

NOAA Technical Memorandum NWS NHC

ANNUAL DATA AND VERIFICATION TABULATION  
ATLANTIC TROPICAL CYCLONES 1983

Gilbert B. Clark and Staff, NHC

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

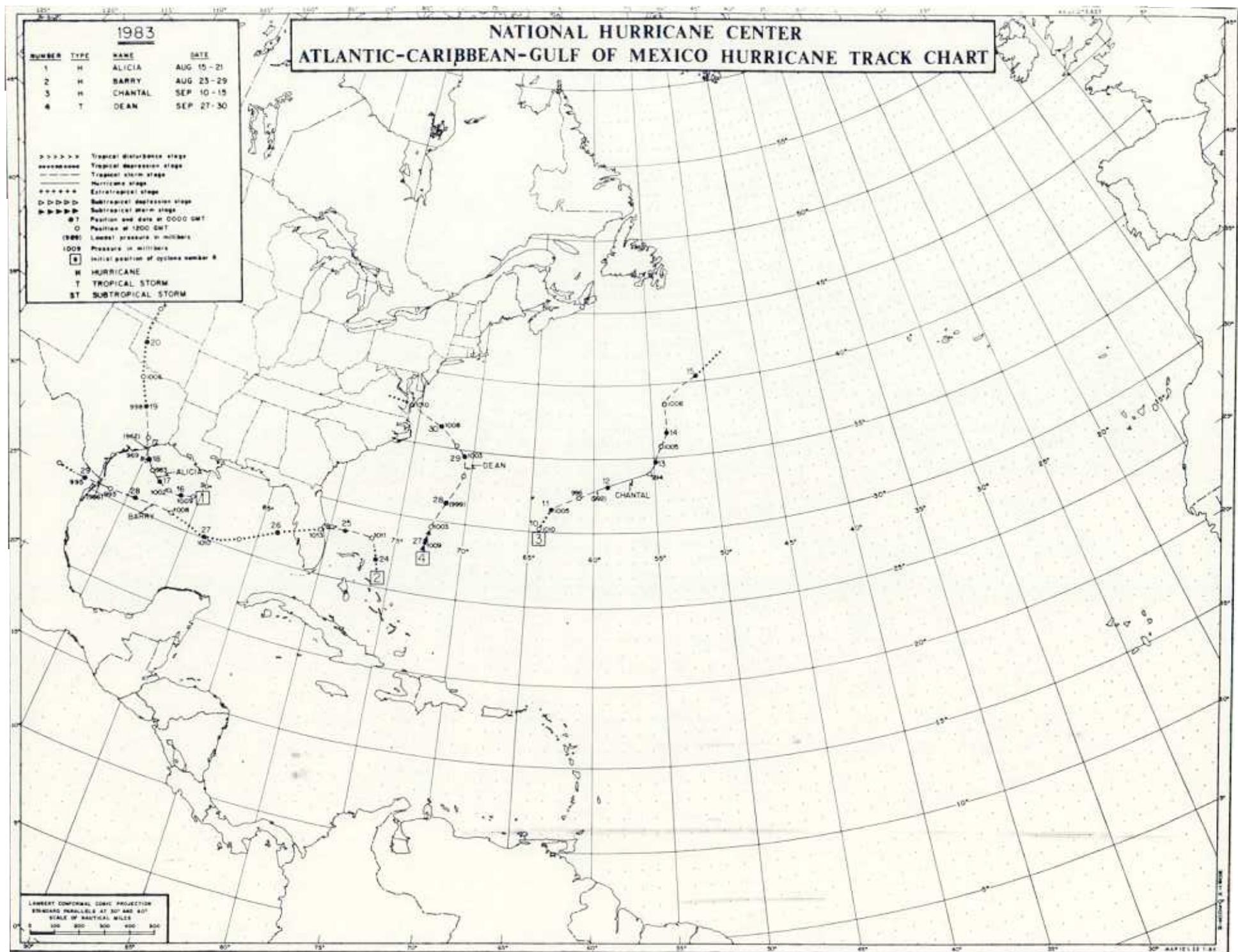
Main contributors were: Mr. Frank Marques who helped list the center fixes in chronological order; Mr. Miles Lawrence, who computed the verification statistics; Ms Joan David, who drafted the track chart and pressure/time graphs; and Mrs. Teresa Barker, who typed the tables and manuscript.

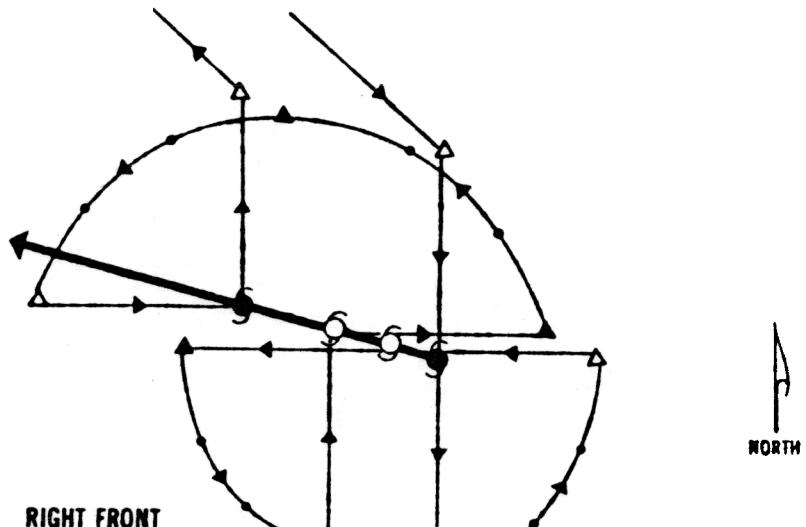
## REFERENCES

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

LIST OF FIGURES, TABLES, AND APPENDICES

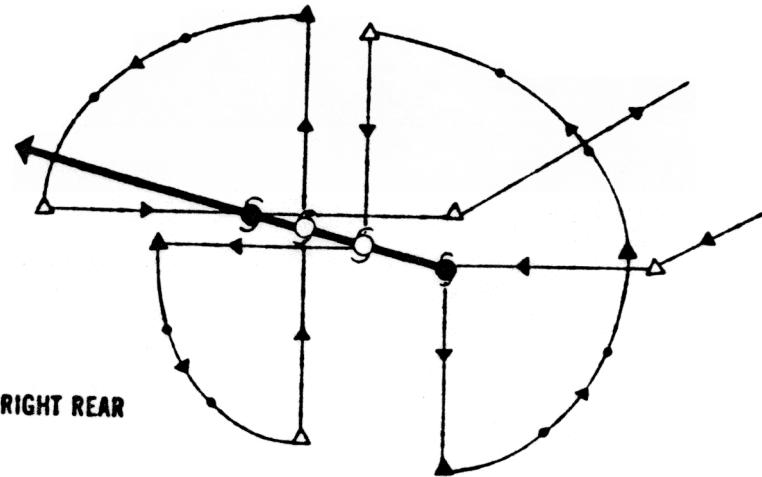
- Figure 1. Tracks of 1983 tropical cyclones.
- Figure 2a. Flight pattern "A" flown in obtaining Supplementary Vortex Data Messages.
- Figure 2b. Flight Pattern "A" (modified) flown in obtaining Supplementary Vortex Data Messages.
- Figure 3. Lowest pressure vs. time, 1983 tropical cyclones.
- Figure 4. Daily satellite photographs of 1983 tropical cyclones.
- Table 1. Verification of 1983 tropical storm and hurricane forecasts. Figures in parentheses are the number of cases.
- Table 2a. Landfall prediction errors for 1983 tropical storms and hurricanes.
- Table 2b. Fourteen-year summary of errors in the prediction of the point of landfall of Atlantic tropical storms and hurricanes during the period 1970-1983.
- Table 3a. Warning lead times for 1983 landfalling United States tropical storms and hurricanes.
- Table 3b. Summary of warning lead time for hurricanes only and all tropical cyclones for the period 1970-1983.
4. Summary of 1983 tropical cyclone statistics.
5. Best track, initial and forecast positions, initial position error and forecast errors for 1983 tropical cyclones.
- Table 6. Center fix positions and intensity evaluations for 1983 tropical cyclones.
- Table 7. Supplementary Vortex Data Messages, 1983 Atlantic tropical cyclones.
- Appendix A. Code for Supplementary Vortex Data Messages of Table 7.
- Table 8. Tropical cyclone reconnaissance summary for 1983 hurricane season.
- Appendix B. Probability Forecasts issued for 1983 landfalling United States Tropical Storms and Hurricanes.



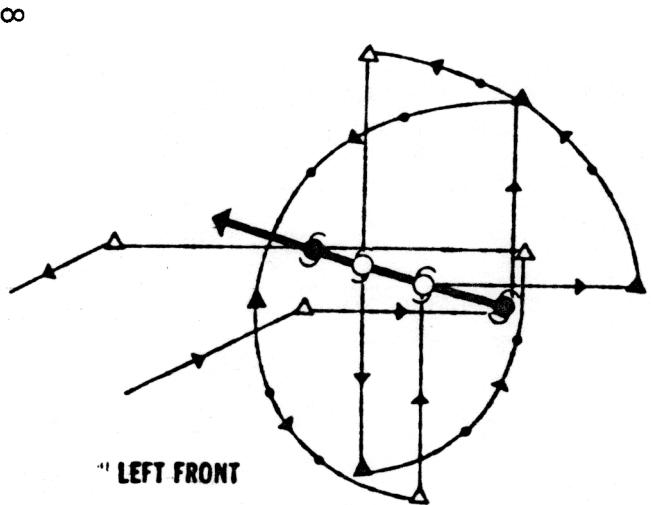


NORTH

RIGHT FRONT

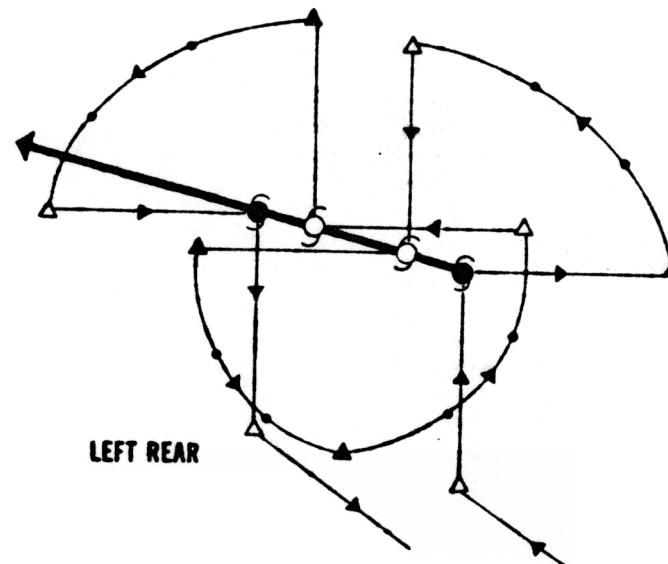


RIGHT REAR



LEFT FRONT

- Legend**
- DETAILED VORTEX DATA  
PLUS CENTER DROP
  - DETAILED/ABBREVIATED  
VORTEX DATA
  - ▲ RECCO (SECTION 1)  
PLUS DROP
  - △ RECCO (SECTION 1)
  - RECCO (SECTION 3)
  - ← DIRECTION OF STORM  
MOVEMENT
  - DIRECTION OF FLIGHT



