

NOAA Technical Memorandum NWS NHC 4

ANNUAL DATA AND VERIFICATION TABULATION
ATLANTIC TROPICAL CYCLONES 1976

Paul J. Hebert and Staff, NHC

National Hurricane Center
Miami, Florida
May 1977

927

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 third 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 the 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 Services (NESS) Miami office, 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, 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 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 1976 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 1976 North Atlantic tropical cyclone statistics is given in Table 3. Tracks of 1976 named storms are shown in Figure 1

The best track, initial, and forecast positions for 1976 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 1976. 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 1976 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 1976 tropical cyclones are in Figure 4

Daily SMS-1 satellite photographs of 1976 named tropical cyclones are in Figure 5.

Selected radar photographs of Belle are in Figure 6.

ACKNOWLEDGMENTS

Main contributors 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. Liliias 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.

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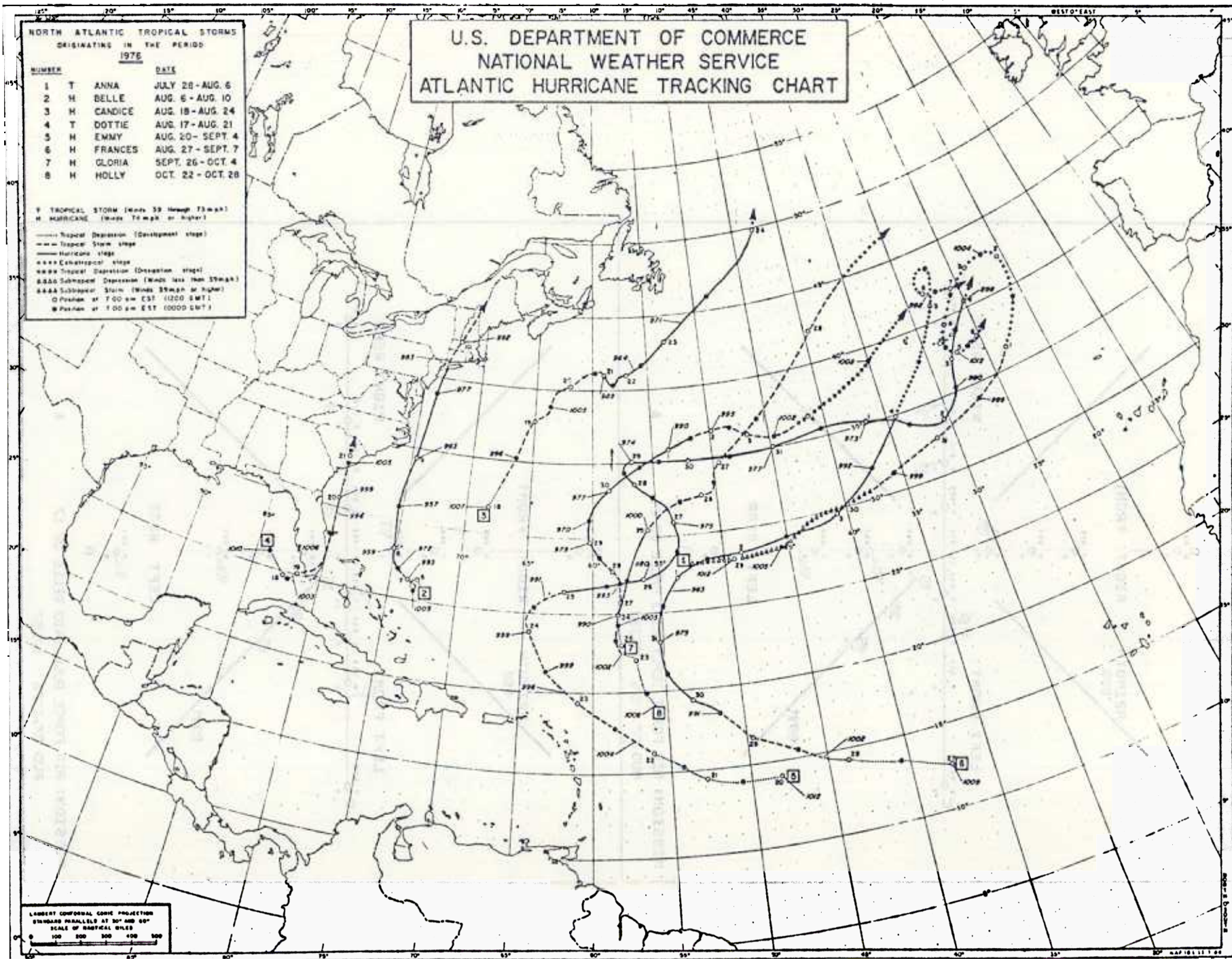


Figure 1. Tracks of 1976 tropical cyclones.

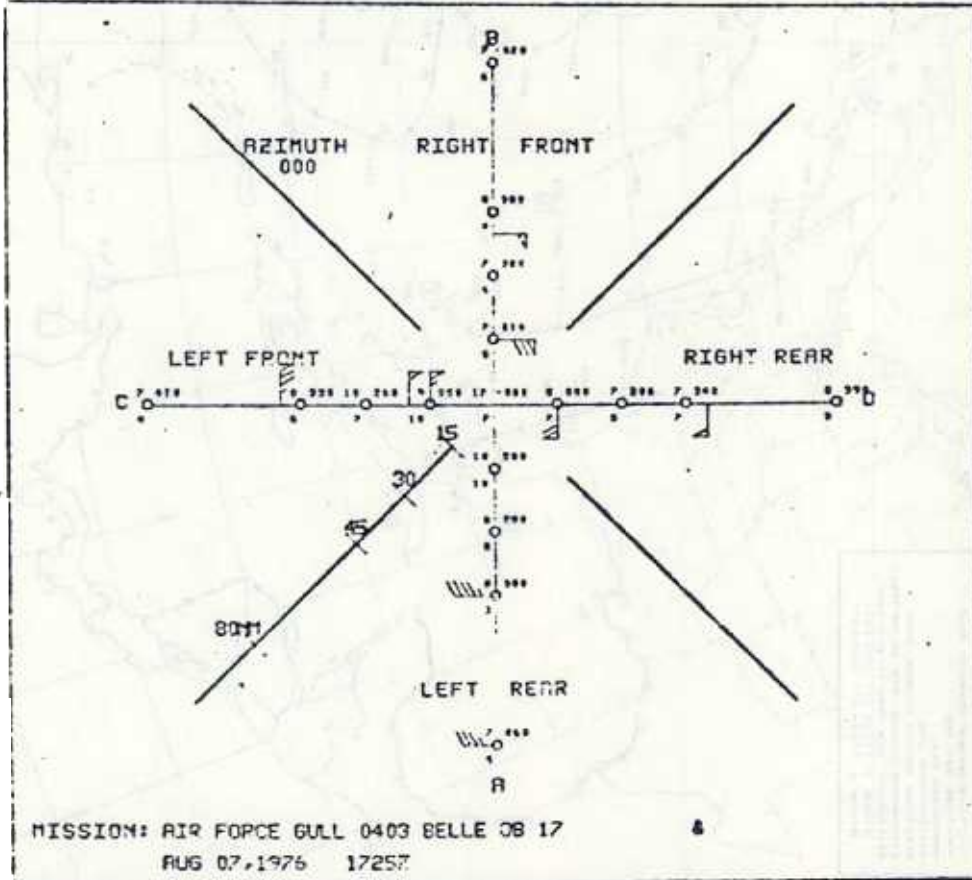
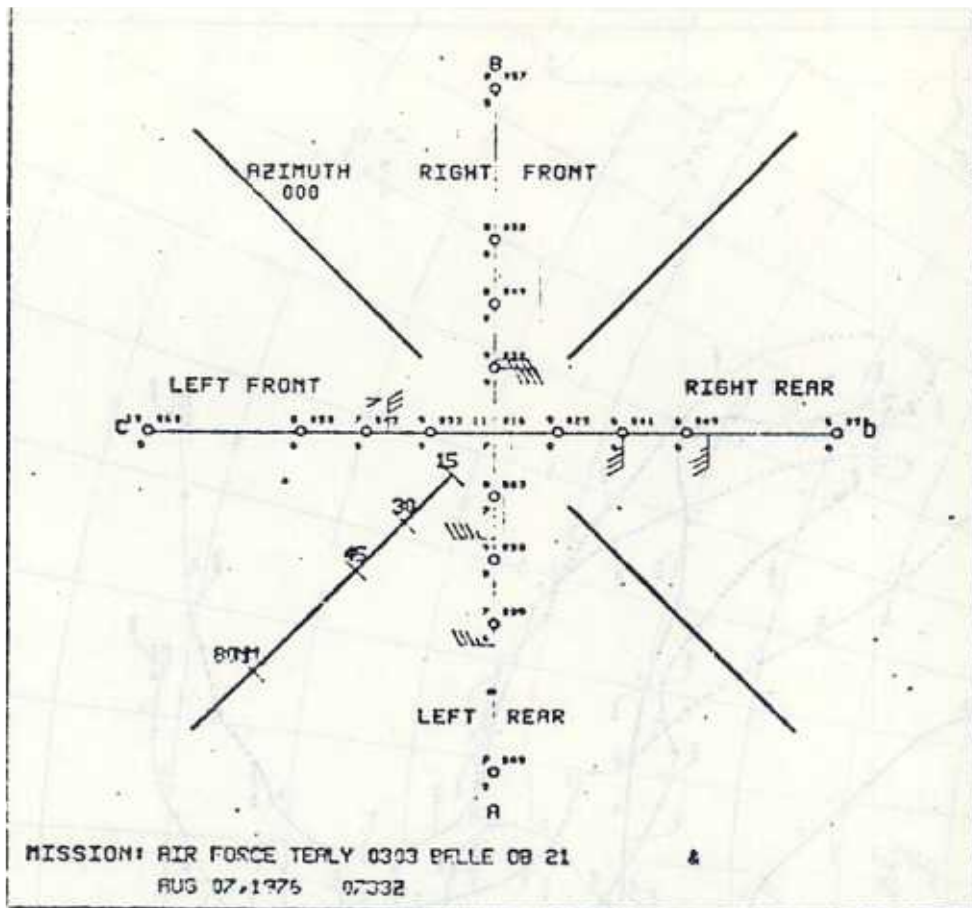


Figure 2. Vortex profiles, 1976 tropical cyclones.

