NOAA Technical Memorandum NWS NHC 2

ANNUAL DATA AND VERIFICATION TABULATION

ATLANTIC TROPICAL CYCLONES 1975

Paul J. Hebert and Staff, NHC

National Hurricane Center
Miami, Florida
January 1977

UNITED STATES
DEPARTMENT OF COMMERCE
Juanita M. Kreps, Secretary

NATIONAL OCEANIC AND
ATMOSPHERIC ADMINISTRATION
Robert M. White, Administrator

National Weather
Service
George P. Cressman, Director

INTRODUCTION

This is the second 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 National Environmental Satellite Service (NESS) Miami office, the Naval Air Station at Bermuda, and the CARCAH (Chief Aerial Reconnaissance Coordination, all 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, 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 the 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. It is capable of predicting both track and intensity changes

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 1975 season are shown in Table 1 (Pelissier, 1975). 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. The landfall prediction error for the official forecasts is given in Table 2. It is 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

A summary of 1975 North Atlantic tropical cyclone statistics is given in Table 3. Tracks of 1975 named storms are shown in Figure 1.

The best track, initial, and forecast positions for 1975 named storms are in Table 4, along with initial position and forecast errors.

Table 5 lists all center fix positions and intensity evaluations used operationally at the National Hurricane Center during 1975. Fixes are in chronological order, and include those obtained by aerial reconnaissance penetrations and radar, satellite (Miami SFSS), and land-based radar

Table 6 is an aerial reconnaissance summary for the 1975 season.

A number of vortex profiles constructed from data obtained by aerial reconnaissance are shown in Figure 2. These profiles show winds, temperatures, dew points, D-values, and weather in the four quadrants of the storms at specified distances from the center out to 80 n.mi. They are produced operationally on the NHC Varian computer. The plotting model along with a diagram of the paths flown in obtaining the vortex profiles is given in Figure 3.

Graphs of the lowest central pressure vs. time for 1975 tropical cyclones are in Figure 4.

Daily SMS-1 satellite photographs of 1975 named tropical cyclones are in Figure 5.

Selected radar photographs of Caroline, Eloise, and Faye are in Figure 6.

ACKNOWLEDGEMENTS

Main contributers were: Ms. Dorothy Mixon and Ms. Wanda Lund, who listed the center fixes in chronological order; Ms. Mary Watson, who did the pressure-time graphs; Ms. Lilias Wilson, who typed the tables and manuscript; Dr. Joseph Pelissier, who computed the verification statistics; the NHC Data Automation Section, which furnished the vortex profiles; and James Eskdale, who composited the satellite and radar photographs.

REFERENCES

Hope, J. R. and C. J. Neumann, 1970: "An Operational Technique for Relating the Movement of Existing Tropical Cyclones to Past Tracks," Monthly Weather Review, Vol. 98, No. 23, pp. 925-933

Hovermale, J.B. 1975: First season storm movement characteristics of the NMC objective hurricane forecast model. Minutes of the NOAA Hurricane Warning Conference, National Hurricane Center, Coral Gables, Florida.

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 Alternate 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.

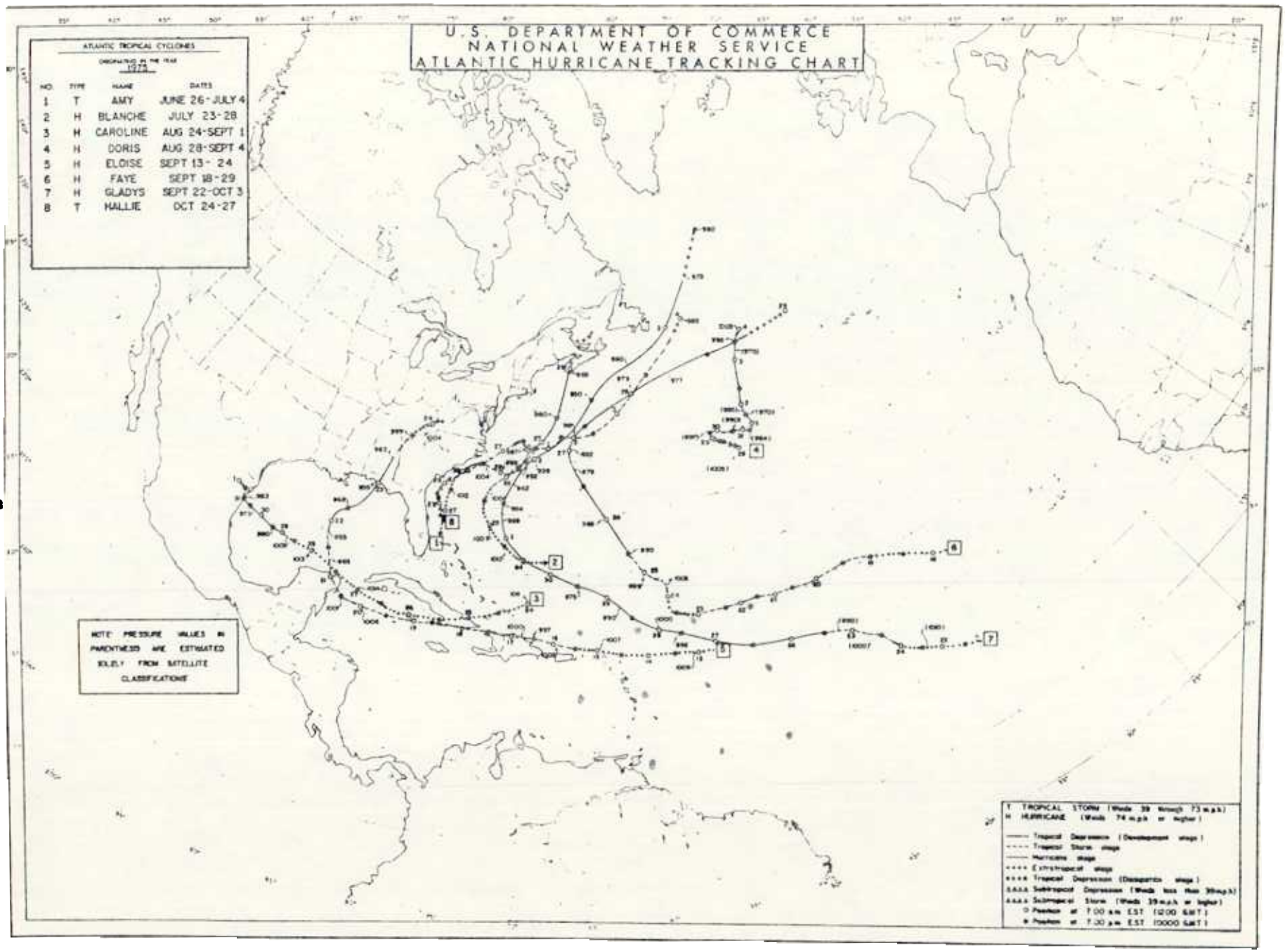
Pike, A. C., 1972: "Improved Barotropic Hurricane Track Prediction by Adjustment of the Initital Wind Field", NOAA Technical Memorandum NWS SR-66, 16 pp.

Sanders, F., and R. W. Burpee, 1968: "Experiments in Barotropic Hurricane Track Forecasting", Journal of Applied Meteorology, Vol. 7, No. 3 pp, 313-323.

Pelissier, J. M., 1975: Minutes of the NOAA Hurricane Warning Conference, National Hurricane Center, Coral Gables, Florida.

LIST OF FIGURES AND TABLES

U.S. DEPARTMENT OF COMMERCE
NATIONAL WEATHER SERVICE
ATLANTIC HURRICANE TRACKING CHART



ATLANTIC TROPICAL CYCLONES

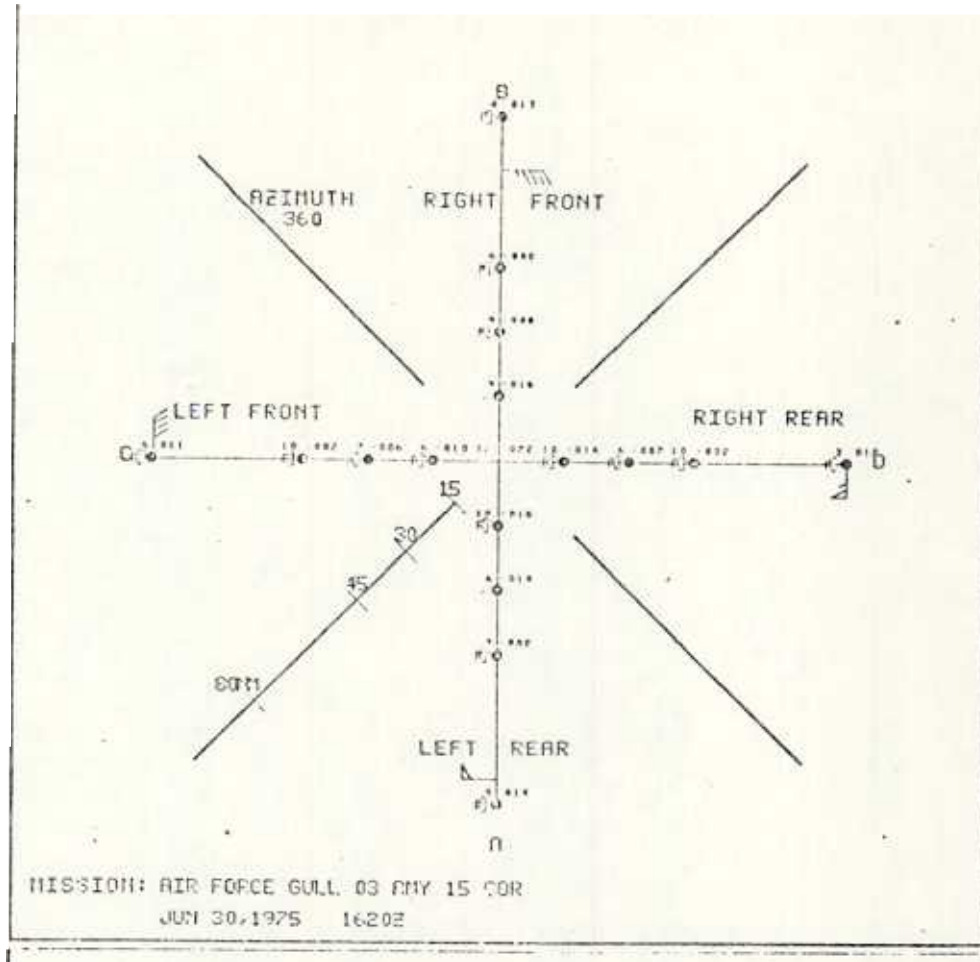
ORIGINATING IN THE YEAR 1979

NO.	TYPE	NAME	DATES
1	T	AMY	JUNE 26 - JULY 4
2	H	BLANCHE	JULY 23 - 28
3	H	CAROLINE	AUG 24 - SEPT 1
4	H	DORIS	AUG 28 - SEPT 4
5	H	ELOISE	SEPT 13 - 24
6	H	FAYE	SEPT 18 - 29
7	H	GLADYS	SEPT 22 - OCT 3
8	T	HALLIE	OCT 24 - 27

NOTE: PRESSURE VALUES IN PARENTHESIS ARE ESTIMATED SOLELY FROM SATELLITE CLASSIFICATIONS

T TROPICAL STORM (Winds 39 through 73 m.p.h.)
H HURRICANE (Winds 74 m.p.h. or higher)

——— Tropical Depression (Developmental stage)
- - - - Tropical Storm stage
——— Hurricane stage
- · - · Extratropical stage
· · · · Tropical Depression (Dissipating stage)
A A A A Subtropical Depression (Winds less than 39 m.p.h.)
A A A A Subtropical Storm (Winds 39 m.p.h. or higher)
○ Position at 7:00 a.m. EST (1200 GMT)
● Position at 7:30 p.m. EST (0000 GMT)



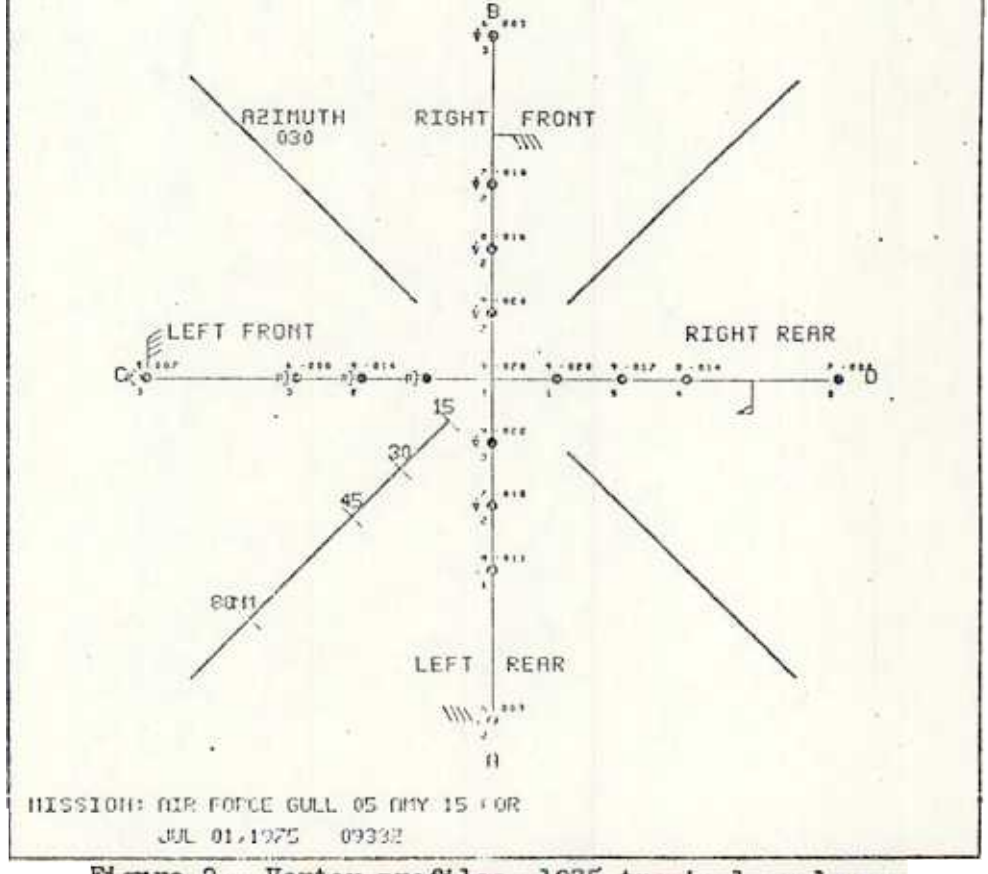
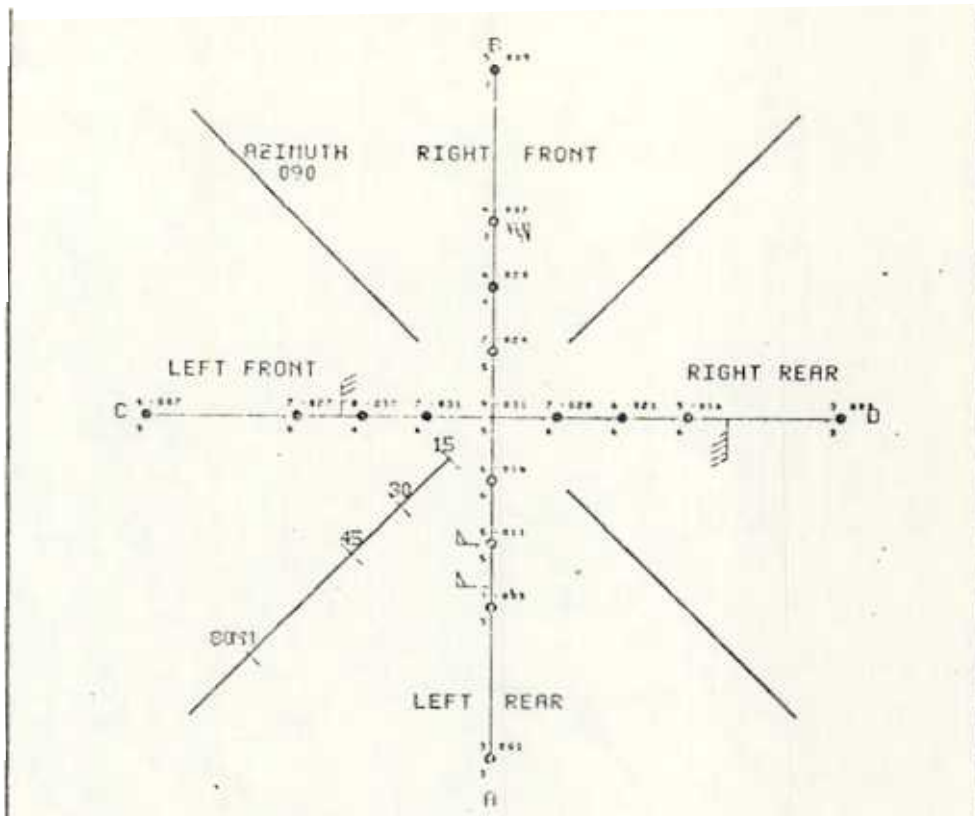


Figure 2. Vortex profiles, 1975 tropical cyclones.



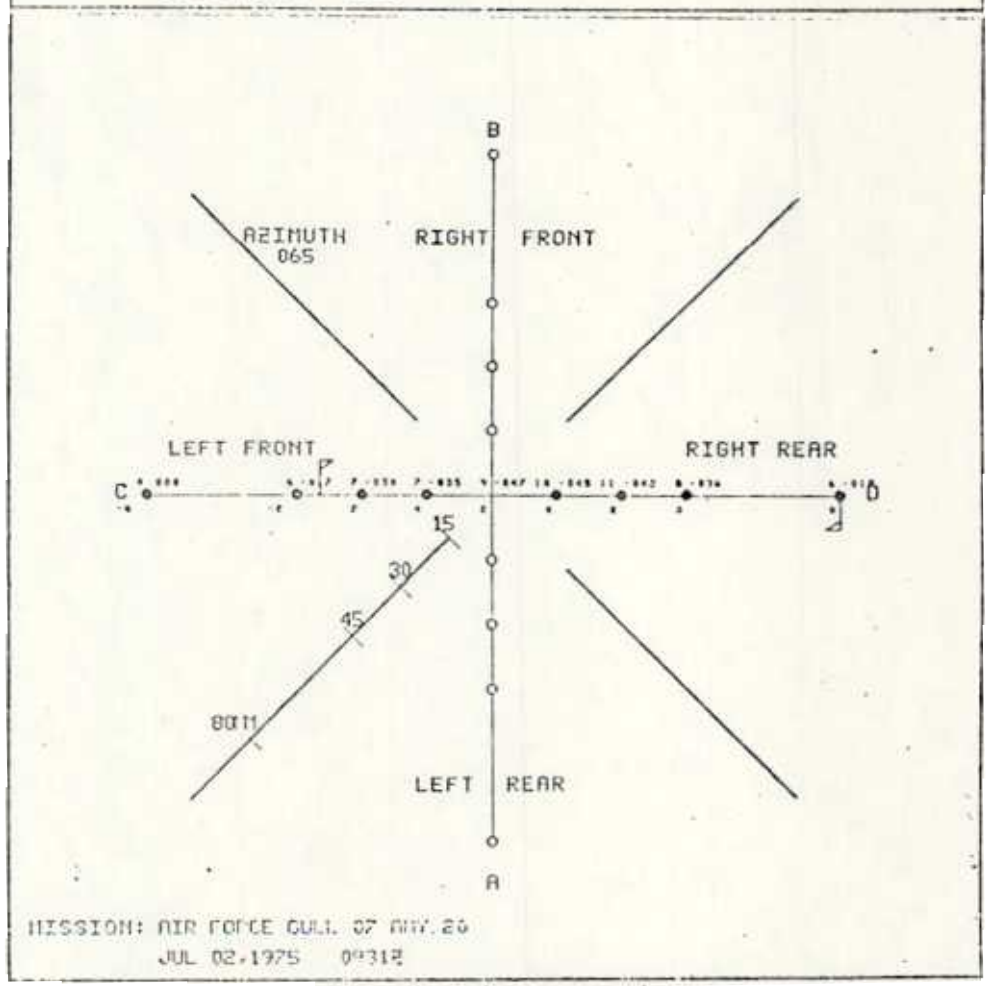
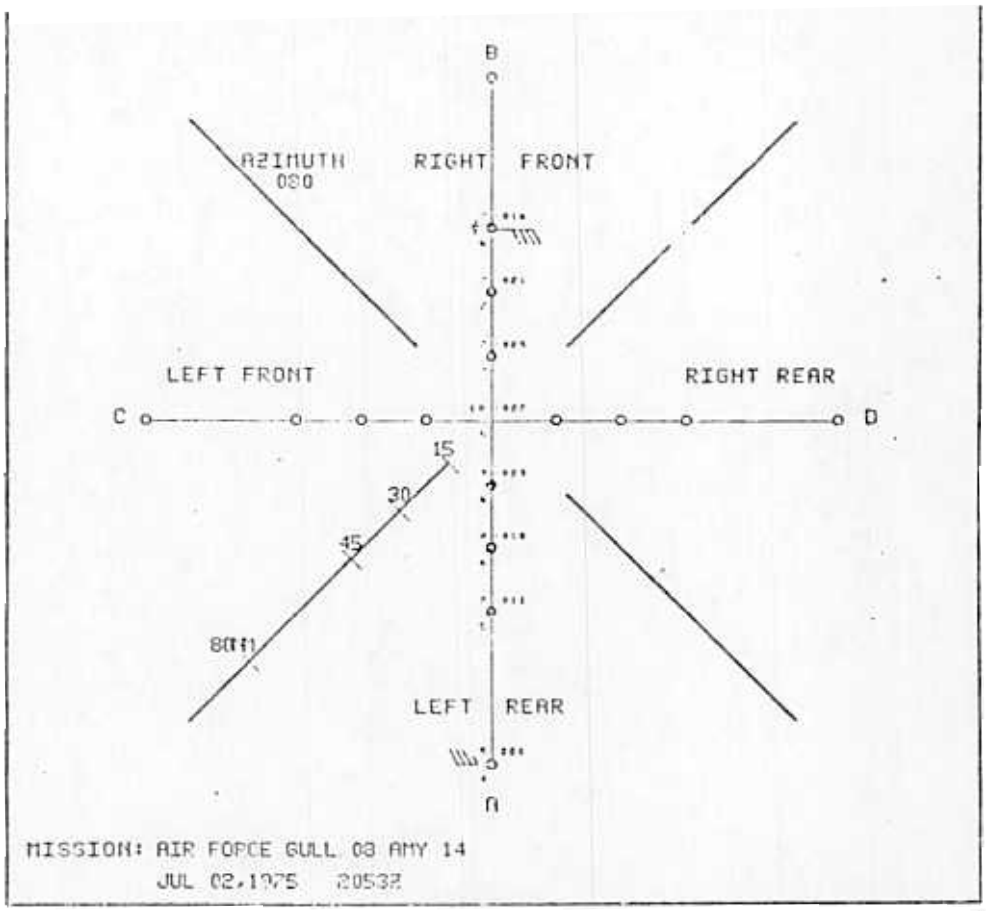


Figure 2. (continued)