LEFT REAR

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

RECOMMENDED PATTERN "A" (MODIFIED) EXECUTION

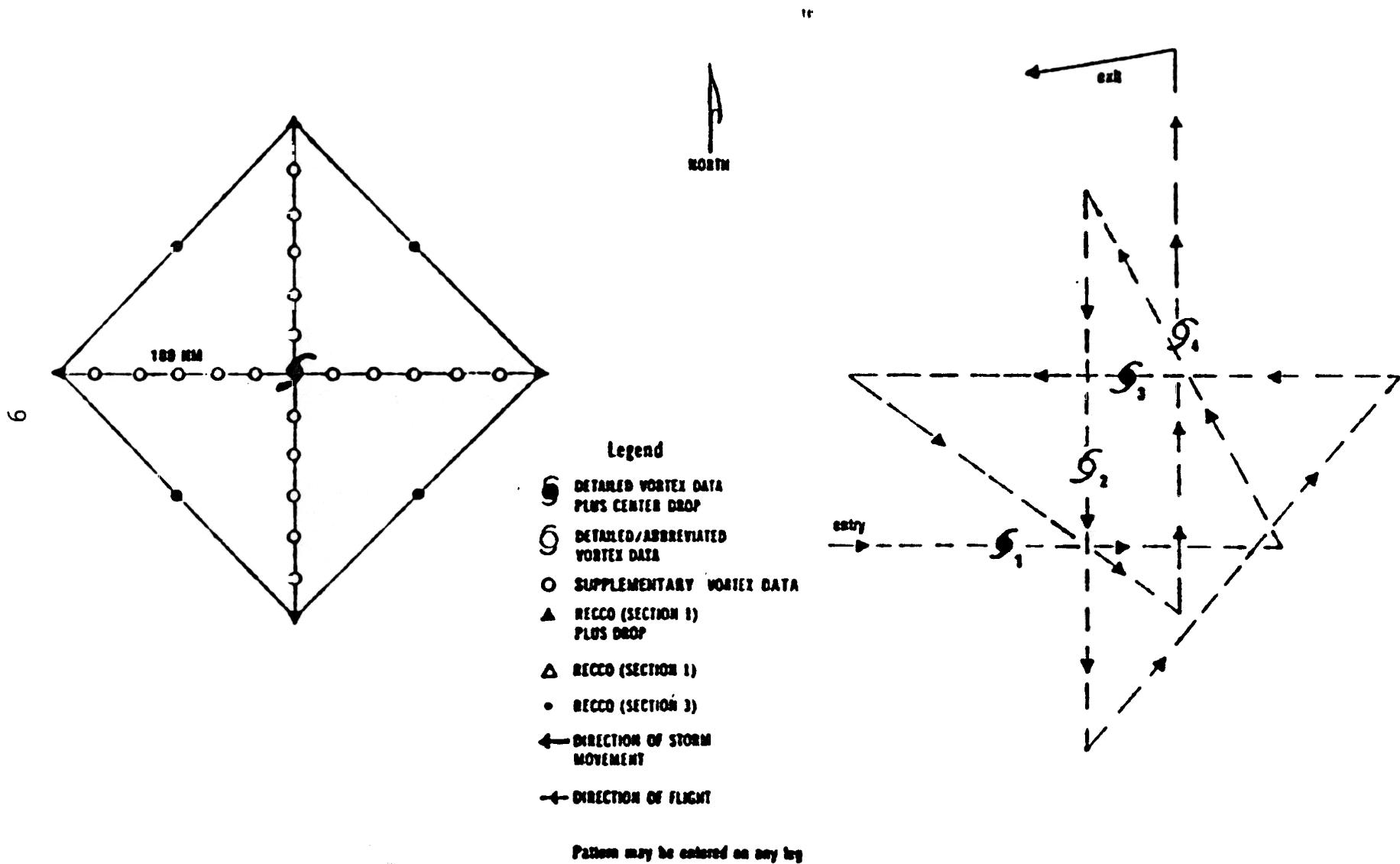
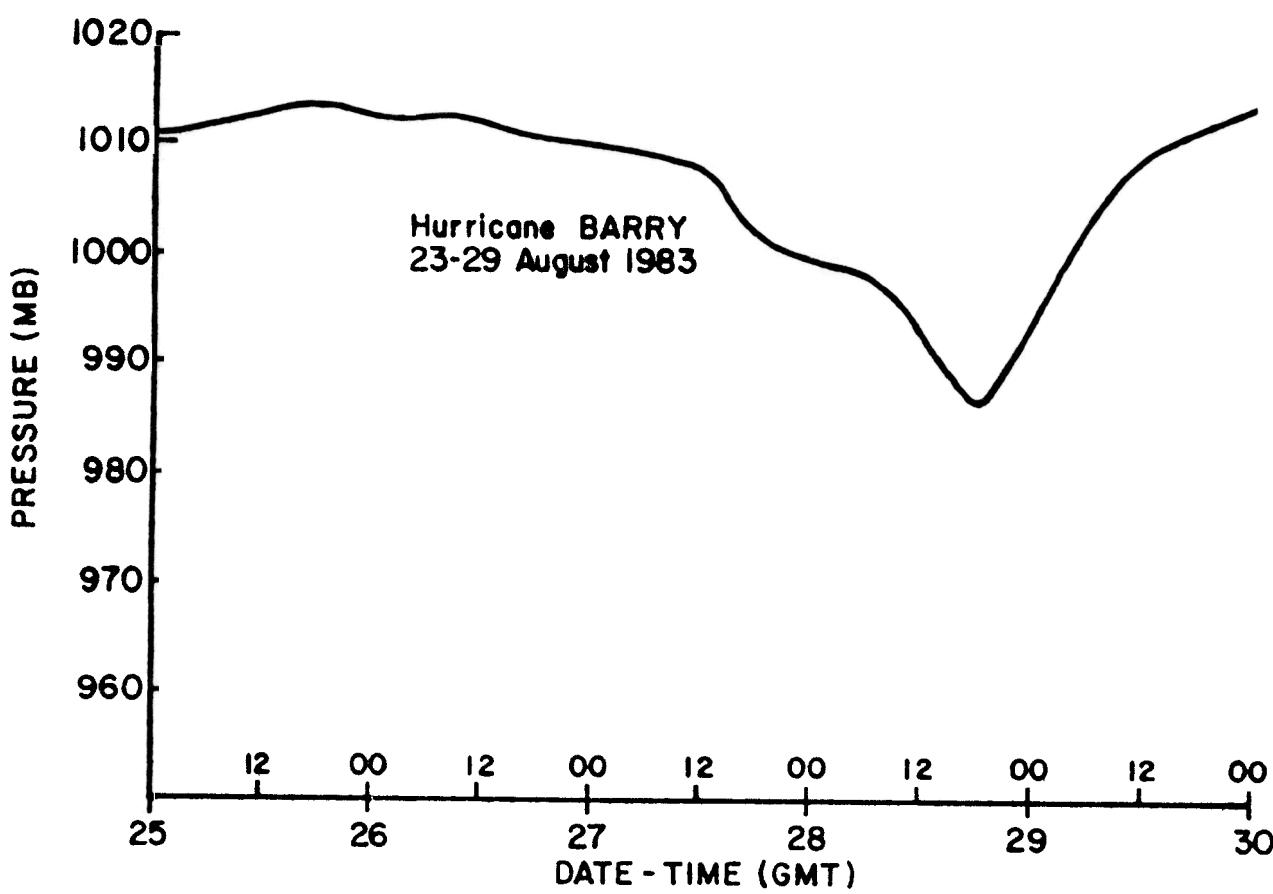
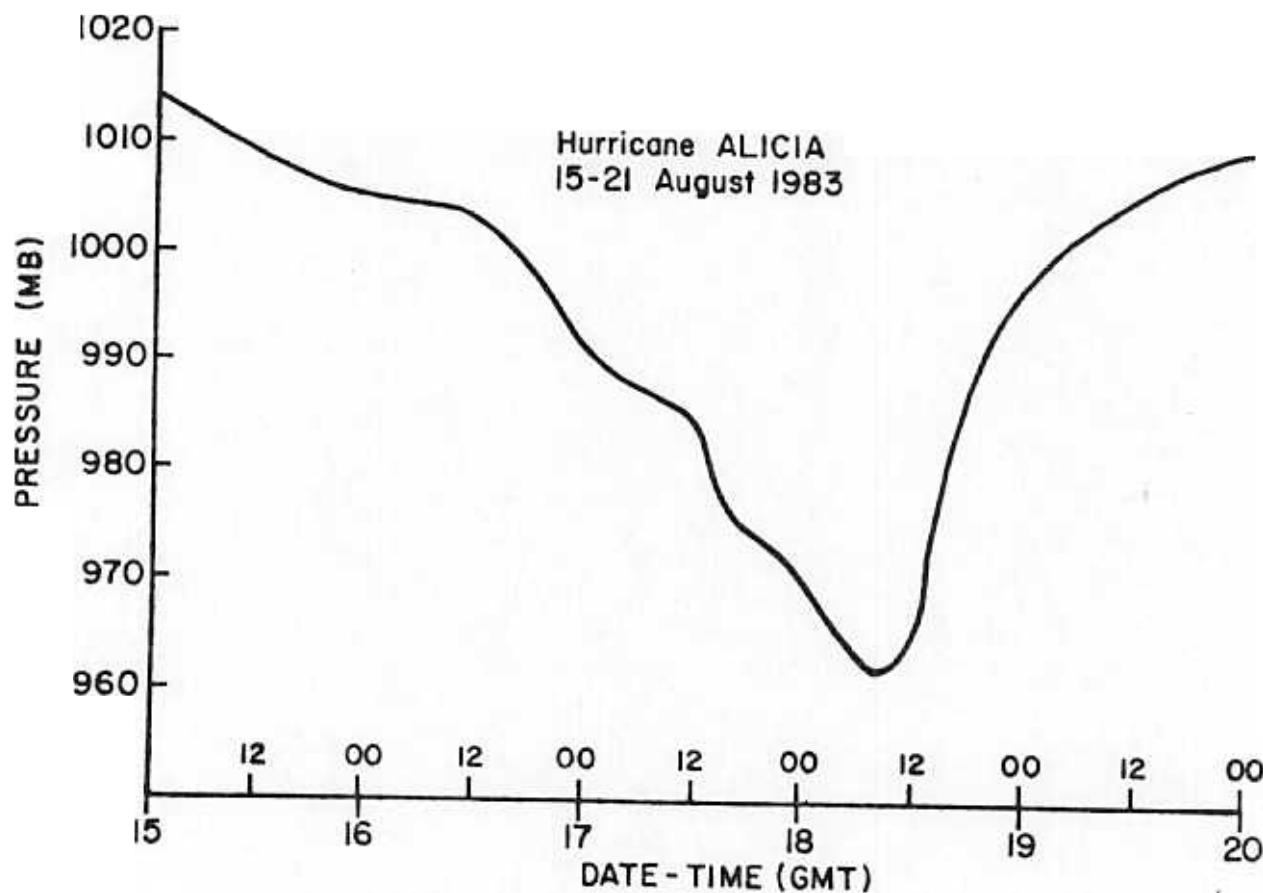
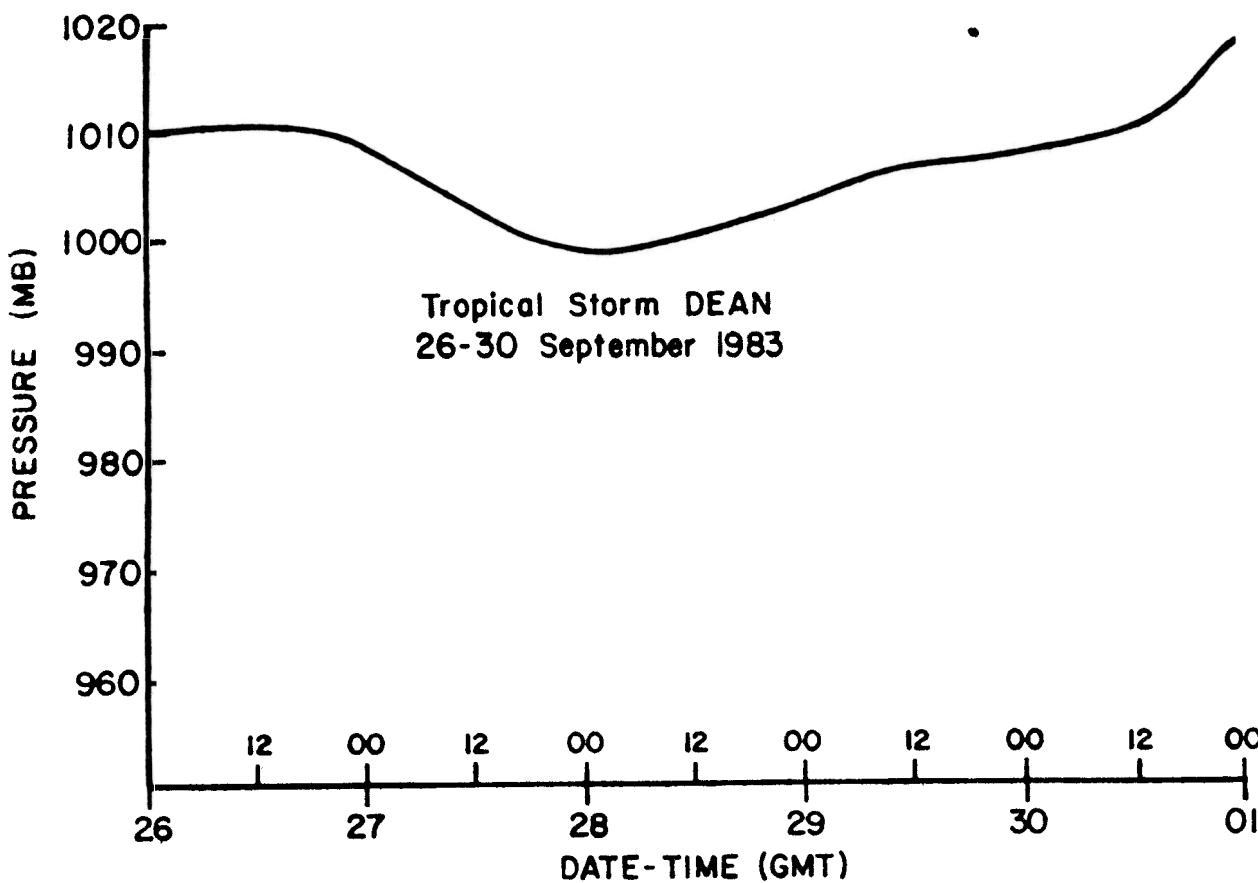
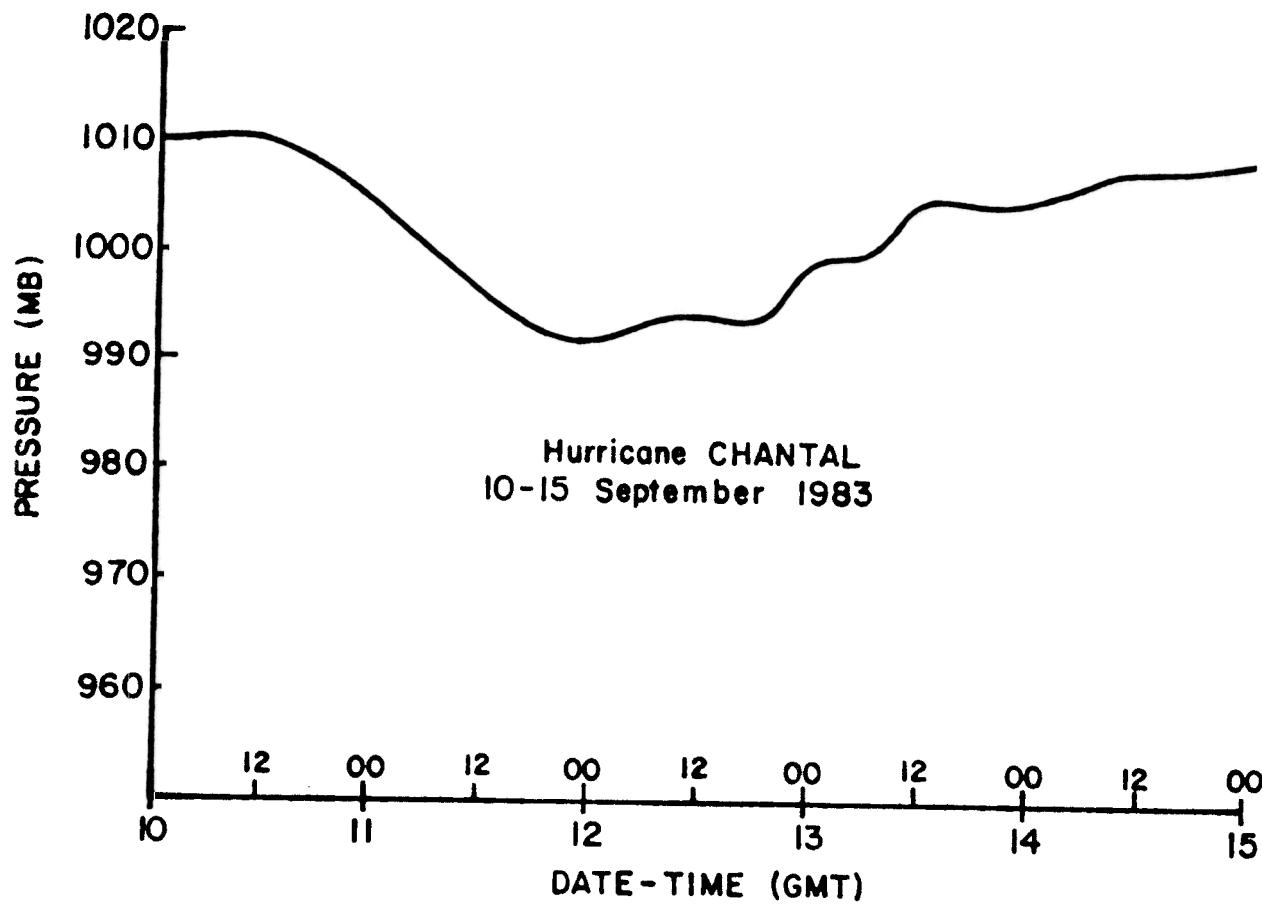