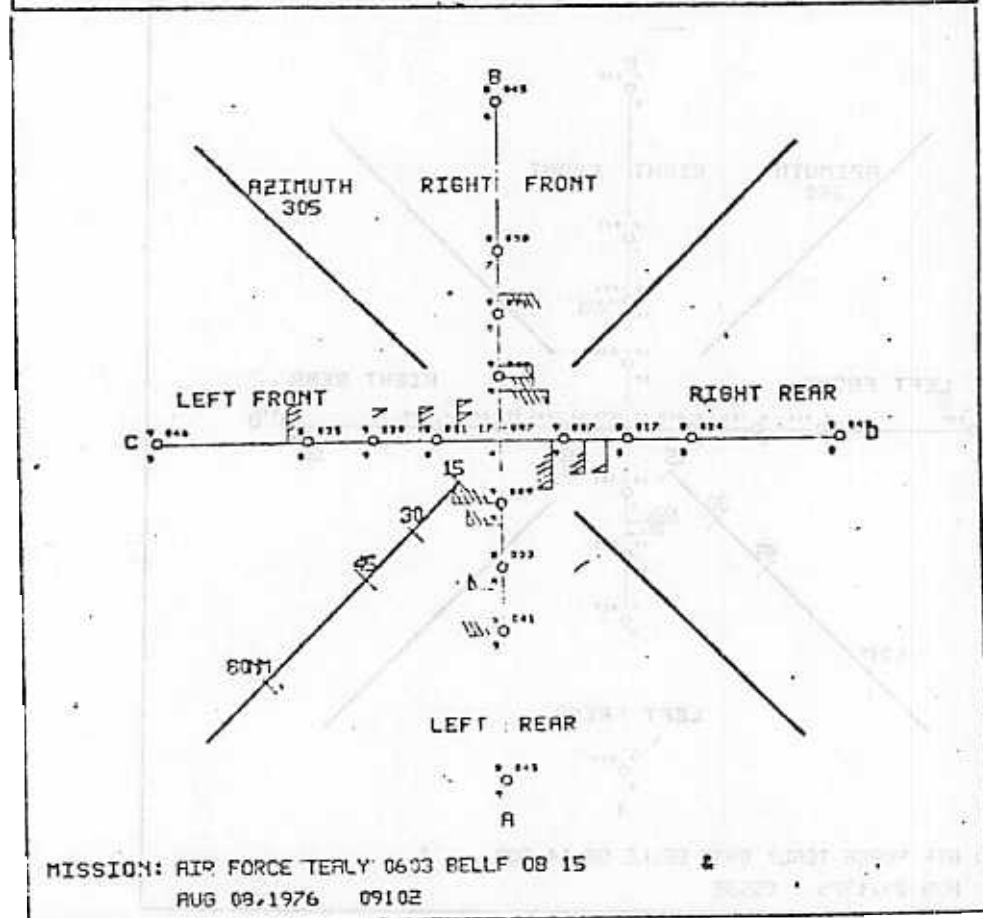
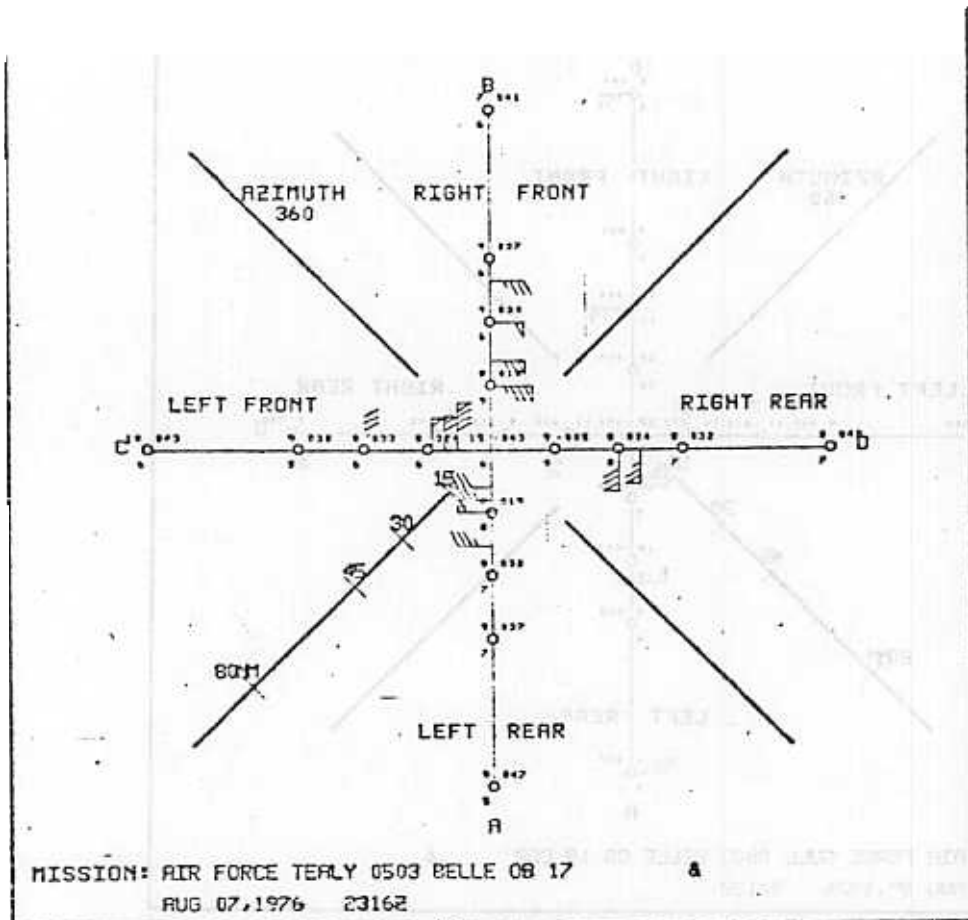
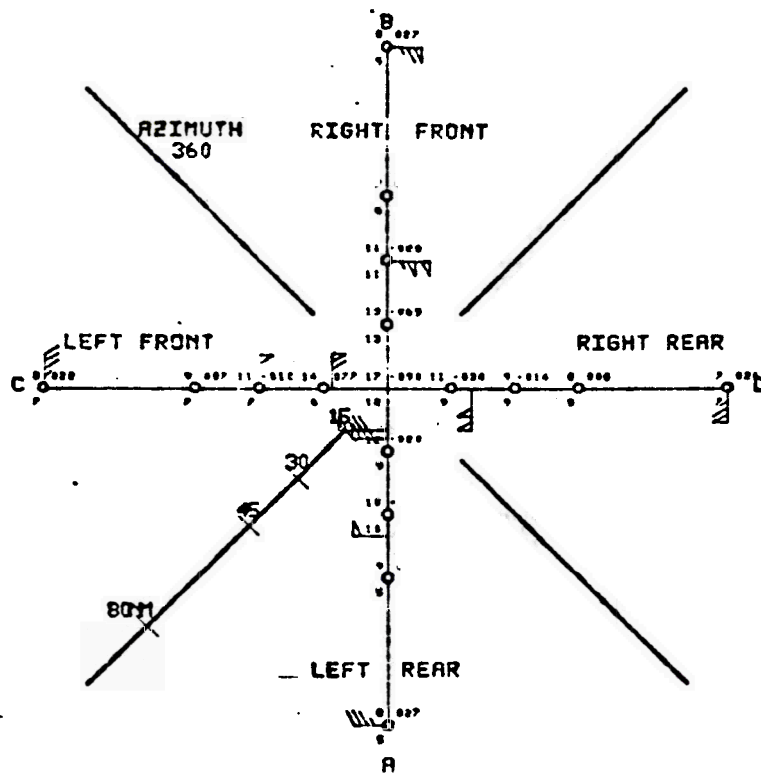
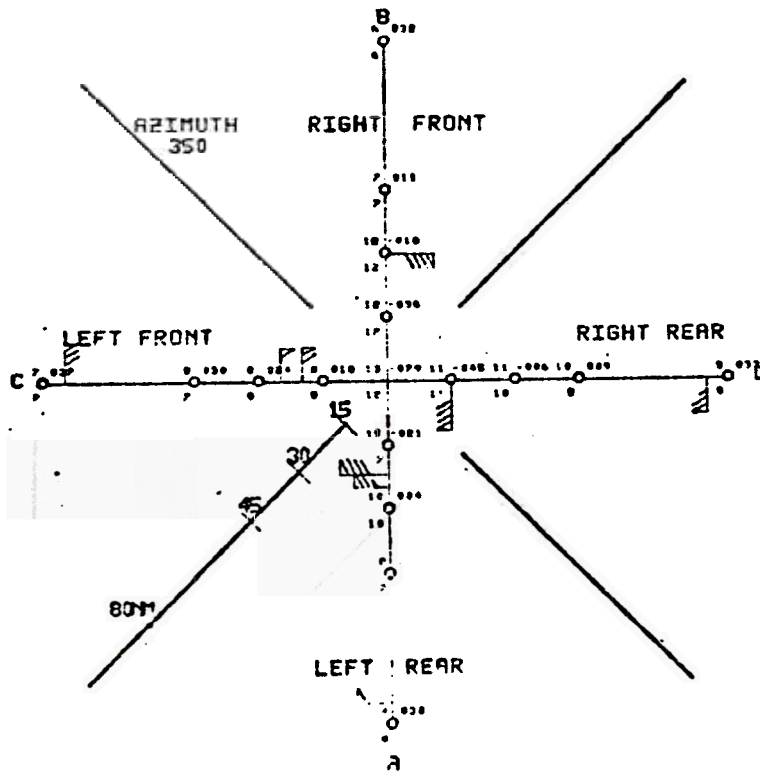


Figure 2 continued.