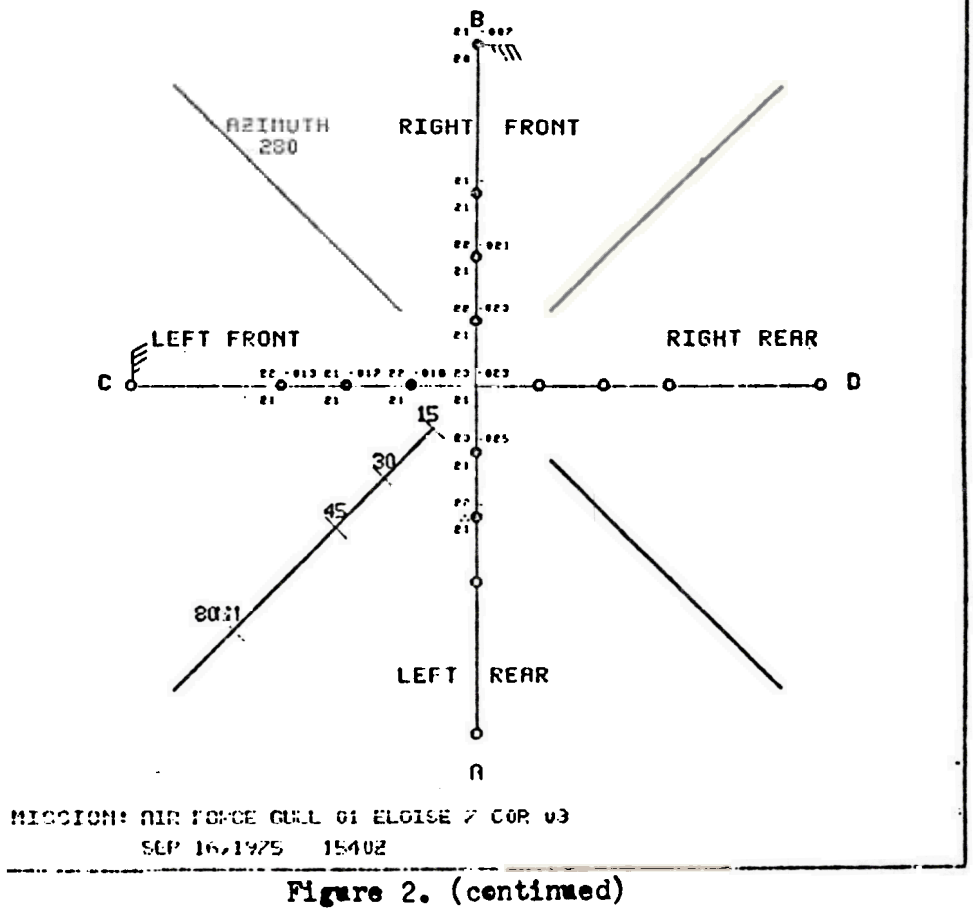
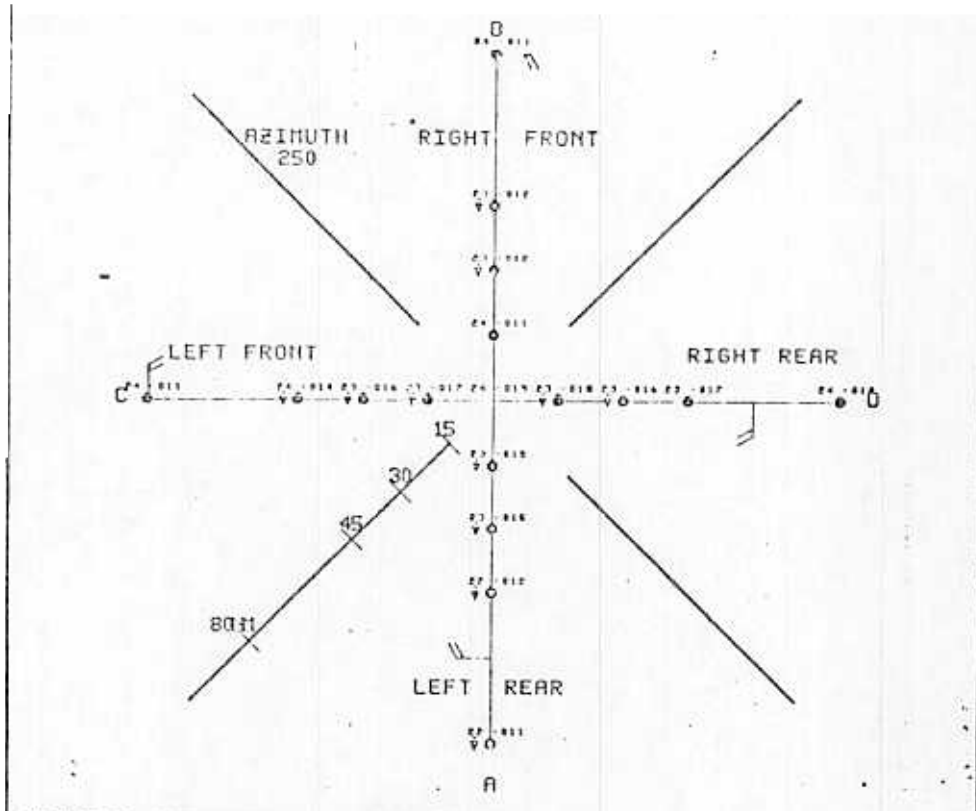


Figure 2. (continued)



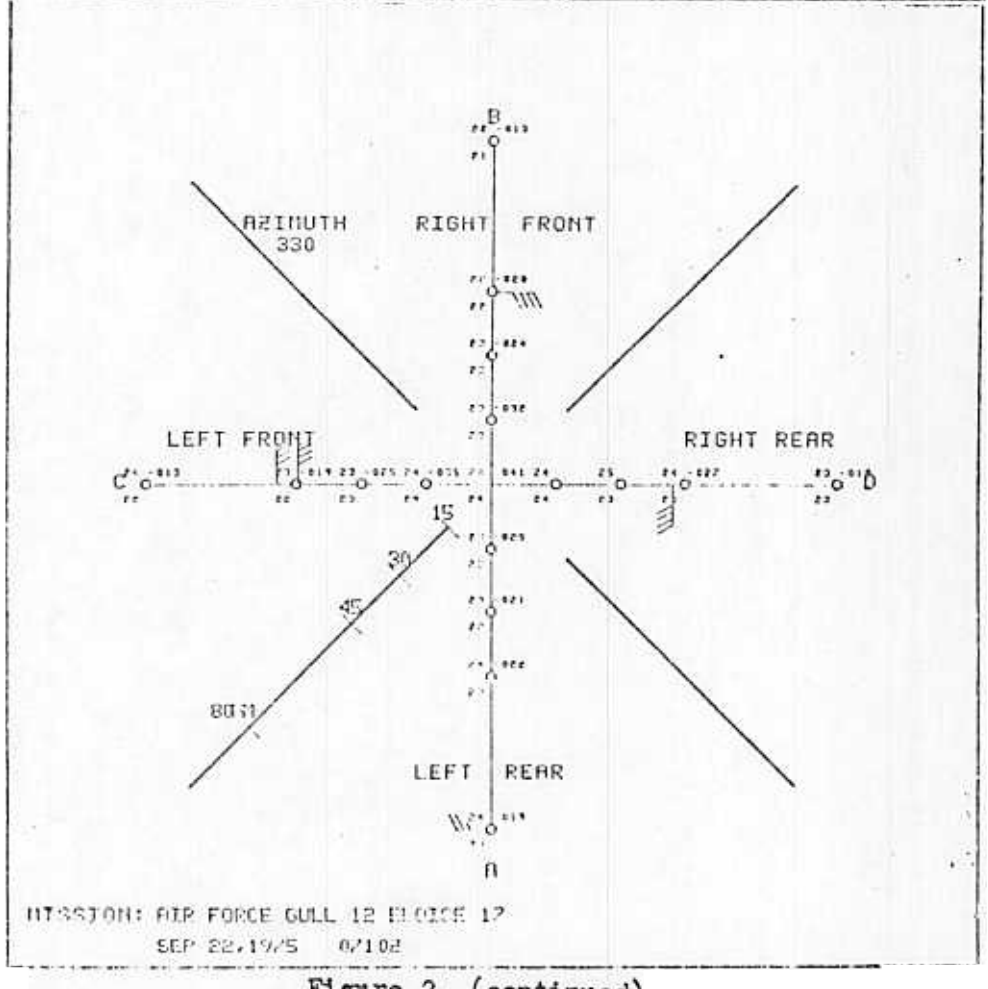
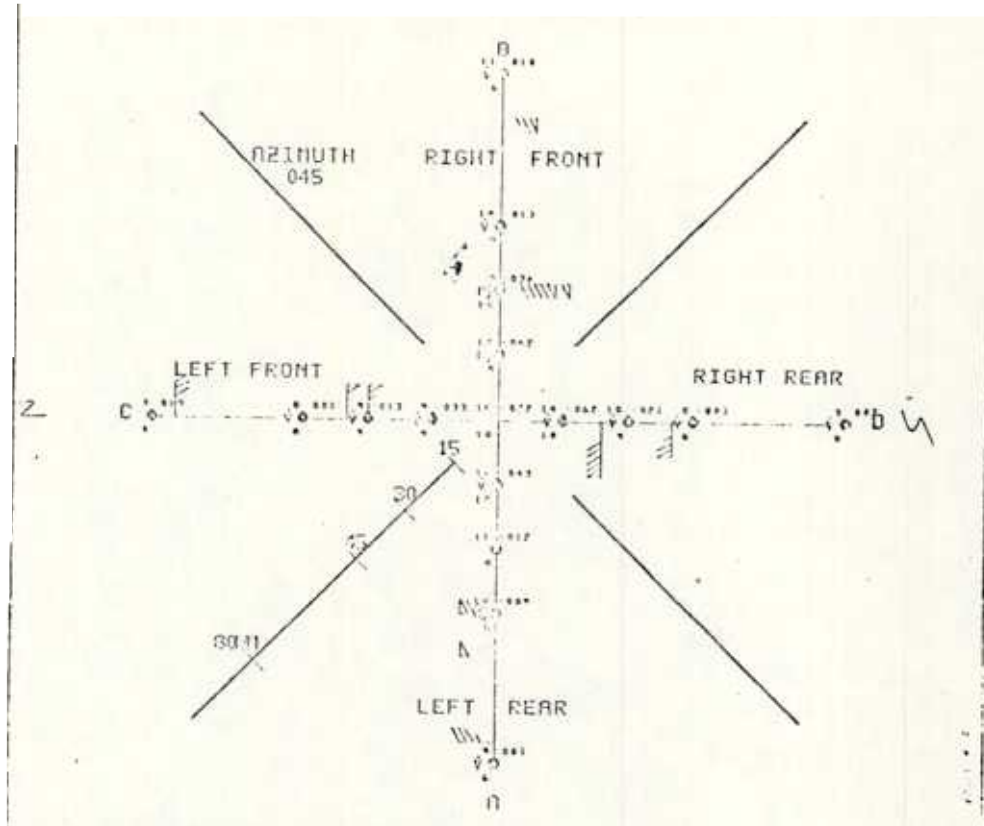


Figure 2. (continued)



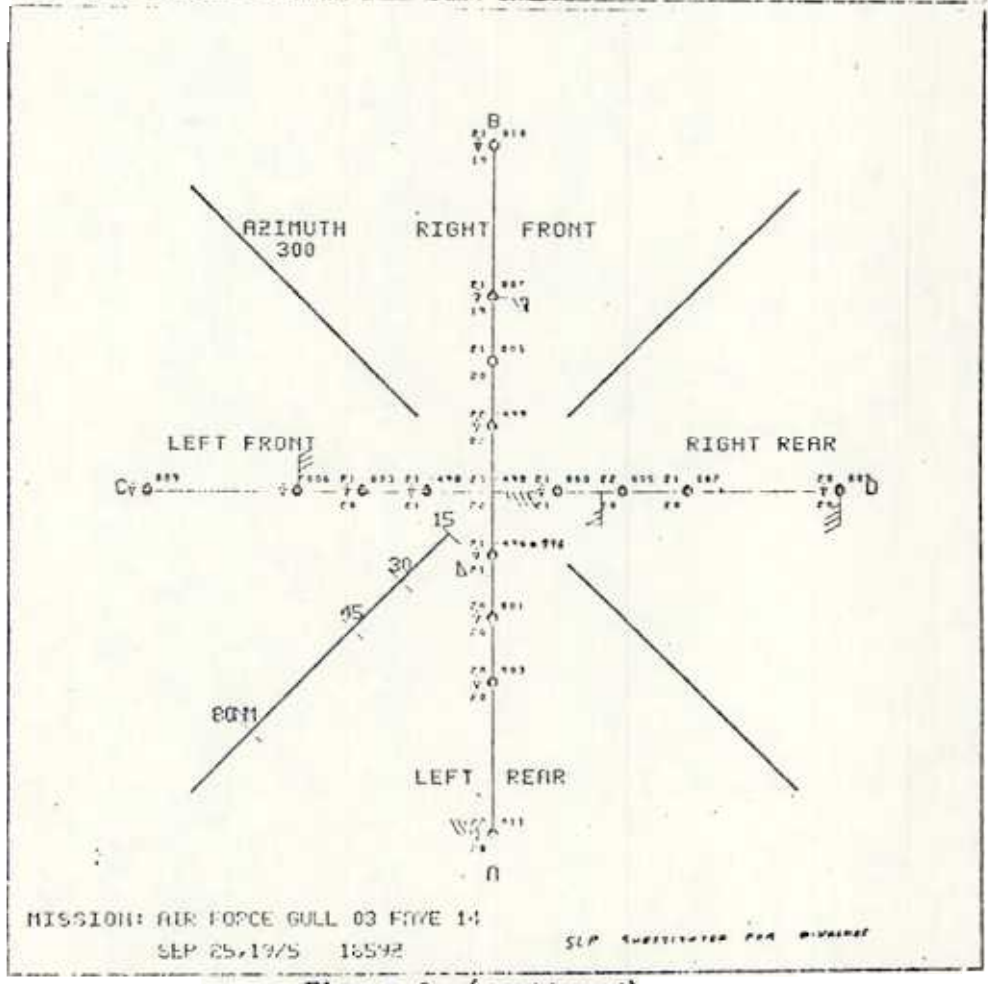
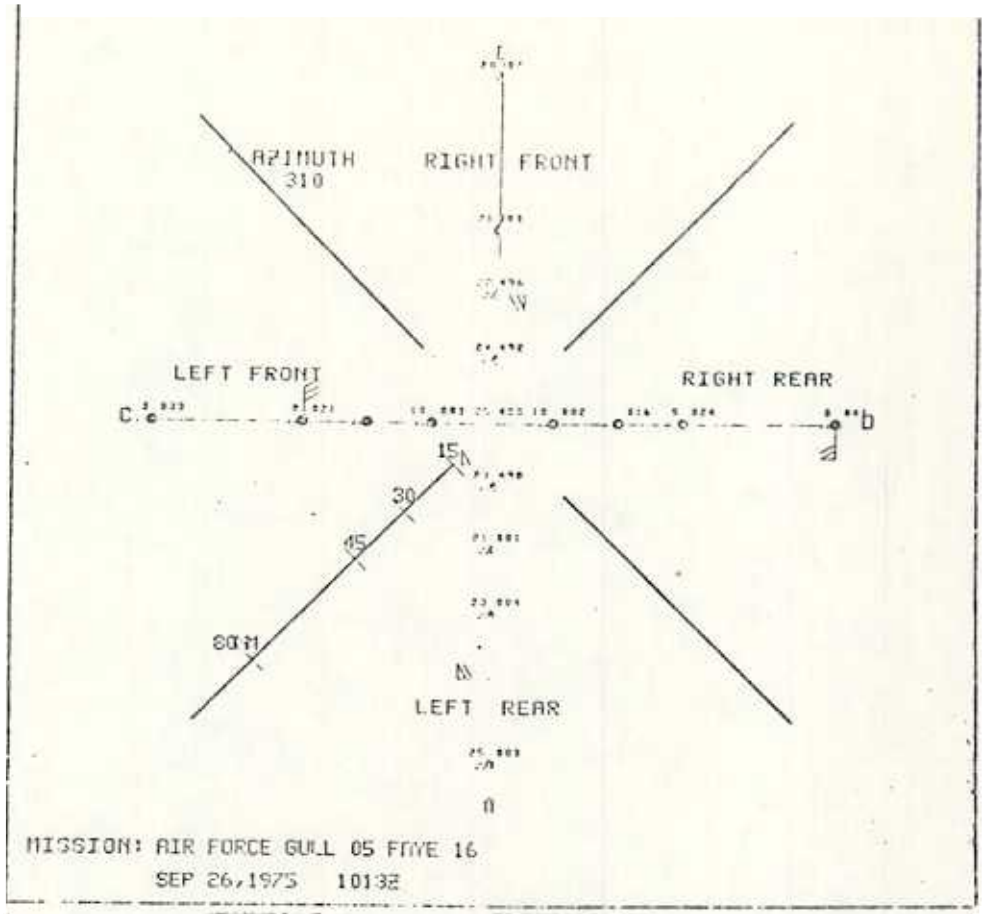


Figure 2. (continued)



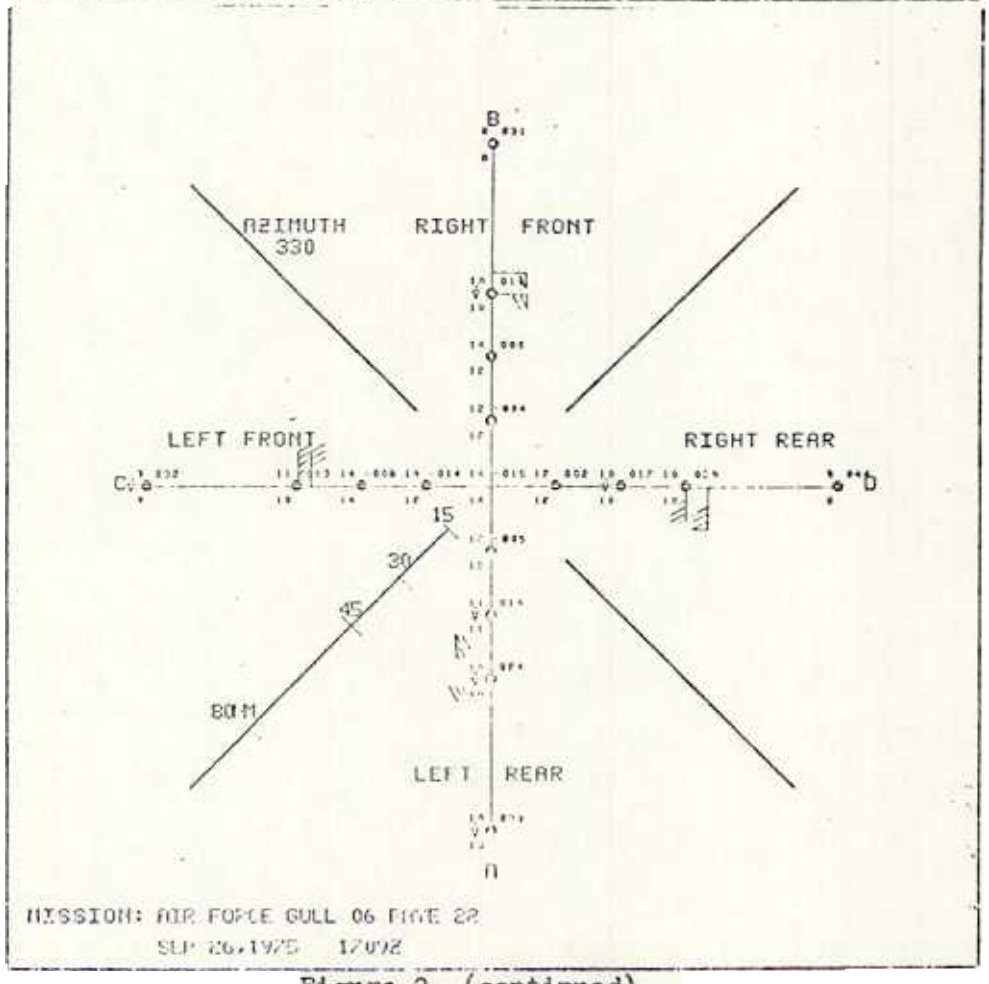
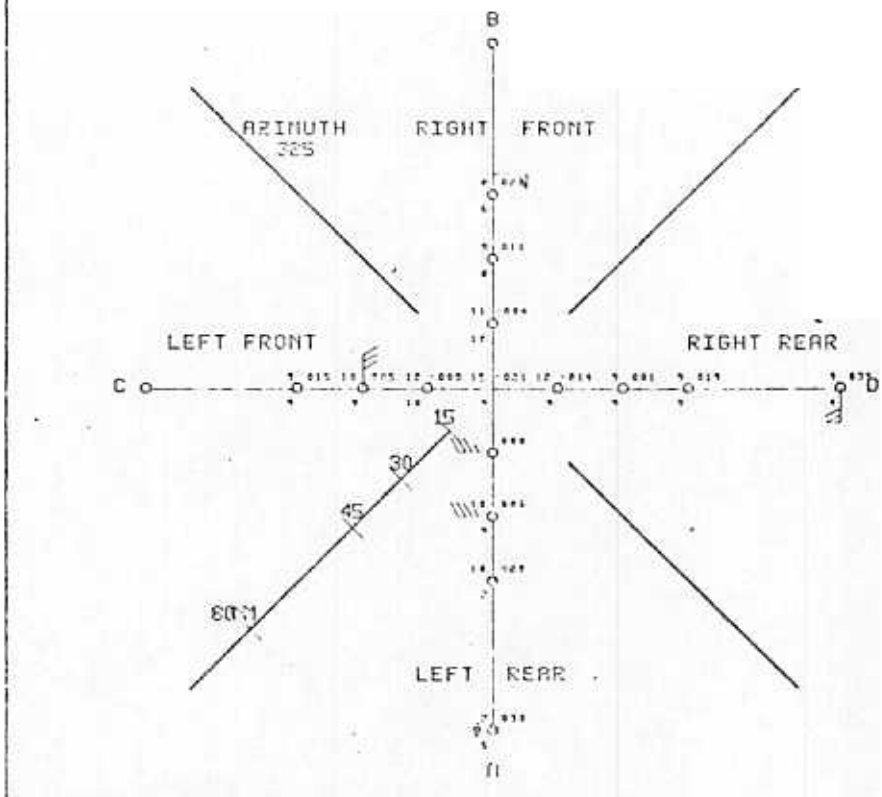
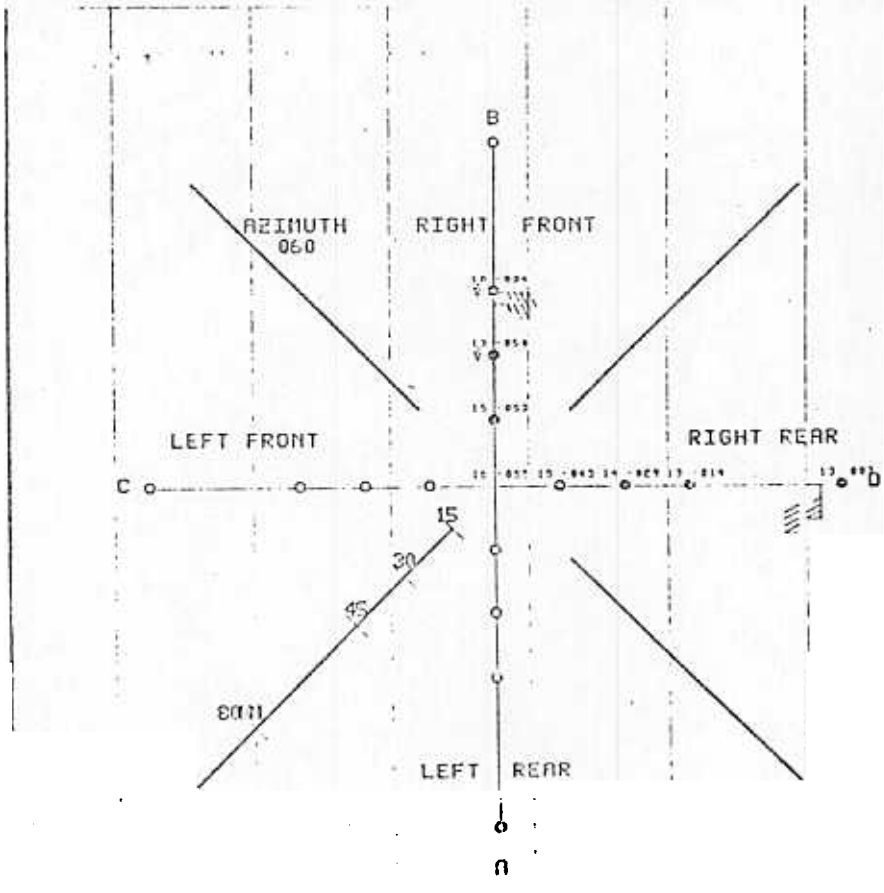


Figure 2. (continued)

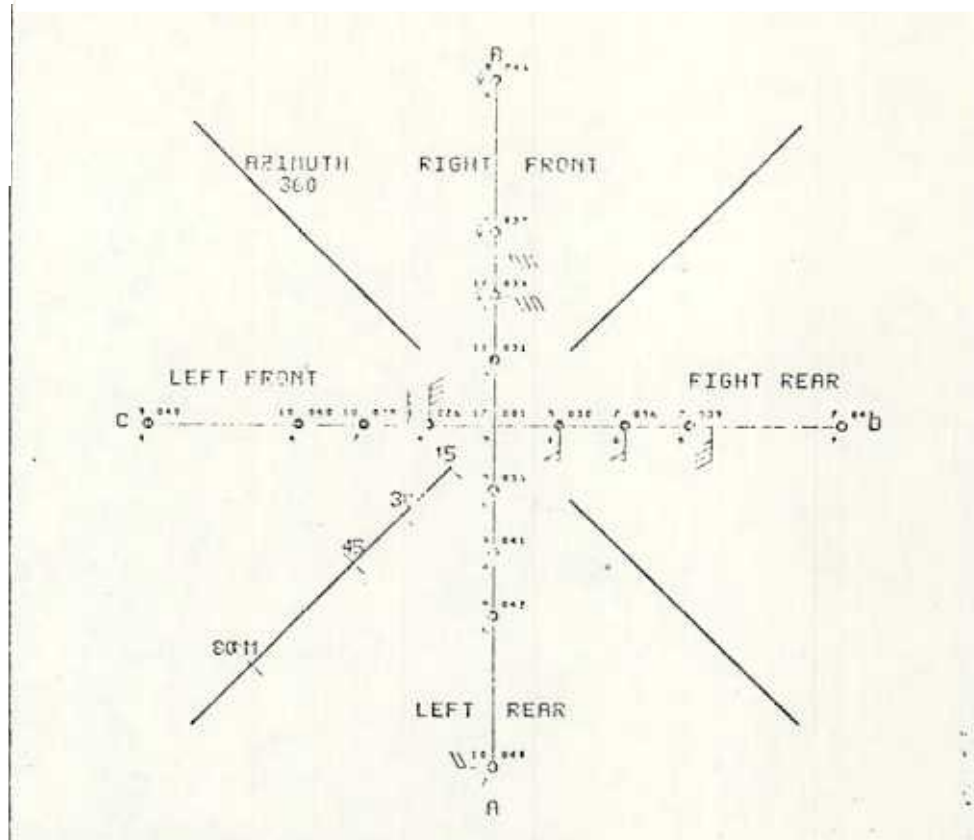


MISSION: AIR FORCE GULL 08 FAYE 18
SEP 27,1975 07012



MISSION: AIR FORCE GULL 12 FAYE 18
SEP 28,1975 18302

Figure 2. (continued)