Figure 2b. Flight pattern "A" (modified) flown in obtaining Supplementary Vortex Data Message.





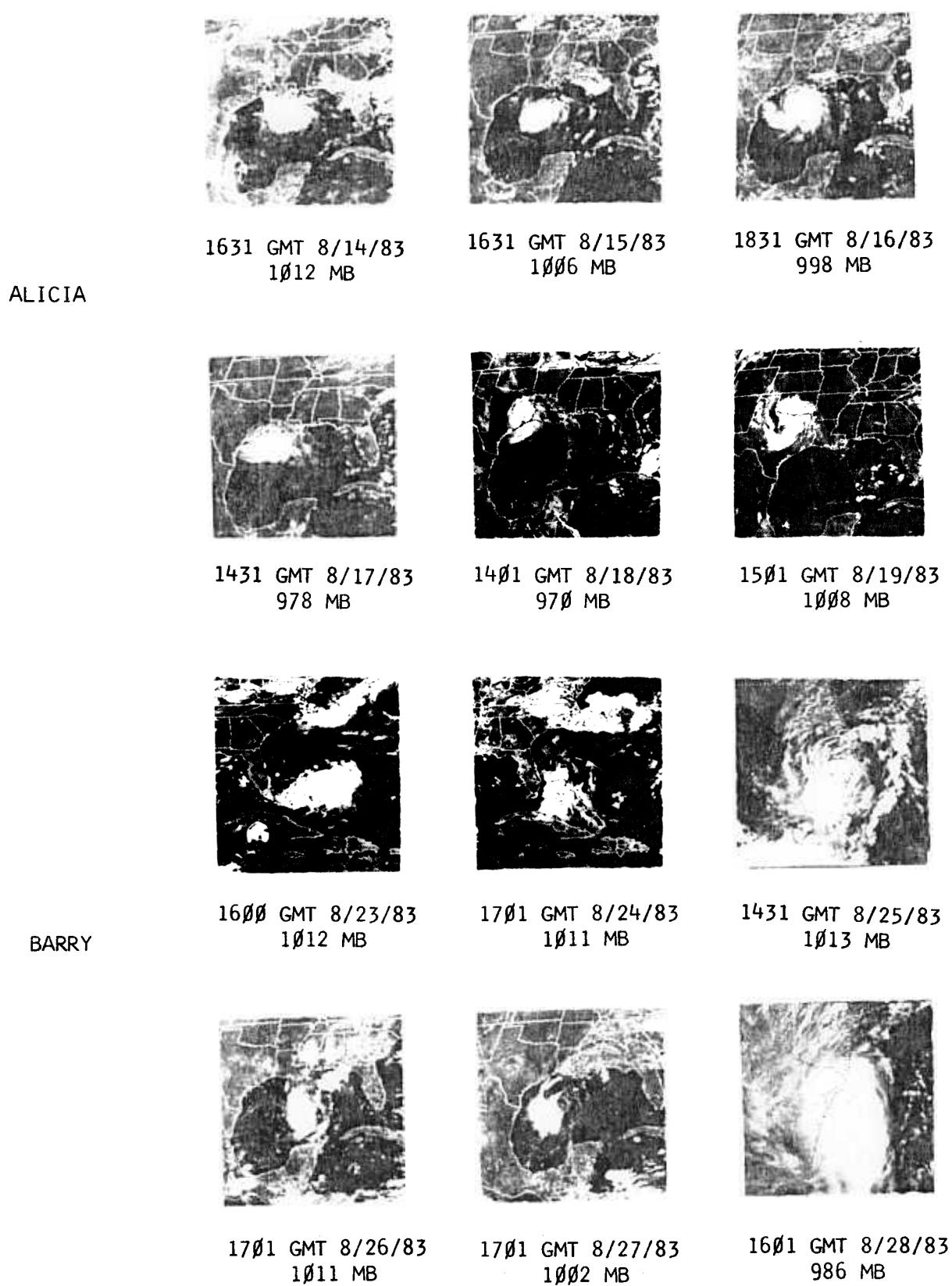
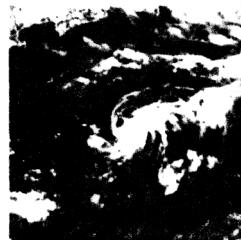
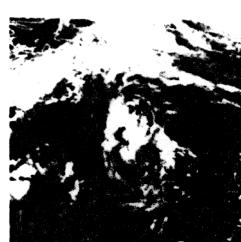


FIGURE 4. DAILY SATELLITE PHOTOGRAPHS OF 1983 TROPICAL CYCLONES.



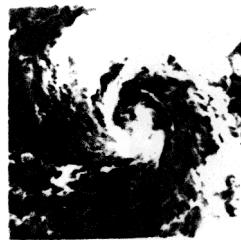
CHANTAL



1501 GMT 9/10/83  
1008 MB

1701 GMT 9/11/83  
992 MB

1501 GMT 9/12/83  
994 MB

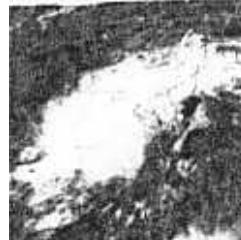


DEAN

1631 GMT 9/26/83  
1010 MB

1631 GMT 9/27/83  
1000 MB

1931 GMT 8/28/83  
1001 MB



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
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)
MFM	13 (8)	54 (8)	95 (5)	166 (2)	- (0)

14

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 Startes 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 <sup>1</sup>	Dates <sup>2</sup>	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	

<sup>1</sup> T: Tropical Storm (winds 34-63 knots)

H: Hurricane (winds 64 knots or higher)

<sup>2</sup> 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.MI.)	12-HOUR FORECAST		24-HOUR FORECAST		48-HOUR FORECAST		72-HOUR FORECAST		
	LAT. (°N)	LONG. (°W)	LAT. (°N)	LONG. (°W)		LAT. (°N)	LONG. (°W)	LAT. (°N)	Long. (°W)	LAT. (°N)	LONG. (°W)	LAT. (°N)	LONG. (°W)	ERROR (N.MI.)
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
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
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
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
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	30.0	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.MI.)					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.)									
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.MI.)	12-HOUR FORECAST			24-HOUR FORECAST			8-HOUR FORECAST			72-HOUR FORECAST		
	BEST LAT. (°N)	BEST LONG. (°W)	OP. LAT. (°N)	OP. LONG. (°W)		LAT. (°N)	LONG. (°W)	(N.MI.)	LAT. (°N)	LONG. (°W)	(N.MI.)	AT. ON	LONG. (°W)	(N.MI.)	LAT. (°N)	LONG. (°W)	(N.MI.)
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.MI.)					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			24-HOUR FORECAST			48-HOUR FORECAST			72-HOUR FORECAST		
	LAT. (°N)	LONG. (°W)	LAT. (°N)	LONG. (°W)		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. Enter Fix positions and intensity evaluations for 1983 Tropical Cyclones.