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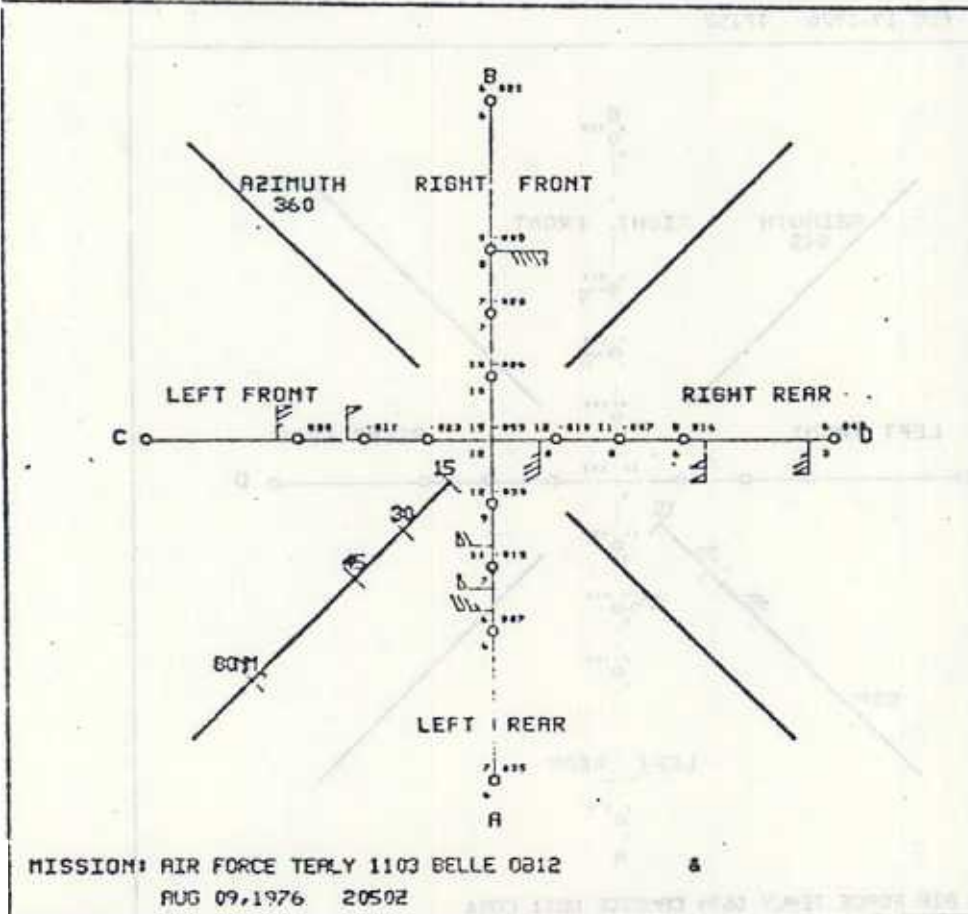
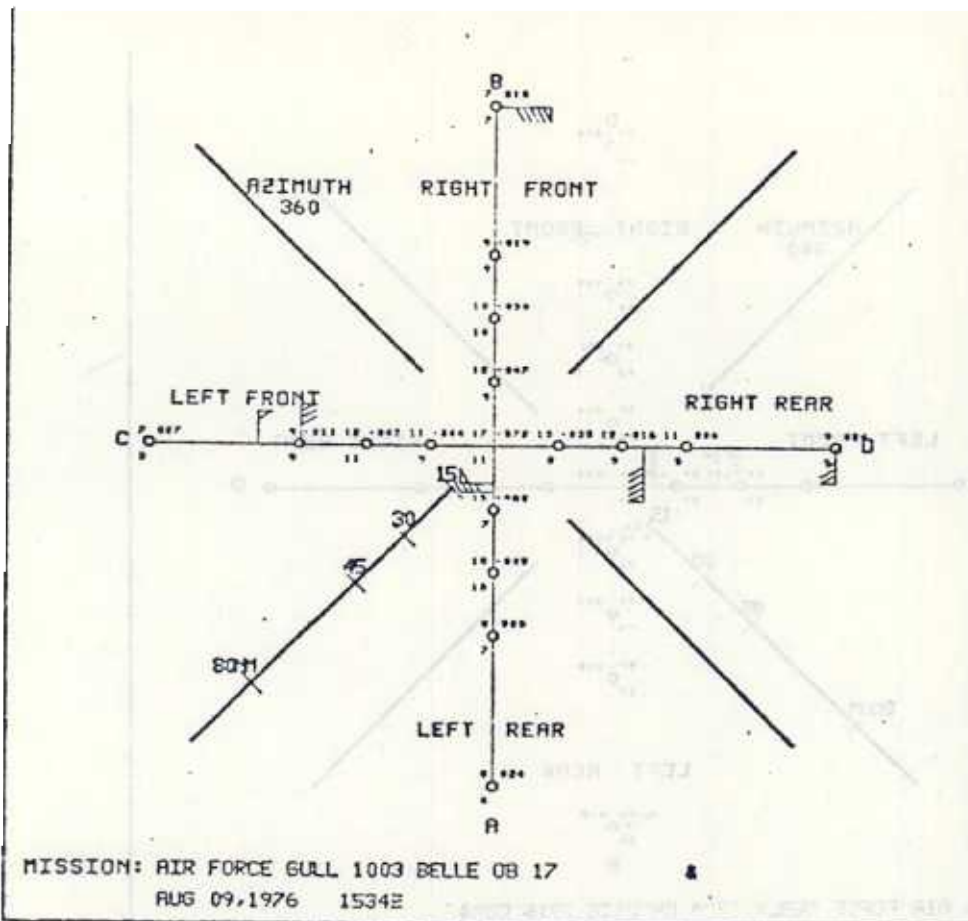
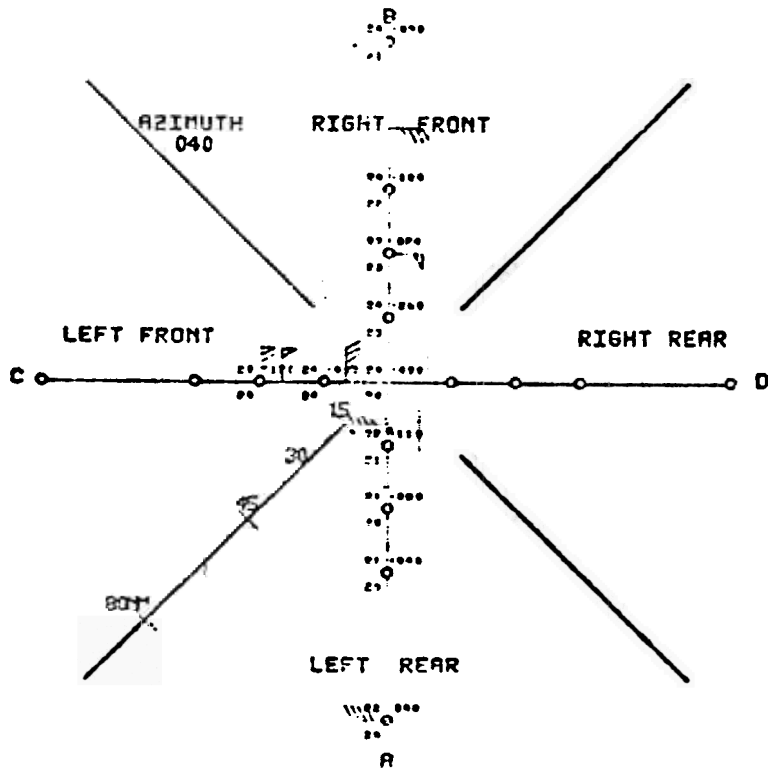
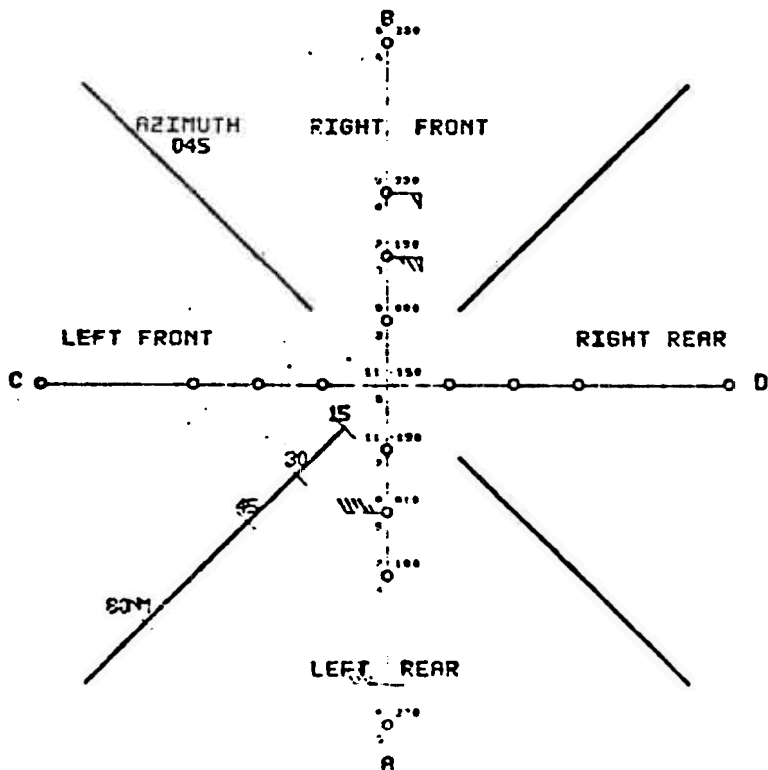


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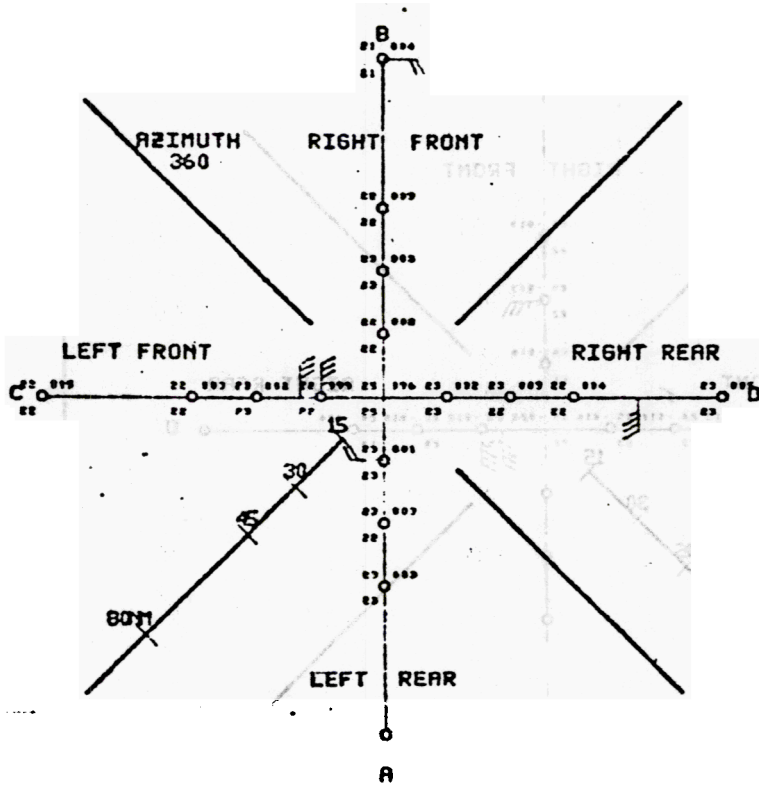


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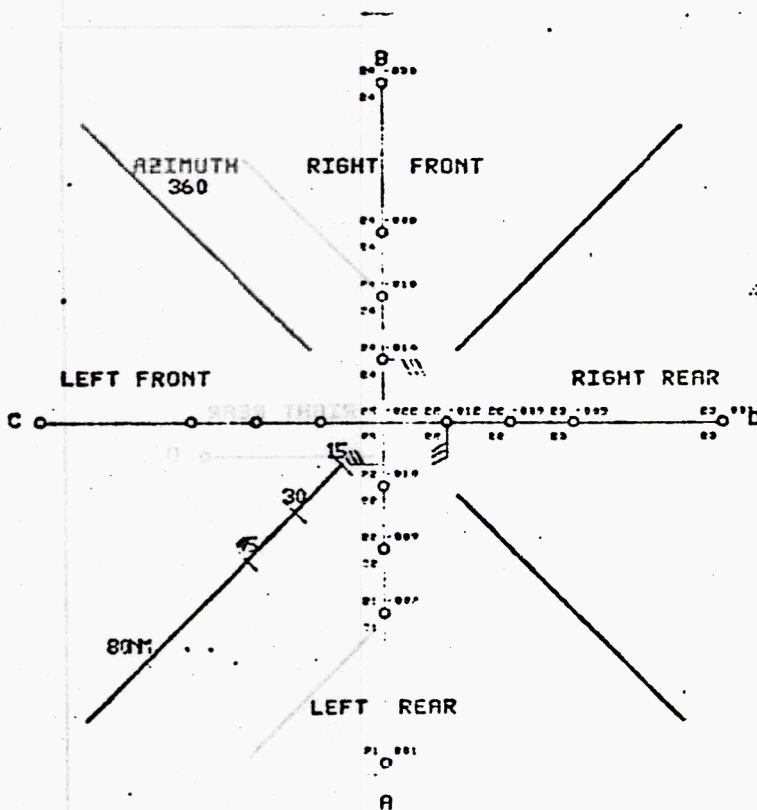


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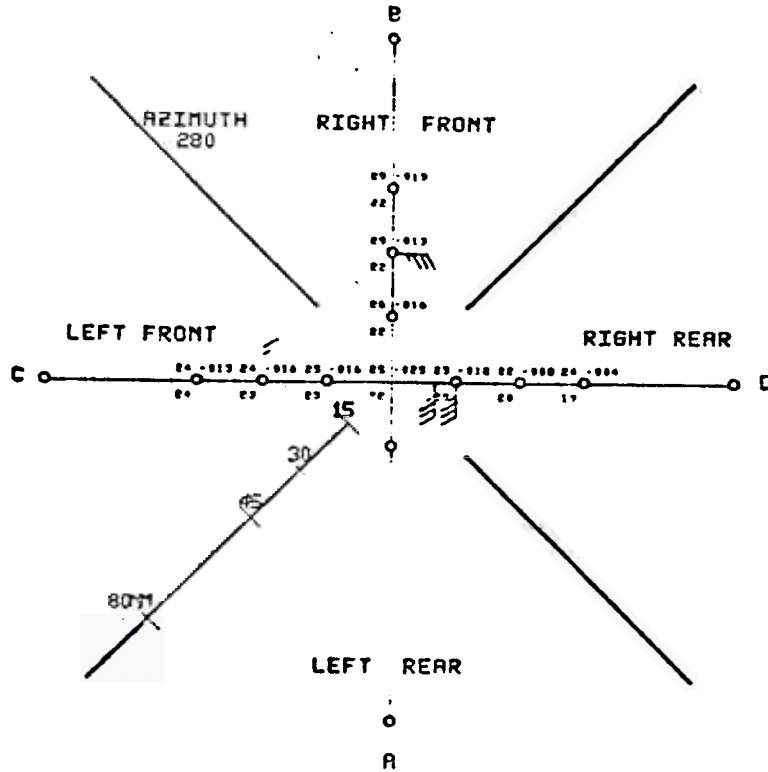


