
MOBILE AL	X	X	3	4	7
GULFPORT MS	X	X	2	5	7
BURAS LA	X	X	2	5	7
NEW ORLEANS LA	X	X	1	5	6
NEW IBERIA LA	X	X	X	4	4
PORT ARTHUR TX	X	X	X	2	2
GALVESTON TX	X	X	X	2	2

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 6 TROPICAL STORM BARRY PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 8 PM EDT SAT AUG 27 1983

CHANCES EXPRESSED IN PER CENT...TIMES EDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				
	THRU	8 PM THU	8 AM FRI	8 PM FRI	TOTAL
	8 PM THU	8 AM FRI	8 PM FRI	8 PM SAT	8 PM SAT
MARATHON FL	1	2	2	1	6
MIAMI FL	7	2	1	1	11
W PALM BEACH FL	24	X	X	X	24
FT PIERCE FL	47	X	X	X	47
COCOA BEACH FL	61	X	X	X	61
DAYTONA BEACH FL	44	X	X	X	44
JACKSONVILLE FL	17	2	1	1	21
SAVANNAH GA	1	5	3	2	11
CHARLESTON SC	X	3	2	3	8
MYRTLE BEACH SC	X	1	2	3	6
WILMINGTON NC	X	1	1	2	4
MOREHEAD CITY NC	X	X	1	2	3
CAPE HATTERAS NC	X	X	1	1	2
NORFOLK VA	X	X	X	2	2

GULF COAST PROBABILITIES

KEY WEST FL	1	2	2	1	6
MARCO ISLAND FL	11	3	X	1	15
FT MYERS FL	18	2	X	1	21
VENICE FL	22	1	1	X	24
TAMPA FL	31	X	X	1	32
CEDAR KEY FL	26	1	1	X	28
ST MARKS FL	8	7	2	1	18
APALACHICOLA FL	5	9	2	2	18
PANAMA CITY FL	2	9	3	2	16
PENSACOLA FL	X	4	5	4	13
MOBILE AL	X	2	5	4	11
GULFPORT MS	X	1	4	6	11
BURAS LA	X	1	5	5	11
NEW ORLEANS LA	X	X	4	6	10
NEW IBERIA LA	X	X	2	6	8
PORT ARTHUR TX	X	X	X	6	6
GALVESTON TX	X	X	X	5	5
PORT O CONNOR TX	X	X	X	4	4
CORPUS CHRISTI TX	X	X	X	3	3
BROWNSVILLE TX	X	X	X	3	3

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 7 TROPICAL STORM BARRY PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 2 AM EDT SUN AUG 28 1983

CHANCES EXPRESSED IN PER CENT... TIMES EDT

COASTAL LOCATIONS	THRU 2 AM FRI	ADDITIONAL PROBABILITIES			TOTAL THRU 2 AM SUN
		2 AM FRI THRU 2 PM FRI	2 PM FRI THRU 2 AM SAT	2 AM SAT THRU 2 AM SUN	
APALACHICOLA FL	16	3	1	1	21
PANAMA CITY FL	9	5	2	1	17
PENSACOLA FL	1	6	3	3	13
MOBILE AL	X	4	3	4	11
GULFPORT MS	X	3	3	5	11
BURAS LA	X	4	3	5	12
NEW ORLEANS LA	X	2	3	5	10
NEW IBERIA LA	X	X	2	6	8
PORT ARTHUR TX	X	X	1	5	6
GALVESTON TX	X	X	1	5	6
PORT O CONNOR TX	X	X	X	5	5
CORPUS CHRISTI TX	X	X	X	4	4
BROWNSVILLE TX	X	X	X	4	4

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 12 TROPICAL DEPRESSION BARRY PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 1 AM CDT MON AUG 29 1983

CHANCES EXPRESSED IN PER CENT... TIMES CDT

COASTAL LOCATIONS	THRU 1 AM SAT	THRU 1 PM SAT	THRU 1 AM SUN	THRU 1 AM MON	THRU 1 AM MON
ST MARKS FL	X	X	X	2	2
APALACHICOLA FL	X	X	1	2	3
PANAMA CITY FL	X	1	X	2	3
PENSACOLA FL	X	1	1	3	5
MOBILE AL	X	1	2	3	6
GULFPORT MS	X	2	2	4	8
BURAS LA	1	4	3	2	10
NEW ORLEANS LA	X	4	3	3	10
NEW IBERIA LA	X	4	4	3	11
PORT ARTHUR TX	X	3	4	4	11
GALVESTON TX	X	4	5	4	13
PORT O CONNOR TX	X	4	5	4	13
CORPUS CHRISTI TX	X	2	6	4	12
BROWNSVILLE TX	X	4	6	4	14

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 13 TROPICAL DEPRESSION BARRY PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 8 AM EDT MON AUG 29 1983

CHANCES EXPRESSED IN PER CENT...TIMES EDT

		ADDITIONAL PROBABILITIES			TOTAL
		8AM SAT	8 PM SAT	8 AM SUN	
COASTAL	THRU	THRU	THRU	THRU	THRU
LOCATIONS	8 AM SAT	8 PM SAT	8 AM SUN	8 AM MON	8 AM MON
ST MARKS FL	X	X	1	1	2
APALACHICOLA FL	X	1	1	1	3
PANAMA CITY FL	X	1	1	2	4
PENSACOLA FL	X	2	1	2	5
MOBILE AL	X	2	2	2	6
GULFPORT MS	X	3	2	3	8
BURAS LA	1	5	3	2	11
NEW ORLEANS LA	X	4	3	3	10
NEW IBERIA LA	X	4	4	3	11
PORT ARTHUR TX	X	2	4	5	11
GALVESTON TX	X	3	4	5	12
PORT O CONNOR TX	X	2	5	5	12
CORPUS CHRISTI TX	X	1	5	5	11
BROWNSVILLE TX	X	2	6	4	12