## HURRICANE ALICIA 15-21 AUGUST 1983

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	EVE		CHARACTERISTICS	OBS. UNIT	RESOLUTION	ACFT ALT
			LAT. (°N)	LONG. (°W)	SFC.	FLT. LVL.				C=CIR. E=ELIP. (N.MI.)	DIA.				
32	16	2156	27.3	93.1						16		Good Fix	LCH-R		
33	16	2203	27.3	93.2						12		Good Fix-Possible Eye	GLS-R		
34	16	2224	27.4	93.2	60	60	991		26	23	15	Poorly Defined	AF	2/2	334M
35	16	2225	27.3	93.1								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 SFC.	MIN LVL.	TEMP. °C	EYE		CHARACTERISTICS	BS NIT	ACFT RESOLUTION	ACFT ALT		
			LAT. (°N)	LONG. (°W)	FLT.	PRES. (MB)				IN.	OUT.	C=CIR. E=ELIP. (N.MI.)					
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									20	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									20	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	
73	17	0610	27.6	93.7									20	Fair Fix	NOAA	5/15	850MB
74	17	0625	27.6	93.8									14	Good Fix-Eye	GLS-R		
75	17	0629	27.6	93.7									14	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									12	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									12	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									20	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								20	Closed	GOES 5	2,3 IR 8	
85	17	0902	27.9	94.0		75	986		1303	22	19		20	Good Fix-EYE	NOAA	5/5	850MB
86	17	0910	27.9	94.0									20	Possible Center	GLS-R		
87	17	0925	27.8	94.1									20	Good Fix-Eye	BRO-R		
88	17	0925	27.7	94.1									18	Good Fix-Eye	LCH-R		
89	17	0950	27.8	94.1									18	Good Fix-Eye	LCH-R		
90	17	1005	27.9	94.2									20	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									22	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									20	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 SFC.	MIN FLT. LVL.	MIN 700 MB HT. (M)	TEMP. °C	EYE		CHARACTERISTICS	OBS UNIT	RESOLUTION	ACFT ALT	
			LAT. (°N)	LONG. (°W)							C=CIR. E=ELIP. (N.MI.)	DIA					
99	17	1125	27.8	94.3									18	Poor Fix	BRO-R		
100	17	1130	28.0	94.3									20	Good Fix-Eye	GLS-R		
101	17	1152	27.9	94.4									22	Good Fix-Eye	LCH-R		
102	17	1200	27.9	94.3									20	Fair Fix	BRO-R		
103	17	1210	27.9	94.3									22	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									20	Good Fix-Eye	GLS-R		
107	17	1229	27.9	94.3									20	Good Fix	BRO-R		
108	17	1230	28.0	94.5	27												
109	17	1250	27.9	94.4									22	Good Fix	GOES 5	2,3 VSBL 1	
110	17	1305	27.8	94.3									22	Good Fix	LCH-R		
111	17	1305	27.7	94.4									22	Good Fix	GLS-R		
112	17	1325	27.9	94.4									20	Good Fix	BRO-R		
113	17	1325	27.7	94.4									18	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				20	Good Fix	GLS-R		
116	17	1351	27.9	94.4									20	Good Fix	AF		700MB
117	17	1405	28.0	94.3									20	Good Fix	LCH-R		
118	17	1410	27.7	94.4									20	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									12	Good Fix	GLS-R		
122	17	1500	28.0	94.4	90								20	Good Fix	GOES 5	2,1 VSBL 1	
123	17	1514	28.0	94.4	45	90	975		2880	15	12		25	Closed	AF	4/3	700MB
124	17	1516	28.0	94.4	80	86	976		1233	22	17		20	Closed	NOAA	2/5	850MB
125	17	1527	27.9	94.5									20	Good Fix	LCH-R		
126	17	1530	27.9	94.4									12	Good Fix	GLS-R		
127	17	1557	27.9	94.5									20	Good Fix	LCH-R		
128	17	1605	27.9	94.3									12	Good Fix	GLS-R		
129	17	1625	27.9	94.3									12	Good Fix	GLS-R		
130	17	1631	28.0	94.5									20	Fair Fix	LCH-R		
131	17	1659	28.0	94.5									15	Fair Fix	LCH-R		

Table 6 continued.

HURRICANE ALICIA continued.

FIX NO.	DATE	TIME (GMT)	POSITION		MAX.WIND(KT)		MIN. SFC.	MIN. FLT. LVL.	MIN 700 MB HT.(M)	TEMP. °C		EYE		CHARACTERISTICS	OBS UNIT	RESOLUTION	ACFT ALT
			LAT. (N)	LONG. (W)	86	974				22	18	C=CTR. E-ELIP. DIA (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			90	86	974	1206	22	18	20	Closed	NOAA	2/5	850MB
136	17	1800	28.1	94.4											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		90	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		90	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 conti nued.

IX NO.	DATE	TIME (GMT)	POSITION		MAX.WIND(KT)		MIN SFC. FLT. LVL.	MIN PRES. (MB)	MIN 700 MB HT.(M)	TEMP OC	EYE		CHARACTERISTICS	OBS UNIT	RESOLUTION	ACFT ALT
			LAT. (°N)	LONG. (°W)	C=CIR. E=ELIP.						DIA (N.MI)					
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								
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 FLT. SFC.	MIN PRES. (MB)	MIN 700 MB HT.(M)	TEMP. °C	EYE		CHARACTERISTICS	OBS UNIT	RESOLUTION	ACFT ALT
			LAT. (°N)	LONG. (°W)	FLT. LVL.	IN.					E=CIR. DIA E=ELIP. (N.MI.)					
200	18	0725	28.8	95.3										15° Overlay	BRO-R	
201	18	0730	29.1	95.1										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		
204	18	0758	29.1	95.1										10		LCH-R
205	18	0800	28.9	95.4										8		GLS-R
206	18	0825	28.9	95.6										6		BRO-R
207	18	0825	29.1	95.3												LCH-R
208	18	0842	29.2	95.2			90		962	1103	22	17		12		NOAA
209	18	0855	29.2	95.4												LCH-R
210	18	0902	29.2	95.4										17		BRO-R
211	18	0925	29.2	95.6										20		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		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.W ND(KT) SFC.	MIN FLT. LVL.	MIN PRES. (MB)	MIN 700 MB HT.(M)	TEMP. °C IN. OUT.	<u>CENTER FIXES</u>		CHARACTERISTICS	OBS. UNIT	RESOLUTION	ACFT ALT.
			LAT. (°N)	LONG. (°W)							C=CIR. E=ELIP. (N.MI.)	EYE DIA.				
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	62		1011							AF	10/5 15
8	24	0000	26.5	76.0	35			1005			24	26		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	

30

Table 6 continued.

**HURRICANE BARRY continued.**

Table 6 continued.

HURRICANE BARRY continued.

FIX NO.	DATE	TIME (GMT)	POSITION		MAX. WIND (KT)		MIN. SFC. (MB)	MIN. 700 MB HT. (M)	TEMP. °C	EYE		CHARACTERISTICS	OBS. UNIT	RESOLUTION	ACFT ALT
			LAT. (°N)	LONG. (°W)	FLT. LVL.	IN. OUT.				C=CIR. E=ELIP. (N.MI.)					
64	28	0900	25.6	96.2	65		987				18	Possible Center 15° overlay	GOES 5 BRO-R	2,3	IR 8
65	28	0905	25.3	96.2											
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 (°N)	POSITION (°W)	MAX.WIND(KT) SFC.	MIN. FLT LVL.	MIN PRES. (MB)	MIN 700 MB HT.(M)	TEMP. °C IN. OUT.	EYE C=CTR. DIA. E=ELIP.(N.MI.)	CHARACTERISTICS	OBS. UNIT	RESOLUTION	ACFT. ALT.
1	10	1230	30.0	64.5	25									
2	10	1424	30.4	64.2	25	32	1010		23			GOES 5	2.5 VSBL 1	
3	10	1830	30.7	64.0	25							AF	3/3	180M
4	10	1837	30.9	64.1	30		1008		24 24			GOES 5	2.5 VSBL 1	
5	10	2053	31.1	63.8	35	40	1006		24 24			AF	5/2	213M
6	11	0000	31.6	63.3	35							AF	5/2	168M
7	11	0400	31.7	62.7								GOES 5	2,3 IR 8	
8	11	0600	32.0	62.5	35							GOES 5	3 IR 8	
9	11	1200	32.5	61.2	35							GOES 5	2,3 IR 8	
10	11	1229	32.4	61.2	55	50	996		25 24			GOES 5	2,3 VSBL 1	
11	11	1500	32.6	60.6	45						Open South-Southwest	AF	3/1	338M
12	11	1800	32.8	59.8	55							GOES 5	2,3 VSBL 1	
13	12	0000	33.3	58.5	55							GOES 5	2,3 VSBL 1	
14	12	0600	33.6	57.4	55							GOES 5	2,5 IR 8	
15	12	1200	34.0	56.2	55							GOES 5	2,3 IR 8	
16	12	1500	34.4	55.7	55							GOES 5	2,3 VSBL 1	
17	12	1800	34.5	55.2	55							GOES 5	2,3 VSBL 1	
18	13	0000	34.8	54.8	45							GOES 5	2,5 VSBL 1	
19	13	0600	35.4	54.7	45							GOES 5	2,5 IR 8	
20	13	1200	35.9	54.3	35							GOES 5	1,3 IR 8	
21	13	1800	36.3	54.1	35							GOES 5	2,3 VSBL 1	
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 IR 8	
25	14	1800	39.3	52.8	35							GOES 5	2,5 VSBL 1	
26	15	0000	40.4	50.7	30							GOES 5	2,3 VSBL 1	
27	15	0600	41.7	48.8	30							GOES 5	1,3 IR 8	

Table 6 continued.

TROPICAL STORM DEAN 27-30 SEPTEMBER 1983

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

URNT12	KMIA	161945				
AF963	0303	<u>ALICIA</u>	OB	19	KMIA	
SUPPLEMENTARY	VORTEX	DATA MESSAGE				
00///	0///	0///	0///	0///	0///	0///
80///	8///	8///	8///	8///	8///	8///
60///	6///	6///	6///	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///	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						

URNT12	KMIA	162350	COR			
AF866	0403	<u>ALICIA</u>	OB	05	COR	KMIA
SUPPLEMENTARY	VORTEX	DATA MESSAGE				
00///	0///	0///	0///	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					

Table 7 continued.

ALICIA

URNT12	KMIA	170132	COR	
AF866	0403	<u>ALICIA</u>	OB	09
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
SUPPLEMENTARY	VORTEX	DATA	KMIA
00///	0///	0///	0///
80///	8///	8///	8///
60281	60943	63145	60906
45279	40941	43125	40908
30278	30938	33095	30909
15277	10936	13034	10909
CC275	C0933	C3002	C1310
MF045	27035	AZ///	170201
15275	10930	13067	11010
30275	30927	33111	30909
45275	40924	43139	40808
60275	60921	63146	60707
80275	80918	83164	80807
00275	00914	03177	00805
MF042	09030		16032
			16024

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	<u>BARRY</u>	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	<u>BARRY</u>	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 BARRY 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 BARRY OB 07 KMIA  
SUPPLEMENTARY VORTEX DATA MESSAGE  
00/// 0/// 0/// 0/// 0///  
80/// 8/// 8/// 8/// 8///  
60/// 6/// 6/// 6/// 6///  
45/// 4/// 4/// 4/// 4///  
30/// 3/// 3/// 3/// 3///  
15/// 1/// 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
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
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///	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
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
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///	1///
CC253	C0905	C0009	C2523	270625
MF040	36018	AZ270		
15257	10905	10011	12424	11036
30261	30904	30012	32423	12019
45///	4///	4///	4///	1///
60267	60904	60012	62422	14026
80///	8///	8///	8///	1///
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

\* 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/// 1///  
30264 30920 38006 31715 10014  
45/// 4/// 4/// 4/// 1///  
60268 60917 63179 60902 09022  
80271 80915 83186 80900 09017  
00274 00913 03195 00851 09020  
MF/// 1///  
OUT BOUND OBS MISSING DUE TO CLIMB

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/// 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

Table 7 continued.