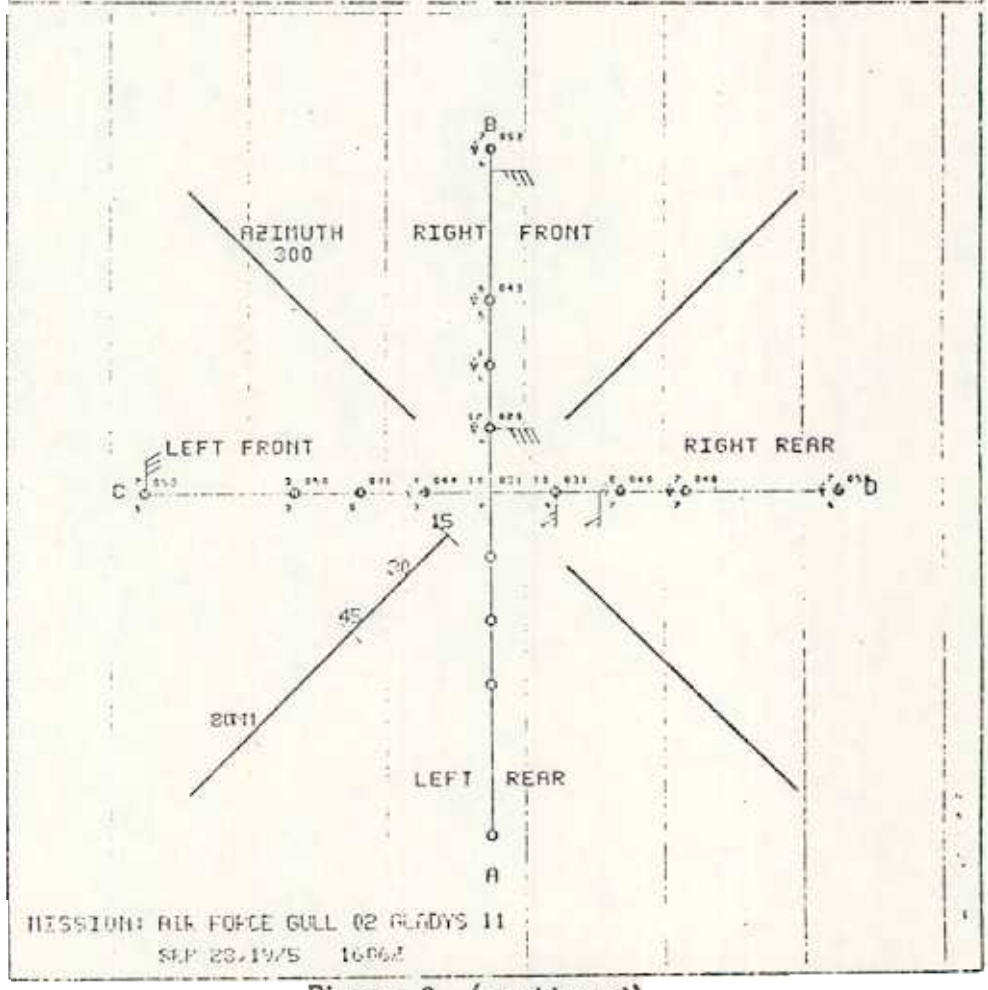
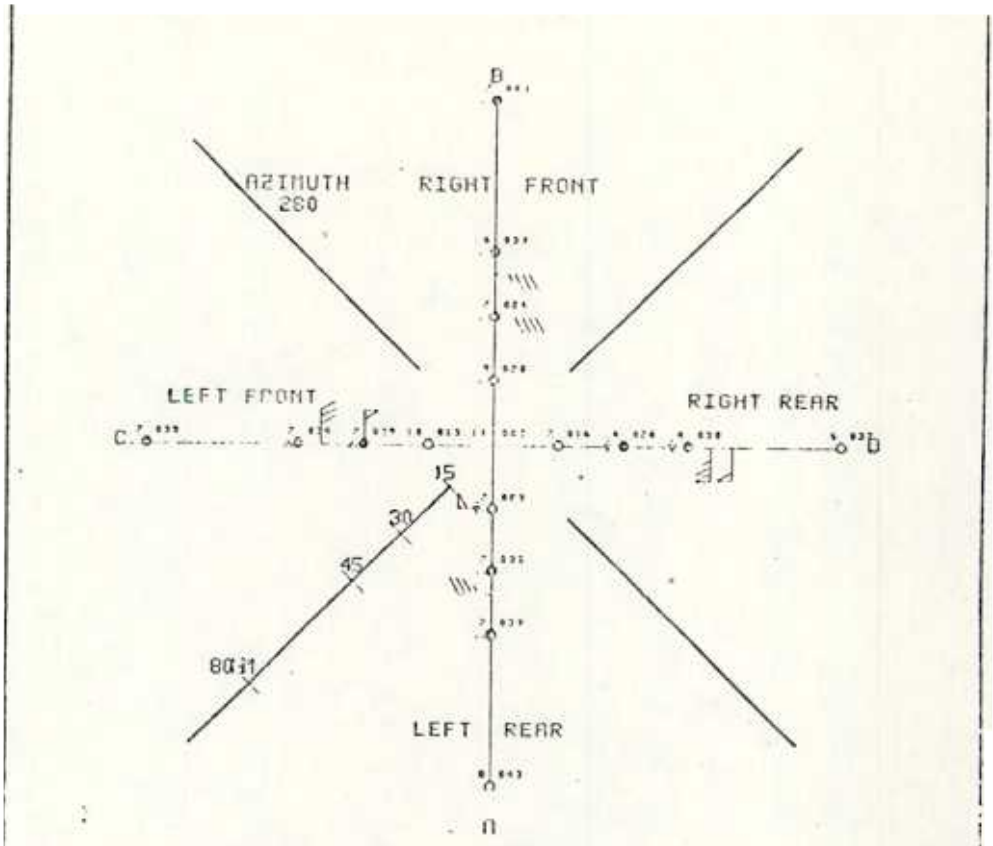


Figure 2. (continued)



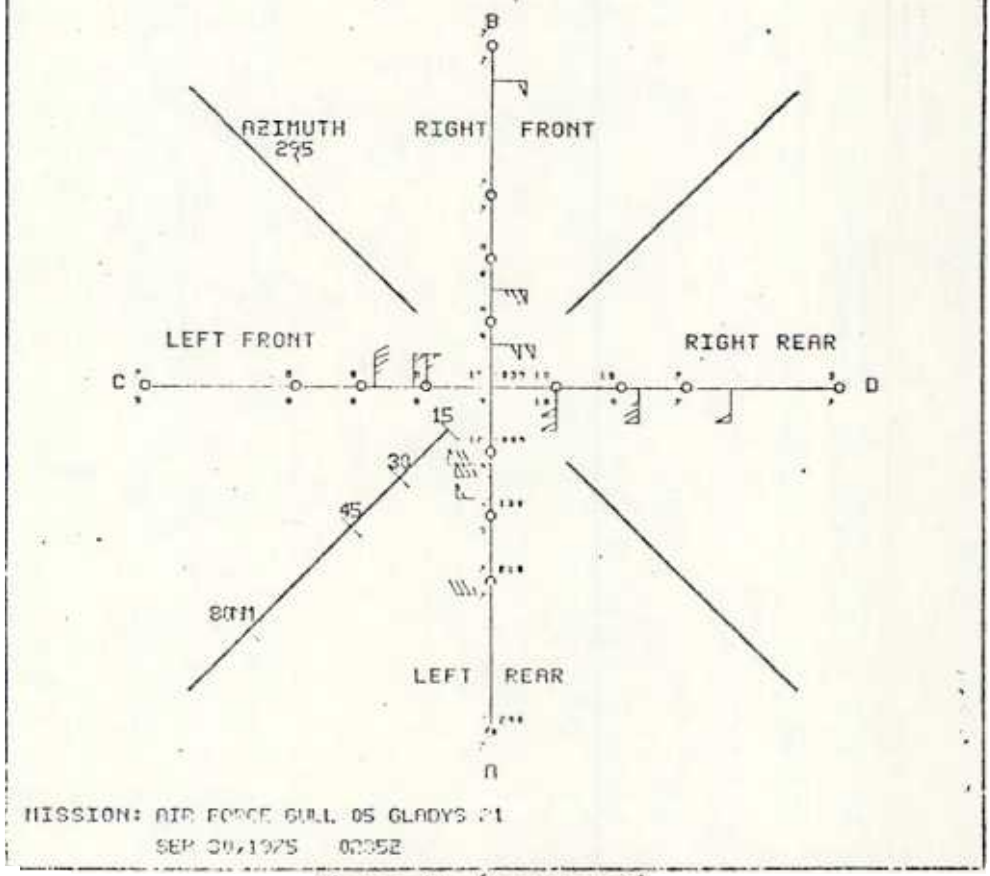
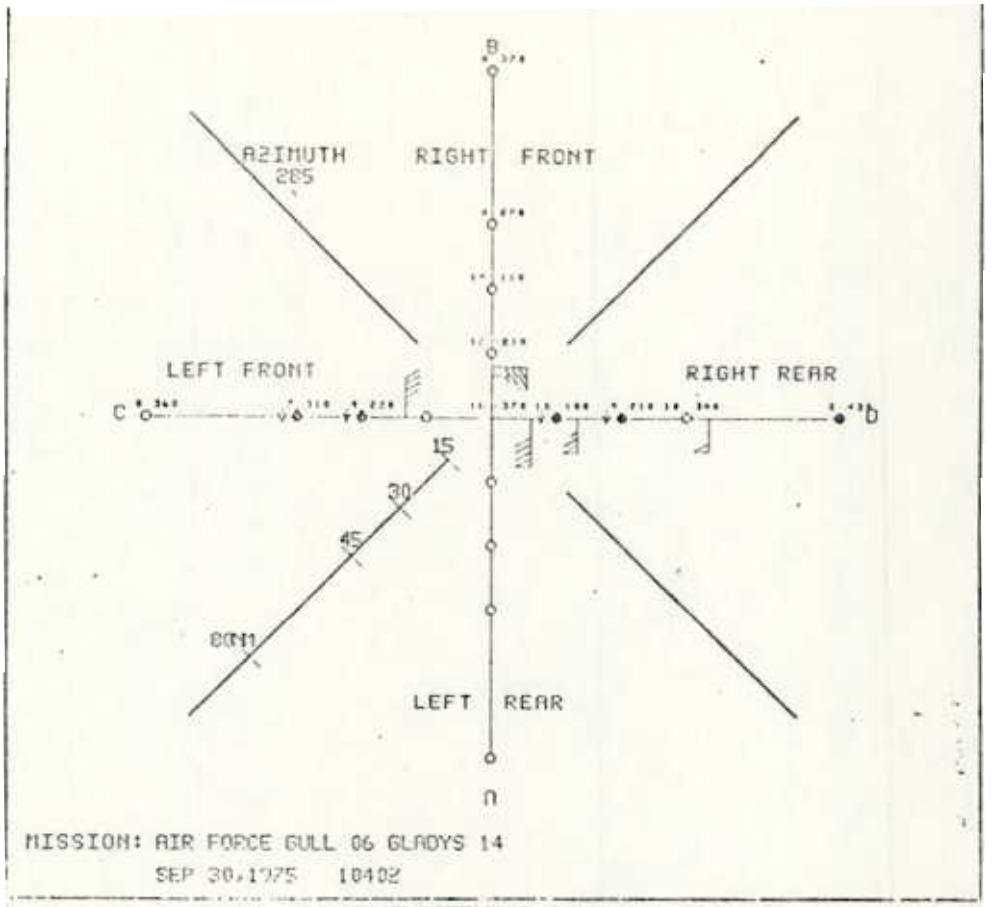
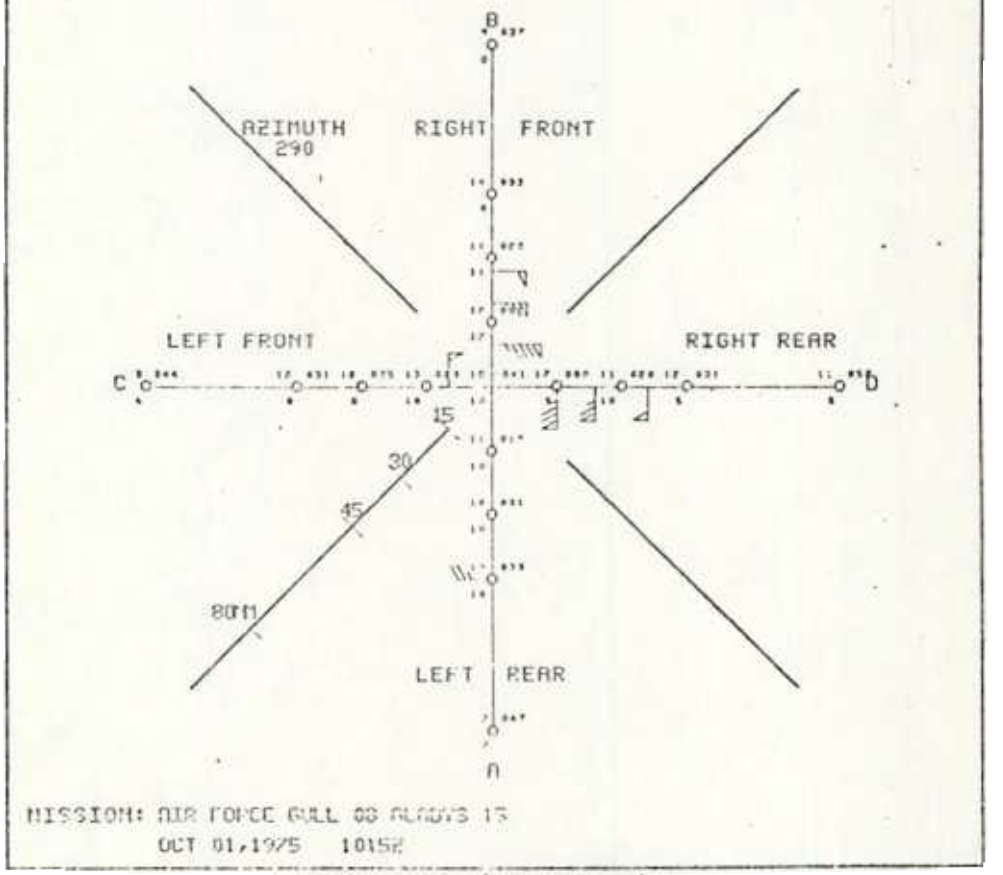


Figure 2. (continued)



MISSION: AIR FORCE GULL 06 GLADYS 14
SEP 30,1975 10402



MISSION: AIR FORCE GULL 08 GLADYS 15
OCT 01,1975 10152

Figure 2. (continued)

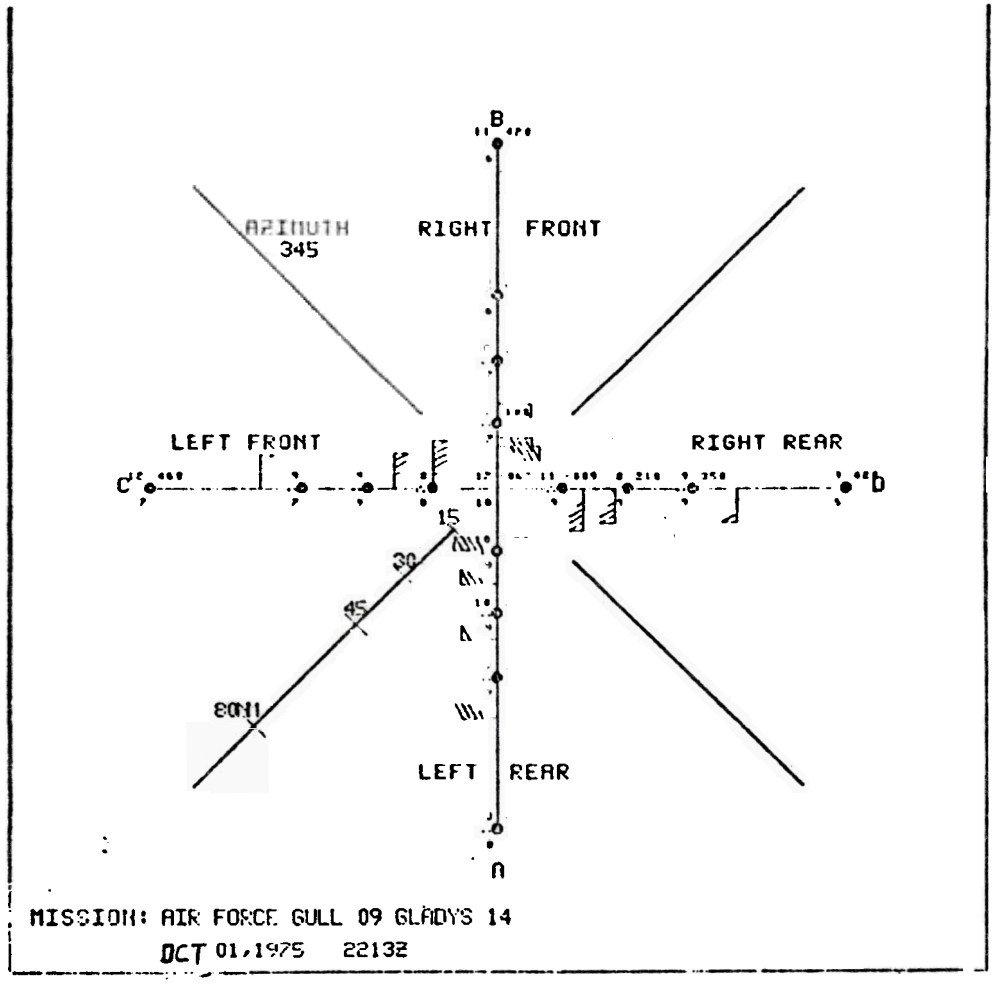
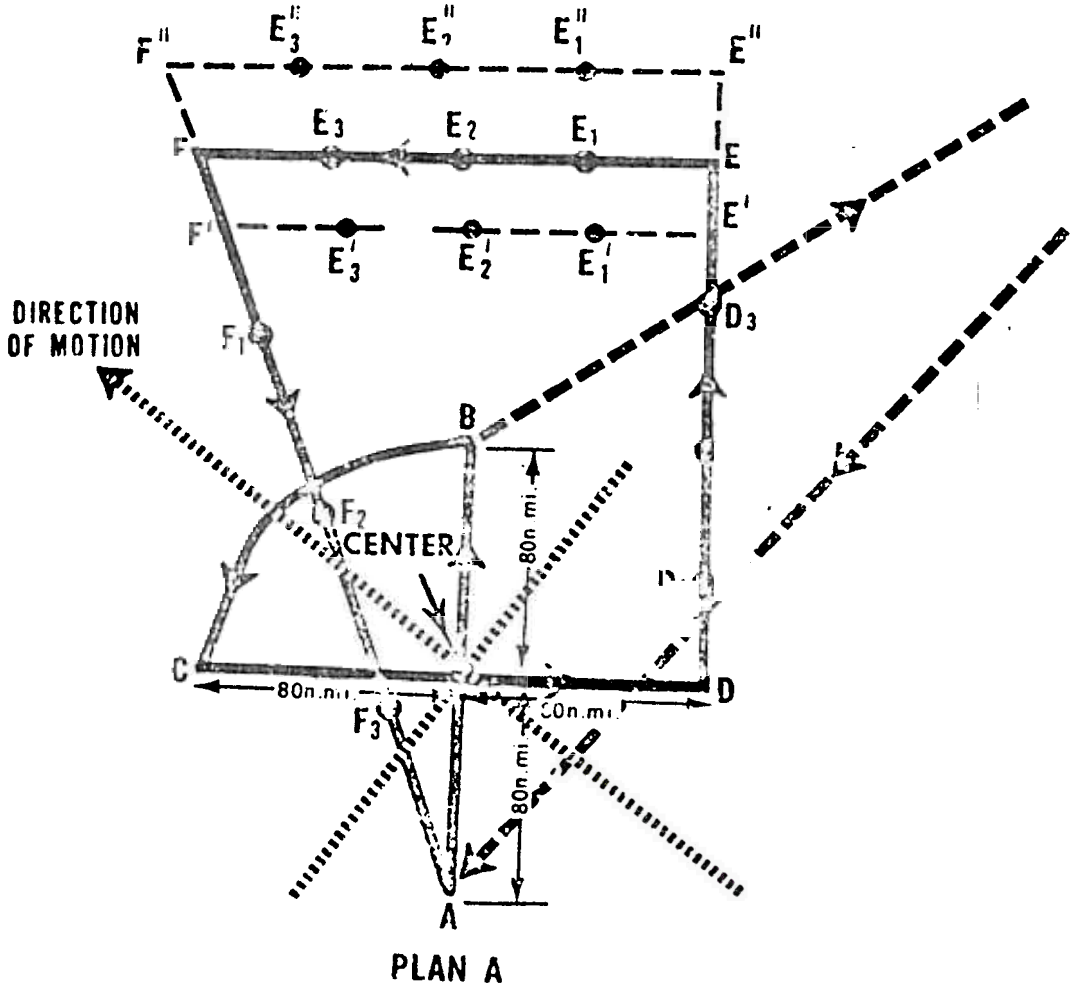
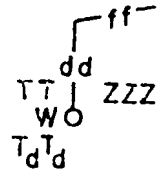


Figure 2. (concluded)

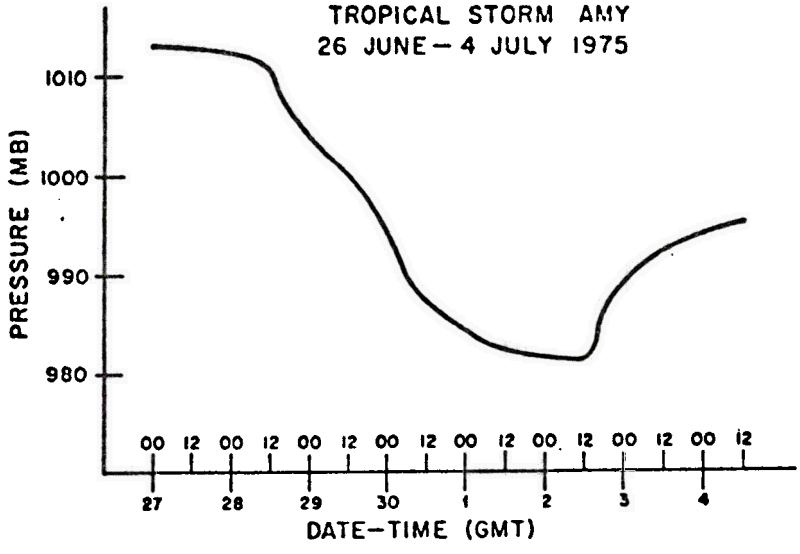


FLIGHT ALTITUDES
A B C D -- 10,000 FEET
D E F A -- 1,500 FEET



ZZZ	"D" VALUE (TENS OF FEET)
TT	TEMPERATURE
T_dT_d	DEW POINT
W	PRESENT WEATHER
dd	WIND DIRECTION
ff	WIND SPEED

Figure 3. Data plotting model (bottom) and flight pattern flown (top) in obtaining vortex profiles.