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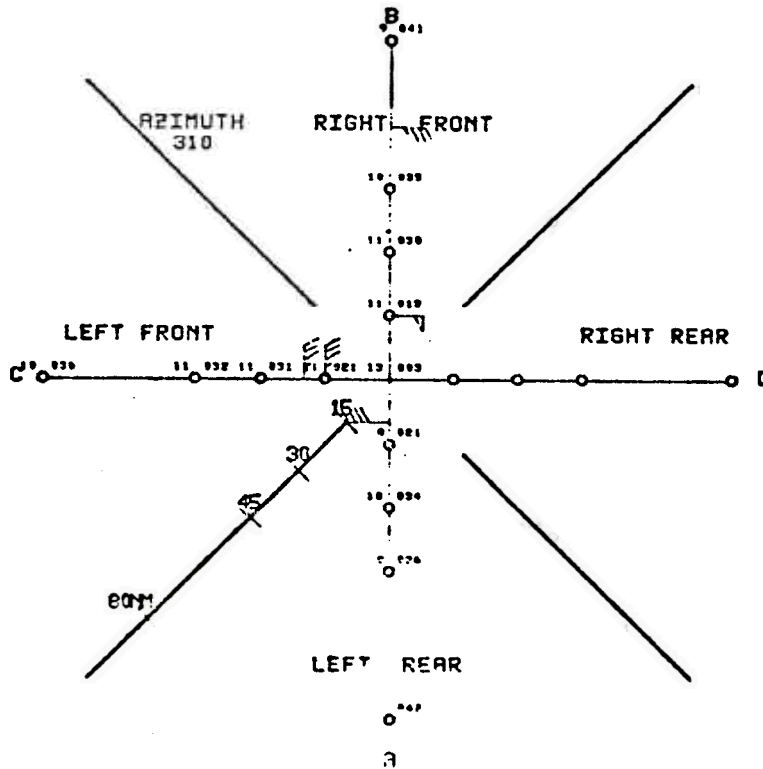


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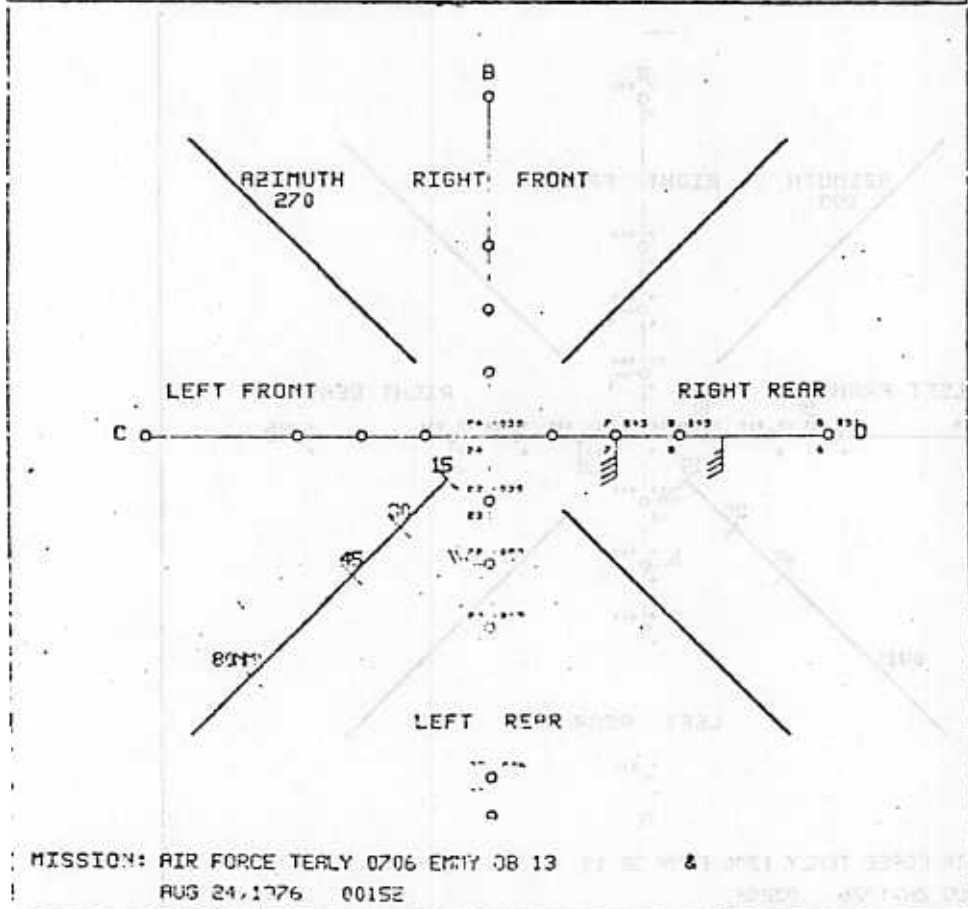
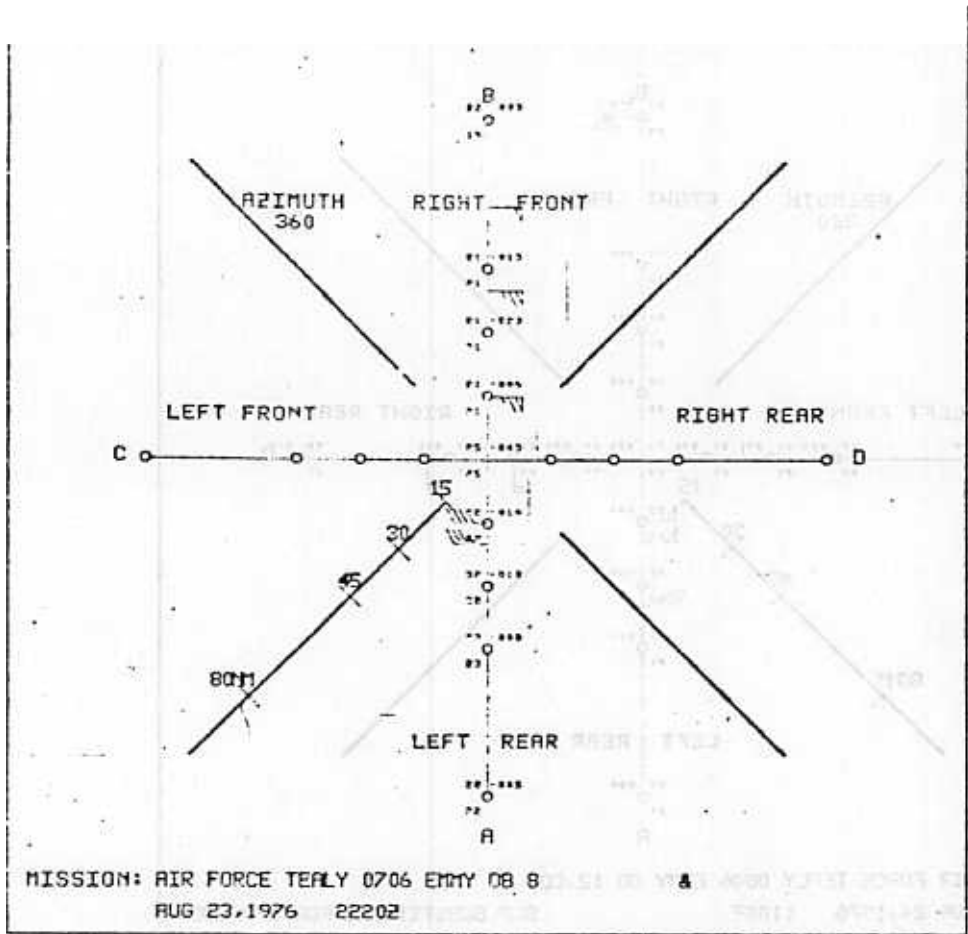


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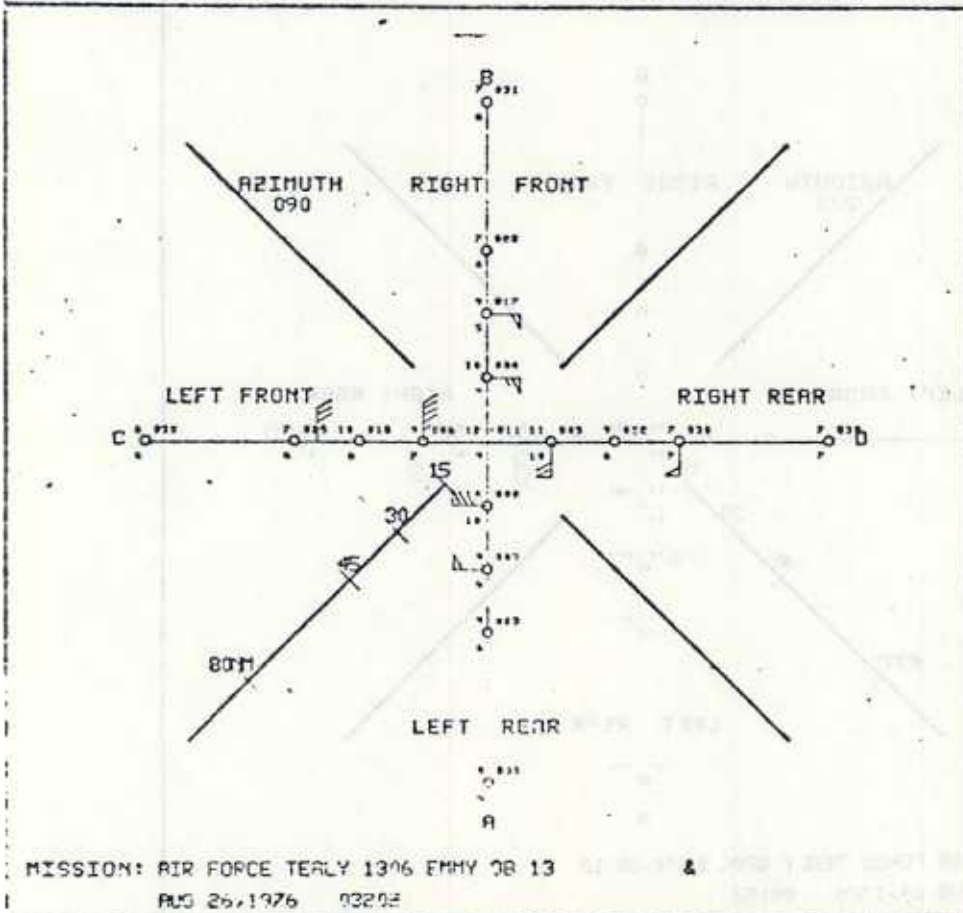
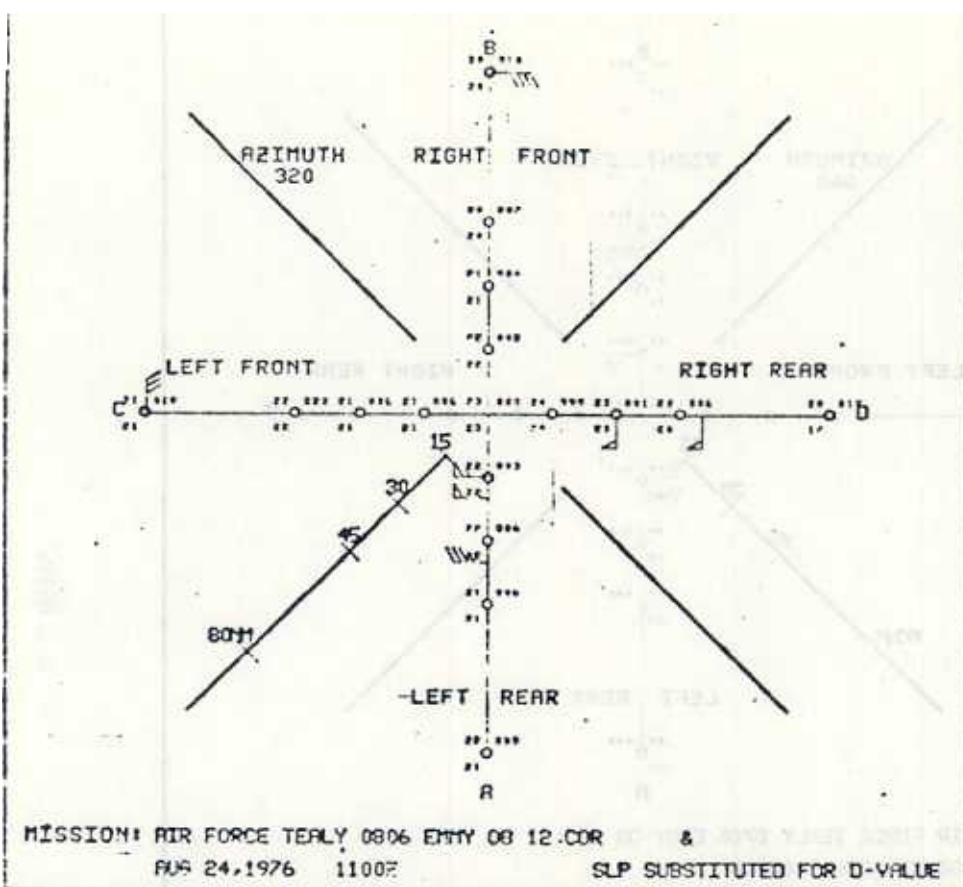