BARRY

URNT12	KMIA	272200				
AF977	1504	<u>BARRY</u>	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	<u>BARRY</u>	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
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
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/// 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/// 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/// 15//  
80/// 8/// 8/// 8/// 15//  
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/// 15//  
00/// 0/// 0/// 0/// 15//  
MF012 09030

URNT12 KMIA 091623  
AF969 01XX INVEST OB 18 KMIA  
SUPPLEMENTARY VORTEX DATA MESSAGE  
00/// 0/// 0/// 0/// 18//  
80/// 8/// 8/// 8/// 18//  
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/// 18//  
30/// 3/// 3/// 3/// 18//  
45/// 4/// 4/// 4/// 18//  
60/// 6/// 6/// 6/// 18//  
80/// 8/// 8/// 8/// 18//  
00/// 0/// 0/// 0/// 18//  
MF/// 18//

Table 7 continued.

URNT12 KMIA 101942  
AF967 0305 CYCLONE OB 10 KMIA  
SUPPLEMENTARY VORTEX DATA MESSAGE  
00/// 0/// 0/// 0/// 1///  
80/// 8/// 8/// 8/// 1///  
60/// 6/// 6/// 6/// 1///  
45/// 4/// 4/// 4/// 1///  
30/// 3/// 3/// 3/// 1///  
15/// 1/// 1/// 1/// 1///  
CC309 C0641 C0008 C24// 101837  
MF/// 1/// 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 CYCLONE OB 14 KMIA  
SUPPLEMENTARY VORTEX 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/// 1///  
80/// 8/// 8/// 8/// 1///  
00/// 0/// 0/// 0/// 1///  
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///	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///	////				

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 monitor only)

UR \_\_\_\_\_ 12 \_\_\_\_\_

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

AF \_\_\_\_\_

SUPPLEMENTARY VORTEX DATA MESSAGE					LEGEND
(L <sub>a</sub> L <sub>b</sub> L <sub>c</sub> ) 00	(L <sub>a</sub> L <sub>b</sub> L <sub>c</sub> L <sub>d</sub> ) 0	(iHHH) 0	(TTT <sub>d</sub> T <sub>d</sub> ) 0	(ddfff)	00/0 = INDICATORS FOR DATA COLLECTED APPROX 100NM FROM SYSTEM CENTER
80	8	8	8		80/8 = INDICATORS FOR DATA COLLECTED APPROX 80NM FROM SYSTEM CENTER
60	6	6	6		60/6 = INDICATORS FOR DATA COLLECTED APPROX 60NM FROM SYSTEM CENTER
45	4	4	4		45/4 = INDICATORS FOR DATA COLLECTED APPROX 45NM FROM SYSTEM CENTER
30	3	3	3		30/3 = INDICATORS FOR DATA COLLECTED APPROX 30NM FROM SYSTEM CENTER
15	1	1	1		15/1 = INDICATORS FOR DATA COLLECTED APPROX 15NM FROM SYSTEM CENTER
CC	C	C	C		CC/C = INDICATORS FOR DATA COLLECTED AT THE SYSTEM CENTER
(fff) MF	(BBRRR)	(ddd) AZ			ddd = TRUE DIRECTION IN TENS OF DEGREES OF STORM MOTION
(L <sub>a</sub> L <sub>b</sub> L <sub>c</sub> ) 15	(L <sub>a</sub> L <sub>b</sub> L <sub>c</sub> L <sub>d</sub> ) 1	(iHHH) 1	(TTT <sub>d</sub> T <sub>d</sub> ) 1	(ddfff)	MF = INDICATOR FOR MAX FLIGHT LEVEL WIND OBSERVED
30	3	3	3		AZ = INDICATOR FOR TRUE DIRECTION OF STORM MOTION
45	4	4	4		fff = SPEED OF WIND IN KNOTS
60	6	6	6		dd = TRUE DIRECTION OF FLIGHT LEVEL WIND SPEED IN TENS OF DEGREES
80	8	8	8		BBRRR = BEARING (BB) AND RANGE (RRR) FROM CENTER OF MF
00	0	0	0		YYGGgg = ZULU DATE/TIME OF CENTER DATA
(fff) MF	(BBRRR)				TTT <sub>d</sub> T <sub>d</sub> = TEMP/DEWPONT IN DEGREES CELSIUS; ADD 50 FOR NEGATIVE VALUES
REMARKS (End of message)					iHHH = PRESSURE HEIGHT DATA IN RECCO FORMAT
					L <sub>a</sub> L <sub>b</sub> L <sub>c</sub> = LATITUDE IN DEGREES/TENTHS
					L <sub>a</sub> L <sub>b</sub> L <sub>c</sub> L <sub>d</sub> = LONGITUDE IN DEGREES/TENTHS
					/ = DATA UNKNOWN/UNOBTAINABLE

## SAMPLE MESSAGE

URNT 12 KMIA 241703  
 AF966 0411 FREDERIC OB 14  
 SUPPLEMENTARY VORTEX DATA MESSAGE

00178	00899	03107	00908	36027
80177	80895	83100	80908	35042
60178	60891	63092	60807	36052
45177	40887	43088	40907	35070
30178	30883	33070	30908	36088
15178	10880	13000	11010	35108
CC177	C0876	C3947	C1811	241647
MF146	27003	A2310		
15177	10872	13000	11010	18120
30178	30868	33070	31009	17098
45178	40862	43088	40909	18080
60177	60858	63093	60908	17050
80177	80854	83102	80908	17048
00178	00850	03108	00905	18031
MF145	09005			

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

APPENDIX A  
CODE FOR SUPPLEMENTARY VORTEX DATA MESSAGE.

PREPARED BY:

TRANSMISSION TIME:

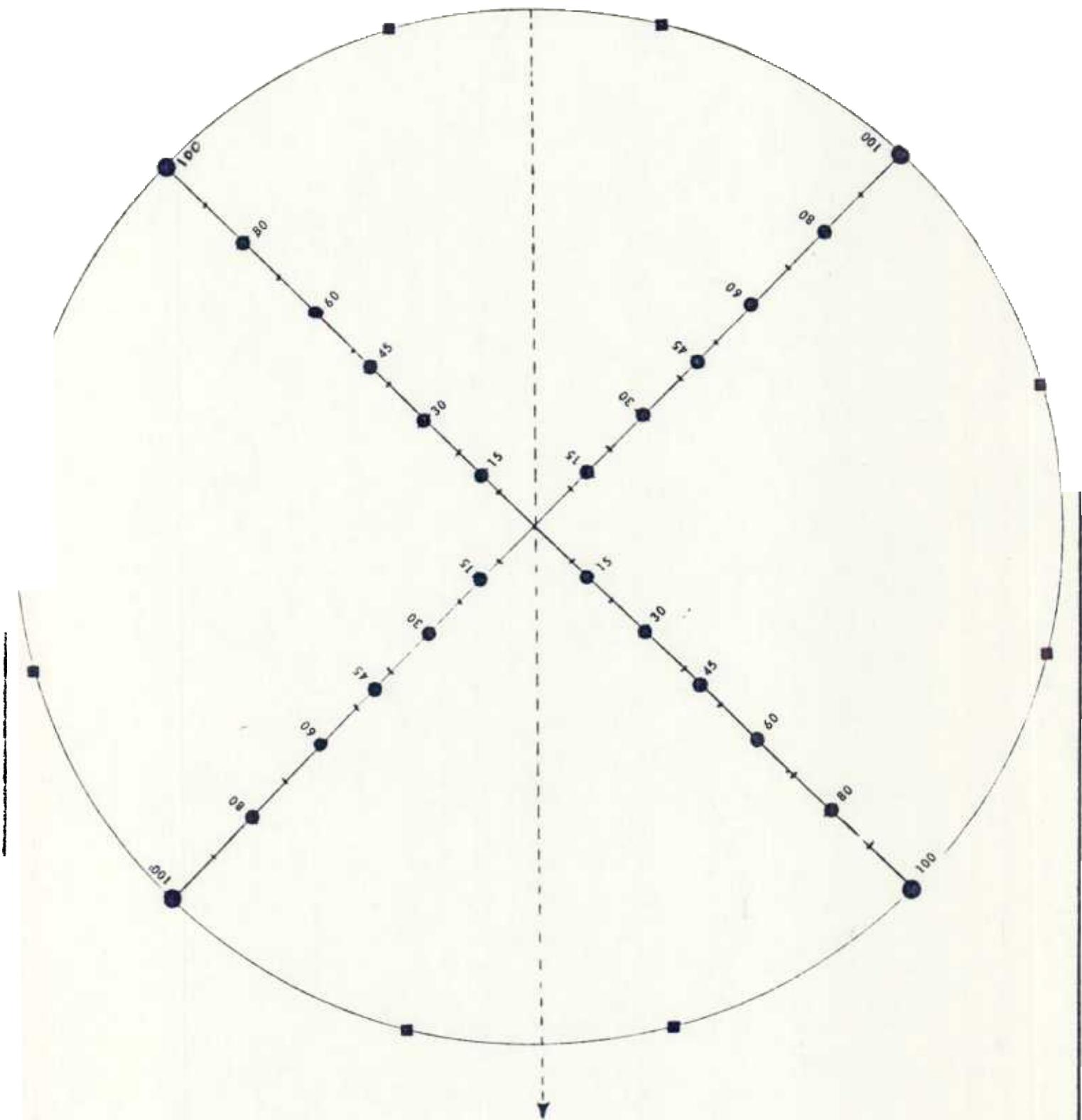


Table 8. Tropical Cyclone Reconnaissance Summary for 1983

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
OAO	19 / 1	0 / 0	0 / 0
54th WRS	0 / 0	0 / 0	11 / 0
Total	85 / 24	5 / 0	47 / 0
3. Missions Flown			
53rd WRS	15	0	10
920th WRG	36	3	10
OAO	9	0	0
54th WRS	0	0	5
Total	60	3	25
4. Flying Time			
53rd WRS	116.5	0	93.4
920th WRG	324.4	34.9	87.7
OAO	76.7	0	0
54th WRS	0	0	48.4
Total	517.6	34.9	229.5
5. Observations Horizontal	1338	Vertical	61

## 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
	1 PM TUE	THRU 1 AM WED	1 AM WED	1 PM WED	THRU 1 PM THU	
	1 PM TUE	1 AM WED	1 PM WED	1 PM THU	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
VERACRUX 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	THRU	
	7 PM TUE	7 AM WED	7 PM WED	7 PM THU	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 FRI	THRU 1 AM FRI	
	THRU 1 PM WED	THRU 1 AM THU	THRU 1 AM FRI	THRU 1 AM FRI	THRU 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					TOTAL THRU 7 AM FRI
	7 AM WED THRU	7 PM WED THRU	7 AM THU THRU	7 AM FRI THRU	7 AM FRI	
7 AM WED	7 PM WED	7 AM THU	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	THRU 1 PM WED	ADDITIONAL PROBABILITIES				TOTAL THRU 1 PM FRI
		1 PM WED THRU 1 AM THU	1 AM THU THRU 1 PM THU	1 PM THU THRU 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	THRU 7 PM WED	ADDITIONAL PROBABILITIES				TOTAL THRU 7 PM FRI
		7 PM WED THRU	7 AM THU THRU	7 PM THU THRU	7 PM FRI THRU	
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