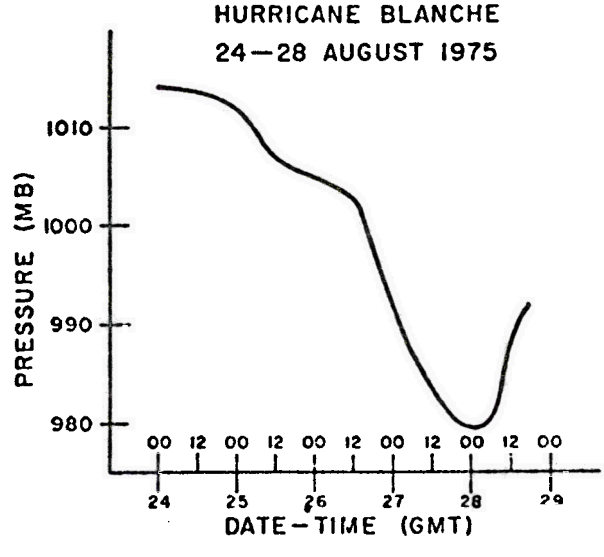
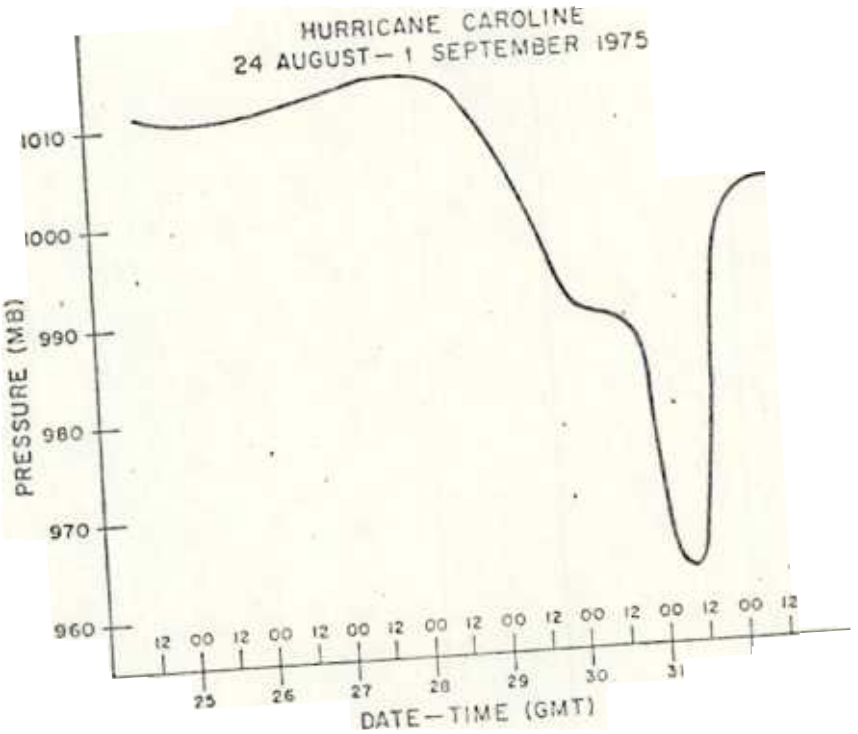


Figure 4. Lowest pressure vs. time, 1975 tropical cyclones.



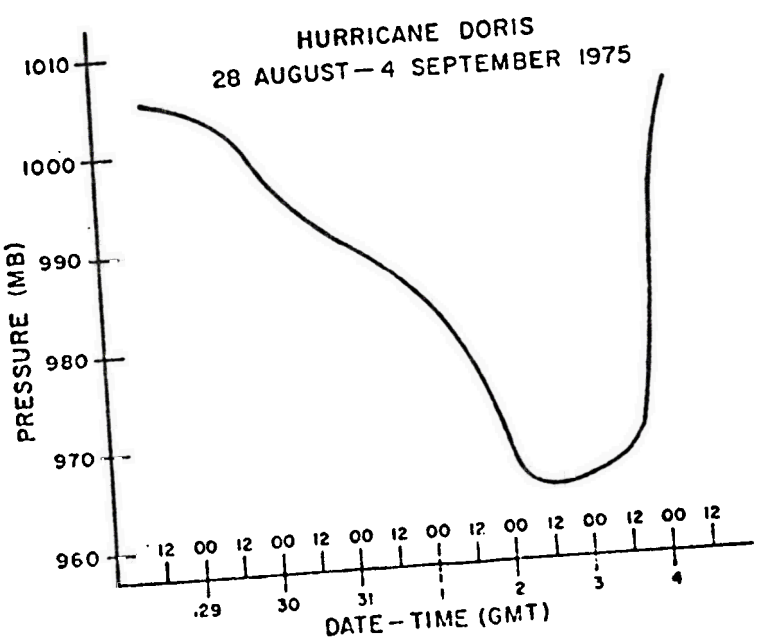
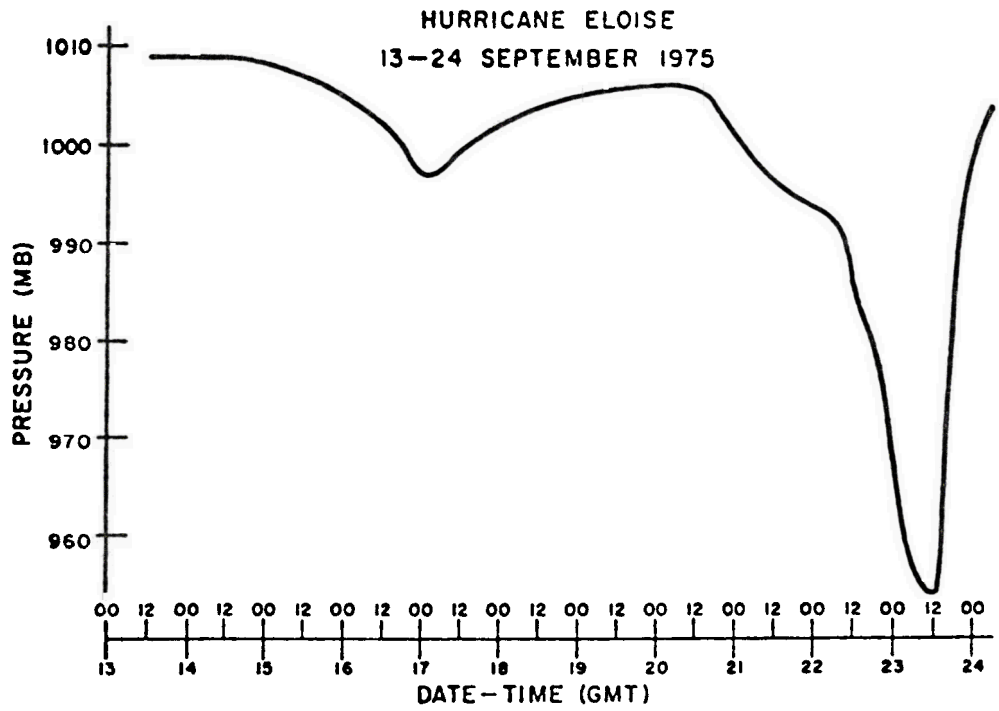


Figure 4. (continued)



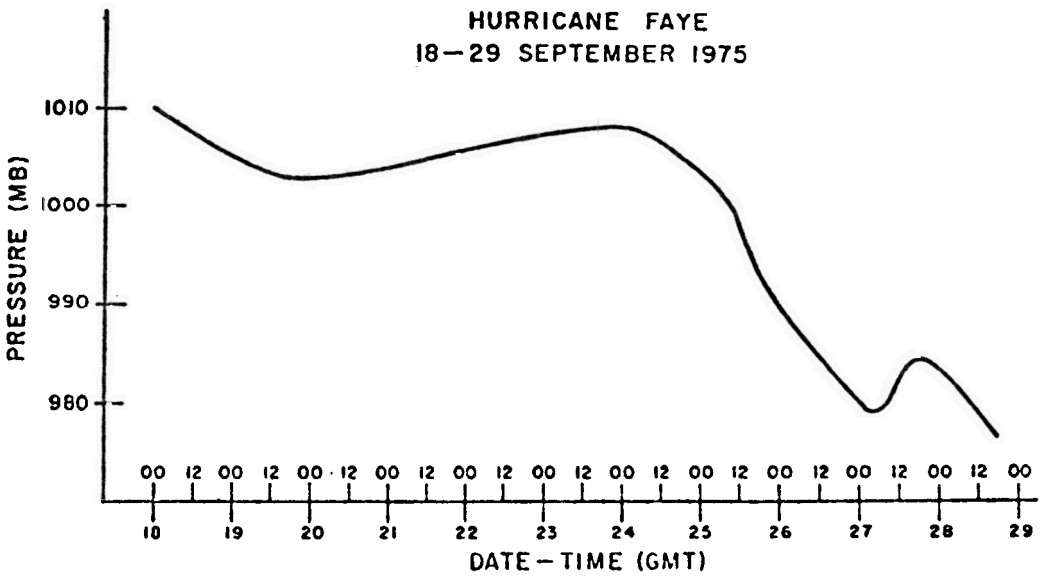
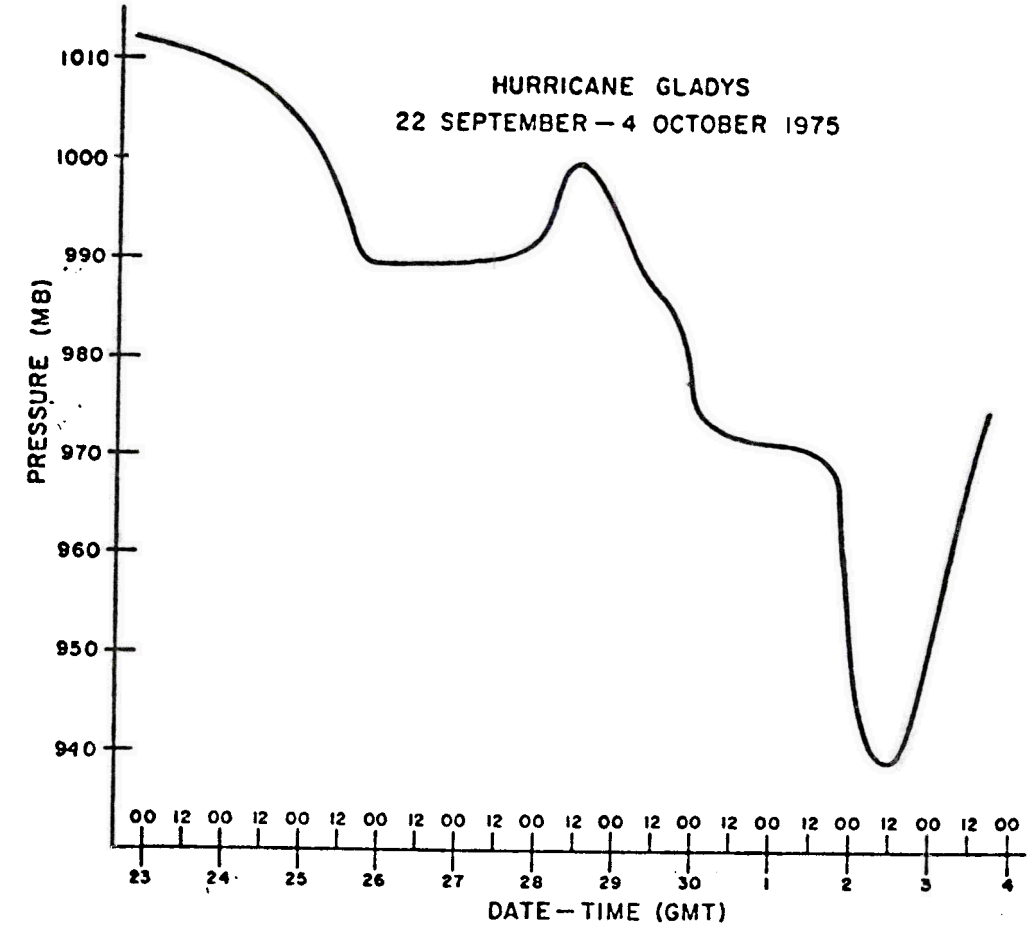


Figure 4. (continued)



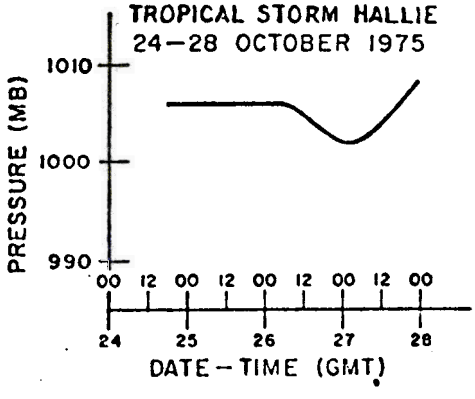
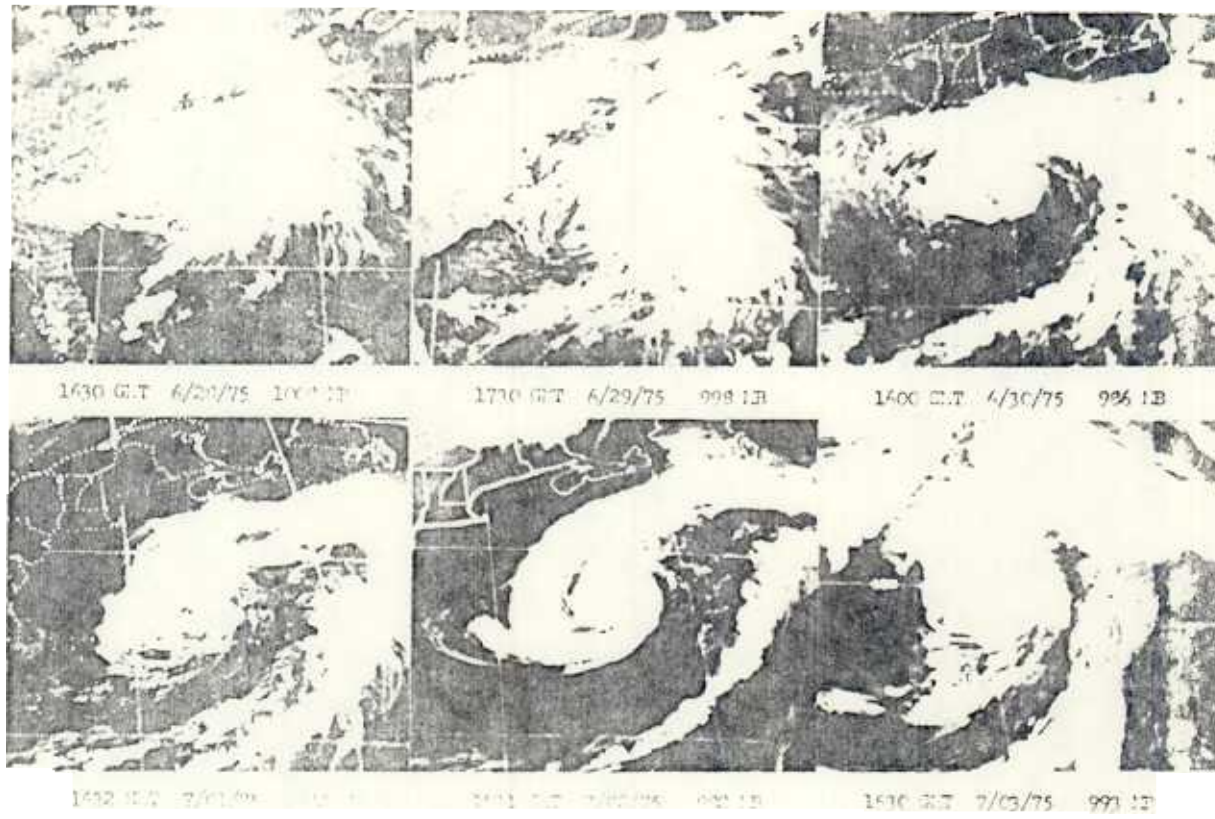


Figure 4. (continued)

AMY



BLANCHE

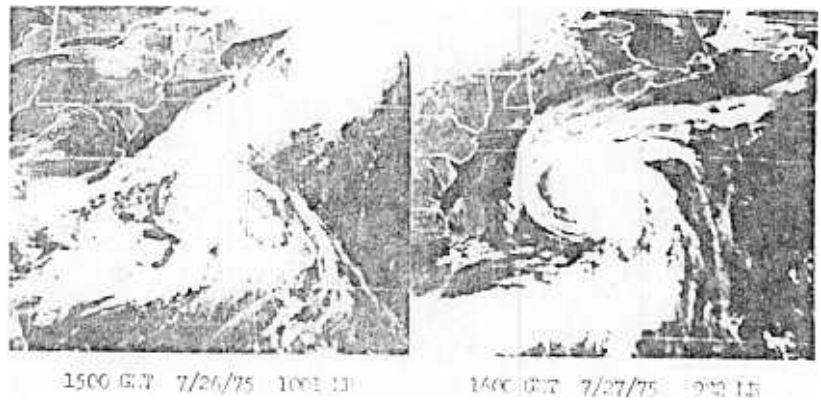


Figure 5. Daily satellite photographs of 1975 tropical storms and hurricanes.

CAROLINE

1530 8/28/75 1530 GMT 8/29/75

1500 GMT 8/30/75

Figure (continued

1530 GMT 8/28/75 1530 GMT 8/29/75 1500 GMT 8/30/75 IR1430 8/31/75

9/01/75 9/03/75

ELOISE

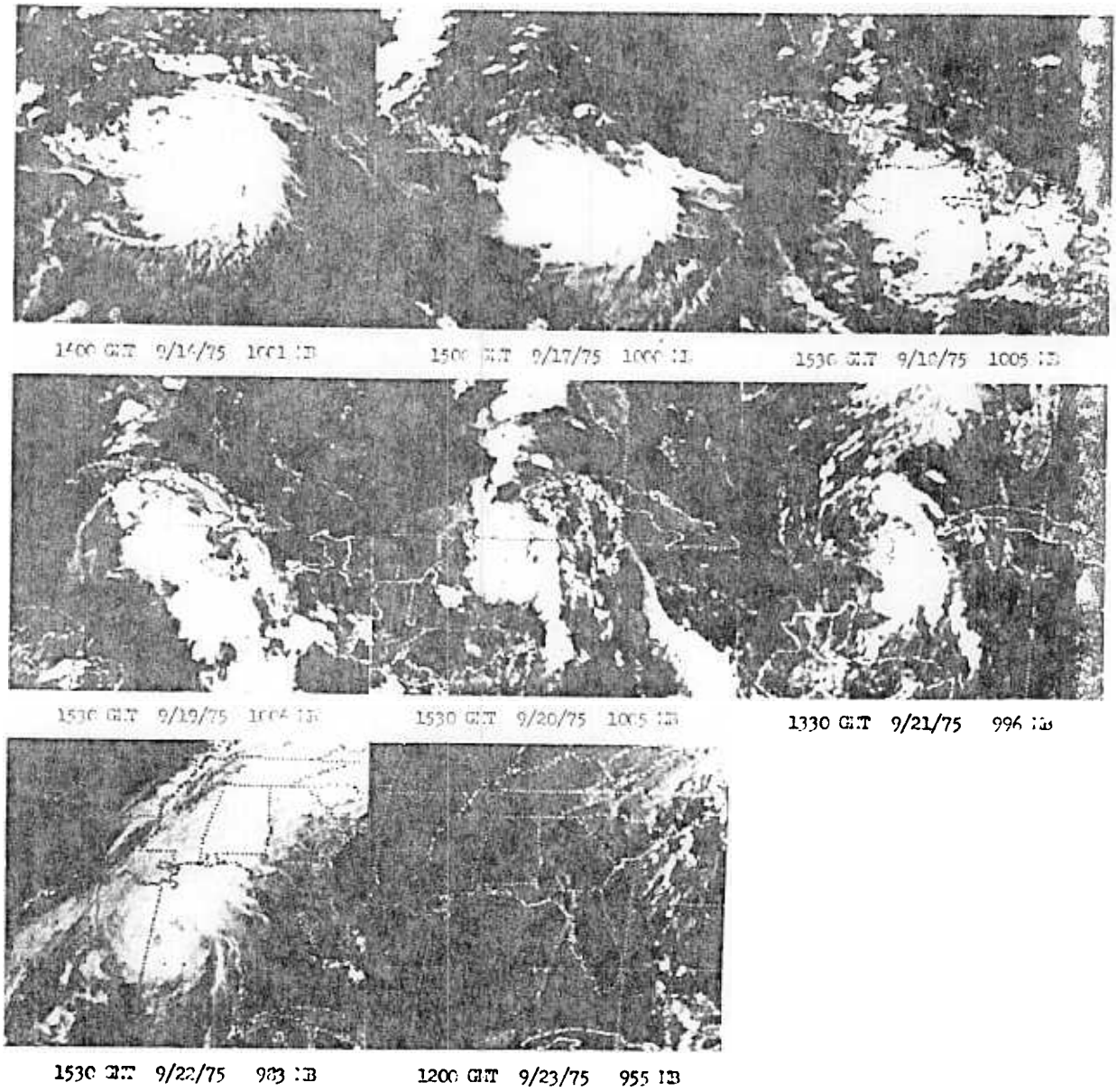
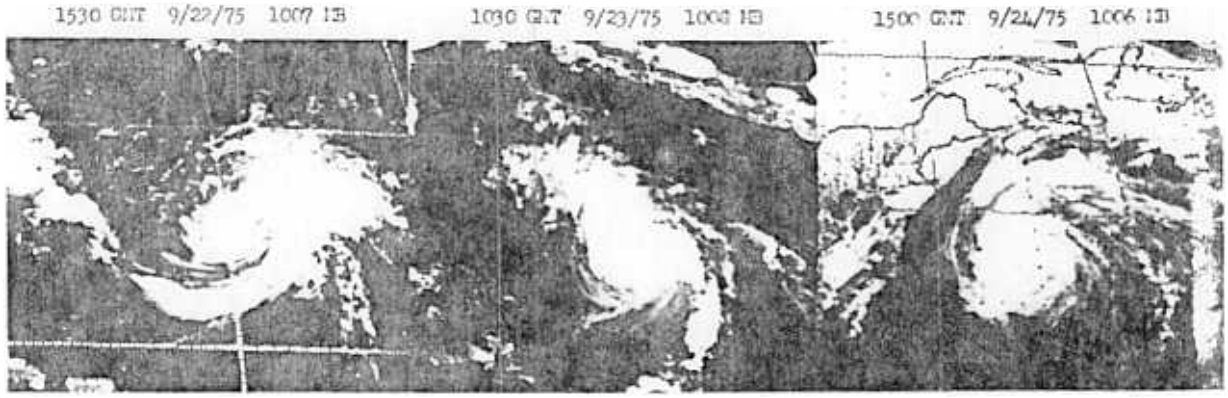


Figure 5. (continued)

1530 GMT 9/19/75 1003 MB 1530 GMT 9/20/75 1003 MB 1330 GMT 9/21/75 1005 MB

1530 GMT 9/22/75 1007 MB 1030 GMT 9/23/75 1004 MB 1500 GMT 9/24/75 1006 MB

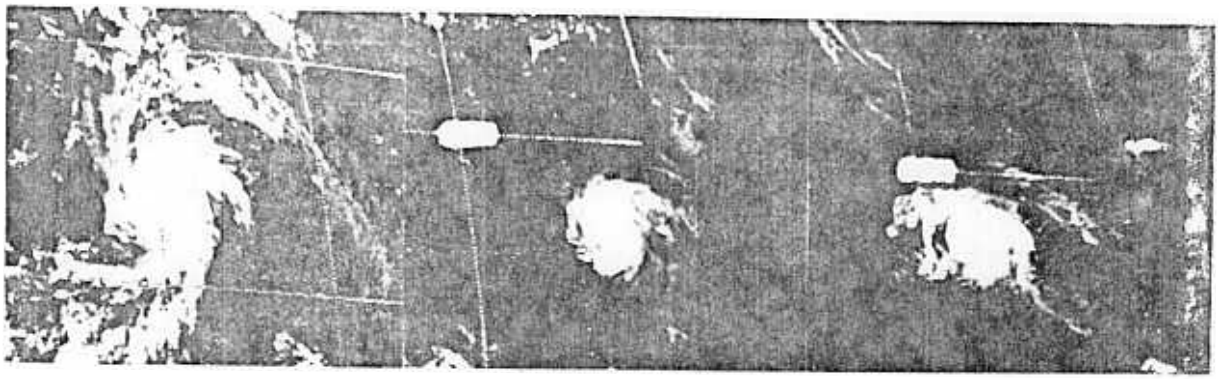
FAYE



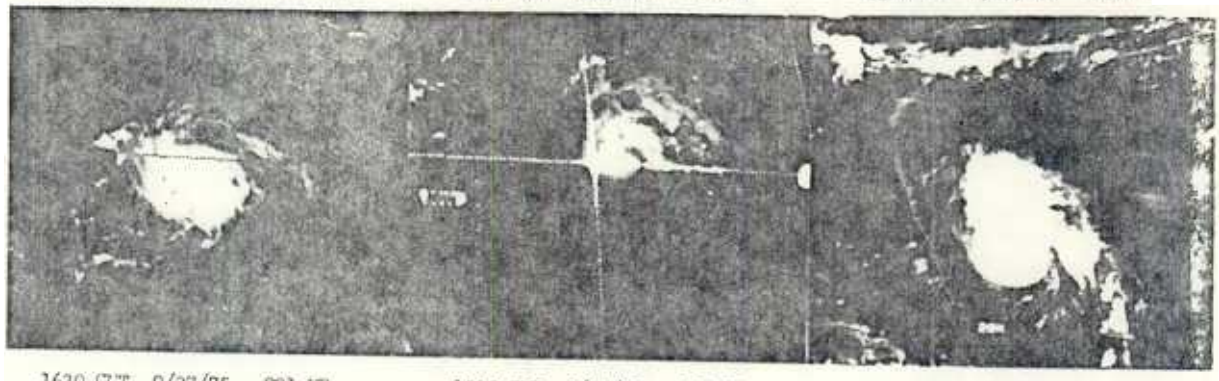
1530 GMT 9/25/75 995 MB 1330 GMT 9/26/75 985 MB 1630 GMT 9/27/75 984 MB

1530 GMT 9/28/75 978 MB

Figure 5. (continued)