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 13 TROPICAL DEPRESSION BARRY PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 8 AM EDT MON AUG 29 1983

CHANCES EXPRESSED IN PER CENT...TIMES EDT

		ADDITIONAL PROBABILITIES			
		8AM SAT	8 PM SAT	8 AM SUN	TOTAL
COASTAL	THRU	THRU	THRU	THRU	THRU
LOCATIONS	8 AM SAT	8 PM SAT	8 AM SUN	8 AM MON	8 AM MON
ST MARKS FL	X	X	1	1	2
APALACHICOLA FL	X	1	1	1	3
PANAMA CITY FL	X	1	1	2	4
PENSACOLA FL	X	2	1	2	5
MOBILE AL	X	2	2	2	6
GULFPORT MS	X	3	2	3	8
BURAS LA	1	5	3	2	11
NEW ORLEANS LA	X	4	3	3	10
NEW IBERIA LA	X	4	4	3	11
PORT ARTHUR TX	X	2	4	5	11
GALVESTON TX	X	3	4	5	12
PORT O CONNOR TX	X	2	5	5	12
CORPUS CHRISTI TX	X	1	5	5	11
BROWNSVILLE TX	X	2	6	4	12

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 14 TROPICAL DEPRESSION BARRY PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 2 PM EDT MON AUG 29 1983

CHANCES EXPRESSED IN PER CENT...TIMES EDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				
	THRU	2 PM SAT	2 AM SUN	2 PM SUN	TOTAL
	2 PM SAT	2 AM SUN	2 PM SUN	2 PM MON	2 PM MON
PENSACOLA FL	X	X	1	1	2
MOBILE AL	X	1	1	1	3
GULFPORT MS	X	1	2	2	5
BURAS LA	1	2	1	2	6
NEW ORLEANS LA	1	2	2	2	7
NEW IBERIA LA	1	3	3	2	9
PORT ARTHUR TX	X	6	3	3	12
GALVESTON TX	1	8	3	2	14
PORT O CONNOR TX	2	9	3	2	16
CORPUS CHRISTI TX	1	9	4	2	16
BROWNSVILLE TX	1	12	3	1	17

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 16 TROPICAL STORM BARRY PROBABILITIES FOR GUIDANCE IN HURRICNE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 1 AM CDT TUE AUG 30 1983

CHANCES EXPRESSED IN PER CENT...TIMES CDT

COASTAL LOCATIONS	Additional Probabilities				TOTAL THRU 1 AM TUE
	THRU	1 AM SUN	1 PM SUN	1 AM MON	
	1 AM SUN	1 PM SUN	1 AM MON	1 AM TUE	
NEW IBERIA LA	1	2	1	X	4
PORT ARTHUR TX	1	4	3	X	8
GALVESTON TX	3	8	1	X	12
PORT O CONNOR TX	11	8	1	X	20
CORPUS CHRISTI TX	10	11	1	X	22
BROWNSVILLE TX	17	7	1	X	25