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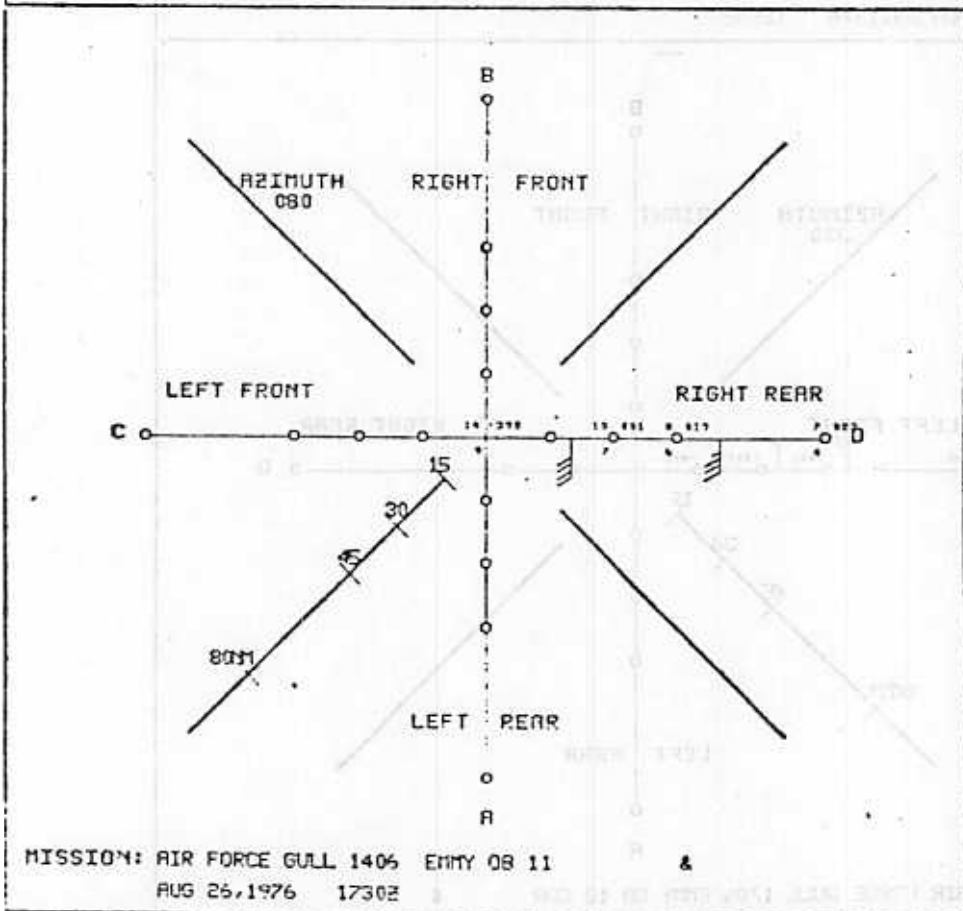
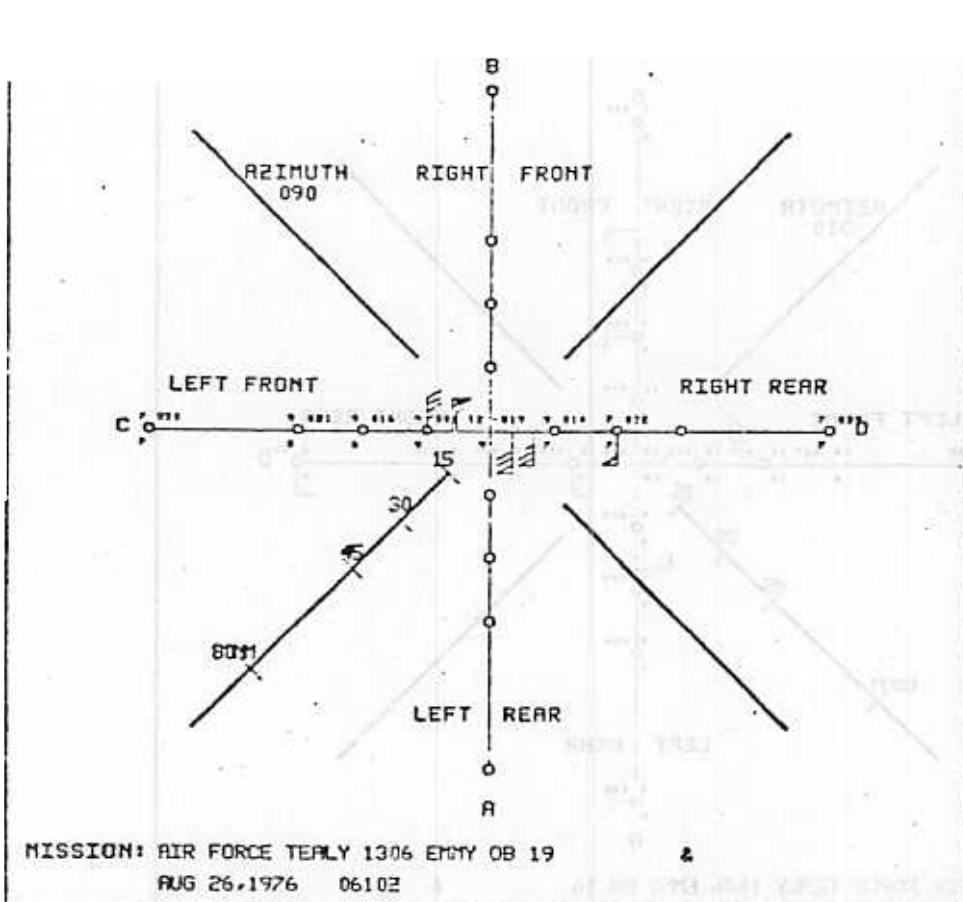


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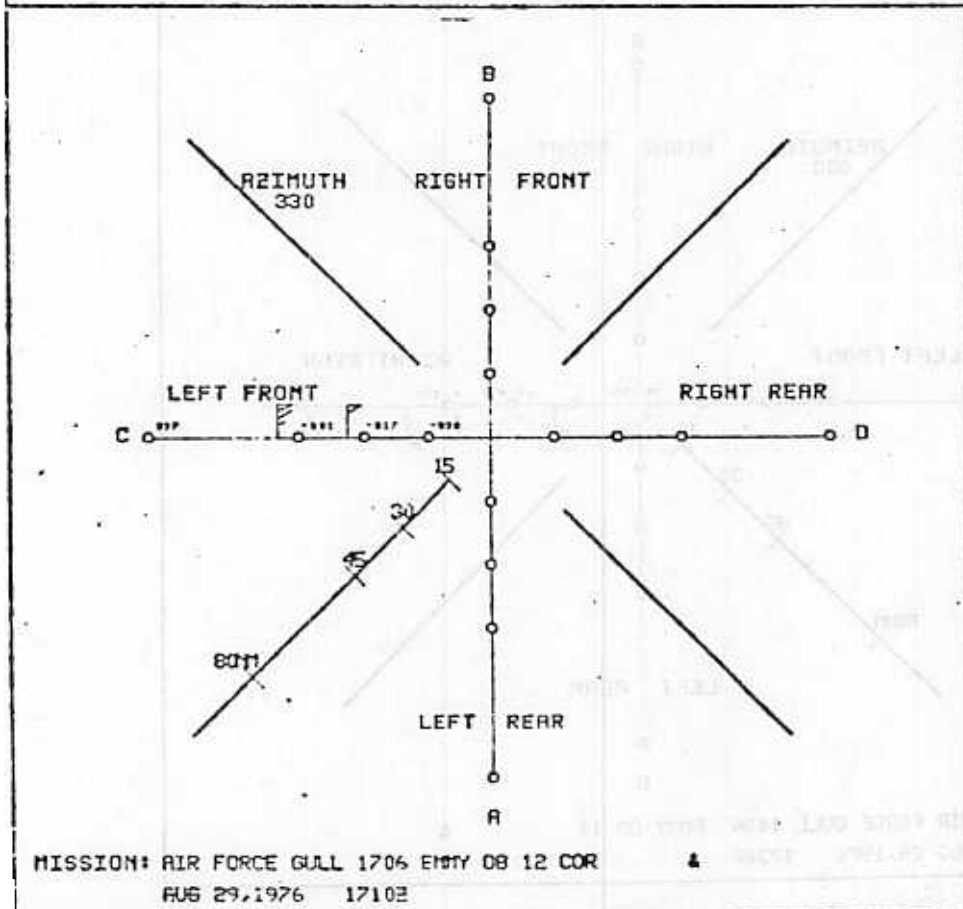
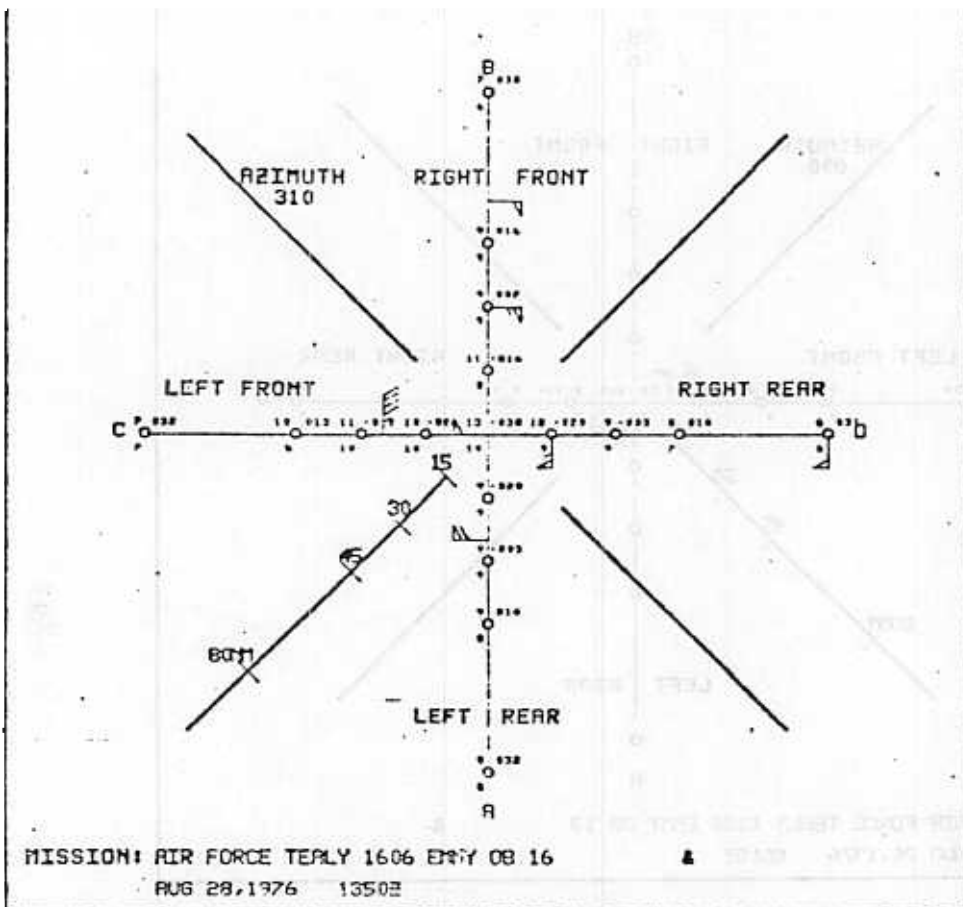