1500 GMT 9/24/75 1004 MB 1530 GMT 9/25/75 992 MB 1330 GMT 9/26/75 990 MB



GLADYS

1630 GMT 9/27/75 991 MB 1530 GMT 9/28/75 999 MB 1600 GMT 9/29/75 996 MB

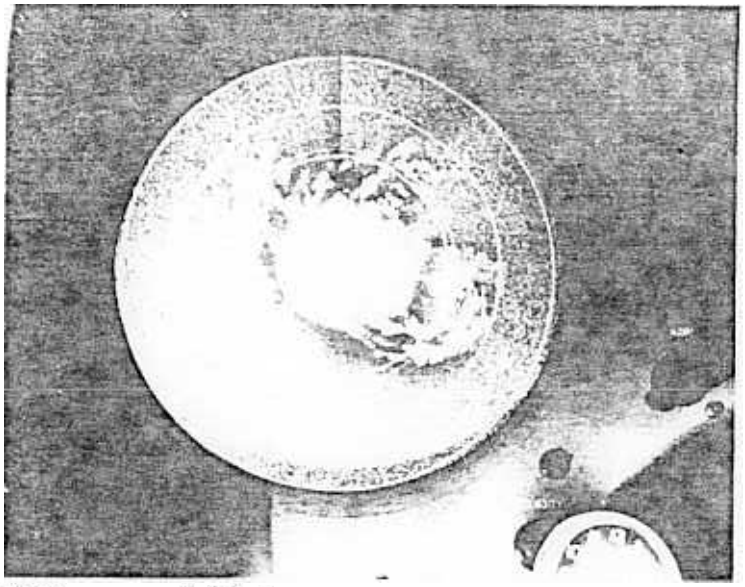
1530 GMT 9/30/75 972 MB 1600 GMT 10/01/75 970 MB 1530 GMT 10/02/75 970 MB

1400 GMT 10/03/75 972

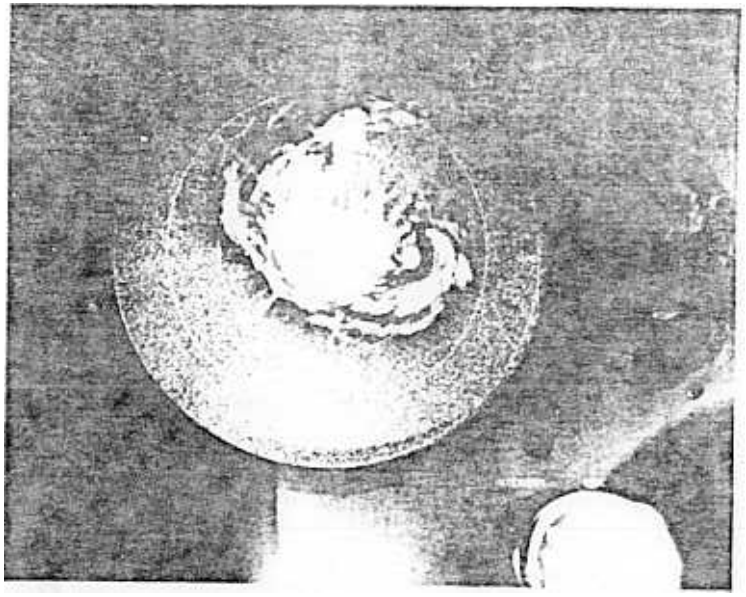
Figure 5. (continued)

1601 GMT 10/26/75 1004 MB 1531 GMT 10/27/75 1005 MB

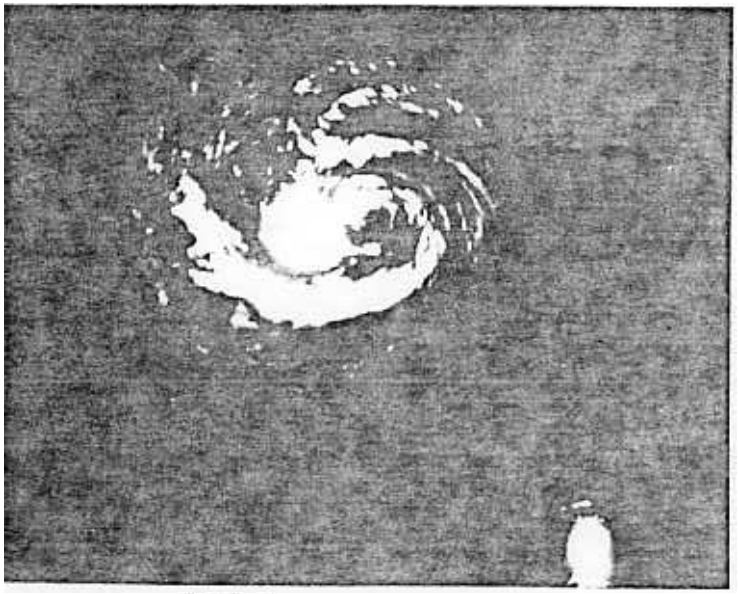
Figure 5. (continued)



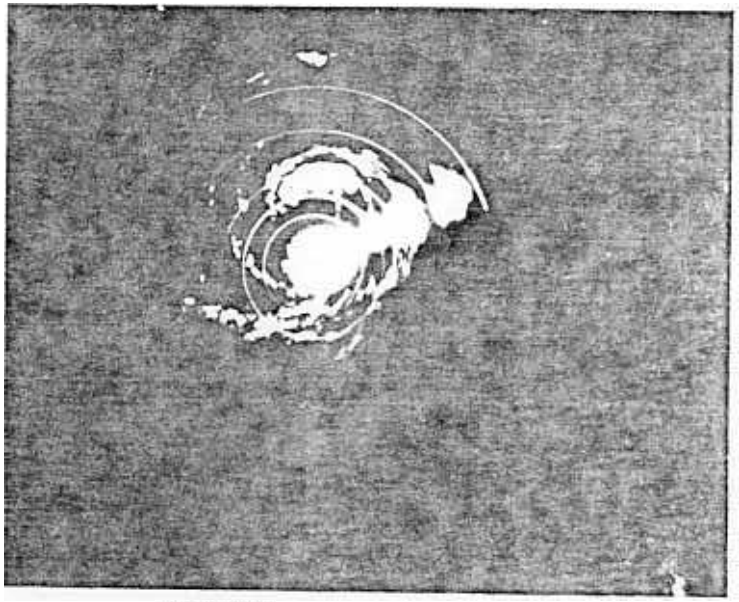
1830 GMT 9/26/75
BERMUDA RADAR
200 RANGE



2030 GMT 9/26/75
BERMUDA RADAR
200 RANGE



2233 GMT 9/26/75
[illegible] RADAR
RANGE



0030 GMT 9/27/75
BERMUDA RADAR

Table 1. Verification of 1975 tropical storm and hurricane forecasts.

Figures in parenthesis are number of cases.

METHOD	INITIAL POSITION ERROR (N.MI.)	FORECAST DISPLACEMENT ERRORS (N.MI.) 12 HR	24 HR	48 HR	72 HR
OFFICIAL	16 (141)	56 (141)	114 (122)	256 (92)	402 (68)
NHC-67	15 (122)	58 (122)	132 (106)	342 (78)	498 (61)
NHC-72	16 (143)	58 (143)	123 (125)	296 (93)	410 (72)
NHC-73	15 (61)	51 (61)	116 (53)	277 (39)	467 (31)
HURRAN	17 (91)	59 (91)	132 (83)	254 (63)	348 (50)
CLIPER	16 (146)	57 (146)	124 (128)	250 (96)	336 (74)
SANBAR	15 (71)	62 (71)	119 (62)	256 (46)	383 (35)

Table 2. Landfall errors of named tropical storms and hurricanes.

STORM NAME	LANDFALL DAY	FORECAST ERROR (N.MI.)	LOCATION AND REMARKS
Amy			No landfall.
Blanche	July 28	165	Cape Sable, Nova Scotia
Caroline	August 31	36	30 mi. north of Soto la Marina, Mexico
Doris			No landfall.
Eloise	September 23	75	Destin, Florida
Faye			No landfall.
Gladys			No landfall.
Hallie			No landfall.
Average landfall forecast error.		95	

Table 3. Summary of North Atlantic tropical cyclone statistics, 1975.

No.	Name	Class	Dates	Maximum sustained winds (kt)	Lowest pressure (mb)	U.S. damage ($ millions)	Deaths
1.	Amy	T	26 June-04 July	60	981		
2.	Blanche	H	23-28 July	75	980		
3.	Caroline	H	24 Aug.-01 Sept.	100	963		
4.	Doris	H	28 Aug.-04 Sept.	95	965		
5.	Eloise	H	13-24 Sept.	110	955	550[1]	U.S. 21 Puerto Rico 34 Hispaniola 25
6.	Faye	H	18-29 Sept.	90	977		
7.	Gladys	H	22 Sept.-3 Oct.	120	939		
8.	Hallie	T	24-28 Oct.	45	1002		

[1] Includes $60 million in Puerto Rico.

Table 4. Best track, initial, and forecast positions, initial position error and forecast errors for 1975 tropical cyclones.

TROPICAL STORM AMY 26 JUNE - 4 JULY 1975

DATE/TIME (GMT)	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	POSITION ERROR (N.MI.)	12 HOUR FORECAST LAT.	12 HOUR FORECAST LONG.	12 HOUR FORECAST ERROR (N.MI.)	24 HOUR FORECAST LAT.	24 HOUR FORECAST LONG.	24 HOUR FORECAST ERROR (N.MI)	48 HOUR FORECAST LAT.	48 HOUR FORECAST LONG.	48 HOUR FORECAST ERROR (N.MI.)	72 HOUR FORECAST LAT.	72 HOUR FORECAST LONG.	72 HOUR FORECAST ERROR (N.M)
2918	33.8	72.8	33.8	73.0	10	33.7	70.2	121	33.8	68.8	164	34.5	65.0	176	36.0	60.0	221
3000	34.3	71.6	34.2	71.7	8	35.5	69.5	57	37.0	67.0	150	38.5	64.0	151	40.0	61.0	169
3006	35.6	70.8	35.5	70.9	8	36.3	70.3	12	37.0	70.0	59	39.0	69.0	178	41.0	68.0	355
3012	35.9	70.5	36.0	70.5	6	36.4	70.7	44	36.7	70.4	104	38.0	69.0	189	39.0	65.0	252
3018	36.2	70.2	36.2	70.3	5	37.0	69.8	50	37.8	69.3	116	39.0	67.0	167	40.0	63.0	226
0100	36.2	69.8	36.0	70.0	15	36.0	69.5	49	36.0	69.5	145	37.5	67.5	214	39.0	65.0	496
0106	36.2	69.4	36.1	69.5	8	36.2	68.2	50	36.5	67.0	64	38.0	63.0	81	40.0	58.0	385
0112	36.2	68.3	36.3	68.2	8	36.5	65.7	74	37.5	62.5	119	41.0	56.0	187	46.0	51.0	
0118	36.7	67.2	36.7	67.3	5	37.5	64.8	58	38.5	62.0	127	42.0	54.0	206			
0200	37.4	66.7	37.4	66.6	5	39.0	64.5	105	40.5	62.5	168	43.0	58.0	148			
0206	37.3	65.9	37.5	66.0	13	37.6	64.0	11	38.0	62.0	41	40.0	56.0	340			
0212	37.3	65.1	37.5	65.5	23	37.6	63.9	38	38.0	61.0	101	41.0	54.0				
0218	37.3	64.1	37.3	64.3	10	38.0	61.0	22	40.0	58.0	31						
0300	37.7	62.8	37.7	62.7	5	39.0	59.5	18									
0306	38.2	61.2	38.0	61.5	19	38.5	59.0	113									
0312	39.3	59.6	39.5	59.5	13	42.5	56.0	59	46.0	52.0							
0318	40.5	58.0	40.5	58.0	0	44.5	53.5	81	49.0	50.0							
0400	42.5	54.8	42.5	54.8		47.0	49.0		52.0	44.0							
0406	44.5	51.6	44.5	51.6		48.0	45.0		51.0	40.0							

HURRICANE BLANCHE 23 - 28 JULY 1975

DATE/TIME (GMT)	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	POSITION ERROR (N.MI.)	12 HOUR FORECAST LAT.	12 HOUR FORECAST LONG.	12 HOUR FORECAST ERROR (N.MI.)	24 HOUR FORECAST LAT.	24 HOUR FORECAST LONG.	24 HOUR FORECAST ERROR (N.MI.)	48 HOUR FORECAST LAT.	48 HOUR FORECAST LONG.	48 HOUR FORECAST ERROR (N.MI.)	72 HOUR FORECAST LAT.	72 HOUR FORECAST LONG.	72 HOUR FORECAST ERROR (N.MI.)
2506	32.2	74.6	32.0	74.6	12				35.5	72.0	98	36.0	69.0	324			
2512	33.4	73.5	33.5	73.5	6	35.7	71.0	36	37.0	69.0	0	39.0	65.0		41.0	60.0	
2518	34.2	72.2	34.2	72.1	5	35.5	69.5	31	36.5	67.0	94	38:0	64.0		40.0	60.0	
2700	35.0	71.0	34.9	70.8	12	36.3	67.5	70	37.4	65.0	143	39.3	62.5		42.0	59.0	
2706	35.9	70.0	35.3	69.7	39	36.5	67.0	59	38.5	65.0	136	45.0	60.0		52.0	54.0	
2712	36.9	69.0	36.5	68.5	34	38.0	66.0	63	40.0	64.0		47.0	58.0				
2718	37.9	68.0	37.6	68.2	20	40.0	66.5	54	44.0	64.0		51.0	57.0				
2800	39.3	67.2	39.1	67.3		43.0	64.7		46.5	62.0							
2806	41.2	66.4	41.0	66.4		47.0	64.0										

Table 4. (continued)

HURRICANE CAROLINE 24 AUGUST - 1 SEPTEMBER 1975

DATE/TIME (GMT)	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	POSITION ERROR (N.MI.)	12 HOUR FORECAST LAT.	12 HOUR FORECAST LONG.	12 HOUR FORECAST ERROR (N.MI.)	24 HOUR FORECAST LAT.	24 HOUR FORECAST LONG.	24 HOUR FORECAST ERROR (N.MI.)	48 HOUR FORECAST LAT.	48 HOUR FORECAST LONG.	48 HOUR FORECAST ERROR (N.MI.)	72 HOUR FORECAST LAT.	72 HOUR FORECAST LONG.	72 HOUR FORECAST ERROR (N.MI)
2906	23.1	92.6	23.2	92.6	6	24.0	94.5	65	25.0	96.0	103	27.0	98.0	170	29.0	99.0	
2912	23.2	93.2	23.2	93.2	0	23.8	94.8	45	24.5	96.0	53	26.0	97.0	111	28.0	98.0	
2918	23.2	93.6	23.2	94.1	28	23.5	94.1	72	23.5	94.1	150	24.5	95.5	165	26.0	97.0	
3000	23.3	94.2	23.3	94.0	11	23.5	94.1	73	23.5	94.1	151	24.5	95.5		26.0	97.0	
3006	23.5	94.9	23.4	94.8	8	23.8	95.5	39	24.2	96.0	78	25.0	97.0		25.0	98.0	
3012	23.7	95.6	23.7	95.8	11	23.7	96.8	28	23.7	98.0	36	23.5	99.5				
3018	23.8	96.3	23.8	96.5	11	23.9	98.0	20	23.5	98.5	80						
3100	24.0	97.0	24.1	97.0	6	24.0	98.2	33	23.5	99.0							
3106	24.1	97.5	24.1	97.5	0	24.4	98.8	50									
3112	24.3	97.8	24.3	97.9		24.3	98.8										
3118	24.8	98.0	24.6	98.1		25.0	99.2										

HURRICANE DORIS 28 AUGUST - 4 SEPTEMBER 1975

DATE/TIME (GMT)	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	POSITION ERROR (N.MI.)	12 HOUR FORECAST LAT.	12 HOUR FORECAST LONG.	12 HOUR FORECAST ERROR (N.MI.)	24 HOUR FORECAST LAT.	24 HOUR FORECAST LONG.	24 HOUR FORECAST ERROR (N.MI.)	48 HOUR FORECAST LAT.	48 HOUR FORECAST LONG.	48 HOUR FORECAST ERROR (N.MI)	72 HOUR FORECAST LAT.	72 HOUR FORECAST LONG.	72 HOUR FORECAST ERROR (N.MI.)
3000	35.3	48.9															
3006	35.3	48.5															
3012	35.3	48.0															
3018	35.0	47.1															
3100	34.9	46.3	35.0	45.9	21	35.0	44.5	19	35.0	43.0	64	36.0	40.0	194	37.0	37.0	317
3106	34.8	45.7	35.0	46.0	19	35.0	45.0	16	35.0	44.0	27	35.0	42.0	167	36.0	40.0	298
3112	34.7	45.2	34.6	45.0	12	34.5	44.0	21	34.2	42.8	61	34.0	41.0	231	34.5	38.0	451
3118	34.6	44.9	34.7	44.9	6	34.7	44.0	10	35.0	42.5	79	38.0	41.0	152	41.0	40.0	130
0100	34.5	44.6	34.3	44.5	13	34.5	43.5	23	35.5	42.0	112	37.0	41.0	147	38.5	40.0	261
0106	34.6	44.2	34.5	44.2	6	34.5	44.0	48	34.5	44.0	111	34.5	42.0	315	34.0	40.0	
0112	34.9	44.0	34.8	44.0	6	34.8	44.0	57	35.0	44.0	115	36.0	43.0	300	37.0	42.0	
0118	35.4	44.0	35.6	44.0	12	36.5	44.0	25	37.5	43.5	41	39.0	43.0	193	41.0	41.0	
0200	35.4	44.4	35.8	44.1	15	36.5	44.5	34	37.5	44.0	59	39.0	43.5	242	41.0	43.0	
0206	36.4	44.5	36.5	44.4	8	37.5	44.7	34	39.0	45.0	85	42.0	44.0		45.0	40.0	
0212	37.0	44.3	37.0	44.3	0	38.3	44.3	24	40.0	44.0	80	42.0	43.0		45.0	40.0	
0218	37.7	44.2	37.6	44.3	8	39.0	44.1	41	40.5	43.5	93	44.0	41.0		47.0	37.0	
0300	38.4	43.8	38.5	43.8	6	40.6	43.5	43	43.0	42.0	6	47.0	37.0		49.0	29.0	
0306	39.7	43.6	39.6	43.7	8	41.5	43.0	30	43.5	41.5		47.5	35.0		49.0	28.0	
0312	41.1	43.0	40.5	43.2	37	42.5	42.0	20	44.5	40.0		46.0	37.0		47.0	33.0	
0318	42.0	42.5	42.0	42.5		44.0	40.0		46.0	36.5		46.5	30.0				
0400	42.8	42.0	42.8	42.0		43.8	41.4		45.0	41.0							

Table 4. (continued)

HURRICANE ELOISE 13 - 24 SEPTEMBER 1975

DATE/TIME (GMT)	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	POSITION ERROR (N.MI)	12 HOUR FORECAST LAT.	12 HOUR FORECAST LONG.	12 HOUR FORECAST ERROR (N.MI)	24 HOUR FORECAST LAT.	24 HOUR FORECAST LONG	24 HOUR FORECAST ERROR (N.MI)	48 HOUR FORECAST LAT.	48 HOUR FORECAST LONG	48 HOUR FORECAST ERROR (N.MI.)	72 HOUR FORECAST LAT.	72 HOUR FORECAST LONG.	72 HOUR FORECAST ERROR (N.MI.)
1600	19.0	65.6															
1606	19.2	66.7	19.3	66.3	23	19.4	67.5	31	20.0	69.0	47	21.5	73.0	109	24.0	76.0	283
1612	19.4	67.5	19.3	67.6	8	19.6	68.9	23	20.0	70.0	77	22.0	73.5	195	25.0	76.0	380
1618	19.5	68.4	19.5	68.3	6	19.8	70.0	8	20.2	71.2	56	22.5	74.0	221	26.0	77.0	430
1700	19.6	69.2	19.6	68.9	17	20.0	70.5	29	20.0	72.0	57	22.0	75.0	202	24.0	77.0	371
1706	19.7	70.2	19.7	69.9	17	19.8	71.3	34	20.5	73.0	77	22.0	76.0	201	24.0	78.0	380
1712	19.7	71.2	19.7	70.7	28	19.8	72.2	34	20.2	73.5	98	22.0	76.5	201	24.5	78.5	416
1718	19.8	72.2	19.9	72.2	6	20.3	74.2	25	20.9	75.6	92	22.7	78.3	226	25.0	80.5	404
1800	19.9	73.3	20.1	73.2	13	20.6	75.0	45	21.3	76.8	98	24.0	79.5	280	26.5	81.5	451
1806	19.9	74.5	20.3	74.4	25	21.1	76.8	42	22.5	78.5	135	25.5	80.5	354	28.0	82.0	491
1812	19.9	75.7	20.3	76.1	33	20.0	78.2	33	21.0	79.5	58	24.0	82.0	278	28.0	84.0	437
1818	20.0	77.0	19.8	77.3	21	20.0	79.0	29	20.6	80.3	82	23.0	83.0	248	26.0	85.0	309
1900	20.0	78.2	19.7	78.3	19	20.2	80.6	53	21.0	83.0	98	23.0	85.0	204	26.0	86.0	230
1906	19.9	79.1	20.5	79.5	43	20.6	82.0	36	21.5	84.5	77	24.0	86.5	166	27.0	87.0	179
1912	19.9	79.8	19.8	80.1	18	20.8	82.8	68	22.0	85.5	136	24.5	87.0	201	28.0	87.0	204
1918	19.8	81.0	20.0	81.0	12	20.8	82.8	59	22.0	85.5	108	24.5	87.0	141	28.0	87.3	150
2000	19.8	82.2	20.5	82.5	45	21.5	85.0	54	23.0	87.5	134	25.0	89.0	43	28.0	88.0	42
2006	19.8	83.4	20.4	83.5	36	21.2	86.5	62	22.0	89.0	107	24.0	91.0	117	27.0	90.0	183
2012	19.9	84.6	20.5	84.5	36	20.7	86.6	18	21.0	88.5	75	25.0	91.0	121	28.0	89.0	223
2018	20.0	85.5	20.2	85.7	17	20.0	87.5	61	20.0	89.5	162	20.5	93.0	416	21.0	97.0	941
2100	20.2	86.4	20.5	86.5	19	20.5	88.2	74	20.5	90.0	211	21.0	94.0	494	22.0	98.0	
2106	20.8	87.1	20.5	86.5	38	20.7	88.0	84	21.0	89.5	214	21.5	93.0	524	22.0	97.0	
2112	21.4	87.8	21.4	87.6	11	21.2	88.8	144	21.5	90.5	266	21.5	93.0	641	21.5	95.0	
2118	22.4	88.5	22.5	88.5	6	23.6	89.2	79	25.0	89.5	96	27.5	89.0	377	30.0	88.0	
2200	23.6	88.9	23.5	89.0	8	26.5	89.3	51	28.0	88.9	51	31.0	86.0		33.0	82.0	
2206	24.8	89.4	24.9	85.9	8	27.5	89.5	54	30.0	87.5	90	34.0	84.0		38.0	81.0	
2212	25.8	89.5	25.9	89.5	6	28.5	89.2	76	30.5	87.5	63	35.0	83.0		39.0	81.0	
2218	26.5	89.4	26.5	89.5	5	29.0	89.0	92	31.0	87.0	135	36.0	82.5		40.0	81.0	
2300	27.3	88.5	27.4	88.7	12	29.0	87.3	89	32.0	86.0		36.0	82.0		41.0	80.0	
2306	28.4	87.3	28.5	87.3	6	32.0	85.0	75	35.5	82.0		42.0	78.0				
2312	30.2	86.3	30.3	86.4		34.0	85.0		36.0	86.0							
2318	33.0	85.7															

Table 4. (continued)