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

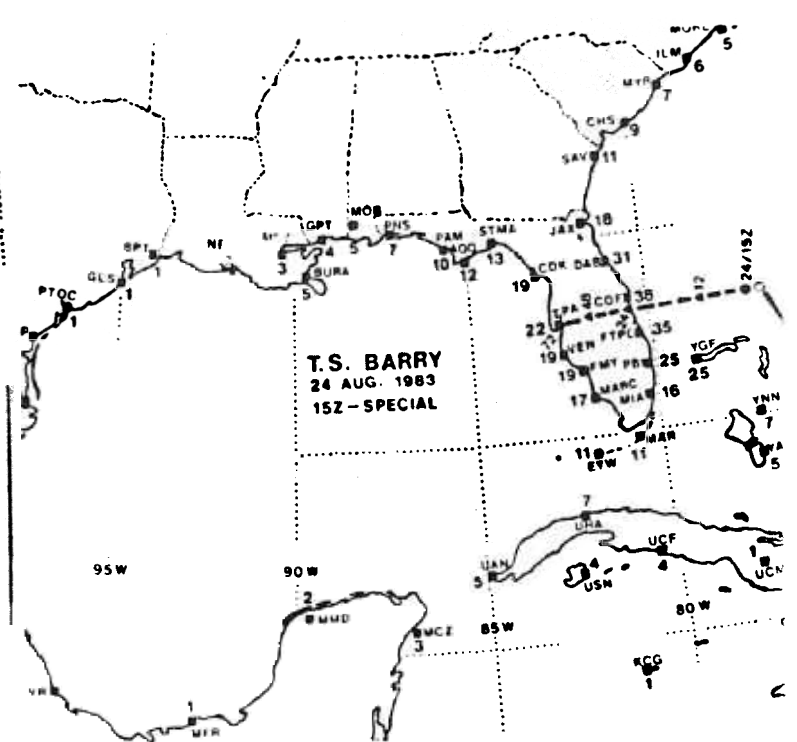
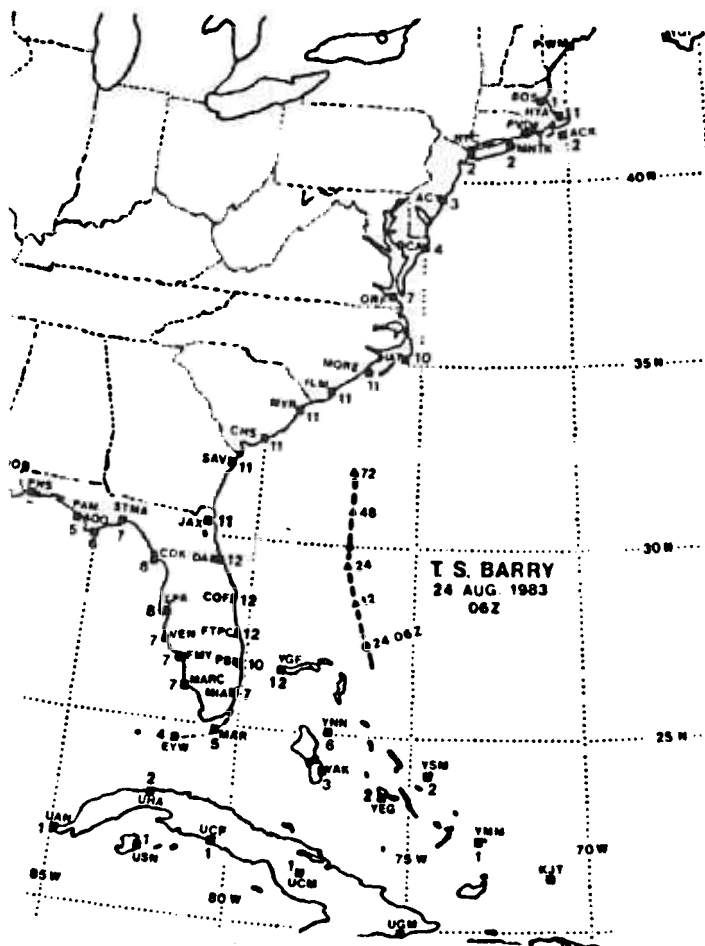
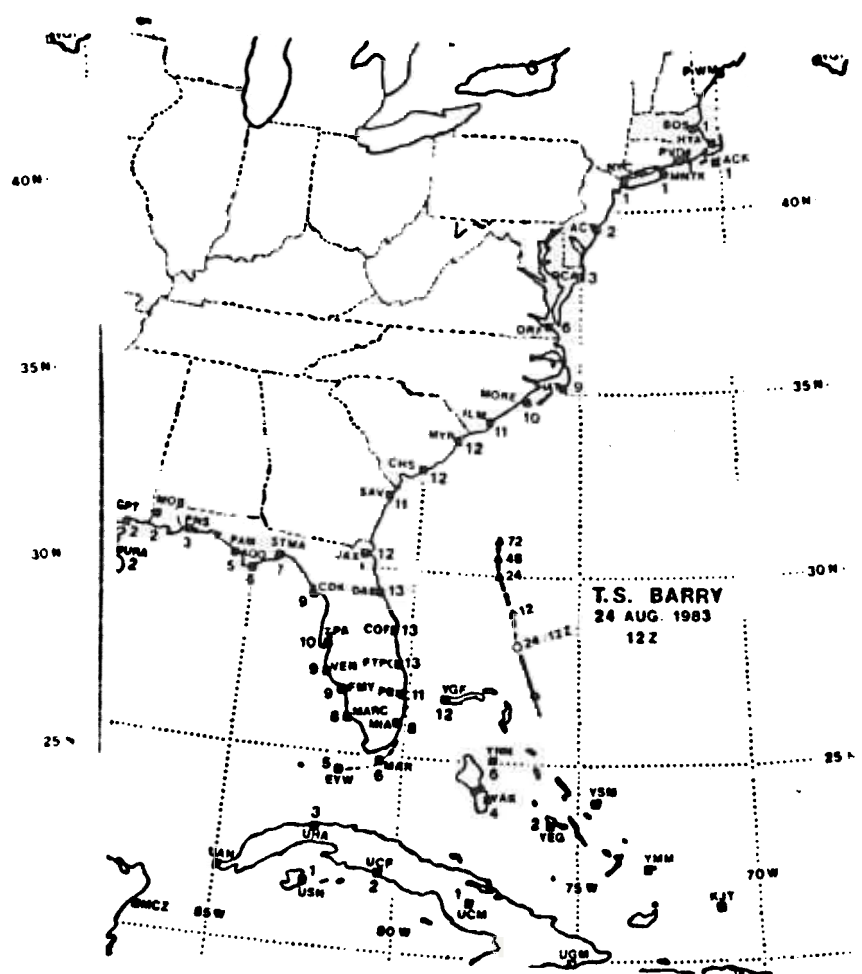
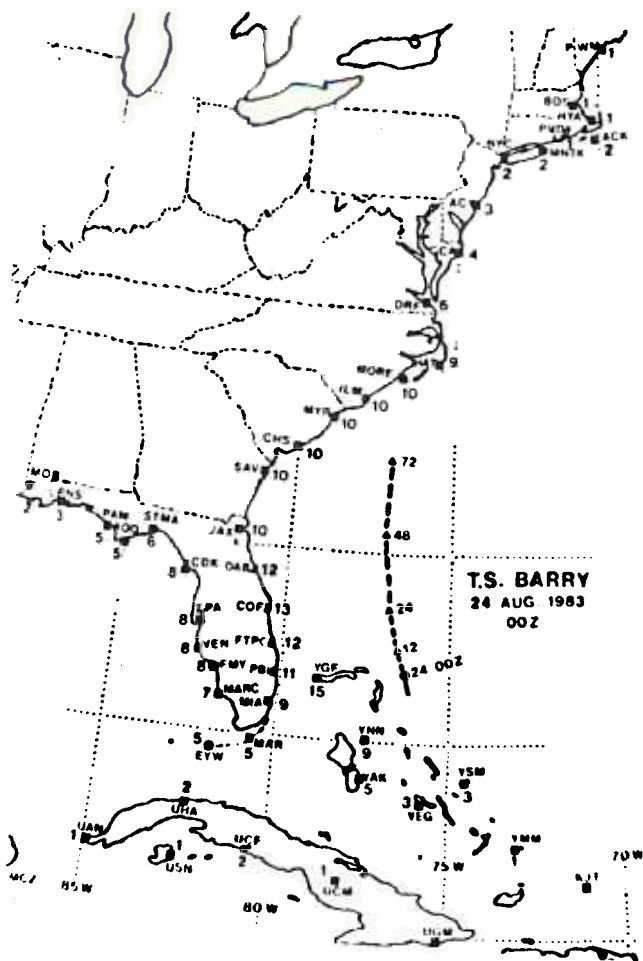
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GUIDANCE IN HURRICANE PROTECTION PLANNING BY
GOVERNMENT AND DISASTER OFFICIALS