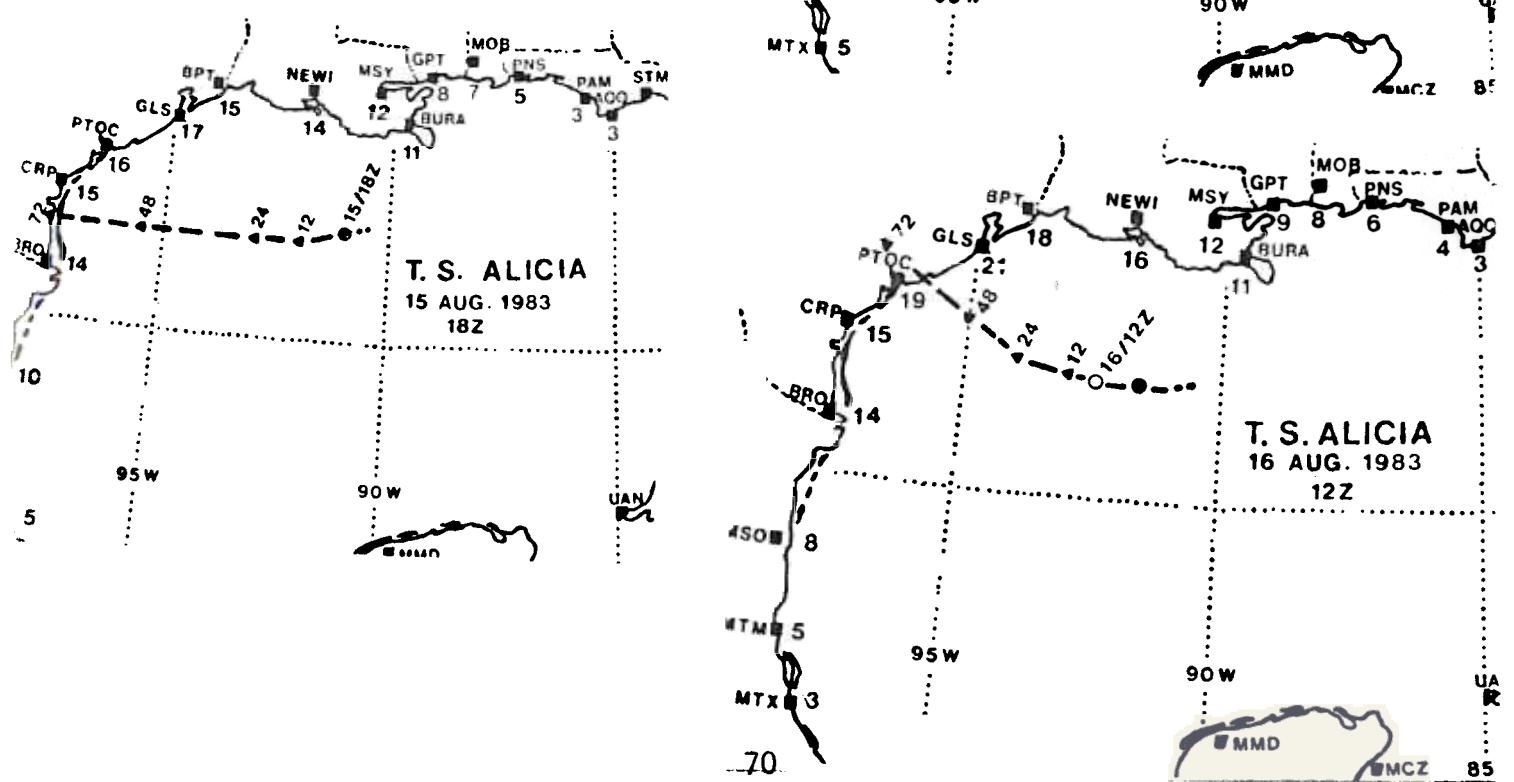
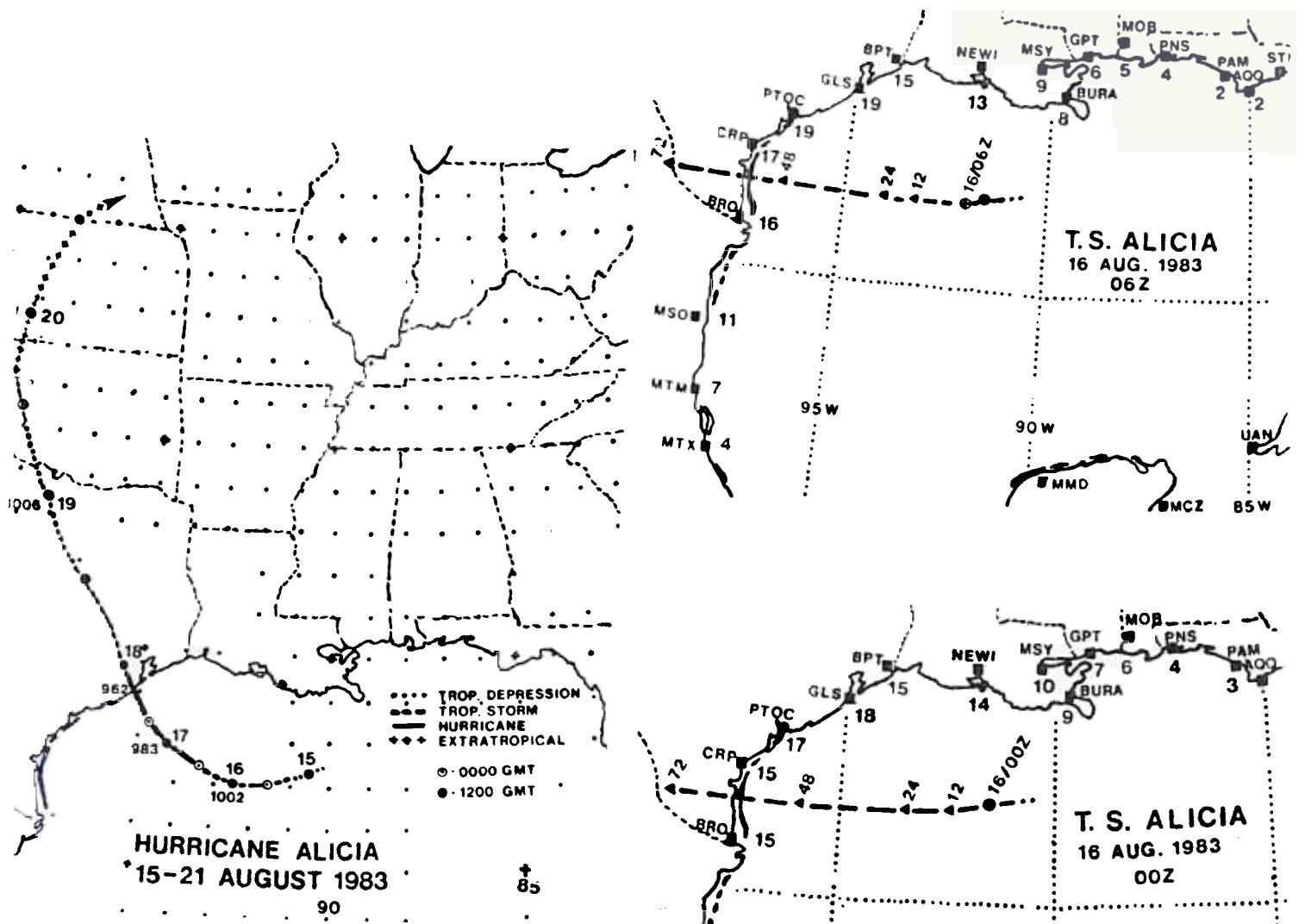
**ADVISORY NUMBER 7 HURRICANE ALICIA PROBABILITIES FOR  
GUIDANCE IN HURRICANE PROTECTION PLANNING BY  
GOVERNMENT AND DISASTER OFFICIALS**

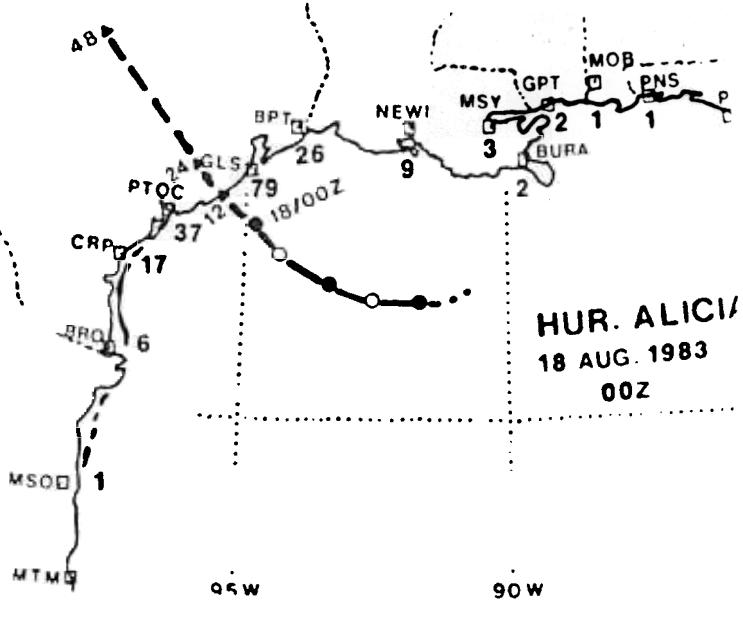
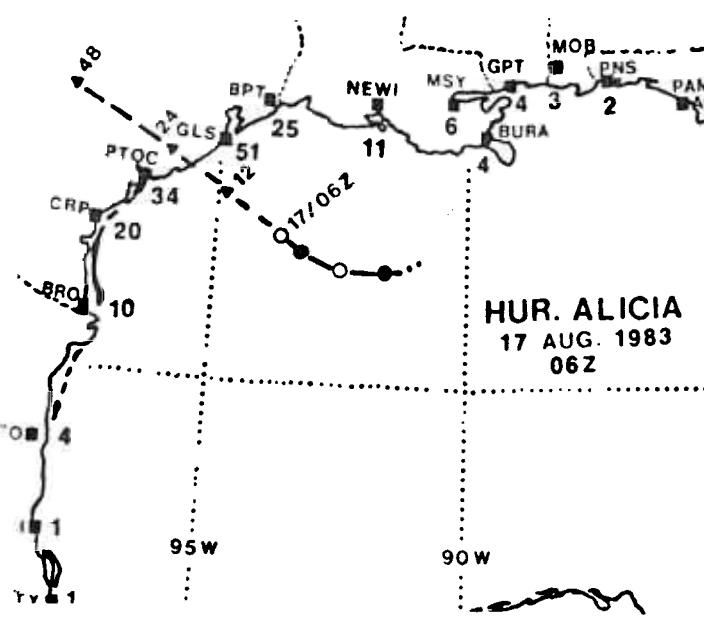
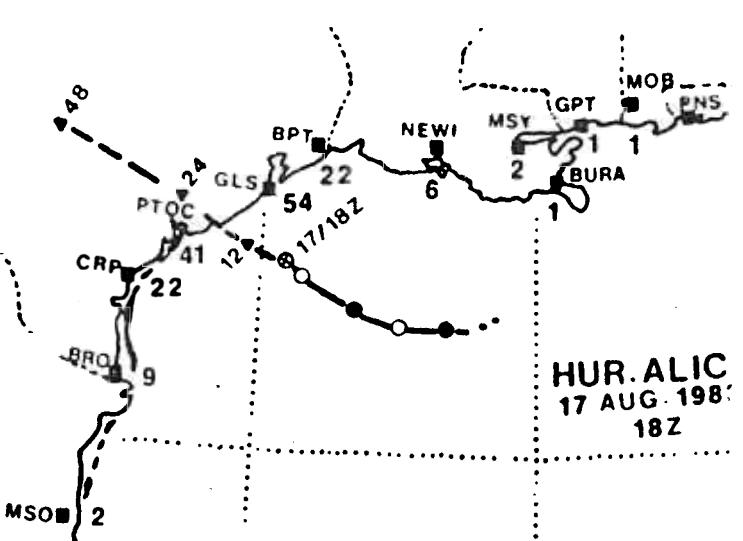
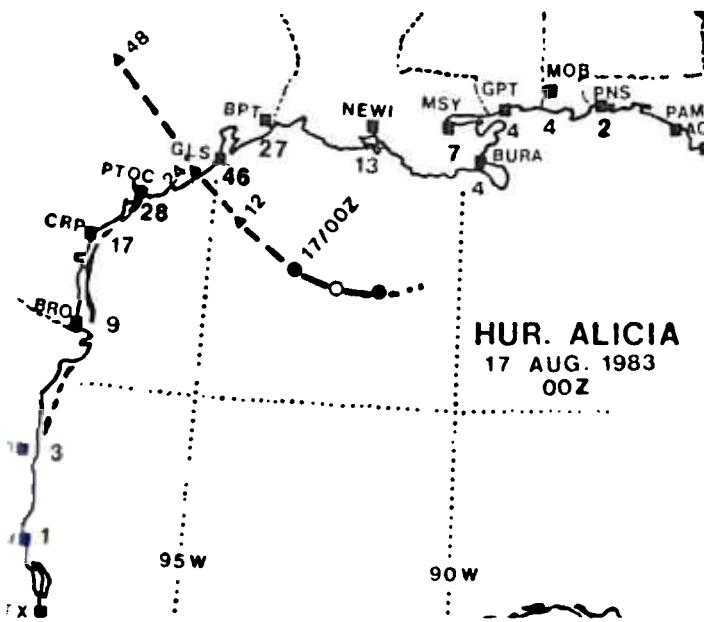
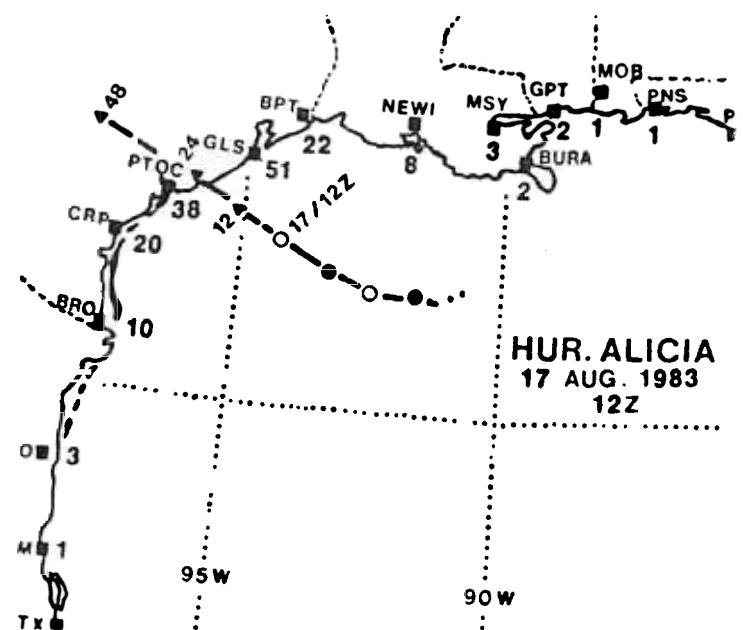
**CHANCES OF CENTER OF ALICIA PASSING WITHIN 65 MILES OF  
LISTED LOCATIONS THROUGH 1 AM CDT SAT AUG 20 1983**