HURRICANE FAYE 18 - 29 SEPTEMBER 1975

DATE/TIME (GMT)	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	POSITION ERROR (N.MI.)	12 HOUR FORECAST LAT.	12 HOUR FORECAST LONG.	12 HOUR FORECAST ERROR (N.MI.)	24 HOUR FORECAST LAT.	24 HOUR FORECAST LONG.	24 HOUR FORECAST ERROR (N.MI.)	48 HOUR FORECAST LAT.	48 HOUR FORECAST LONG.	48 HOUR FORECAST ERROR (N.MI.)	72 HOUR FORECAST LAT.	72 HOUR FORECAST LONG.	72 HOUR FORECAST ERROR (N.MI.)
1912	20.0	39.0	20.1	39.2	13	21.5	41.5	54	22.5	43.5	132	24.5	48.5	248	26.5	52.5	369
1918	20.4	40.2	19.5	41.8	105	20.3	44.0	45	21.0	46.2	109	23.0	51.0	216	25.0	55.0	346
2000	20.5	41.3	20.0	41.8	41	20.5	44.0	51	21.0	46.0	82	23.0	50.0	180	25.0	53.0	307
2006	20.5	42.7	20.2	42.8	19	21.0	45.5	66	22.0	48.0	130	23.0	52.0	199	25.0	55.0	311
2012	20.3	44.0	20.3	44.5	28	21.0	46.5	44	22.0	49.0	109	23.5	53.0	209	25.5	56.1	
2018	20.2	45.3	20.3	45.2	8	21.0	47.5	49	22.0	50.0	127	24.0	54.0	255	26.0	57.0	
2100	20.3	46.2	20.2	46.8	34	20.5	47.8	38	21.0	50.0	36	22.5	54.0	148	24.0	56.0	
2106	20.3	47.0	20.4	47.0	6	20.7	48.8	21	21.2	50.5	46	22.5	55.0	155	24.0	59.0	
2112	20.3	47.8	20.4	48.2	23	20.5	50.0	18	21.0	52.0	54	22.5	56.0		24.0	60.0	
2118	20.4	48.5	20.3	48.7	13	20.7	51.0	48	21.5	53.0	102	23.0	57.0		24.5	61.0	
2200	20.5	49.3	20.5	48.9	23	20.6	50.9	31	21.5	53.0	94	23.0	57.0		24.0	61.0	
2206	20.5	50.0	20.5	50.0	0	20.9	51.8	34	21.0	53.5	42	22.5	57.5		23.0	62.0	226
2212	20.4	50.8	20.5	50.5	18	20.9	52.2	29	21.0	54.0		22.0	58.0		23.0	62.5	247
2218	20.4	51.5	20.5	51.5	6	20.9	52.5	59	21.0	54.5		22.5	59.0		23.0	63.5	273
2300	20.4	52.2	20.5	52.0	13	20.5	53.5		20.5	55.0		21.0	59.0		22.0	63.0	327
2306	20.3	53.4	20.5	53.0	26	20.5	54.0		20.5	55.5		21.0	60.0	241	22.0	64.0	412
2312																	
2318																	
2400																	
2406	(NOTE: FAYE WAS A TROPICAL DEPRESSION DURING THIS PERIOD. FORECASTS NOT VERIFIED.)																
2412																	
2418																	
2500																	
2506	24.2	58.1															
2512	24.8	58.8	24.9	59.1	17	26.5	60.5	12	28.0	62.0	103	31.0	65.0	316	34.0	68.0	659
2518	25.5	59.4	25.4	59.7	17	27.0	61.0	49	28.5	62.5	151	31.5	66.0	350	35.0	69.0	892
2600	26.5	60.0	26.5	60.4	22	28.5	61.5	81	30.5	63.5	144	33.0	68.0	376	37.0	70.0	1136
2606	27.9	60.9	27.8	60.9	6	30.0	62.7	58	32.0	64.7	140	36.0	65.5	325	41.0	61.0	942
2612	29.6	62.0	29.5	62.2	12	32.0	64.5	36	35.0	64.0	111	40.0	59.0	95	43.0	50.0	
2618	31.0	63.1	31.2	63.2	13	34.5	64.0	65	38.5	62.5	134	41.5	56.0	184	44.0	46.0	
2700	32.7	64.2	32.6	64.3	5	36.0	67.0	59	40.0	67.0	177	45.0	56.0	448	46.0	44.0	
2706	34.4	65.2	34.5	65.3	8	38.0	67.0	95	42.0	66.0	275	45.5	53.0	574	46.0	41.0	
2712	36.1	65.7	36.1	65.9	10	40.0	67.0	173	43.5	64.5	353	46.0	56.0		46.0	38.0	
2718	37.0	65.0	37.8	65.0	24	41.5	61.5	90	43.0	56.0	177	43.0	43.0		43.0	27.0	
2800	38.4	63.7	38.6	63.5	15	41.0	60.0	141	42.5	54.0	362	43.0	40.0		43.0	24.0	
2806	39.8	60.5	40.0	60.5	12	42.5	55.0	133	43.0	48.0	351	43.0	34.0				
2812	41.0	57.1	41.1	57.0	8	42.0	49.0	148	42.0	41.0		42.0	25.0				
2818	42.3	52.0	42.0	52.0	18	42.5	39.0	45	42.5	30.0							
2900	42.8	46.0															
2906	42.9	40.0															

Table 4. (continued)

HURRICANE CLADYS 22 SEPTEMBER - 3 OCTOBER 1975

DATE/TIME (GMT)	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	POSITION ERROR (N.MI.)	12 HOUR FORECAST LAT.	12 HOUR FORECAST LONG.	12 HOUR FORECAST ERROR (N.MI.)	24 HOUR FORECAST LAT.	24 HOUR FORECAST LONG.	24 HOUR FORECAST ERROR (N.MI.)	48 HOUR FORECAST LAT.	48 HOUR FORECAST LONG.	48 HOUR FORECAST ERROR (N.MI.)	72 HOUR FORECAST LAT.	72 HOUR FORECAST LONG.	72 HOUR FORECAST ERROR (N.MI.)
2418	13.5	40.4	13.2	40.6	22	14.0	41.8	38	15.0	43.0	76	17.0	47.0	147	18.5	51.0	245
2500	14.2	41.0	14.2	41.0	0	14.7	42.0	72	15.5	43.5	96	18.5	47.5	201	19.0	52.0	251
2506	14.8	42.0	15.8	42.2	61	15.4	43.3	99	16.3	44.6	118	18.5	48.5	222	20.0	52.5	289
2512	15.4	43.0	15.3	43.1	8	16.0	45.0	8	16.5	47.0	46	18.0	51.0	160	19.0	54.0	247
2518	15.8	44.0	16.1	44.5	34	16.5	47.0	26	17.0	49.0	46	18.0	52.0	215	19.0	55.0	283
2600	16.2	45.0	16.3	45.0	6	16.6	47.5	13	17.0	49.5	70	18.0	52.5	239	19.0	55.5	304
2606	16.4	46.1	16.3	46.2	8	16.7	48.4	58	16.9	50.3	120	17.5	54.0	233	18.0	58.0	310
2612	16.6	47.7	16.6	47.6	6	17.0	50.2	24	17.2	53.0	69	18.0	57.5	113	19.0	62.0	242
2618	16.8	49.3	16.9	49.5	13	17.3	52.0	33	17.8	55.0	68	19.0	60.0	89	20.0	64.0	222
2700	17.1	50.7	17.2	50.7	6	17.8	53.5	32	18.0	56.0	93	19.0	60.5	139	20.0	64.5	255
2706	17.6	52.2	17.3	53.0	49	17.6	54.2	111	18.2	56.7	109	19.2	61.0	170	20.5	65.5	249
2712	18.2	53.7	17.8	53.7	24	18.2	56.0	53	18.5	58.5	57	19.5	62.5	186	20.5	66.0	273
2718	18.8	55.1	18.8	55.2	6	19.5	58.5	57	20.0	61.0	92	20.3	64.5	188	21.0	68.0	287
2800	19.4	56.4	19.6	56.3	13	21.0	59.0	79	22.0	61.0	57	23.0	65.0	78	23.5	69.0	187
2806	19.6	57.4	19.7	57.6	13	21.0	60.5	67	21.5	62.5	65	22.5	66.0	138	23.5	69.5	242
2812	19.8	58.2	19.7	58.3	8	20.5	60.5	36	21.0	62.5	115	21.5	66.0	237	22.5	69.0	370
2818	20.3	59.3	20.2	59.2	8	20.5	61.3	90	21.0	63.5	151	21.5	66.5	282	22.0	69.5	475
2900	21.2	60.3	21.0	60.5	16	21.5	62.5	80	22.0	65.0	116	22.5	69.0	227	23.0	73.0	468
2906	22.1	61.4	21.8	61.5	19	22.5	63.5	55	23.0	65.5	99	24.0	69.5	195	25.0	73.5	461
2912	23.0	62.6	23.0	62.6	0	23.8	65.4	21	24.5	67.5	42	25.5	70.5	176	26.5	73.5	561
2918	23.6	63.9	23.5	64.1	13	24.2	66.7	18	25.0	69.0	41	26.0	73.0	198	27.0	76.0	781
3000	24.1	65.2	24.1	65.1	6	25.0	68.0	12	25.5	70.0	45	27.0	74.0	247	28.0	77.0	1048
3006	24.6	66.5	24.6	65.6	49	25.8	69.0	35	26.5	70.5	24	28.0	73.5	317	30.0	76.0	1254
3012	25.1	67.9	25.2	67.9	6	26.0	70.0	35	27.0	72.0	64	28.5	74.5	478	30.5	76.5	1543
3018	25.6	69.3	25.5	69.4	8	26.5	72.0	16	27.5	74.5	131	30.0	76.0	640	32.0	77.0	
0100	26.1	70.6	25.8	70.4	21	26.2	73.0	94	27.0	75.0	250	30.0	78.0	988	34.0	75.0	
0106	26.8	71.7	26.7	71.8	8	29.5	73.5	24	32.0	73.5	82	35.0	70.0	789	37.0	63.0	
0112	27.9	72.4	28.0	72.2	12	30.0	73.5	75	33.0	74.0	262	36.0	69.5	1069	37.5	62.0	
0118	29.4	73.0	29.5	73.0	6	33.0	74.0	96	36.5	74.0	345	41.0	66.0		44.0	55.0	
0200	31.0	73.0	30.9	72.9	8	36.0	73.0	168	39.0	71.0	404	42.5	61.5		45.0	51.0	
0206	32.9	72.1	32.8	72.3	12	37.0	69.5	118	40.0	65.0	410	45.0	50.0		50.0	35.0	
0212	35.3	69.8	35.0	70.0	21	41.0	65.0	104	45.0	55.0	193	53.0	35.0				
0218	37.8	67.0	37.8	67.3	14	43.0	59.0	85	48.0	49.0		56.0	30.0				
0300	40.8	62.6	40.3	62.7	30	45.5	54.0	143	50.0	45.0							
0306	43.7	57.0	43.5	58.0		50.0	45.0		55.0	30.0							
0312	46.6	50.6	47.0	46.0		50.0	37.0										

Table 4. (continued)

TROPICAL STORM HALLIE 24 - 27 OCTOBER 1975

DATE/TIME (GMT)	BEST TRACK LAT.	BEST TRACK LONG.	OPERATIONAL POSITION LAT.	OPERATIONAL POSITION LONG.	POSITION ERROR (N.MI.)	12 HOUR FORECAST LAT.	12 HOUR FORECAST LONG.	12 HOUR FORECAST ERROR (N.MI.)	24 HOUR FORECAST LAT.	24 HOUR FORECAST LONG.	24 HOUR FORECAST ERROR (N.MI.)	48 HOUR FORECAST LAT.	48 HOUR FORECAST LONG.	48 HOUR FORECAST ERROR (N.MI.)	72 HOUR FORECAST LAT.	72 HOUR FORECAST LONG.	72 HOUR FORECAST ERROR (N.MI.)
2618	32.5	78.7	32.5	78.8	5	34.0	76.0	36	35.0	73.0	85	36.0	67.0		36.0	60.0	
2700	33.5	77.5	33.7	77.0	28	35.5	74.5	63	37.0	71.0		38.0	65.0		39.0	59.0	
2706	34.5	75.5	34.5	75.2	15	36.5	68.0	201	37.0	61.0		37.0	46.0				
2712	35.7	73.8	35.6	72.5		36.0	70.5		36.6	66.0							
2718	34.6	72.6	36.3	72.7		35.7	69.0		38.0	64.0							

AMY CONTINUED

Table 5. (continued)

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR, E=ELIP.	EYE DIA. N.MI.	REMARKS
39	01	1110	36.3	68.4	AF	10/5	36	60	700MB	987	2938	10				POORLY DEFINED
40	01	1130	36.2	68.3	SMS1	1,3,VSBL 2		55								
41	01	1500	36.3	67.5	SMS1	3,VSBL 2										
42	01	1818	36.8	67.3	AF	5/2	50	55	700MB		2941	9	6			NO WALL CLOUD
43	01	1830	36.6	66.9	SMS1	1,3,VSBL 2		55								
44	01	1923	36.8	67.2	AF	5/2	65	70	700MB	986	2935	8	6	C	20	EYE WALL FORM. G S AND W
45	01	2110	37.2	66.8	AF				700MB		2920					
46	01	2216	37.3	66.6	AF				700MB		2917					
47	01	2328	37.4	66.7	AF	2/5	45		700MB	984	2911	9	6	E04/20/10		NO EYE WALL
48	02	0000	37.4	66.6	SMS1	IR 8										
49	02	0030	37.4	66.5	SMS1	1,3, IR 8		60								
50	02	0530	37.4	66.2	AF	2/5	70		700MB	981	2874	10	11	E04/20/15		OPEN N
51	02	0600	37.5	65.9	SMS1	3,IR 8										
52	02	0630	37.4	65.9	SMS1	1,3, IR 8		60								
53	02	0638	37.5	66.1	AF		70		700MB	981	2868					
54	02	0826	37.4	65.8	AF	5/5	70		700MB	981	2862	9	7	E04/20/15		OPEN N-W
55	02	1010	37.4	65.6	AF	2/5			700MB		2877	9	11	E04/20/15		OPEN S-W-NW
56	02	1130	37.4	65.3	SMS1	1,3,VSBL 2		60								
57	02	1400	37.3	65.1	SMS1	3,VSBL 2										
58	02	1630	37.3	64.4	SMS1	3,VSBL 2										
59	02	1800	37.3	64.4	AF	10/5	38	50	700MB	986	2929	10				POORLY DEFINED
60	02	1830	37.3	63.9	SMS1	1,3,VSBL 2		60								
61	03	0001	37.8	62.7	SMS1	1,4, IR 8		60								
62	03	0600	38.1	61.3	SMS1	3, IR 8										
63	03	0630	38.1	61.1	SMS1	2,3, IR 8		60								
64	03	1130	39.2	59.8	SMS1	1,3,VSBL 2		60								
65	03	1330	39.6	59.2	SMS1	3,VSBL 4										
66	03	1500	40.0	59.0	SMS1	3,VSBL 2										
67	03	1630	40.1	58.5	SMS1	3,VSBL 2										
68	03	1800	40.6	58.0	SMS1	3,VSBL 2										
69	03	1830	40.9	57.6	SMS1	1,3,VSBL 2		60								
70	04	0001	42.5	54.8	SMS1	4, IR 8										
71	04	0030	42.6	54.8	SMS1	1,3, IR 8		60								
72	04	0600	44.5	51.6	SMS1	3, IR 8										
73	04	0630	44.7	51.5	SMS1	1,3, IR 8		55								
74	04	1130	46.8	48.2	SMS1	3,VSBL 2										

Table 5. (continued)

HURRICANE BLANCHE

23 - 28 JULY 1975

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER	MAX WIND (KT) FLT. LVL.	MAX WIND (KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP (°C) IN.	TEMP (°C) OUT.	EYE C=CIR. DIA. E=ELIP. N.MI.	REMARKS
1	23	1830	27.0	68.0	SMS1	1,3,VSBL 4									
2	24	0030	26.0	68.5	SMS1	1,5, IR 8									
3	24	0630	26.0	69.0	SMS1	1,5, IR 8									
4	24	1130	25.9	70.1	SMS1	1,5,VSBL 2		25							
5	24	1800	27.1	72.0	SMS1	1,5,VSBL 2		25							
6	24	2200	27.4	72.5	SMS1	3,VSBL 2									
7	25	0030	27.0	73.0	SMS1	1,5, IR 8		30							
8	25	0300	26.8	73.4	SMS1	5, IR 8									
9	25	0430	26.6	73.5	SMS1	5, IR 8									
10	25	0630	27.0	74.0	SMS1	1,5, IR 8		35							
11	25	1030	28.8	74.3	AF	3/10	50	30	427M			23	23	E36/40/20	POORLY DEFINED
12	25	1130	29.7	73.7	SMS1	1,3,VSBL 2		40							
13	25	1239	29.1	74.1	AF	3/10	45	40	700MB	1006		9	8	E36/30/15	POORLY DEFINED
14	25	1717	29.9	74.8	AF				293M	1006					
15	25	1800	30.0	74.7	SMS1	3,VSBL 2									
16	25	1830	30.2	74.8	SMS1	1,3,VSBL 2		40							
17	25	2354	30.9	75.1	AF	5/10	38	35	354M	1006		23	23	C 30	NO EYE WALL
18	26	0030	31.2	74.9	SMS1	1,5, IR 8		35							
19	26	0552	32.3	74.6	AF	5/10	34			1004		23		C 20+	NO EYE OBSERVED
20	26	0600	32.1	74.5	SMS1	5, IR 8									
21	26	0630	32.2	74.4	SMS1	1,5, IR 8		35							
22	26	1130	33.6	72.9	SMS1	1,3,VSBL 2		40							
23	26	1202	33.4	73.5	AF	4/5	40	35	396M	1004		23			NO EYE
24	26	1535	34.2	72.8	HATTERAS RADAR										POOR
25	26	1605	33.9	72.9	HATTERAS RADAR										
26	26	1808	34.2	72.2	AF	5/5			274M	998					NO EYE WALL
27	26	1830	34.3	72.0	SMS1	1,3,VSBL 2		50							
28	26	2300	35.2	71.1	SMS1	3,VSBL 2									
29	26	2334	34.8	70.9	AF	5/5	55	65	700MB	988	2993	14	8	C 20	POORLY DEFINED-WALL CLOUD FORMING NE
30	27	0030	35.2	70.3	SMS1	1,5, IR 8		55							
31	27	0104	35.2	70.8	AF	5/5	60		700MB	992	3011	12	11	C 15	EYE WALL NE
32	27	0219	35.5	70.4	AF	5/5	55		700MB	992	2987	13	11	C 15	POORLY DEFINED
33	27	0521	35.3	70.1	AF RADAR										ACFT. PSN. 27 N.M. SW OF CNTR
34	27	0530	35.5	69.5	SMS1	3, IR 8									
35	27	0630	35.6	69.5	SMS1	1,3, IR 8		55							
36	27	1130	36.6	68.4	SMS1	1,3,VSBL 2		65							

BLANCHE CONTINUED

Table 5. (continued)

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. E=ELIP.	EYE DIA. N.MI.	REMARKS
37	27	1229	36.5	68.5	AF	5/1	78	50	700MB	986	2938	12		C	40	EYE WALL NE-SE
38	27	1330	36.8	68.4	SMS1	3,VSBL 2										
39	27	1410	36.8	68.7	AF	5/3	78	65	700MB		2929	11	8	C	30	OPEN NW - ENE
40	27	1530	37.4	68.2	SMS1	3,VSBL 2										
41	27	1630	37.6	68.2	AF	5/5		65	700MB		2932	12	8	C	45	CLOSED WALL
42	27	1700	37.8	68.0	SMS1	3,VSBL 4										
43	27	1730	37.5	68.2	AF	5/1	65	35	700MB	981	2914	12	8	C	80	CLOSED WALL
44	27	1830	38.0	68.0	SMS1	1,3,VSBL 2		70								
45	27	2210	38.5	67.5	AF	2/5	70	75	700MB	982	2926	13	8	C	35	CLOSED WALL SW-W
46	27	2330	39.1	67.1	SMS1	3,VSBL 2										
47	27	2330	39.1	67.5	AF	5/5	58	65	700MB		2908	13	12	C	35	CLOSED WALL
48	28	0030	39.2	67.1	SMS1	1,3, IR 8		70								
49	28	0530	40.9	66.5	SMS1	3, IR 8										
50	28	0541	40.8	66.7	AF	5/5	55		700MB	981	2880	12	8	C	20	OPEN SW
51	28	0630	41.2	66.5	SMS1	1,3, IR 8		70								
52	28	0709	41.5	66.4	AF	5/5	70		700MB		2896	7	8	C	20	OPEN SW
53	28	0859	42.3	65.9	AF	5/5	70		700MB	983	2877	11	8	C	20	OPEN SW
54	28	1015	42.9	65.9	AF	5/5			700MB		2896	10		C		OPEN SW
55	28	1130	43.6	65.0	SMS1	2,5,VSBL 2										
56	28	1229	44.0	65.5	AF		55									CENTER OVER LAND

Table 5. (continued)

HURRICANE CAROLINE

24 AUGUST - 1 SEPTEMBER 197

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. E=ELIP.	EYE DIA. N.MI.	REMARKS
1	21	1330	22.0	55.3	SMS1	1,6,VSBL 2		25								
2	21	1900	23.3	56.2	SMS1	1,6,VSBL 2		25								
3	22	0030	22.5	57.5	SMS1	2,6, IR 8		25								
4	22	1330	24.2	58.8	SMS1	2,5,VSBL 2		25								
5	22	1800	24.5	59.5	SMS1	1,5,VSBL 4		25								
6	23	0030	24.5	61.8	SMS1	2,6, IR 8		25								
7	23	1400	23.8	65.5	SMS1	1,5,VSBL 4		25								
8	23	1830	23.6	66.4	SMS1	1,3,VSBL 4		25								
9	24	0030	23.2	67.1	SMS1	1,5, IR 8		25								
10	24	0630	22.9	68.2	SMS1	2,5, IR 8										
11	24	1130	21.9	69.8	SMS1	2,5,VSBL 2		25								
12	24	1330	22.4	70.1	SMS1	5,VSBL 1										
13	24	1530	22.4	70.6	SMS1	3,VSBL 1										
14	24	1700	22.4	70.7	SMS1	5,VSBL 1										
15	24	1830	22.3	71.0	SMS1	2,5,VSBL 2		25								
16	25	0001	22.0	72.6	SMS1	5, IR 8										
17	25	0030	22.0	72.6	SMS1	1,5, IR 8		25								
18	25	0600	21.2	73.9	SMS1	5, IR 4										
19	25	0630	21.2	73.9	SMS1	1,5, IR 8		25								
20	25	1115	21.2	75.0	SMS1	5,VSBL 2										
21	25	1330	21.0	75.4	SMS1	1,5,VSBL 1		25								
22	25	1600	21.5	76.5	SMS1	5,VSBL 1										
23	26	1321	20.0	81.4	AF	5/10		15		1014		22	24	C	40	POORLY DEFINED
24	27	0030	21.3	82.5	SMS1	1,6, IR 8		25								
25	27	0700	21.4	84.1	SMS1	2,5, IR 8		25								
26	27	1330	21.2	85.3	SMS1	1,5,VSBL 2		25								
27	27	1830	21.5	86.0	SMS1	1,5,VSBL 2		25								
28	28	0030	22.0	87.5	SMS1	2,6, IR 8		25								
29	28	0630	22.4	88.8	SMS1	2,5, IR 8		25								
30	28	1330	23.0	90.3	SMS1	1,5,VSBL 2		25								
31	28	1800	23.0	91.2	SMS1	2,5,VSBL 2		25								
32	28	2238	23.0	91.5	AF	5/5	35	35	347M	1005		24	24			NEG. EYEWALL
33	29	0030	23.2	91.9	AF	5/5	25	18	381M	1004		24	24			NEG. EYEWALL
34	29	0030	22.8	91.7	SMS1	1,3, IR 8		25								
35	29	0337	22.8	92.1	AF	5/5	40			1005		24	25			EYEWALL FORMING ON RADAR N-E-SE
36	29	0600	23.2	92.6	SMS1	3, IR 8										
37	29	0630	22.8	92.7	SMS1	1,5, IR 8		40								
38	29	1130	23.2	93.8	SMS1	2,3, IR 8		35								
39	29	1229	23.2	93.2	AF	5/2	65	65		995		28	23			POORLY DEFINED. EYE OPEN

Table 5. (continued)