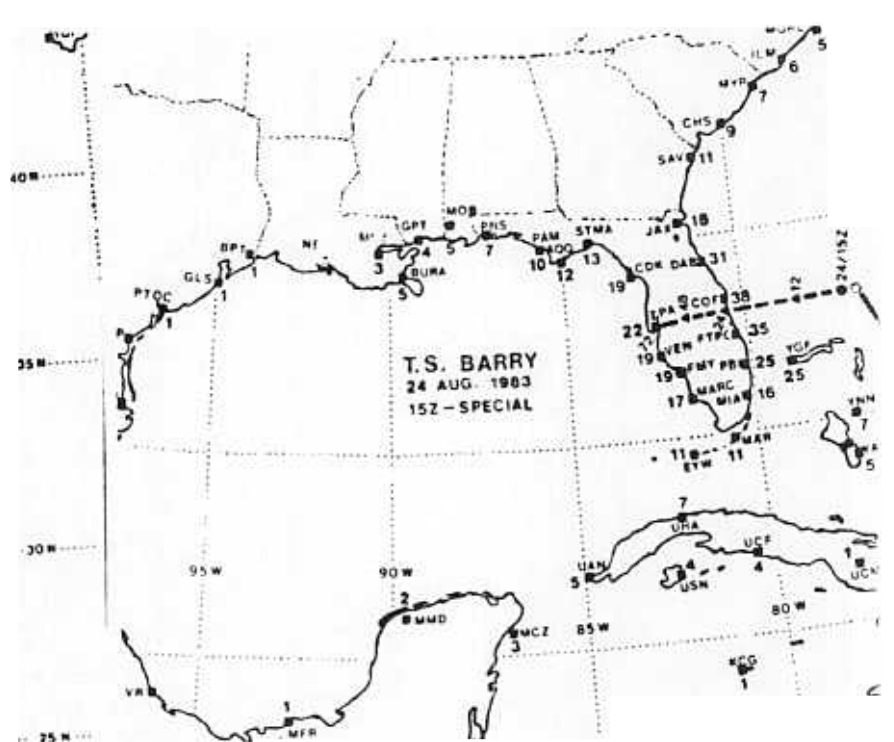
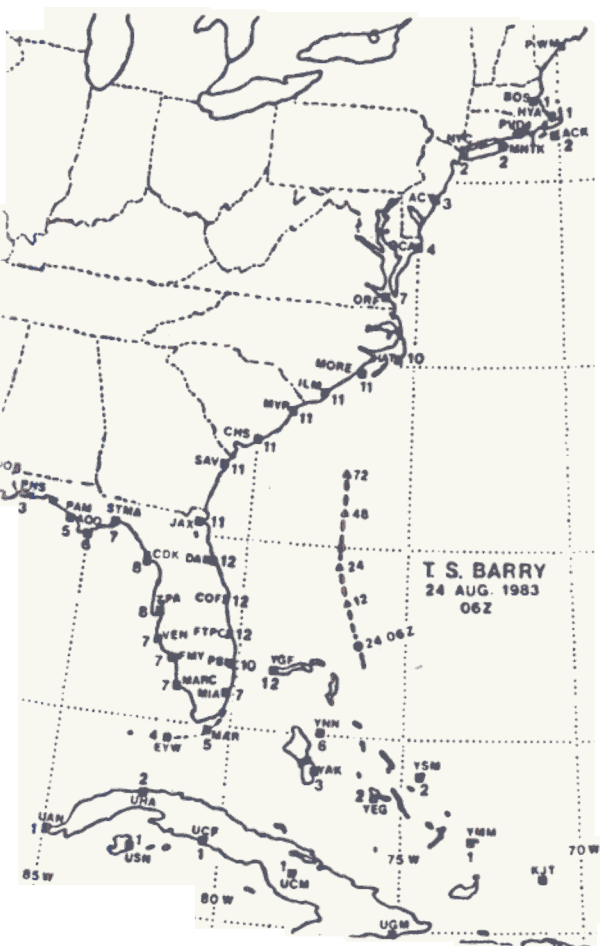
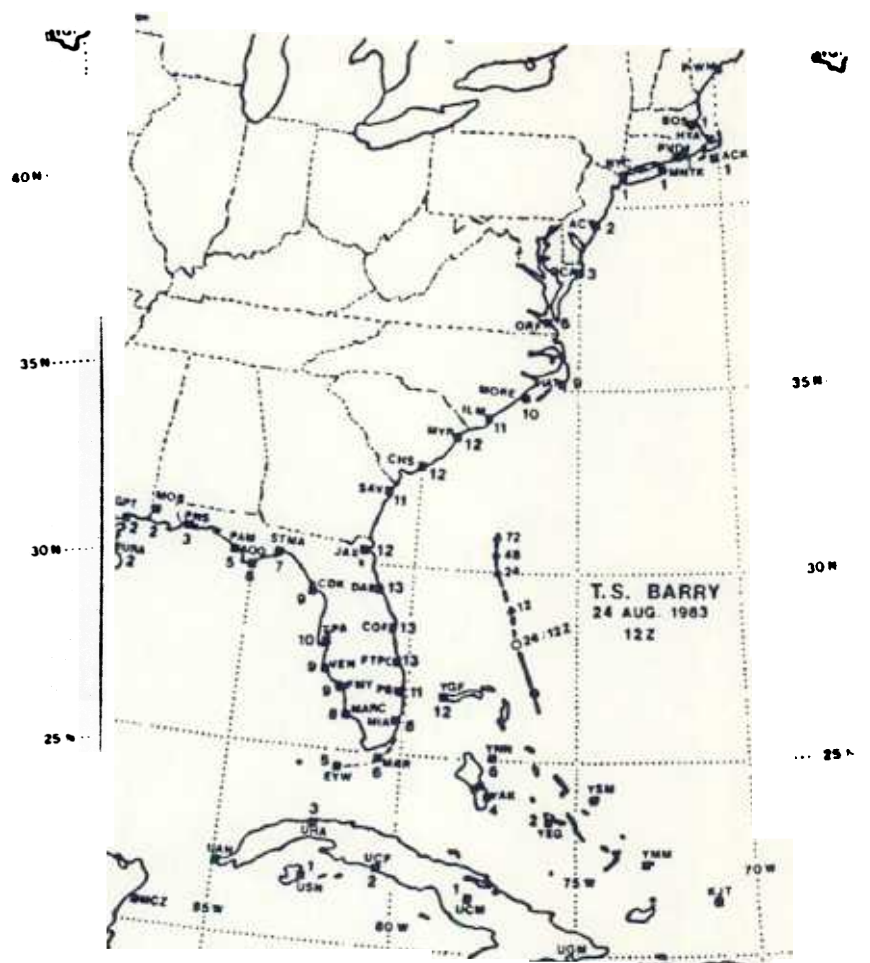
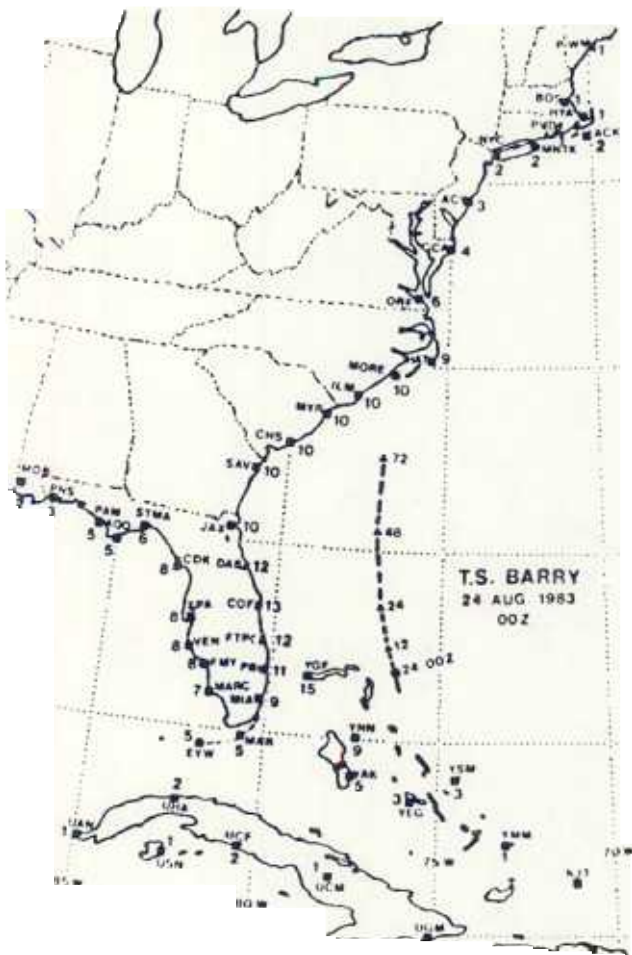
CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 7 AM CDT TUE AUG 30 1983