**CHANCES EXPRESSED IN PER CENT...TIMES CDT**

COASTAL LOCATIONS	THRU 1 AM THU	ADDITIONAL PROBABILITIES				TOTAL THRU 1 AM SAT
		1 AM THU	1 PM THU	1 AM FRI	1 AM SAT	
		THRU 1 PM THU	THRU 1 AM FRI	THRU 1 AM SAT	THRU 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
	8 PM WED THRU	8 AM THU THRU	8 PM THU THRU	8 PM FRI THRU	
8 PM WED	8 AM THU	8 PM THU	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

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				TOTAL THRU 2 AM SAT
	THRU 2 AM THU	2 PM THU	2 AM FRI	THRU 2 AM SAT	
	THRU 2 AM THU	THRU 2 PM THU	THRU 2 AM FRI	THRU 2 AM SAT	
<b>ATLANTIC COAST PROBABILITIES</b>					
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
<b>GULF COAST PROBABILITIES</b>					
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	ADDITIONAL PROBABILITIES					TOTAL THRU 8 AM SAT
	THRU 8 AM THU	8 PM THU	8 AM FRI	THRU 8 AM SAT		
	8 AM THU	8 PM THU	8 AM FRI	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 PM THU THRU 2 AM FRI	2 AM FRI THRU 2 PM FRI	2 PM FRI THRU 2 PM SAT	2 PM SAT	
	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					TOTAL
	8 PM THU THRU	8 AM FRI THRU	8 PM FRI THRU	8 PM SAT THRU	8 PM SAT	
8 PM THU	8 AM FRI	8 PM FRI	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	2 PM FRI	2 AM SAT	THRU 2 AM SUN	
		THRU	THRU	THRU	THRU	
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

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES					TOTAL
	THRU 8 AM SAT	THRU 8 PM SAT	THRU 8 AM SUN	THRU 8 AM MON	THRU 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

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES					TOTAL
	THRU 8 AM SAT	THRU 8 PM SAT	THRU 8 AM SUN	THRU 8 AM MON	THRU 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	THRU 2 PM SAT	ADDITIONAL PROBABILITIES			TOTAL THRU 2 PM MON
		2 PM SAT	2 AM SUN	2 PM SUN	
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 HURRICANE 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	THRU 1 AM SUN	Additional Probabilities				TOTAL THRU 1 AM TUE
		1 AM SUN	1 PM SUN	1 AM MON	1 AM TUE	
		THRU	THRU	THRU	THRU	
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

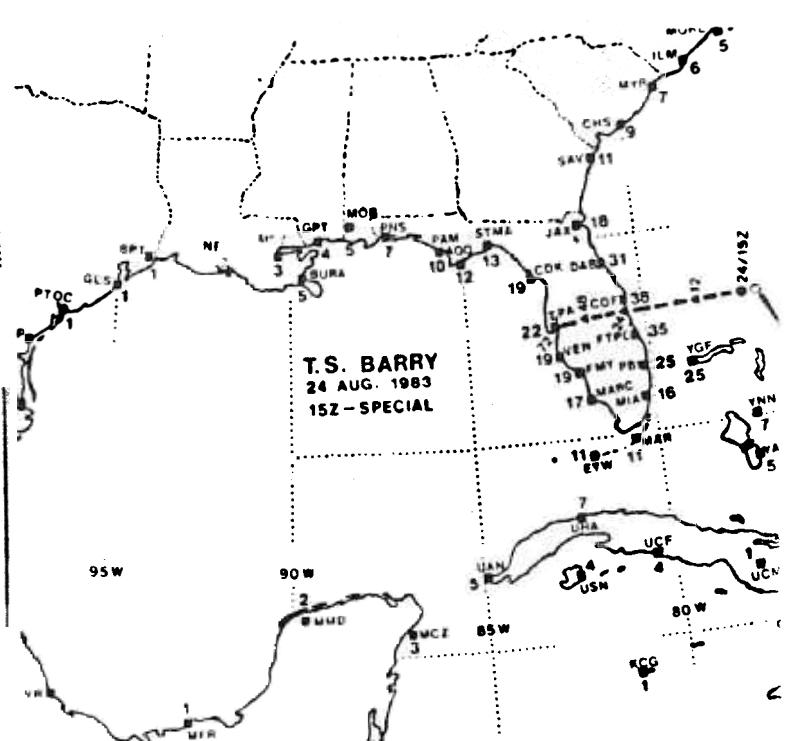
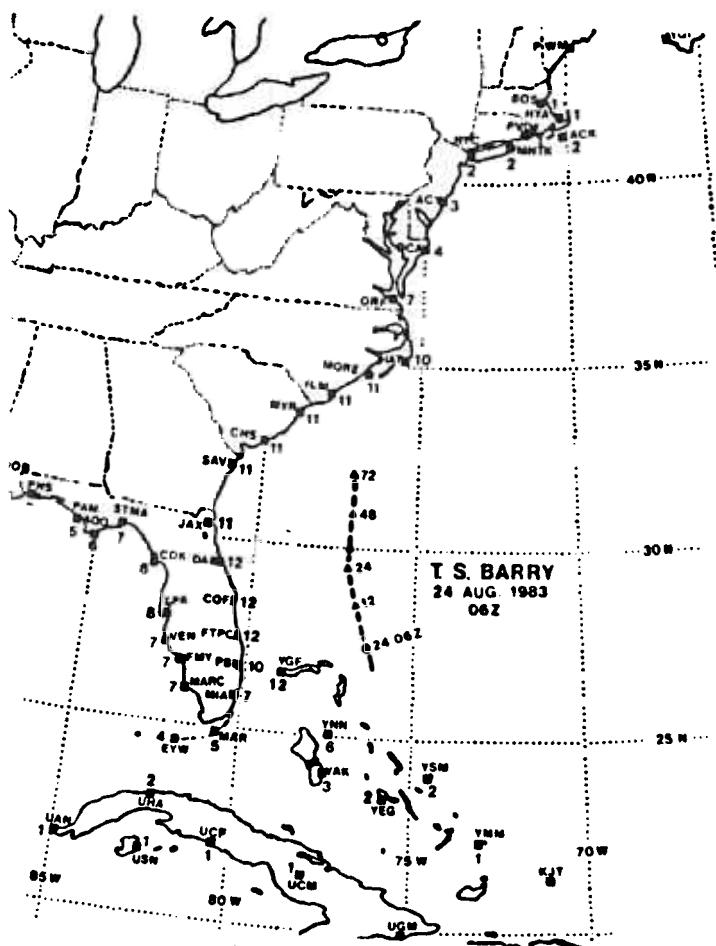
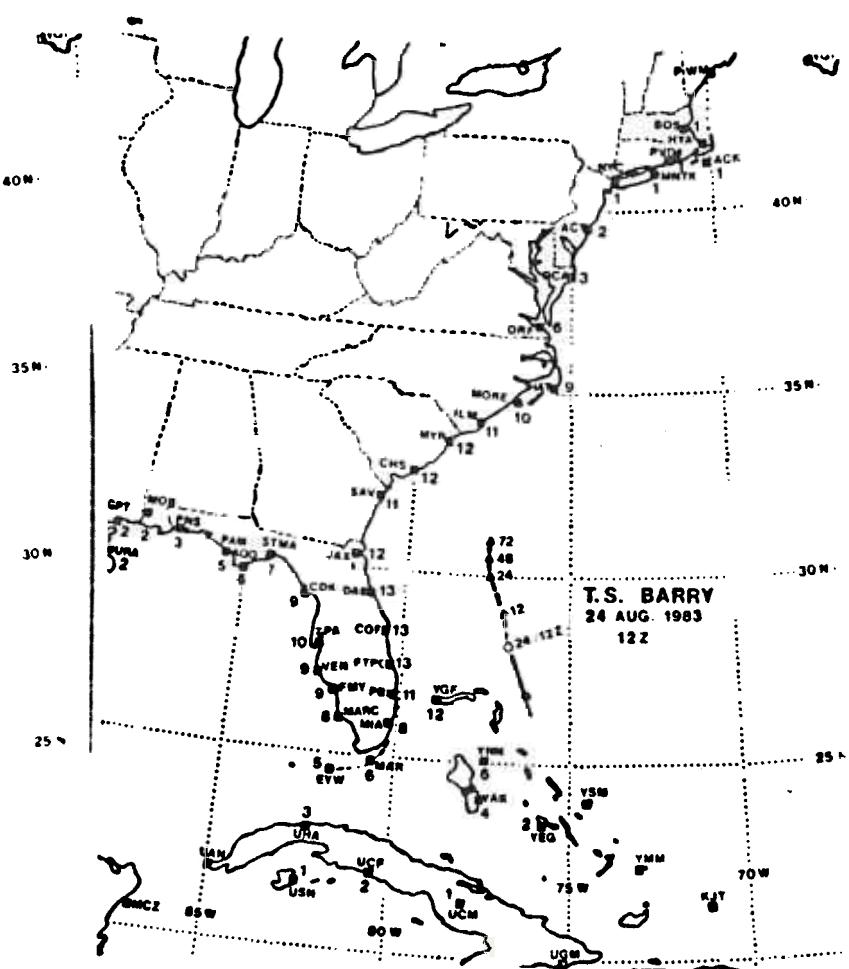
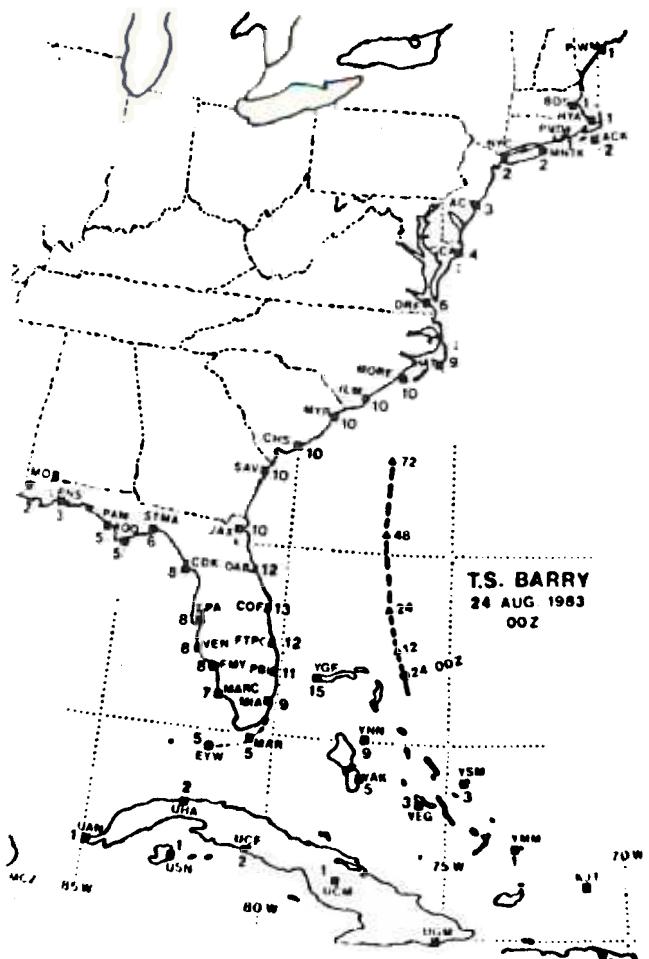
ADVISORY NUMBER 17 TROPICAL STORM BARRY PROBABILITIES FOR  
GUIDANCE IN HURRICANE PROTECTION PLANNING BY  
GOVERNMENT AND DISASTER OFFICIALS