CAROLINE CONTINUED

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. E=ELIP.	EYE DIA. N.MI.	REMARKS
40	29	1400	23.3	93.9	SMS1	3,VSBL 2										
41	29	1445	23.1	93.6	AF	2/2	45	50	283M	1000		26	24			POORLY DEFINED
42	29	1715	23.0	93.3	AF											
43	29	1800	22.9	93.8	SMS1	5,VSBL 4										
44	29	1822	23.2	93.1	AF	2/2			700MB		3054	11		C	10	WELL DEFINED
45	29	1830	22.9	94.0	SMS1	2,5,VSBL 4		40								
46	29	2325	23.3	94.1	AF	5/3	40	45	700MB	990	2999	12	8	C	10	CLOSED WALL
47	30	0000	23.3	94.0	SMS1	IR 8										
48	30	0030	23.3	94.1	SMS1	2,3, IR 8		55								
49	30	0110	23.3	94.2	AF	5/5	36		700MB	992	3014	12	9	C	10	CLOSED WALL
50	30	0505	23.4	94.8	AF	5/5			700MB	992	3021	12		C	10	OPEN WSW
51	30	0600	23.5	94.9	SMS1	3, IR 8										
52	30	0630	23.6	95.1	SMS1	1,3, IR 8		60								
53	30	0857	23.5	95.5	AF	10/5			700MB	991	2996			C	10	OPEN NE
54	30	1000	23.6	95.6	SMS1	4, IR 8										
55	30	1038	23.6	95.5	AF				700MB		2993					
56	30	1130	23.7	95.6	SMS1	1,3, IR 8		60								
57	30	1212	23.6	95.6	AF	10/10	35	65	700MB	989	2996	18		C	10	CLOSED WALL
58	30	1239	24.1	95.8	BRO. RADAR										15	OVERLAY
59	30	1310	23.9	96.3	BRO. RADAR											POOR
60	30	1404	23.8	96.6	BRO. RADAR											POOR
61	30	1440	23.9	96.1	AF	15/5	52	90	700MB	987	2990	18		C	10	OPEN NE
62	30	1530	24.0	96.1	AF				700MB							
63	30	1549	23.7	96.2	BRO. RADAR										15	GOOD
64	30	1645	23.8	96.4	BRO. RADAR										10	GOOD
65	30	1710	23.8	96.3	BRO. RADAR										20	GOOD - CLOSED
66	30	1729	23.8	96.3	BRO. RADAR										20	GOOD - CLOSED
67	30	1800	23.8	96.3	SMS1	1,5,VSBL 4		65								
68	30	1810	23.8	96.3	BRO. RADAR											GOOD
69	30	1830	23.9	96.5	NOAA	1/5	100	100	500M	987		24	23	C	12	OPEN W AND SW
70	30	1835	23.8	96.4	BRO. RADAR											GOOD
71	30	1910	23.8	96.5	BRO. RADAR											GOOD
72	30	2010	23.9	96.5	BRO. RADAR											GOOD, OPEN S
73	30	2030	23.9	96.5	BRO. RADAR											GOOD
74	30	2110	24.0	96.5	BRO. RADAR											
75	30	2113	23.9	96.6	NOAA	2/2		90	300M	980				C	20	CLOSED WALL
76	30	2139	24.0	96.5	BRO. RADAR											GOOD
77	30	2210	24.0	96.7	BRO. RADAR											GOOD
78	30	2230	24.0	96.8	BRO. RADAR											GOOD
79	30	2231	24.0	96.7	NOAA				700MB	984	2948					
80	30	2315	24.0	96.8	BRO. RADAR											GOOD
81	31	0000	23.9	97.1	SMS1	3, IR 8										
82	31	0001	24.1	96.9	AF	2/5	51	100	700MB	970	2807	16	12	C	15	WELL DEFINED
83	31	0030	24.1	97.1	BRO. RADAR											GOOD
84	31	0030	23.7	96.7	SMS1	2,4, IR 8		71								
85	31	0112	24.1	97.1	AF	5/5	72		700MB			17		C	10	WELL DEFINED
86	31	0132	24.1	97.1	BRO. RADAR											GOOD

» CAROLINE CONTINUED

Table 5. (continued)

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. E=ELIP.	EYE DIA. N.MI.	REMARKS
87	31	0210	24.1	97.1	BRO. RADAR											GOOD
88	31	0230	24.1	97.1	BRO. RADAR											GOOD
89	31	0305	24.0	97.3	AF	5/5	89		700MB	969	2816	17	14	C	20	WELL DEFINED ON RADAR
90	31	0330	24.0	97.2	BRO. RADAR											GOOD
91	31	0410	24.0	97.3	BRO. RADAR											GOOD
92	31	0422	24.1	97.4	AF	5/5	69		700MB			18	12	C	16	EYE WELL DEFINED
93	31	0430	24.1	97.3	BRO. RADAR											GOOD
94	31	0530	24.1	97.4	BRO. RADAR										15	GOOD
95	31	0600	24.2	97.6	SMS1	1, IR 8										
96	31	0610	24.2	98.5	BRO. RADAR											GOOD
97	31	0611	24.1	97.5	AF	5/2	33		700MB	963	2768	16	11	C	12	CLOSED WALL - WELL DEFINED
98	31	0630	24.3	97.7	SMS1	1,1, IR 8		90								
99	31	0630	24.2	98.5	BRO. RADAR										14	GOOD
100	31	0710	24.2	98.6	BRO. RADAR										13	GOOD
101	31	0730	24.2	97.6	BRO. RADAR										12	GOOD
102	31	0810	24.3	97.7	BRO. RADAR										13	GOOD
103	31	0820	24.2	97.6	AF	2/2	75		700MB		2774	18	10	C	8	CLOSED WALL. WELL DEFINED
104	31	0830	24.2	97.7	BRO. RADAR										12	GOOD
105	31	0910	24.3	97.7	BRO. RADAR										10	GOOD
106	31	0930	24.3	97.8	BRO. RADAR										10	GOOD
107	31	1007	24.3	97.8	AF		70		700MB		2755			E27/15/10		FORWARD EDGE OF EYE ON COAST
108	31	1010	24.3	97.8	BRO. RADAR										9	GOOD
109	31	1030	24.3	97.8	BRO. RADAR										9	GOOD
110	31	1110	24.3	97.8	BRO. RADAR										11	GOOD
111	31	1130	24.3	97.9	BRO. RADAR										11	GOOD
112	31	1130	24.4	97.7	SMS1	1,1, IR 8		90								
113	31	1153	24.3	97.9	AF		75		700MB		2774					700MB HT. OVER LAND
114	31	1210	24.3	97.9	BRO. RADAR										11	GOOD
115	31	1230	24.3	97.9	BRO. RADAR										11	GOOD
116	31	1310	24.3	97.9	BRO. RADAR										11	GOOD
117	31	1330	24.3	97.9	BRO. RADAR										11	GOOD
118	31	1410	24.6	97.9	BRO. RADAR										12	GOOD
119	31	1415	24.4	97.9	AF		70		700MB		2841			E/XX/10/15		WELL DEFINED
120	31	1430	24.4	97.9	BRO. RADAR										12	GOOD
121	31	1510	24.5	97.9	BRO. RADAR										12	GOOD
122	31	1610	24.6	98.0	BRO. RADAR										11	GOOD
123	31	1632	24.6	98.0	BRO. RADAR										7	GOOD
124	31	1710	24.6	98.0	BRO. RADAR											FAIR. EYE FILLING RAPIDLY
125	31	1730	24.6	98.1	BRO. RADAR											FAIR
126	31	1800	24.7	98.1	BRO. RADAR											POOR
127	31	1830	24.7	98.1	BRO. RADAR											POOR
128	31	1910	24.8	98.3	BRO. RADAR											POOR. 15° OVERLAY
129	31	1930	24.8	98.1	BRO. RADAR											POOR. 15° OVERLAY
130	31	2013	25.0	98.2	BRO. RADAR											POOR. 15° OVERLAY
131	31	2030	25.0	98.3	BRO. RADAR											POOR. 15° OVERLAY

Table 5. (continued)

CAROLINE CONTINUED

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. E=ELIP.	EYE DIA. N.MI.	REMARKS
133	31	2130	25.1	98.2	BRO. RADAR											POOR
134	31	2210	25.1	98.4	BRO. RADAR											POOR
135	31	2230	25.2	98.3	BRO. RADAR											POOR
136	31	2256	25.2	98.4	BRO. RADAR											POOR
137	31	2310	25.3	98.5	BRO. RADAR											POOR. VERY DISORGANIZED
138	01	0001	25.3	98.9	SMS1	3, IR 8										
139	01	0600	24.9	98.8	SMS1	3, IR 8										
140	01	1330	25.3	99.0	SMS1	3,VSBL 4										

Table 5. (continued)

HURRICANE DORIS

28 AUGUST - 4 SEPTEMBER 1975

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND (KT) FLT. LVL.	MAX WIND (KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP (°C) IN.	TEMP (°C) OUT.	EYE C=CIR. DIA. E=ELIP, N.MI.
1	28	1100	33.2	46.0	SMS1	2,3,VSBL 4		35						
2	28	1600	33.4	47.3	SMS1	5,VSBL 4								
3	28	1830	33.7	47.7	SMS1	2,3,VSBL 4		40						
4	29	0030	34.6	48.2	SMS1	2,3, IR 8		40						
5	29	0600	34.5	48.5	SMS1	3, IR 8								
6	29	0630	34.5	48.4	SMS1	2,4, IR 8		40						
7	29	1130	34.8	48.7	SMS1	1,3,VSBL 4		40						
8	29	1800	35.4	49.0	SMS1	3,VSBL 4								
9	29	1830	35.2	49.1	SMS1	1,3,VSBL 4		50						
10	30	0000	35.0	48.9	SMS1	4, IR 8								
11	30	0030	35.3	48.7	SMS1	2,2, IR 8		55						
12	30	0600	35.3	48.7	SMS1	2, IR 8								
13	30	0630	35.2	48.6	SMS1	1,3, IR 8		55						
14	30	1130	35.3	48.1	SMS1	1,1,VSBL 4		55						
15	30	1800	35.0	47.1	SMS1	1,1,VSBL 4		55						
16	31	0000	35.0	45.9	SMS1	1, IR 8								
17	31	0030	34.9	46.1	SMS1	2,2, IR 8		65						
18	31	0600	34.9	45.9	SMS1	1, IR 8								
19	31	0630	34.9	45.8	SMS1	2,1, IR 8		65						
20	31	1130	34.7	45.2	SMS1	1,1,VSBL 4		65						
21	31	1800	34.7	44.9	SMS1	1,VSBL 4								
22	31	1830	34.7	44.9	SMS1	1,1,VSBL 4		65						
23	01	0001	34.3	44.5	SMS1	1, IR 8								
24	01	0030	34.4	44.5	SMS1	1,1, IR 8		77						
25	01	0600	34.6	44.2	SMS1	IR 8								
26	01	0630	34.7	44.2	SMS1	2,1, IR 8		77						
27	01	1130	34.8	44.0	SMS1	1,1,VSBL 4		77						
28	01	1800	35.6	44.0	SMS1	1, IR 8								
29	01	1830	35.6	44.0	SMS1	1,1,VSBL 2		77						
30	02	0000	35.8	44.1	SMS1	1, IR 8								
31	02	0030	35.9	44.4	SMS1	1,2, IR 8		90						
32	02	0600	36.5	44.4	SMS1	1, IR 8								
33	02	0630	36.5	44.5	SMS1	2,1, IR 8		95						
34	02	1130	37.0	44.3	SMS1	1,1, IR 8		95						
35	02	1800	37.6	44.3	SMS1	1,VSBL 4								
36	02	1830	37.7	44.2	SMS1	1,1,VSBL 4		95						
37	03	0000	38.5	43.8	SMS1	2, IR 8								
38	03	0030	38.6	43.8	SMS1	2,2, IR 8		95						
39	03	0530	39.6	43.7	SMS1	2, IR 8								
40	03	0630	39.9	43.6	SMS1	2,2, IR 8		95						
41	03	1030	40.3	42.9	SMS1	2,2,VSBL 4		95						
42	03	1800	41.7	43.0	SMS1	5,VSBL 4								
43	03	1830	42.2	42.4	SMS1	2,5,VSBL 4		90						
44	03	2330	42.8	42.0	SMS1	2, IR 8								
45	04	0030	42.8	41.1	SMS1	2,6, IR 8		75						
46	04	0600	42.9	41..	SMS1	6, IR 8								
47	04	0630	42.4	41.6	SMS1	2,6 IR 8		65						

Table 5. (continued)

HURRICANE ELOISE

13 - 24 SEPTEMBER 1975

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. E-ELIP.	EYE DIA. N.MI.	REMARKS
1	13	1900	17.7	55.4	AF		15	15		1009						
2	14	0000	17.5	57.0	SMS1	6, IR 8										
3	14	1412	18.1	59.8	AF	5/15	20	15		1013						
4	15	0001	18.0	61.0	SMS1	2,5, IR 8		25								
5	15	0630	18.6	62.2	SMS1	2,5, IR 8		25								
6	15	1051	18.5	63.8	AF	3/20	24	20	378M	1007		26	25			LARGE CENTER CALM AREA.
7	15	1130	17.7	65.1	SMS1	2,5,VSBL 2		25								
8	15	1344	19.0	64.3	AF	5/10	35	30	354M	1007						
9	15	1830	19.1	65.1	SMS1	1,3,VSBL 4		25								
10	15	2145	19.4	65.1	AF	5/10	40	35	247M	1007		26	25			
11	16	0030	19.1	65.6	SMS1	1,5, IR 8		30								
12	16	0630	19.2	66.2	SMS1	2,5, IR 8		35								
13	16	0935	19.3	67.3	AF	5/15	62		400M	1002		23	20			POOR RADAR PRESENTATION
14	16	1119	19.3	67.5	AF	5/10	36	35	410M	1003		23	21			OPEN W AND NW
15	16	1130	19.2	66.7	SMS1	1,5,VSBL 4		35								
16	16	1740	19.5	68.5	NOAA	2/5	70	75	440M	1003		24	21	E09/40/20		POORLY DEFINED
17	16	1800	19.5	68.6	SMS1	5,VSBL 4										
18	16	1830	19.6	68.8	SMS1	2,5,VSBL 4		35								
19	16	1937	19.6	68.7	NOAA	2/2	70	70		997		25	25	C	40	POORLY DEFINED
20	16	2140	19.6	68.8	NOAA	2/2	75	75				24	24	C	40	POORLY DEFINED
21	16	2330	19.8	69.5	SMS1	6, IR 8										
22	16	2340	19.6	68.9	AF	5/5	55	45	439M	1001		25	23	C	20	OPEN NW
23	17	0030	19.8	69.6	SMS1	2,6, IR 8		45								
24	17	0055	19.6	69.2	AF	3/15	78	70	411M				24			BY CIRCUMNAVIGATION
25	17	0600	19.8	69.7	SMS1	6, IR 8										
26	17	0630	19.8	69.7	SMS1	2,5, IR 8		45								
27	17	1800	19.9	72.1	SMS1	5,VSBL 4										
28	17	1849	19.9	72.7	NOAA		55		400M							BY CIRCUMNAVIATION
29	17	2330	20.0	73.4	SMS1	5, IR 8										
30	18	0027	20.0	73.1	GUANTANAMO RADAR										15	EYE POORLY DEFINED - OPEN W CLOSED E
31	18	0030	20.1	73.5	SMS1	2,5, IR 8		45								
32	18	0139	20.2	73.5	GUANTANAMO RADAR									C	13	
33	18	0630	20.0	74.7	SMS1	2,5, IR 8		45								
34	18	1200	19.5	75.7	SMS1	2,5,VSBL 4		45								
35	18	1435	19.9	77.3	AF											BY CIRCUMNAVIGATION

ELOISE CONTINUED

Table 5. (continued)

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. E-ELIP.	EYE DIA. N.MI.	REMARKS
36	18	1730	19.5	76.4	SMS1	5,VSBL 4										
37	18	1830	19.6	77.1	SMS1	1,3,VSBL 4		45								
38	19	0030	19.0	77.5	SMS1	2,5, IR 8		45								
39	19	0630	19.5	78.9	SMS1	2,4, IR 8		45								
40	19	1200	19.8	80.1	SMS1	5,VSBL 4										
41	19	1520	19.6	79.9	AF				219M	1010					3	WIND EYE 3 N.MI.
42	19	1705	19.3	80.7	AF	1/15	35	35	213M	1011		21	23		30	
43	19	1800	20.2	81.0	SMS1	5,VSBL 4										
44	19	1830	20.2	81.1	SMS1	2,5,VSBL 2		35								
45	20	0030	20.2	82.5	SMS1	2,5, IR 8		35								
46	20	0630	20.3	84.0	SMS1	2,5, IR 8		40								
47	20	1200	20.5	84.5	AF	10/10	18		323M	1005		25	24	E/27/22/XX		
48	20	1230	20.0	84.8	SMS1	2,5,VSBL 2		45								
49	20	1431	19.4	85.0	AF	10/10	20	18	323M	1006		24	24			
50	20	1715	19.4	85.4	AF	10/10	21	18	332M	1006		24	24			
51	20	1750	19.7	85.4	AF	10/10	18	18	311M	1006		23				
52	20	1800	19.7	85.8	SMS1	5,VSBL 2										
53	20	1830	19.6	85.8	SMS1	2,5,VSBL 2		40								
54	21	0030	20.5	86.3	AF	1/20		25	491M	1001		23	23		60	
55	21	0030	19.9	86.2	SMS1	2,5, IR 8		40								
56	21	0600	20.0	86.3	SMS1	5, IR 8										
57	21	0630	20.3	86.8	SMS1	2,5, IR 8		40								
58	21	1230	20.9	86.7	SMS1	2,5, IR 8		35								
59	21	1602	22.1	88.4	AF	3/5		30	509M	995		23	21	C	30	
60	21	1735	22.4	88.4	AF	3/5	30	30	512M			24	23			
61	21	1800	22.3	88.4	SMS1	3,VSBL 1										
62	21	1830	22.6	88.5	SMS1	2,3,VSBL 4		40								
63	22	0001	23.7	88.9	SMS1	3, IR 8										
64	22	0015	23.5	88.9	AF		45		287M	996						
65	22	0030	23.7	88.9	SMS1	1,3, IR 8		45								
66	22	0137	23.9	89.2	AF	10/5	40		469M	997		24				
67	22	0330	24.4	89.3	AF	3/10	42		466M	998		24				POORLY DEFINED
68	22	0505	24.7	89.4	AF	3/5	50		585M	993		24			30	CLOSED WALL
69	22	0600	24.7	89.1	SMS1	5, IR 8										
70	22	0630	24.7	89.1	SMS1	1,5, IR 8		55								
71	22	1033	25.7	89.6	AF	2/2			700MB	985	2966	13	12			NEGATIVE EYE
72	22	1200	25.9	89.5	AF	2/2	38	70	700MB	987	2969	14		E27/50/40		WALL CLD FORMING N-E
73	22	1230	25.4	90.0	SMS1	1,3,VSBL 4		65								
74	22	1400	26.2	89.5	AF				700MB		2966					
75	22	1500	26.2	89.6	AF	7/3	52	80	700MB	984	2968	14	10		50	WALL CLD N-E
76	22	1530	26.3	89.6	SMS1	1,1,VSBL 4		77								
77	22	1710	26.8	89.4	AF											
78	22	1710	26.3	89.4	AF	5/2	60	100	677M			23				NEGATIVE EYE (CORRECTED)
79	22	1800	26.5	89.5	SMS1	1,VSBL 1										
80	22	1830	26.8	89.3	SMS1	1,3,VSBL 4		83								
81	22	2053	27.0	89.1	NOAA	5/5	109	110	440M	977		24	22		35	WELL DEFINED
82	22	2205	27.2	88.8	NPA RADAR											

ELOISE CONTINUED

Table 5. (continued)

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. DIA. E-ELIP. N.MI.	REMARKS
83	22	2210	27.2	88.1	SIL RADAR										15°SPRL OVERLAY CENTER
84	22	2230	27.2	88.8	SMS1	1,1,VSBL 4		83							
85	22	2235	27.5	89.3	NPA RADAR										
86	22	2235	27.2	89.0	SIL RADAR										15° SPRL OVERLAY CENTER
87	22	2304	27.4	88.9	NPA RADAR										
88	22	2310	27.1	89.1	SIL RADAR										15° SPRL OVERLAY CENTER
89	22	2317	27.2	88.6	NOAA	2/2	113	110	300M	968		25	24	E09/40/30	CLOSED WALL
90	22	2331	27.3	88.8	NPA RADAR									E07/60/40	POOR
91	22	2335	27.0	89.0	SIL RADAR										15° SPRL OVERLAY CENTER
92	22	2345	27.3	88.7	NOAA										
93	23	0001	27.3	88.5	SMS1	1, IR 8									
94	23	0005	27.4	88.8	NPA RADAR									E05/60/45	
95	23	0010	27.1	88.6	SIL RADAR										PSBL CENTER
96	23	0030	27.3	88.3	SMS1	1,1, IR 8		90							
97	23	0031	27.3	88.5	SIL RADAR										PSBL CENTER
98	23	0035	27.5	88.6	NPA RADAR									E05/60/45	
99	23	0104	27.4	88.4	NOAA	2/2	130		300M	967		24	22	E09/40/30	CLOSED WALL
100	23	0108	27.5	88.4	NPA RADAR									E09/55/45	POOR
101	23	0135	27.5	88.4	NPA RADAR										PSBL EYE
102	23	0135	27.3	88.4	SIL RADAR										15° SPRL OVERLAY CENTER
103	23	0209	27.6	88.3	NPA RADAR									C 45	GOOD
104	23	0210	27.4	88.2	SIL RADAR										15° SPRL OVERLAY CENTER
105	23	0232	27.4	88.2	SIL RADAR										15° SPRL OVERLAY CENTER
106	23	0233	27.6	88.3	NPA RADAR									E	FAIR. EYE CLOSED
107	23	0245	27.9	89.0	AF	5/5	142		700MB	960	2795	17	12	C 20	CLOSED WALL
108	23	0310	27.7	88.2	NPA RADAR									E	FAIR. EYE CLOSED
109	23	0310	27.6	87.9	SIL RADAR										15° SPRL OVERLAY CENTER
110	23	0320	28.0	87.9	AF				700MB		2813				
111	23	0330	27.7	87.7	SMS1	1,1, IR 8		102							
112	23	0332	27.8	88.0	NPA RADAR									C 40	GOOD. EYE CLOSED.
113	23	0332	27.7	88.2	SIL RADAR										15° SPRL OVERLAY CENTER
114	23	0410	27.8	88.8	SIL RADAR										15° SPRL OVERLAY CENTER
115	23	0410	28.0	87.9	NPA RADAR									E32/40/35	
116	23	0432	28.1	87.9	SIL RADAR										POOR. SPRL CENTER
117	23	0432	27.9	87.8	AQQ RADAR										SPRL CENTER
118	23	0437	28.8	87.8	NPA RADAR									E29/40/35	FAIR
119	23	0502	28.3	87.5	AF	5/5	90		700MB	963	2783	16	9	C 20	CLOSED WALL
120	23	0505	28.1	87.6	AQQ RADAR										10°SPRL OVERLAY
121	23	0507	28.1	87.6	NPA RADAR									E32/35/30	FAIR. EYE CLOSED
122	23	0509	28.1	87.5	SIL RADAR										15° SPRL OVERLAY CENTER
123	23	0531	28.2	87.6	NPA RADAR									E32/38/30	FAIR. EYE CLOSED
124	23	0531	28.2	87.5	AQQ RADAR										GOOD
125	23	0534	28.1	88.6	SIL RADAR										15° SPRL OVERLAY CENTER
126	23	0558	28.3	87.5	NPA RADAR									E32/33/30	FAIR. EYE CLOSED
127	23	0600	28.2	87.1	SMS1	2, IR 8									
128	23	0606	28.3	87.4	AQQ RADAR										FAIR

ELOISE CONTINUED

Table 5. (continued)

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND (KT) FLT. LVL.	MAX WIND (KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT(M)	TEMP (°C) IN.	TEMP (°C) OUT.	EYE C=CIR. E-ELIP.	EYE DIA. N.MI.	REMARKS
129	23	0606	28.6	87.3	AF	5/5	120		700MB	961	2755	16	12	C	15	WALL
130	23	0608	28.2	87.3	SIL RADAR											
131	23	0630	28.3	87.2	SMS1	1,2, IR 8		102								
132	23	0631	28.4	87.3	SIL RADAR											FAIR
133	23	0633	28.4	87.3	NPA RADAR									E	32/33/30	FAIR. EYE CLOSED
134	23	0635	28.5	87.3	AQQ RADAR											FAIR
135	23	0655	28.6	87.3	AF	5/5	65		700MB	958	2724	18	13	C	10	CLOSED WALL
136	23	0706	28.6	87.2	NPA RADAR									E	32/33/28	FAIR. CLOSED EYE
137	23	0710	28.6	87.1	AQQ RADAR											
138	23	0711	28.7	87.3	SIL RADAR											FAIR
139	23	0731	28.6	87.2	SIL RADAR											FAIR
140	23	0735	28.8	87.1	NPA RADAR									E	29/33/23	FAIR. EYE CLOSED
141	23	0755	28.8	87.1	AQQ RADAR											10° SPRL OVERLAY EYE
142	23	0801	28.9	87.0	NPA RADAR									E	34/27/24	FAIR. EYE CLOSED
143	23	0809	28.8	87.0	SIL RADAR											FAIR
144	23	0821	29.3	86.9	AF	10/5	112		700MB	957	2737	18	10	C	10	CLOSED WALL
145	23	0832	28.9	86.9	SIL RADAR											FAIR
146	23	0838	29.1	86.9	NPA RADAR									E	04/28/26	FAIR. EYE CLOSED
147	23	0845	29.1	86.8	AQQ RADAR									C		GOOD
148	23	0900	29.2	86.8	NPA RADAR									E	36/29/23	FAIR. EYE CLOSED
149	23	0904	29.2	86.8	SIL RADAR											FAIR
150	23	0904	29.3	86.8	AF	10/5	95		700MB	957	2743	19	12	C	10	CLOSED WALL
151	23	0910	29.3	86.8	AQQ RADAR										28	GOOD. EYE CLOSED
152	23	0929	29.2	86.8	SIL RADAR											FAIR
153	23	0931	29.3	86.8	NPA RADAR									C	24	
154	23	0933	29.5	86.7	AQQ RADAR											GOOD. OPEN SW
155	23	0939	29.6	86.8	AF	20/5			700MB	959	2728	17		C	10	CLOSED WALL
156	23	1004	29.5	86.6	NPA RADAR									E	04/25/23	FAIR
157	23	1009	29.6	86.6	SIL RADAR											GOOD. OPEN S
158	23	1009	29.6	86.6	AQQ RADAR											GOOD. OPEN S
159	23	1019	29.9	86.8	AF	5/5	108		700MB		2731	19	13	C	10	CLOSED WALL
160	23	1029	29.7	86.5	SIL RADAR											GOOD
161	23	1032	29.8	86.5	AQQ RADAR											OPEN S
162	23	1033	29.7	86.5	NPA RADAR									C	20	
163	23	1058	29.9	86.4	NPA RADAR									E	27/25/20	FAIR
164	23	1104	30.1	86.6	AF	1/1	115	110	700MB	961	2749	21	11	C	30	CLOSED WALL
165	23	1105	29.9	86.4	SIL RADAR											GOOD
166	23	1109	30.0	86.6	AQQ RADAR										24	GOOD. OPEN SE
167	23	1130	30.2	86.3	SIL RADAR											FAIR
168	23	1132	30.1	86.4	AQQ RADAR											GOOD. OPEN SE
169	23	1134	30.1	86.3	NPA RADAR									C	20	GOOD
170	23	1134	30.2	86.5	AF				700MB		2746					
171	23	1201	30.3	86.2	NPA RADAR									E	27/20/13	LANDFALL. FAIR. EYE FILLING
172	23	1202	30.3	86.5	AF	1/1		60	700MB			20		C	30	CLOSED WALL
173	23	1210	30.3	86.3	AQQ RADAR											GOOD. OPEN SE
174	23	1230	30.3	86.0	SMS1	1,1,VSBL 4		102								