CHANCES EXPRESSED IN PER CENT...TIMES CDT

COASTAL LOCATIONS	THRU 7AM SUN	ADDITIONAL PROBABILITIES			TOTAL THRU 7 AM TUE
		7 AM SUN THRU 7 PM SUN	7 PM SUN THRU 7 AM MON	7 AM MON THRU 7 AM TUE	
NEW ORLEANS LA	X	1	1	X	2
NEW IBERIA LA	2	3	2	X	7
PORT ARTHUR TX	7	6	1	X	14
GALVESTON TX	18	2	1	X	21
PORT O CONNOR TX	26	2	1	X	29
CORPUS CHRISTI TX	19	5	X	X	24
BROWNSVILLE TX	11	5	1	X	17

X MEANS LESS THAN ONE PERCENT





APPENDIX B

ADVISORY NUMBER 5 TROPICAL STORM DEAN PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF DEAN PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 2 PM EDT SAT OCT 1 1983

CHANCES EXPRESSED IN PER CENT...TIMES EDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				
	THRU	2 PM THU	2 AM FRI	2 PM FRI	TOTAL
	2 PM THU	2 AM FRI	2 PM FRI	2 PM SAT	2 PM SAT
DAYTONA BEACH FL	X	X	X	2	2
JACKSONVILLE FL	X	X	X	3	3
SAVANNAH GA	X	X	1	4	5
CHARLESTON SC	X	X	2	4	6
MYRTLE BEACH SC	X	1	2	5	8
WILMINGTON NC	X	2	3	5	10
MOREHEAD CITY NC	1	2	5	3	11
CAPE HATTERAS NC	1	6	3	3	13
NORFOLK VA	1	5	4	3	13
OCEAN CITY MD	2	6	3	3	14
ATLANTIC CITY NJ	1	5	3	4	13
NEW YORK CITY NY	X	4	3	4	11
MONTAUK POINT NY	X	4	3	4	11
PROVIDENCE RI	X	2	4	4	10
NANTUCKET MA	X	4	3	3	10
HYANNIS MA	X	3	3	4	10
BOSTON MA	X	1	3	4	8
PORTLAND ME	X	X	2	3	5
BAR HARBOR ME	X	X	1	3	4
EASTPORT ME	X	X	1	2	3
ST JOHN NB	X	X	1	2	3
MONCTON NB	X	X	X	2	2
YARMOUTH NS	X	X	1	4	5
HALIFAX NS	X	X	1	2	3
SABLE ISLAND NS	X	X	X	2	2