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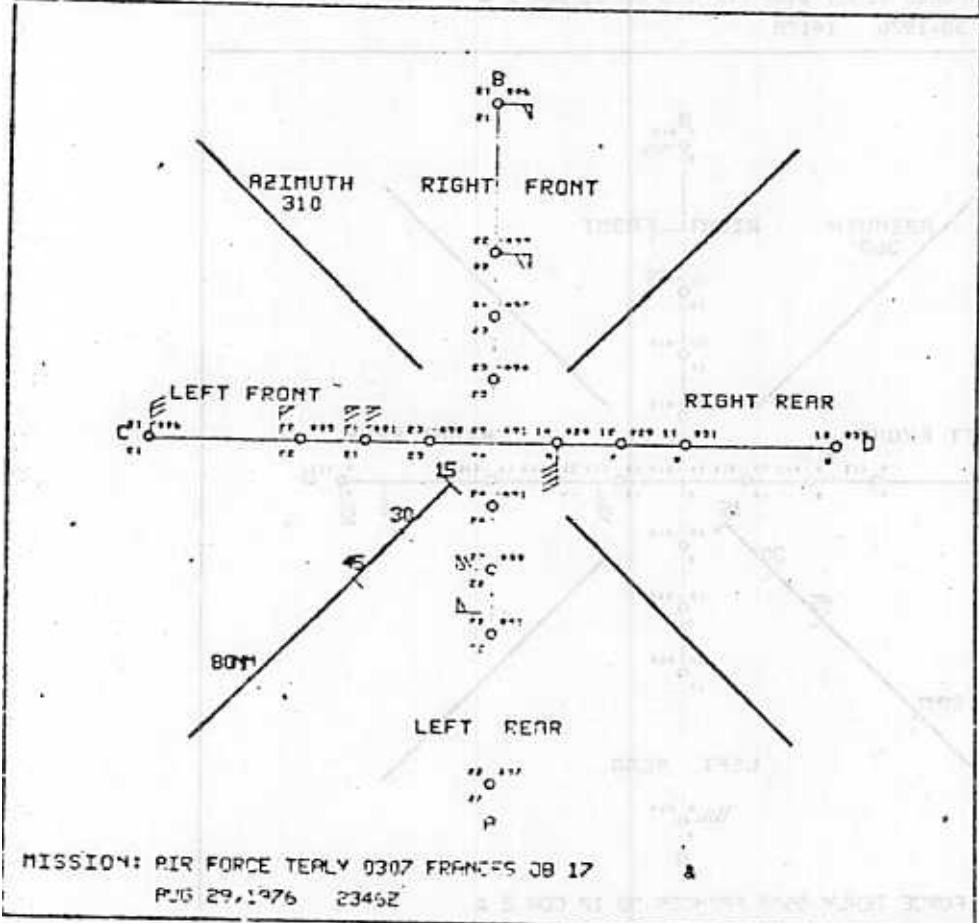
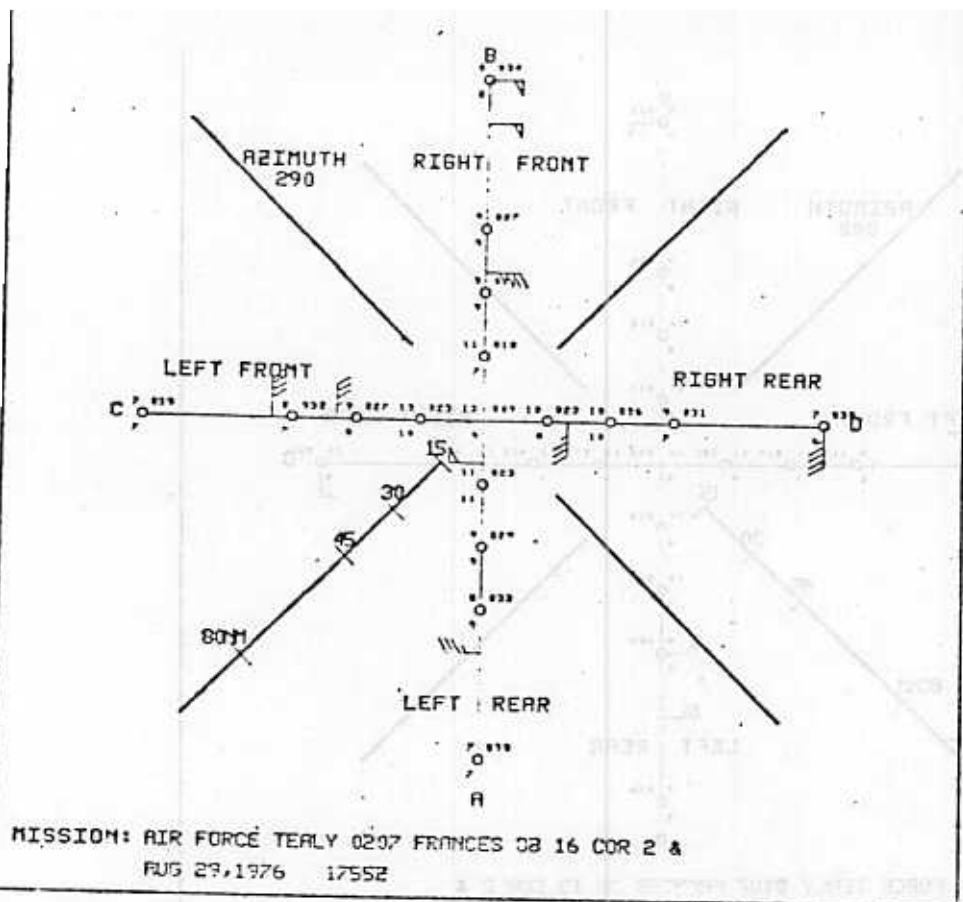
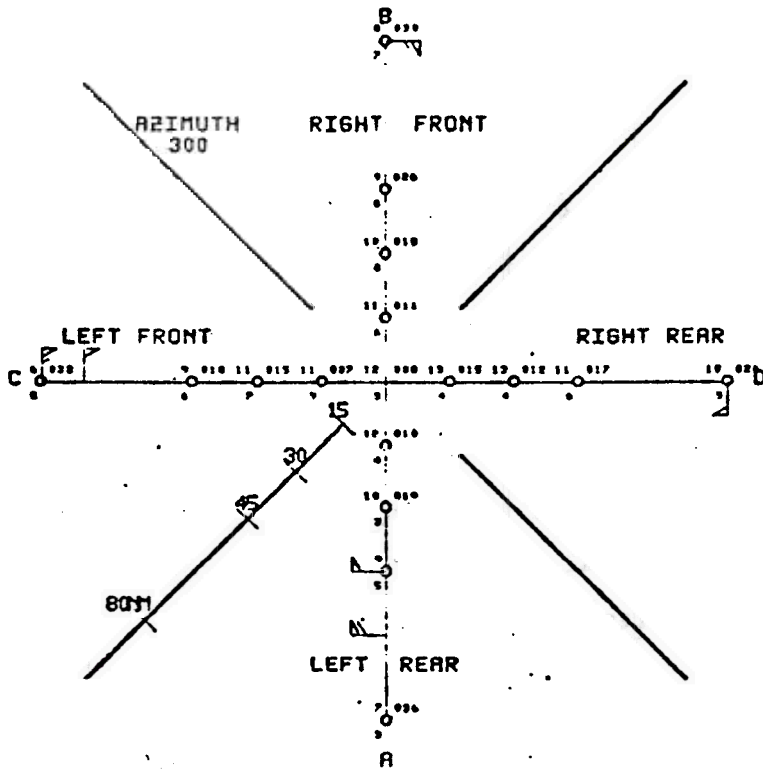
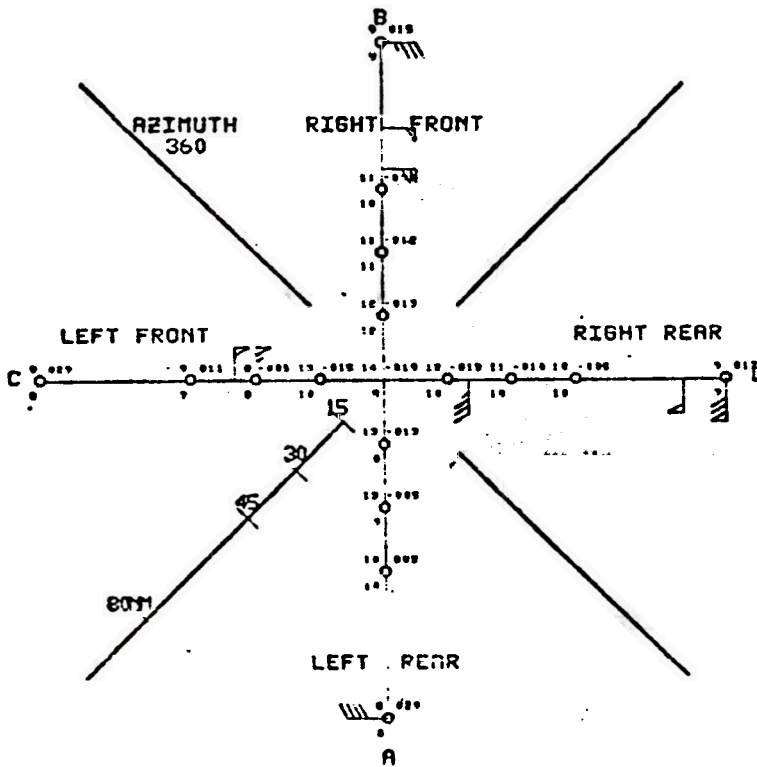