ELOISE CONTINUED

Table 5. (continued)

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. E-ELIP.	EYE DIA. N.MI.	REMARKS
175	23	1231	30.4	86.2	NPA RADAR									E36/25/20		FAIR
176	23	1234	30.6	86.2	AQQ RADAR											GOOD. OPEN SE
177	23	1259	30.8	86.3	AF	1/3								C	40	OPEN S
178	23	1303	30.8	85.7	NPA RADAR										25	GOOD
179	23	1307	30.8	86.2	AQQ RADAR											POOR. EYE OPEN SE/SW
180	23	1330	30.9	86.3	CKL RADAR										25	GOOD. OPEN SW
181	23	1332	31.0	86.1	AQQ RADAR											FAIR. OPEN SW
182	23	1334	31.0	86.9	NPA RADAR										25	FAIR. EYE FILLING RAPIDLY
183	23	1403	31.2	86.0	NPA RADAR									E	25	FAIR. OPEN S
184	23	1406	31.3	86.1	AQQ RADAR									E	18	GOOD
185	23	1409	31.1	86.0	CKL RADAR											GOOD
186	23	1431	31.5	86.0	AQQ RADAR										16	GOOD
187	23	1432	31.2	86.0	CKL RADAR										30	GOOD
188	23	1435	31.2	86.0	NPA RADAR										25	FAIR.OPEN S. EYE FILLING
189	23	1501	31.5	86.0	NPA RADAR											POOR. EYE FILLING RAPIDLY
190	23	1504	31.5	86.0	CKL RADAR											POOR
191	23	1510	31.7	85.9	AQQ RADAR											POOR
192	23	1531	31.8	85.9	AQQ RADAR											POOR. EYE FILLING RAPIDLY
193	23	1534	31.8	85.9	NPA RADAR											PSBLY LAST CENTER FIX
194	23	1559	32.1	85.6	NPA RADAR											
195	23	1606	32.2	85.9	AQQ RADAR											
196	23	1633	32.4	85.5	NPA RADAR											PSBL CENTER
197	23	1634	32.2	85.8	CKL RADAR											POOR
198	23	1708	32.3	85.7	CKL RADAR											POOR
199	23	1735	32.6	85.7	WRB RADAR											POOR
200	23	1810	33.1	85.7	CKL RADAR											POOR

Table 5. (continued)

HURRICANE FAYE

18 - 29 SEPTEMBER 1975

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. DIA. E=ELIP. N.MI.	REMARKS
1	18	0600	17.5	33.5	SMS1	2,5,IR 8		25							
2	18	1200	17.3	34.4	SMS1	1,5,VSBL 4		25							
3	18	1730	18.3	35.0	SMS1	5,VSBL 4									
4	18	1830	17.9	35.8	SMS1	2,5,VSBL 4		25							
5	19	0000	18.6	36.7	SMS1	2,5, IR 8		25							
6	19	0600	19.2	38.0	SMS1	2,5, IR 8		35							
7	19	1200	20.1	39.2	SMS1	3,VSBL 4									
8	19	1800	19.0	41.8	SMS1	3,VSBL 4									
9	19	1830	19.1	41.8	SMS1	2,3,VSBL 2		40							
10	20	0000	20.0	41.5	SMS1	2,5, IR 8		40							
11	20	0600	20.4	42.8	SMS1	2,5, IR 8		40							
12	20	1230	20.0	44.4	SMS1	1,3,VSBL 2		40							
13	20	1800	20.3	45.2	SMS1	VSBL 2									
14	20	1830	20.2	45.5	SMS1	1,3,VSBL 2		40							
15	21	0000	20.3	46.0	SMS1	2,5, IR 8		40							
16	21	0600	20.7	47.0	SMS1	2,5, IR 8		40							
17	21	1230	20.3	48.0	SMS1	2,3,VSBL 4		40							
18	21	1800	20.4	48.7	SMS1	3,VSBL 4									
19	21	1830	20.6	48.8	SMS1	1,3,VSBL 4		35							
20	22	0030	20.8	48.9	SMS1	1,3, IR 8		35							
21	22	0600	20.8	50.0	SMS1	5, IR 8									
22	22	0630	20.8	50.0	SMS1	1,5, IR 8		35							
23	22	1230	20.6	50.7	SMS1	2,3,VSBL 4		35							
24	22	1800	20.5	51.5	SMS1	3,VSBL 4									
25	22	1830	20.5	51.6	SMS1	1,3,VSBL 4		35							
26	23	0001	20.0	52.0	SMS1	3, IR 8									
27	23	0030	20.0	52.1	SMS1	1,3, IR 8		35							
28	23	0600	20.3	53.5	SMS1	5, IR 8									
29	23	0630	20.3	53.5	SMS1	1,5, IR 8		35							
30	23	1130	21.0	54.5	SMS1	5,VSBL 4									
31	23	1200	20.5	54.5	SMS1	1,5,VSBL 4		30							
32	23	1800	20.5	56.0	SMS1	3,VSBL 4									
33	23	1830	20.8	55.8	SMS1	1,3,VSBL 4		30							
34	24	0030	20.8	56.5	SMS1	1,5, IR 8		30							
35	24	0630	21.0	57.0	SMS1	1,5, IR 8		25							
36	24	1130	22.0	57.5	SMS1	5,VSBL 4		25							

FAYE CONTINUED

Table 5. (continued)

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. DIA. E=ELIP. N.MI.	REMARKS
37	24	1830	23.0	57.0	SMS1	5,VSBL 4									
38	24	1830	22.4	57.0	SMS1	2,5,VSBL 4		30							
39	24	2015	23.3	56.8	AF	25/5	23	20	326M	1005		24	23	C 15	
40	25	0001	23.4	56.9	SMS1	3, IR 8									
41	25	0030	23.5	56.8	SMS1	1,3, IR 8		30							
42	25	0600	24.8	58.3	SMS1	3, IR 8									
43	25	0630	24.8	58.3	SMS1	1,3, IR 8		30							
44	25	1130	25.2	59.0	SMS1	5,VSBL 4									
45	25	1130	25.0	58.8	SMS1	1,3,VSBL 4		35							
46	25	1215	24.9	59.0	AF	5/5	35	45	351M	999		23			NEGATIVE EYE
47	25	1430	25.2	59.2	AF				323M	997					
48	25	1715	25.3	59.5	AF	1/5	40	50	158M	993		23	21	C 30	OPEN S
49	25	1730	25.4	59.8	SMS1	5,VSBL 4									
50	25	1830	25.6	59.8	SMS1	2,3,VSBL 4		45							
51	26	0001	26.8	60.3	SMS1	3, IR 8									
52	26	0030	26.8	60.3	SMS1	1,3, IR 8		55							
53	26	0120	26.9	60.2	AF	10/3	40		700MB	990	2996	13	10		
54	26	0435	27.5	60.7	AF				341M	991					
55	26	0600	27.4	60.8	SMS1	5, IR 8									
56	26	0601	27.8	60.9	AF	3/5	60		518M	988		25	22	E 01/15/5	CLOSED WALL
57	26	0630	27.6	60.8	SMS1	1,5, IR 8		55							
58	26	0730	28.2	61.1	AF				700MB		2984				
59	26	0829	28.4	61.4	AF	3/5	60		700MB		2972	10	7	E 03/15/10	CLOSED WALL
60	26	1116	29.4	62.2	AF	7/10	65	80	700MB		2969	15	14	C 30	WALL CLOUD INTENSIFYING
61	26	1130	29.5	61.7	SMS1	5,VSBL 4									
62	26	1200	29.5	61.7	SMS1	2,5,VSBL 4		55							
63	26	1245	29.6	62.2	AF		65			988	2975				WALL CLOUD FRMG
64	26	1419	30.0	62.6	AF	5/5	72	90		985	2957	14	14	20	EYE BECOMING TIGHTER
65	26	1530	30.3	62.8	AF			90		985	2941				
66	26	1730	31.1	63.1	SMS1	3,VSBL 4									
67	26	1830	31.2	63.1	SMS1	2,3,VSBL 4		65							
68	26	1845	30.8	63.8	BERMUDA RADAR										APPARENT EYE
69	26	1945	31.4	63.6	BERMUDA RADAR										APPARENT EYE
70	26	2015	31.6	63.7	BERMUDA RADAR										APPARENT EYE
71	26	2045	31.7	63.9	BERMUDA RADAR										APPARENT EYE
72	26	2145	31.9	64.1	BERMUDA RADAR										APPARENT EYE
73	26	2215	31.9	64.2	BERMUDA RADAR										APPARENT EYE
74	26	2245	32.2	64.2	BERMUDA RADAR										APPARENT EYE
75	26	2309	32.4	64.0	AF		65		700MB		2914				
76	26	2315	32.5	63.9	BERMUDA RADAR										APPARENT EYE
77	26	2345	32.6	64.1	BERMUDA RADAR										APPARENT EYE
78	27	0001	32.9	64.2	SMS1	3, IR 8									
79	27	0020	32.7	64.3	AF	1/5	90		700MB	981		14	12	C 25	WALL CLD N-E
80	27	0030	32.8	64.0	SMS1	1,3, IR 8									
81	27	0045	32.8	64.3											APPARENT EYE
82	27	0050	32.9	64.4	AF				700MB						
83	27	0115	32.5	64.6	BERMUDA RADAR										APPARENT EYE
84	27	0317	33.5	65.0	AF	5/5				986		13	10		
85	27	0453	34.1	65.3	AF										
86	27	0605	34.5	65.3		10/5				984		14	12		

FAYE CONTINUED

Table 5. (continued)

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. DIA. E=ELIP. N.MI.	REMARKS
87	27	0700	35.1	65.1	SMS1	2,3, IR 8		77							
88	27	0835	35.1	65.4	AF	2/1			700MB	979	2911	15	14	C 40	
89	27	1100	35.7	65.7	AF	2/2	50	40	700MB	982	2923	14	13	C 40	NEGATIVE EYE
90	27	1130	35.9	65.6	SMS1	2,5,VSBL 4		65							
91	27	1600	37.0	65.4	SMS1	3,VSBL 4									
92	27	1830	37.4	65.0	SMS1	2,3,VSBL 2		65							
93	27	1830	37.7	65.0	AF	5/5	50	40	700MB	985	2955	12	8		NO VISUAL EYE
94	27	2010	37.8	64.6	AF	5/5	50	55	700MB	983	2941	13	9		POORLY DEFINED
95	28	0001	38.6	63.5	SMS1	3, IR 8									
96	28	0030	38.7	63.4	SMS1	2,3, IR 8		77							
97	28	0600	39.4	60.5	SMS1	3, IR 8									
98	28	0630	39.9	60.2	SMS1	2,3, IR 8		70							
99	28	1130	40.8	56.6	SMS1	1,1,VSBL 4		70							
100	28	1223	41.2	57.0	AF	5/5	80	75	700MB	979	2880	16	14		NO EYE WALL
101	28	1420	41.2	55.8	AF	10/5	66	50	700MB	977	2813	17	12		NO EYE WALL
102	28	1800	42.3	51.5	SMS1	5,VSBL 4									
103	28	1830	42.5	51.4	SMS1	2,5,VSBL 4		65							
104	29	0001	42.9	45.5	SMS1	5, IR 8									
105	29	0030	42.7	45.1	SMS1	2,5, IR 8		70							
106	29	0600	42.5	41.5	SMS1	5, IR 8									
107	29	0630	43.0	40.8	SMS1	5, IR 8									

Table 5. (continued)

HURRICANE GLADYS

22 SEPTEMBER - 3 OCTOBER 1975

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. E=ELIP.	EYE DIA. N.MI.	REMARKS
1	22	1730	10.4	34.8	SMS1	1,5,VSBL 4		25								
2	23	0030	10.3	36.0	SMS1	1,5, IR 8		25								
3	23	0630	10.8	37.0	SMS1	2,5, IR 8		25								
4	23	1130	11.7	37.3	SMS1	3,VSBL 4										
5	23	1200	11.5	37.4	SMS1	2,3,VSBL 4		25								
6	23	1900	12.4	38.2	SMS1	1,3,VSBL 4		35								
7	24	0030	12.0	39.0	SMS1	1,5, IR 8		35								
8	24	0630	12.5	39.7	SMS1	1,3, IR 8		35								
9	24	1130	12.6	39.8	SMS1	2,5,VSBL 4		35								
10	24	1800	13.4	40.4	SMS1	2,5,VSBL 4		45								
11	25	0030	14.2	41.0	SMS1	1,3, IR 8		55								
12	25	0630	15.3	42.0	SMS1	1,3, IR 8		55								
13	25	1130	15.3	43.1	SMS1	1,1,VSBL 4		60								
14	25	1730	16.1	44.5	SMS1	1,VSBL 4										
15	25	1800	16.1	44.7	SMS1	2,1,VSBL 4		70								
16	26	0030	16.3	45.0	SMS1	2,3, IR 8		70								
17	26	0600	16.2	46.2	SMS1	5, IR 8										
18	26	0630	16.3	46.3	SMS1	2,5, IR 8		70								
19	26	1130	16.6	47.5	SMS1	3,VSBL 4										
20	26	1200	16.8	47.8	SMS1	2,3,VSBL 4		65								
21	26	1800	17.0	49.6	SMS1	1,5,VSBL 4		65								
22	27	0030	17.2	50.7	SMS1	2,5, IR 8		65								
23	27	0700	17.5	52.8	SMS1	1,5, IR 8		55								
24	27	1130	18.2	53.6	SMS1	1,5,VSBL 2		55								
25	27	1600	18.3	54.3	SMS1	3,VSBL 4										
26	27	1750	19.0	55.2	AF		60	100	546M	989						RADAR PRESENT. EXCELLENT
27	27	1800	18.4	54.7	SMS1	1,3,VSBL 2		65								
28	27	1816	19.4	55.3	AF	15/3	60	105	700MB	989	3011	15	12	C	5	CLOSED WALL
29	27	1934	19.5	55.6	AF				700MB	994	3039					
30	27	2205	19.9	55.7	AF	10/10	50	65	700MB	996	3060	17	10	C	10	CLOSED WALL
31	27	2316	20.0	55.9	AF				700MB	992	3021					
32	28	0030	19.5	56.4	SMS1	2,5, IR 8		65								
33	28	0600	19.3	57.6	SMS1	5, IR 8										
34	28	0630	19.6	58.0	SMS1	2,5, IR 8		65								
35	28	1130	19.8	58.7	SMS1	1,3,VSBL 4		55								
36	28	1205	19.7	58.2	AF	5/5	35	40	700MB	1001	3100	10				APRNT WALL CLD W-N
37	28	1418	19.8	58.3	AF		30		70 MB	1000	3091					
38	28	1705	20.2	59.2	AF	5/5	55	80	700MB	998	3088	13	10	C	20	CLOSED WALL
39	28	1830	20.4	59.5	SMS1	1,5,VSBL 4		65								

Table 5. (continued)

GLADYS CONTINUED

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. E=ELIP.	EYE DIA. N.MI.	REMARKS
88	02	0000	30.8	72.9	SMS1	1, IR 8										
89	02	0030	31.0	72.9	SMS1	1,1, IR 8		95								
90	02	0200	31.4	72.8	SMS1	1, IR 8										
91	02	0330	31.8	72.6	SMS1	1, IR 8										
92	02	0618	32.9	72.2	AF	10/3	168		700MB	942	2605	18	9	C	12	CLOSED WALL
93	02	0630	32.9	72.1	SMS1	2,1, IR 8		115								
94	02	0827	33.8	71.4	HATTERAS RADAR											GOOD
95	02	0846	33.8	71.5	AF	10/3	163		700MB	939	2557	19	10		12	CLOSED WALL
96	02	0859	34.0	71.2	HATTERAS RADAR											GOOD
97	02	0935	34.3	71.1	HATTERAS RADAR											GOOD
98	02	1035	34.7	70.7	HATTERAS RADAR											FAIR
99	02	1130	34.9	70.2	SMS1	1,VSBL 4										
100	02	1138	34.9	70.3	AF	2/5	169		700MB	944	2596	19	10		12	OPEN S
101	02	1200	35.0	70.1	SMS1	1,1,VSBL 4		115								
102	02	1530	36.7	68.7	AF	2/5	90	110	700MB	940	2600	23	13	E	03/20/10	OPEN S
103	02	1700	37.3	67.7	SMS1	1,VSBL 4										
104	02	1830	38.0	66.9	SMS1	1,1,VSBL 4		115								
105	02	1930	38.6	66.3	SMS1	2,VSBL 4										
106	02	2030	39.1	65.3	SMS1	1,VSBL 4										
107	02	2130	39.3	64.5	SMS1	3,VSBL 4										
108	02	2330	39.6	62.7	SMS1	5, IR 8										
109	03	0030	40.3	62.1	SMS1	2,5, IR 8		105								
110	03	0230	41.7	59.8	SMS1	5, IR 8										
111	03	0600	43.8	57.2	SMS1	3, IR 8										
112	03	0630	44.2	56.7	SMS1	2,3, IR 8		100								
113	03	1200	46.0	49.0	SMS1	3,5,VSBL 4		77								
114	03	1500	47.8	48.2	SMS1	5,VSBL 4										
115	03	1830	50.0	44.0	SMS1	5,VSBL 4										EXTRA TROPICAL

Table 5. (continued)

TROPICAL STORM HALLIE

24 - 28 OCTOBER 1975

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND(KT) FLT. LVL.	MAX WIND(KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP(°C) IN.	TEMP(°C) OUT.	EYE C=CIR. DIA. E=ELIP. N.MI.	REMARKS
1	24	1400	29.0	78.7	SMS1	2,3,VSBL 2		25-30							
2	24	1530	29.2	78.9	SMS1	3,VSBL 2									
3	24	1630	29.2	79.1	SMS1	3,VSBL 2									
4	24	1830	29.0	79.3	SMS1	2,3,VSBL 4		25-30							
5	24	1930	28.9	79.4	SMS1	3,VSBL 2									
6	24	2141	28.8	79.1	AF	4/8	30	33	351M	1006		24	24		
7	24	2349	28.6	79.2	AF	4/10	38	22	354M	1008		24	24		NO EYE
8	25	0000	28.8	79.0	SMS1	3, IR 8									NO EYE
9	25	0030	28.8	78.9	SMS1	2,3, IR 8		25-30							
10	25	0630	29.5	79.4	SMS1	2,3, IR 8		25-30							
11	25	1315	30.1	79.6	AF	5/N	40	35	232M	1006		23	21		
12	25	1330	29.9	79.7	SMS1	2,3,VSBL 2		25-30							
13	25	1600	30.4	79.7	SMS1	3,VSBL 2									
14	25	1701	30.3	79.8	AF	1/3	35	30	314M	1005		23	22		
15	25	1830	30.5	80.0	SMS1	2,3,VSBL 2		30							
16	25	1930	30.4	79.9	SMS1	3,VSBL 2									
17	25	2333	30.4	79.9	AF	8/10	30		338M			23	23		
18	26	0000	30.4	80.0	SMS1	3, IR 8									
19	26	0030	30.4	79.9	SMS1	2,3, IR 8		25-30							
20	26	0512	30.9	80.2	AF	2,3, IR 8	40	25-30	302M			24	23		
21	26	0630	30.9	80.1	SMS1										
22	26	0635	31.2	80.2	CHS RADAR										POSSIBLE CENTER
23	26	0735	31.3	80.2	CHS RADAR										POSSIBLE CENTER
24	26	0835	31.2	80.0	CHS RADAR										
25	26	0838	31.5	80.0	AF	5/8	32		338M	1006		24	23		
26	26	0935	31.3	80.0	CHS RADAR										
27	26	1035	31.2	80.0	CHS RADAR										
28	26	1121	31.8	79.8	AF	5/5	32		360M	1006					POSSIBLE CENTER
29	26	1135	31.6	79.6	CHS RADAR										
30	26	1330	31.8	79.1	SMS1	1,3,VSBL 2		35							
31	26	1401	32.0	79.4	AF	5/5	32	30	210M	1007		24	24	C	35
32	26	1800	32.4	78.8	SMS1	3,VSBL 4									
33	26	1830	32.4	78.8	SMS1	1,3,VSBL 2		35							
34	26	1912	32.7	78.6	AF	2/5	41	35	329M	1003		24	23		
35	26	2050	32.9	78.2	AF	5/5	54	40	415M	1005		23	22		
36	26	2230	33.3	78.0	CHS RADAR										NO EYE
37	26	2301	33.7	77.3	SMS1										NO VISIBLE EYE
38	26	2308	33.2	77.6	AF	5, IR 8									POSSIBLE CENTER
39	27	0001	33.9	77.1	SMS1										
40	27	0030	33.5	77.1	ILM RADAR	4, IR 8									RADAR EYE
															15° OVERLAY. FAIR

HALLIE CONTINUED

Table 5. (continued)

CENTER FIXES

FIX NO.	DATE	TIME GMT	POSITION LAT. °N	POSITION LON. °W	UNIT	CHARACTER.	MAX WIND (KT) FLT. LVL.	MAX WIND (KT) SFC.	ACFT. ALT.	MIN. PRESS. (MB)	MIN. 700MB HT.(M)	TEMP (°C) IN.	TEMP (°C) OUT.	EYE C=CIR. DIA. E=ELIP. N.MI.	REMARKS
41	27	0031	34.1	77.2	SMS1	2,4, IR 8		45							
42	27	0055	33.5	76.9	ILM RADAR										POOR
43	27	0130	33.8	76.9	ILM RADAR										POOR
44	27	0205	33.8	76.7	ILM RADAR										POOR
45	27	0235	33.8	76.5	ILM RADAR										
46	27	0310	33.9	76.5	ILM RADAR										FAIR
47	27	0310	33.9	76.9	AF										RADAR EYE. WELL DEFINED
48	27	0335	33.9	76.4	ILM RADAR										FAIR
49	27	0405	34.0	76.3	ILM RADAR										FAIR
50	27	0432	34.1	76.1	ILM RADAR										FAIR
51	27	0507	34.4	76.1	AF										RADAR EYE. WELL D
52	27	0510	34.5	76.0	ILM RADAR										
53	27	0535	34.6	75.8	ILM RADAR										FAIR
54	27	0555	34.5	75.2	HATTERAS RADAR										POOR
55	27	0600	34.6	76.0	SMS1	5, IR 8									
56	27	0625	34.7	74.9	HATTERAS RADAR										POOR
57	27	0630	34.7	75.0	SMS1	2,3, IR 8		45							
58	27	0730	35.1	74.5	HATTERAS RADAR										POOR
59	27	1100	35.7	73.7	SMS1	5, IR 8									
60	27	1232	35.9	72.6	HATTERAS RADAR										POSSIBLE CENTER
61	27	1330	35.6	73.8	SMS1	3,VSBL 2									
62	27	1630	36.2	73.3	AF	4/2	30	30	393M	1005		23	21		
63	27	1800	36.3	72.8	AF	4/2	35	30	351M	1006		23	21		
64	27	1801	36.2	72.4	SMS1	3,VSBL 2									
65	27	1830	36.4	72.3	SMS1	3,VSBL 2									
66	27	2130	36.9	71.6	AF	5/10	20	35	219M	1008		24	22		

TABLE 6.

AERIAL WEATHER RECONNAISSANCE SUMMARY FOR THE
1975 HURRICANE SEASON

	AIR FORCE	AIR FORCE RESERVES	NOAA/RFC	TOTALS
FIXES	PENETRATIONS 200	PENETRATIONS 0	PENETRATIONS 15	PENETRATIONS 215
	RADAR 4	RADAR 0	RADAR 0	RADAR 4
OBSERVATIONS	2306	0	132	2438
DROPSONDES	97	0	0	97
MISSIONS	131	0	12	143
FLYING TIME	STORM: 663.8	STORM: 0	STORM: 56.5	STORM: 720.3
	INVEST 503.4	INVEST: 0	INVEST: 0	INVEST: 503.4
	TOTAL: 1167.2	TOTAL: 0	TOTAL 56.5	TOTAL: 1223.7