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 6 TROPICAL STORM DEAN PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF DEAN PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 8 PM EDT SAT OCT 1 1983

CHANCES EXPRESSED IN PER CENT... TIMES EDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				
	THRU	8 PM THU	8 AM FRI	8 PM FRI	TOTAL
	8 PM THU	8 AM FRI	8 PM FRI	8 PM SAT	8 PM SAT
DAYTONA BEACH FL	X	X	1	2	3
JACKSONVILLE FL	X	X	1	3	4
SAVANNAH GA	X	X	2	4	6
CHARLESTON SC	X	1	3	4	8
MYRTLE BEACH SC	X	3	3	4	10
WILMINGTON NC	1	4	4	3	12
MOREHEAD CITY NC	3	7	2	3	15
CAPE HATTERAS NC	11	4	2	1	18
NORFOLK VA	6	5	3	2	16
OCEAN CITY MD	5	5	2	3	15
ATLANTIC CITY NJ	1	4	3	4	12
NEW YORK CITY NY	X	2	3	4	9
MONTAUK POINT NY	X	2	3	4	9
PROVIDENCE RI	X	1	2	4	7
NANTUCKET MA	X	1	3	4	8
HYANNIS MA	X	1	2	4	7
BOSTON MA	X	X	2	4	6
PORTLAND ME	X	X	1	3	4
BAR HARBOR ME	X	X	X	3	3
EASTPORT ME	X	X	X	2	2
ST JOHN NB	X	X	X	2	2
YARMOUTH NS	X	X	1	2	3
HALIFAX NS	X	X	X	2	2

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 7 TROPICAL STORM DEAN PROBABILITIES FOR GUIDANCE IN HURRICNAE PROTECTION PLANNING BY GOVERNMENT AND DISASTEROFFICIALS

CHANCES OF CENTER OF DEAN PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 2 AM EDT SUN OCT 2 1983

CHANCES EXPRESSED IN PER CENT ...TIMES EDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				
	THRU	2 AM FRI	2 PM FRI	2 AM SAT	TOTAL
	2 AM FRI	2 PM FRI	2 AM SAT	2 AM SUN	2 AM SUN
COCOA BEACH FL	X	X	X	2	2
DAYTONA BEACH FL	X	X	1	2	3
JACKSONVILLE FL	X	X	1	4	5
SAVANNAH GA	X	1	2	4	7
CHARLESTON SC	X	2	3	4	9
MYRTLE BEACH SX	1	3	4	4	12
WILMINGTON NC	1	7	3	3	14
MOREHEAD CITY NC	6	7	2	2	17
CAPE HATTERAS NC	17	2	2	X	21
NORFOLK VA	8	5	2	2	17
OCEAN CITY MD	3	7	2	3	15
ATLANTIC CITY NJ	X	5	3	4	12
NEW YORK CITY NY	X	2	3	5	10
MONTAUK POINT NY	X	1	3	4	8
PROVIDENCE RI	X	1	2	4	7
NANTUCKET MA	X	1	2	4	7
HYANNIS MA	X	1	2	4	7
BOSTON MA	X	X	2	4	6
PORTLAND ME	X	X	1	3	4
BAR HARBOR ME	X	X	X	3	3
EASTPORT ME	X	X	X	2	2
ST JOHN NB	X	X	X	2	2
YARMOUTH NS	X	X	X	3	3
HALIFAX NS	X	X	X	2	2
TAMPA FL	X	X	X	2	2
CEDAR KEY FL	X	X	X	3	3
ST MARKS FL	X	X	1	2	3
APALACHICOLA FL	X	X	X	2	2
PANAMA CITY FL	X	X	X	2	2
PENSACOLA FL	X	X	X	2	2
MOBILE AL	X	X	X	2	2

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

ADVISORY NUMBER 8 TROPICAL STORM DEAN PROBABILITIES FOR GUIDANCE IN HURRICANE PROTECTION PLANNING BY GOVERNMENT AND DISASTER OFFICIALS

CHANCES OF CENTER OF DEAN PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 8 AM EDT SUN OCT 2 1983

CHANCES EXPRESSED IN PER CENT...TIMES EDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				
	THRU	8 AM FRI	8 PM FRI	8 AM SAT	TOTAL
	8 AM FRI	8 PM FRI	8 AM SAT	8 AM SUN	8 AM SUN
CHARLESTON SC	X	1	2	X	3
MYRTLE BEACH SC	1	3	1	X	5
WILMINGTON NC	2	5	1	X	8
MOREHEAD CITY NC	8	3	1	X	12
CAPE HATTERAS NC	22	1	X	X	23
NORFOLK VA	31	1	X	X	32
OCEAN CITY MD	29	1	X	X	30
ATLANTIC CITY NJ	11	5	1	X	17
NEW YORK CITY NY	2	7	2	X	11
MONTAUK POINT NY	1	3	3	X	7
PROVIDENCE RI	X	3	2	X	5
NANTUCKET MA	X	2	2	X	4
HYANNIS MA	X	2	2	X	4
BOSTON MA	X	2	2	X	4
PORTLAND ME	X	1	1	X	2