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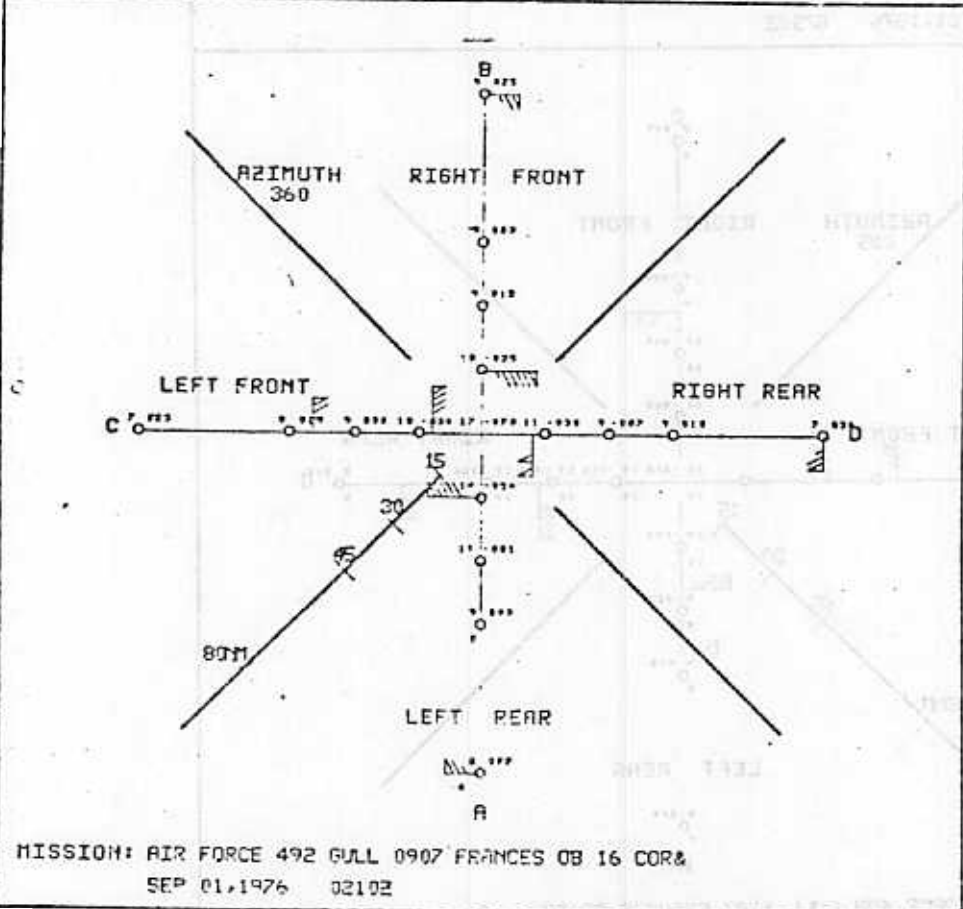
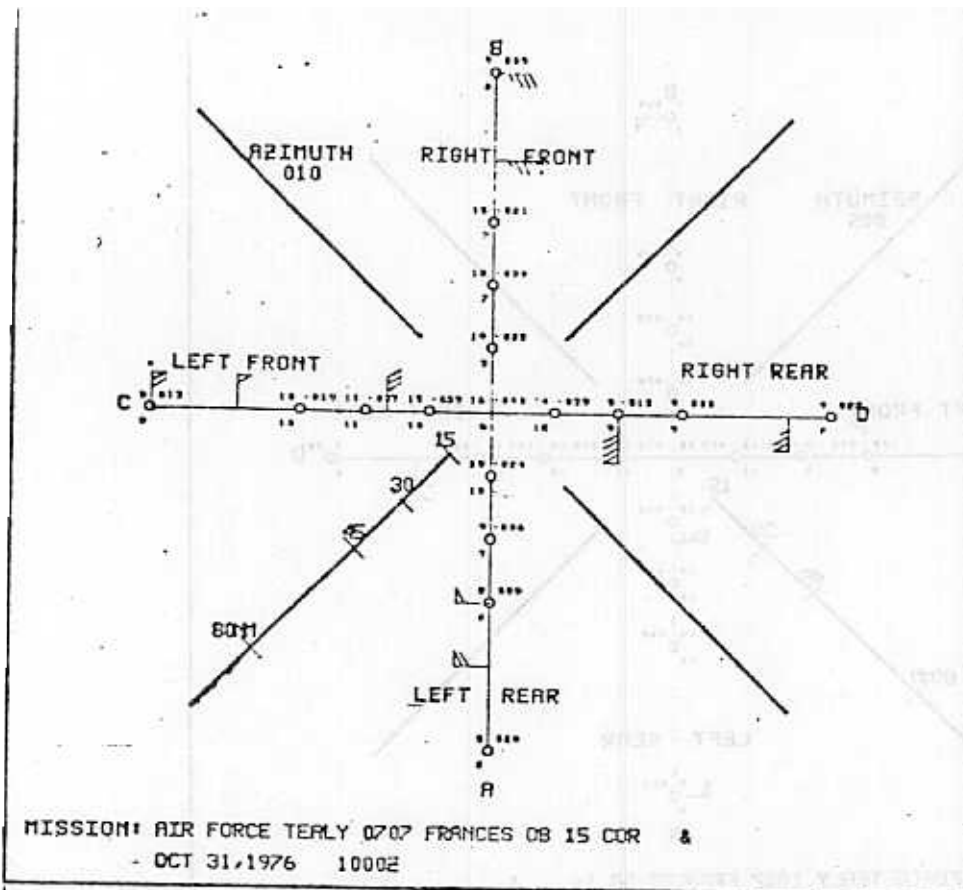


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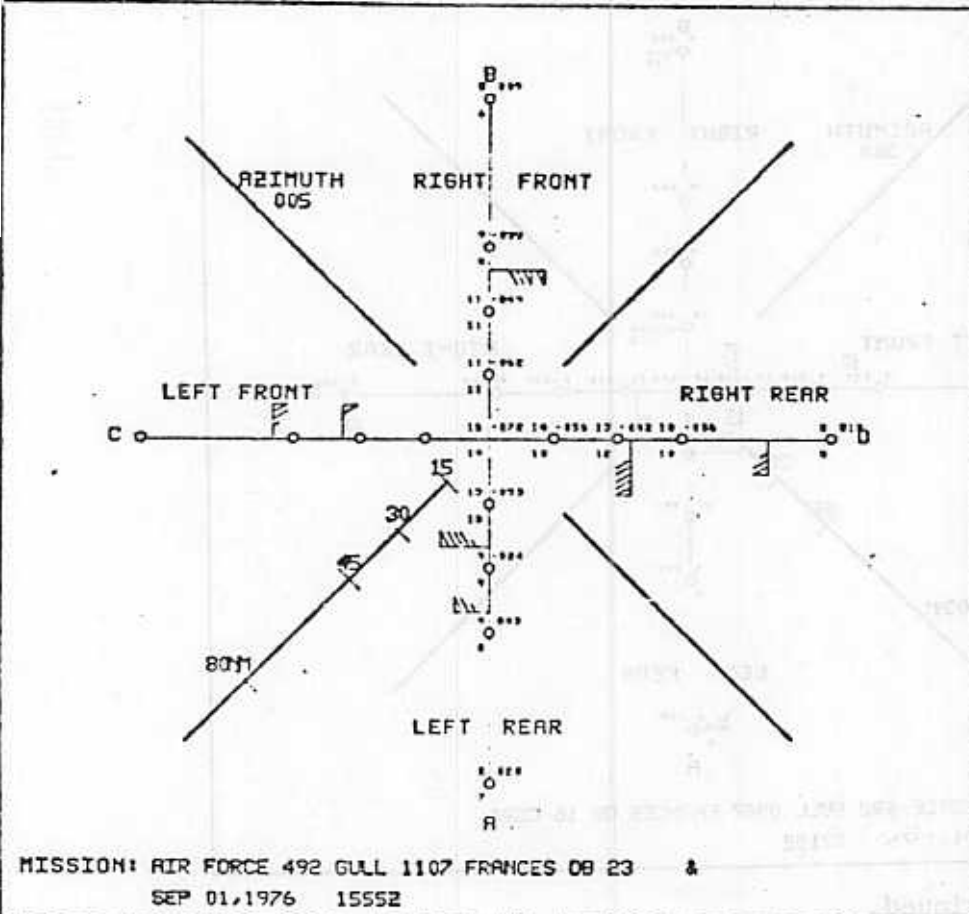
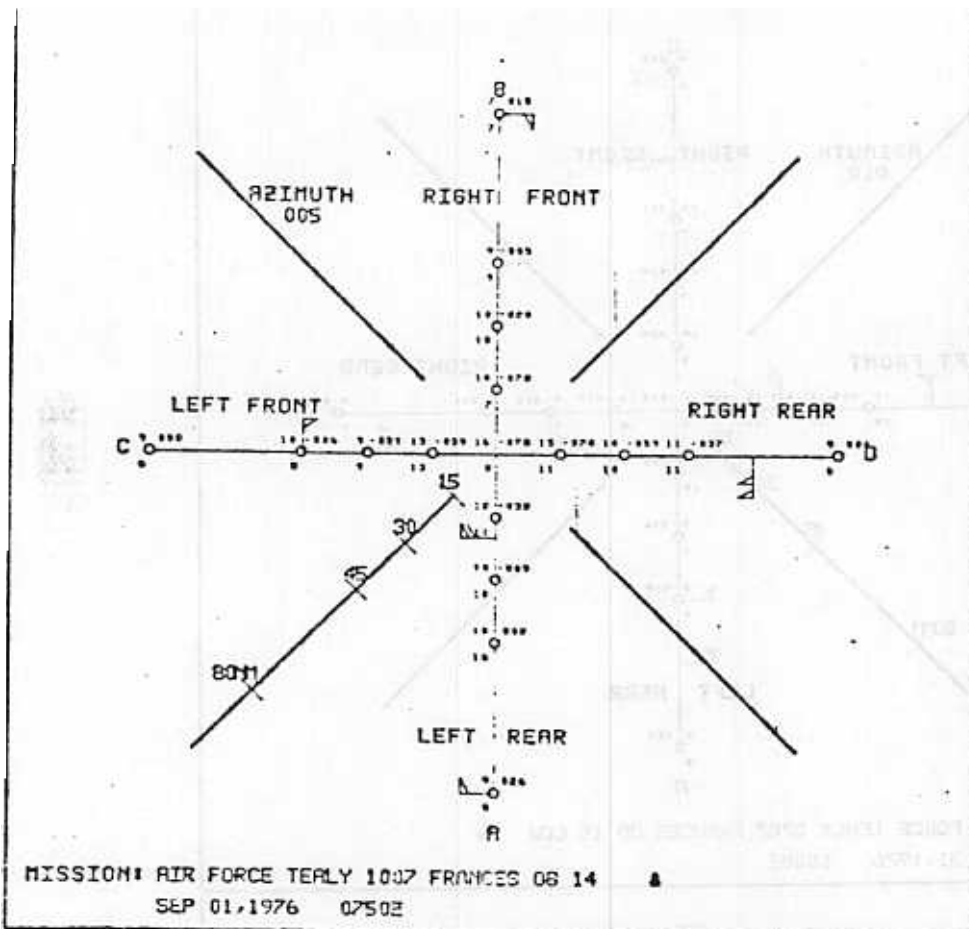