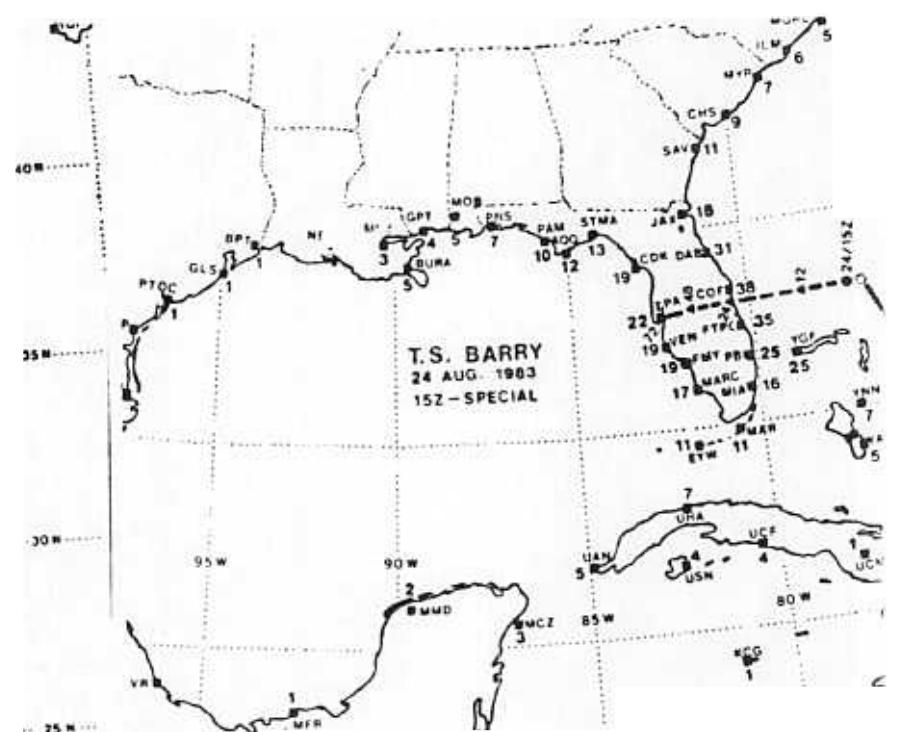
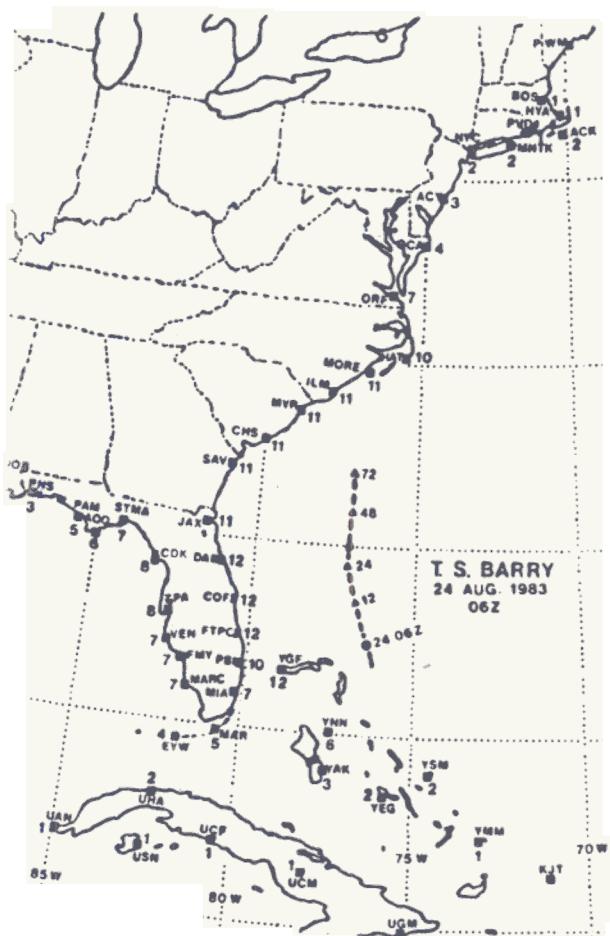
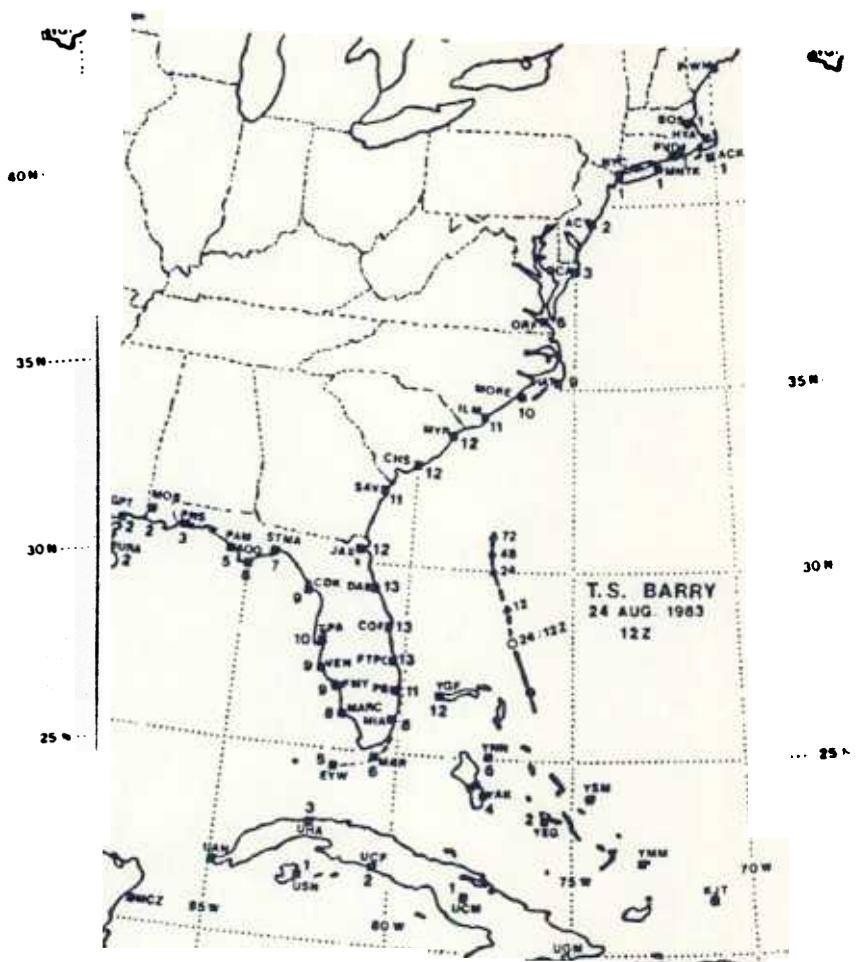
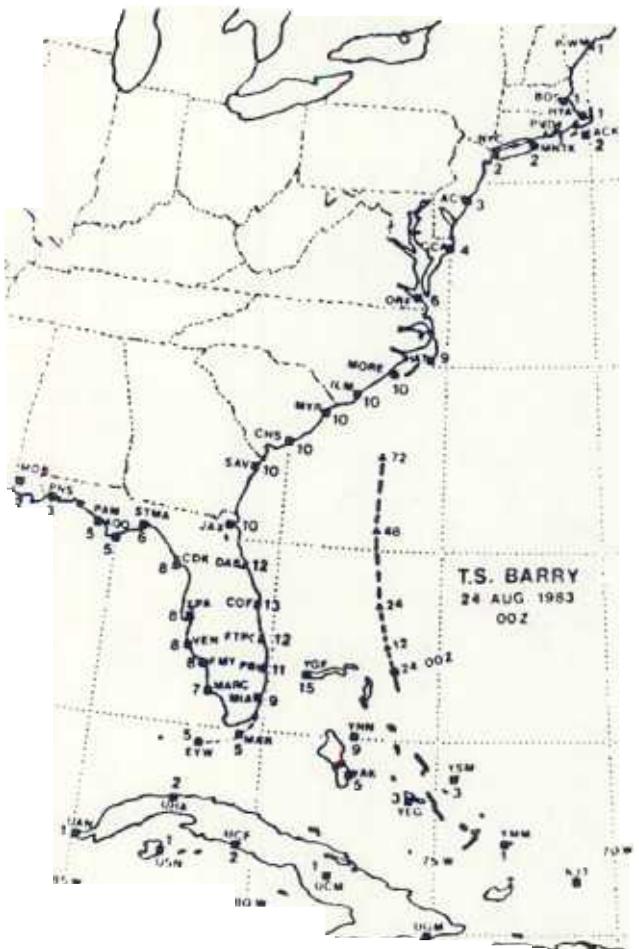
CHANCES OF CENTER OF BARRY PASSING WITHIN 65 MILES OF  
LISTED LOCATIONS THROUGH 7 AM CDT TUE AUG 30 1983

CHANCES EXPRESSED IN PER CENT...TIMES CDT

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES					TOTAL THRU 7 AM TUE
	7 AM SUN	7 PM SUN	7 AM MON	7 AM TUE		
	THRU 7 AM SUN	THRU 7 PM SUN	THRU 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					TOTAL
	2 PM THU THRU	2 AM FRI THRU	2 PM FRI THRU	2 PM SAT THRU	2 PM SAT	
2 PM THU	2 AM FRI	2 PM FRI	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					TOTAL THRU 8 PM SAT
	8 PM THU	THRU	8 AM FRI	8 PM FRI	THRU	
	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 HURRICANE PROTECTION PLANNING  
BY GOVERNMENT AND DISASTER OFFICIALS

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					TOTAL THRU 2 AM SUN
	2 AM FRI THRU	2 PM FRI THRU	2 AM SAT THRU	2 AM SAT THRU	2 AM SUN	
2 AM FRI	2 PM FRI	2 AM SAT	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					TOTAL THRU 8 AM SUN
	8 AM FRI THRU	8 PM FRI THRU	8 AM SAT THRU	8 AM SAT THRU	8 AM SUN	
	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**

**ADVISORY NUMBER 9 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 SUN OCT 2 1983**

**CHANCES EXPRESSED IN PER CENT...TIMES EDT**

COASTAL LOCATIONS	ADDITIONAL PROBABILITIES				TOTAL THRU 2 PM SUN
	2 PM FRI THRU	2 AM SAT THRU	2 PM SAT THRU	2 PM SUN THRU	
2 PM FRI	2 AM SAT	2 PM SAT	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