X MEANS LESS THAN ONE PERCENT

APPENDIX B continued

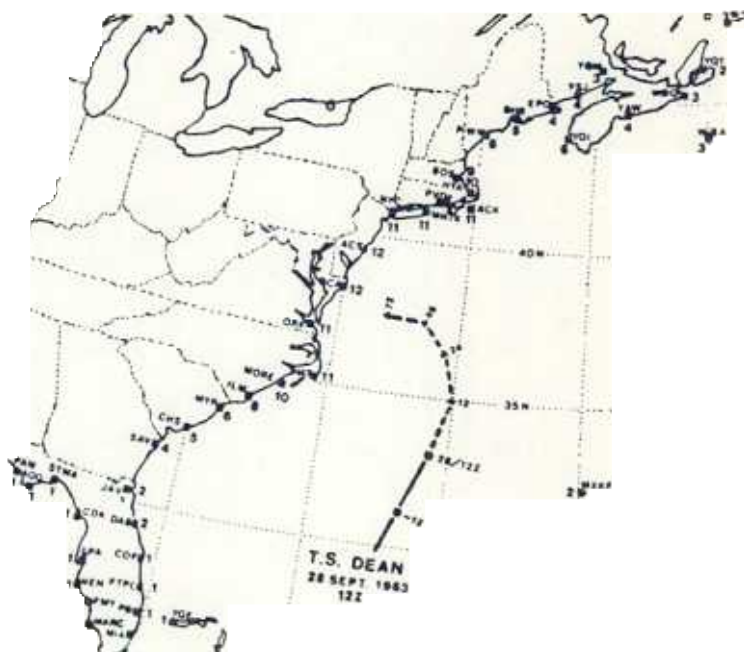
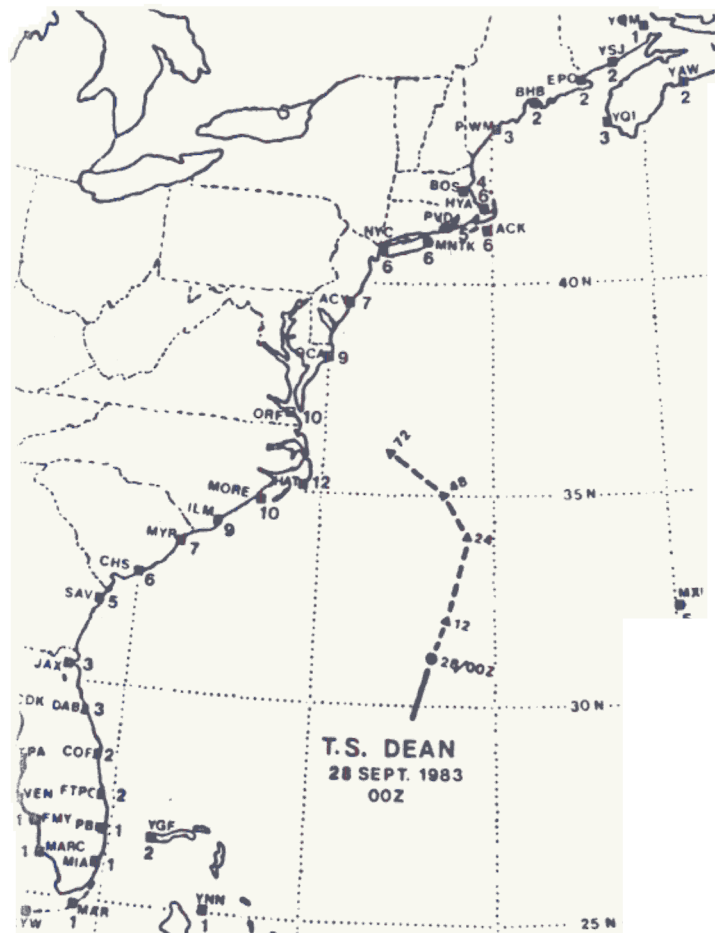
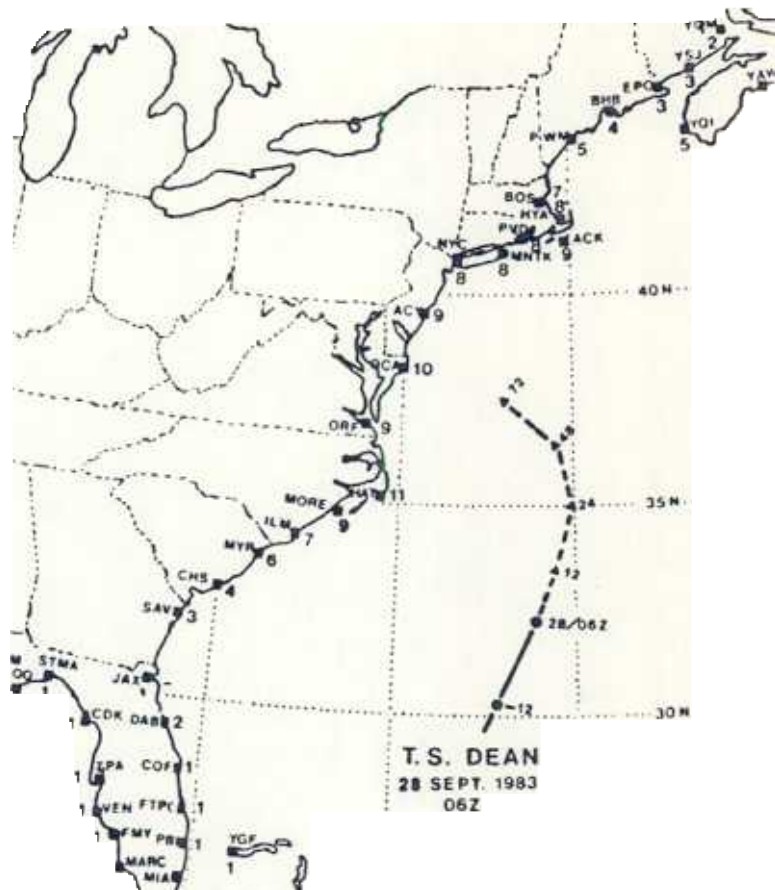
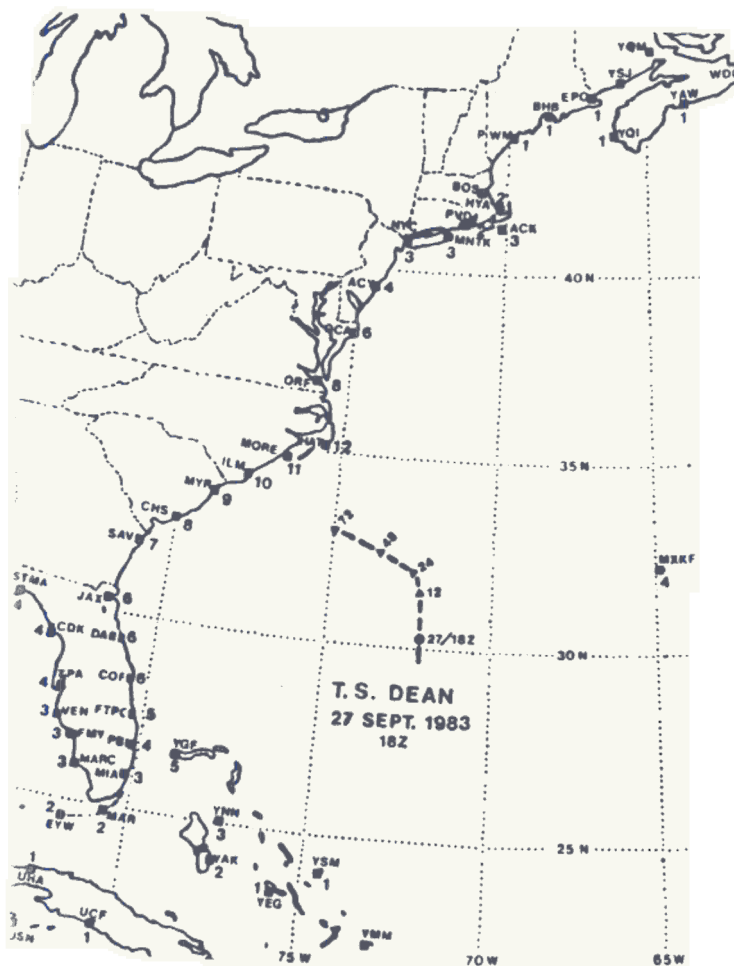
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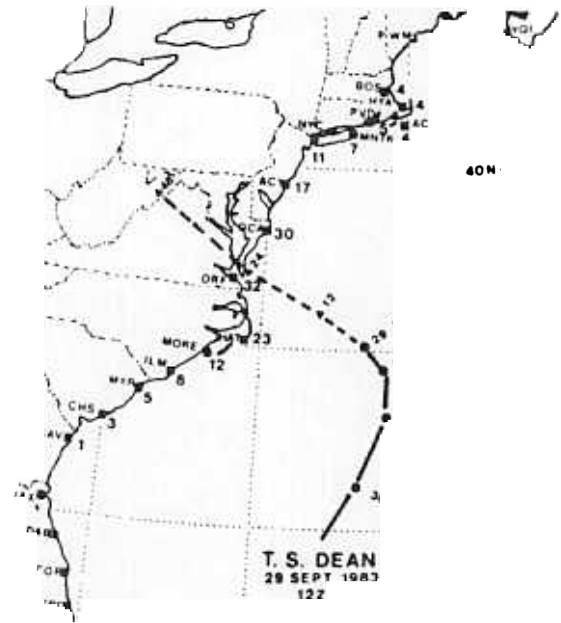
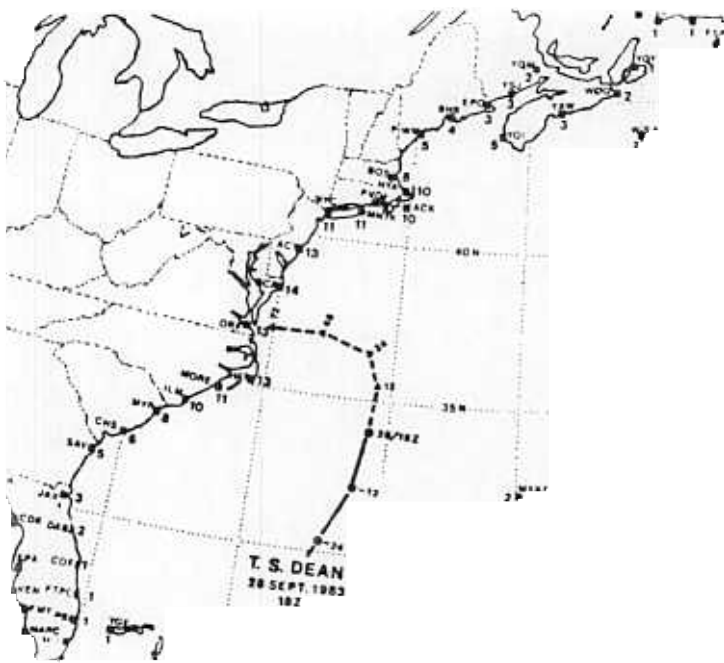
CHANCES OF CENTER OF DEAN PASSING WITHIN 65 MILES OF
LISTED LOCATIONS THROUGH 2 PM EDT SUN OCT 2 1983

CHANCES EXPRESSED IN PER CENT...TIMES EDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				
	THRU	THRU	THRU	THRU	TOTAL
	2 PM FRI	2 AM SAT	2 PM SAT	2 PM SUN	2 PM SUN
WILMINGTON NC	1	X	X	X	1
MOREHEAD CITY NC	3	X	X	X	3
CAPE HATTERAS NC	35	X	X	X	35
NORFOLK VA	75	X	X	X	75
OCEAN CITY MD	39	x	x	x	39
ATLANTIC CITY NJ	5	X	X	X	5
NEW YORK CITY NY	1	X	X	X	1

X MEANS LESS THAN ONE PERCENT





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