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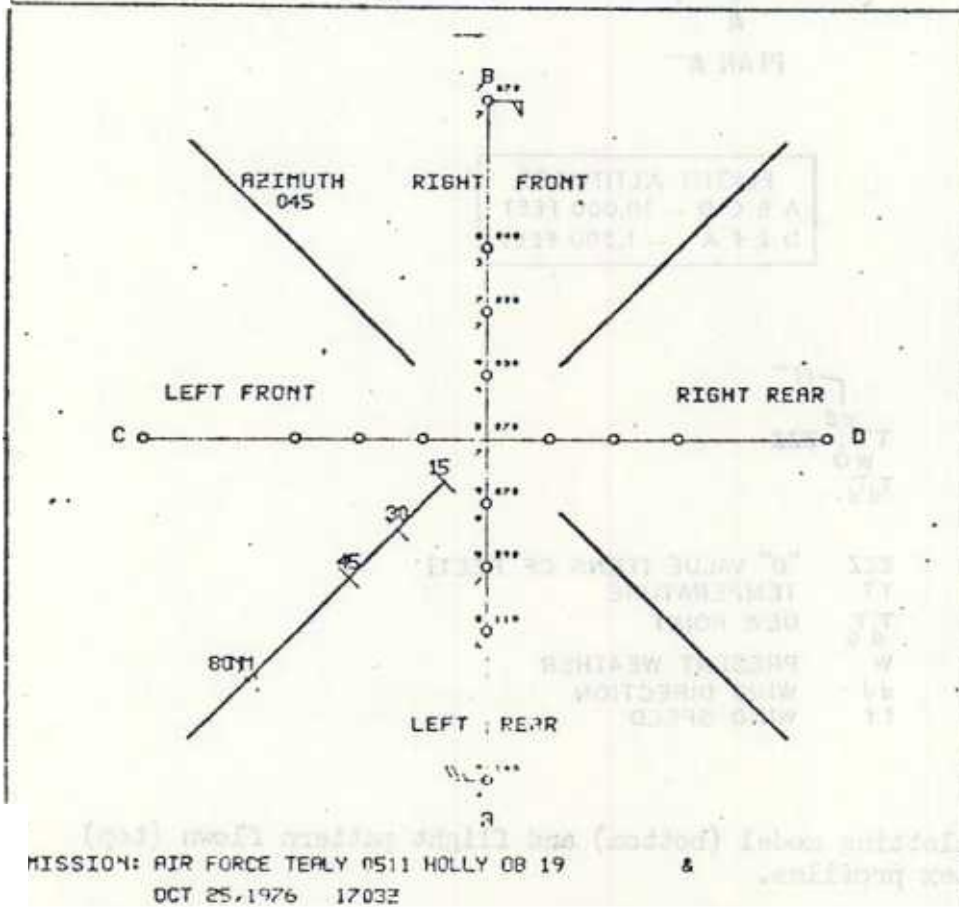
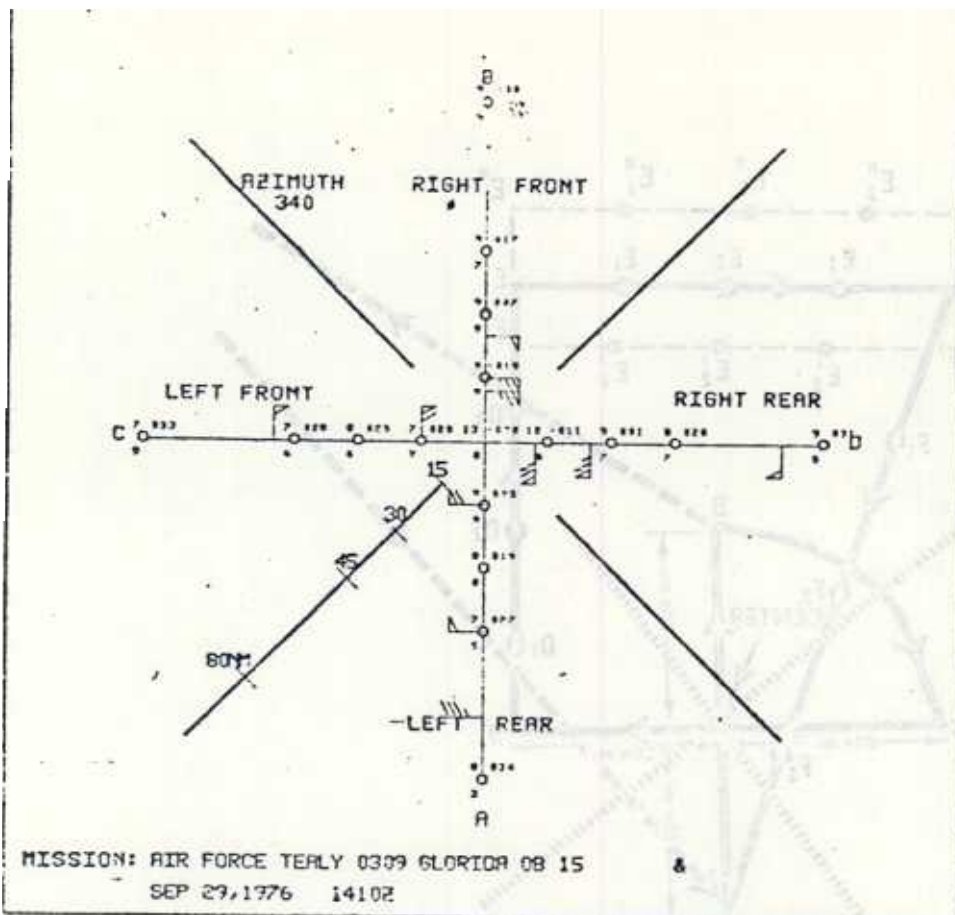
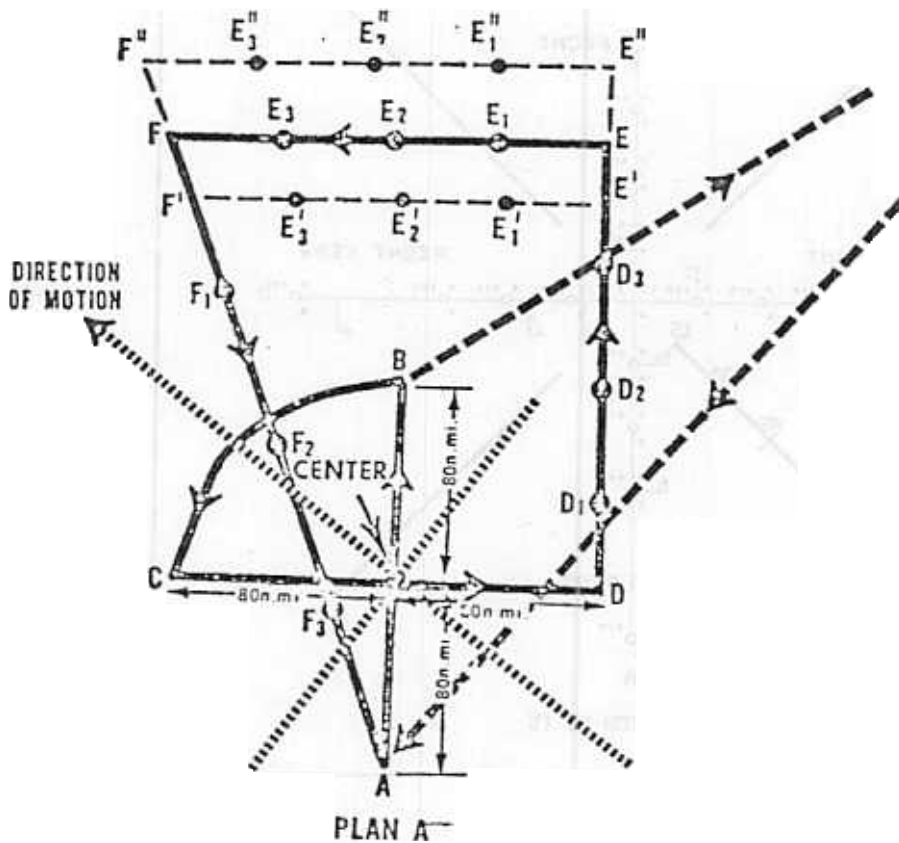


Figure 2 continued.



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

```

      ff
     dd
    TT ZZZ
   WO
  TdTd

```

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 flow (top) in obtaining vortex profiles.

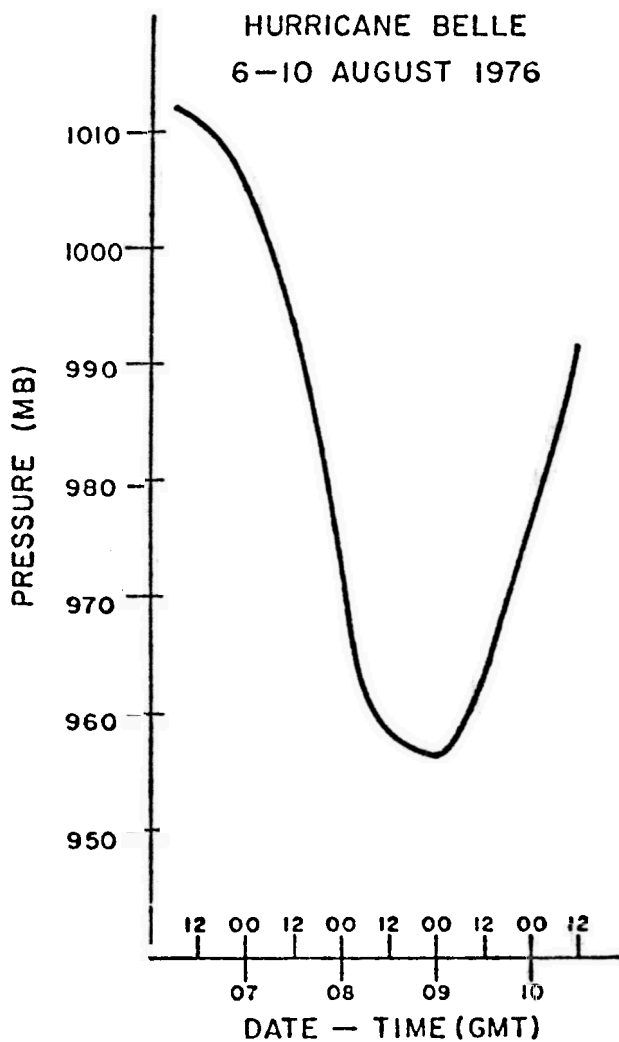
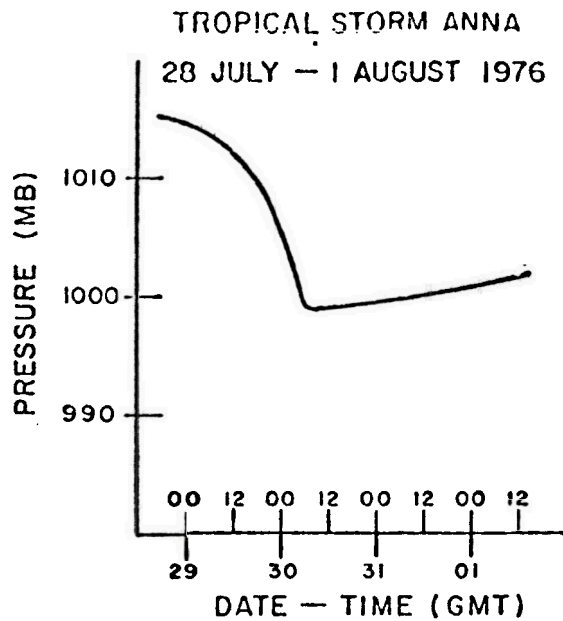


Figure 4. Lowest pressure vs. time, 1976 tropical cyclones.

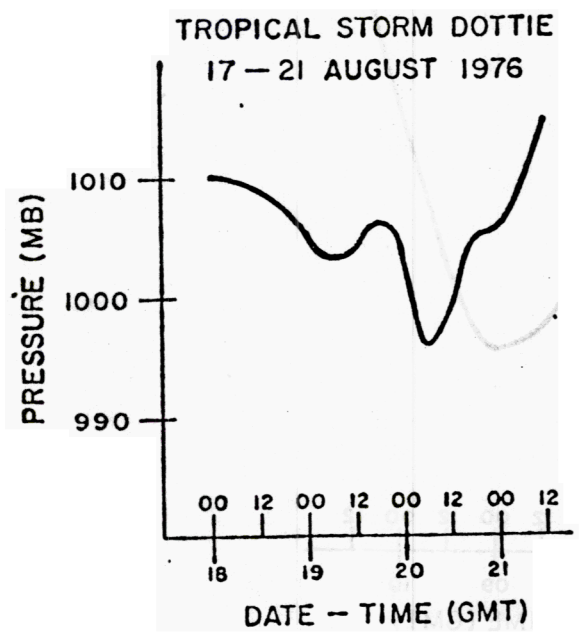
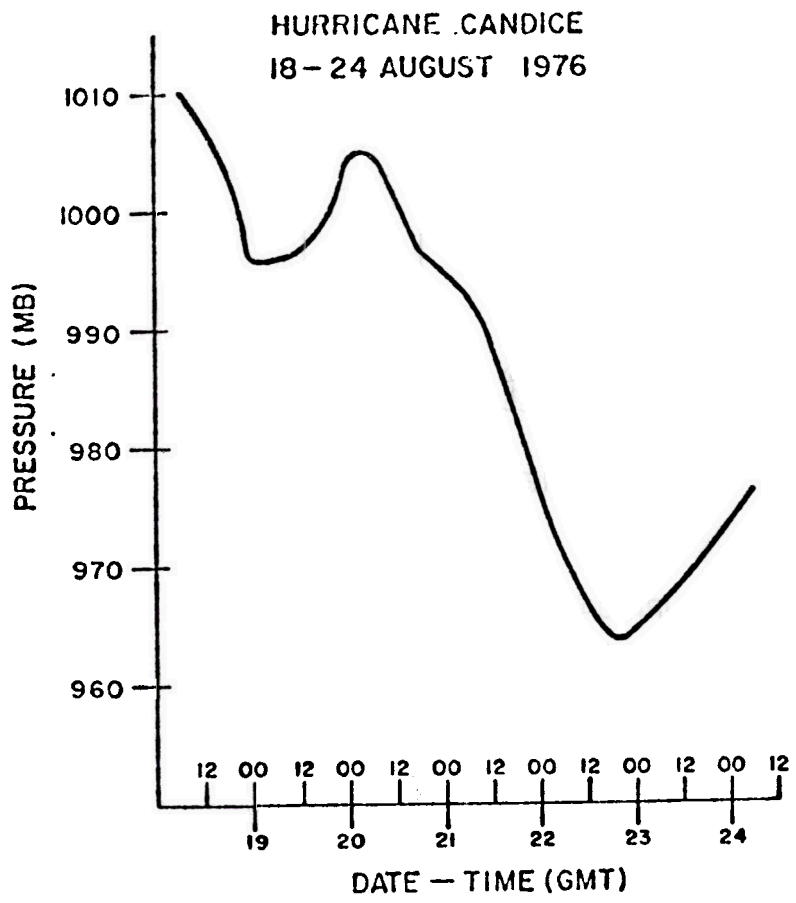


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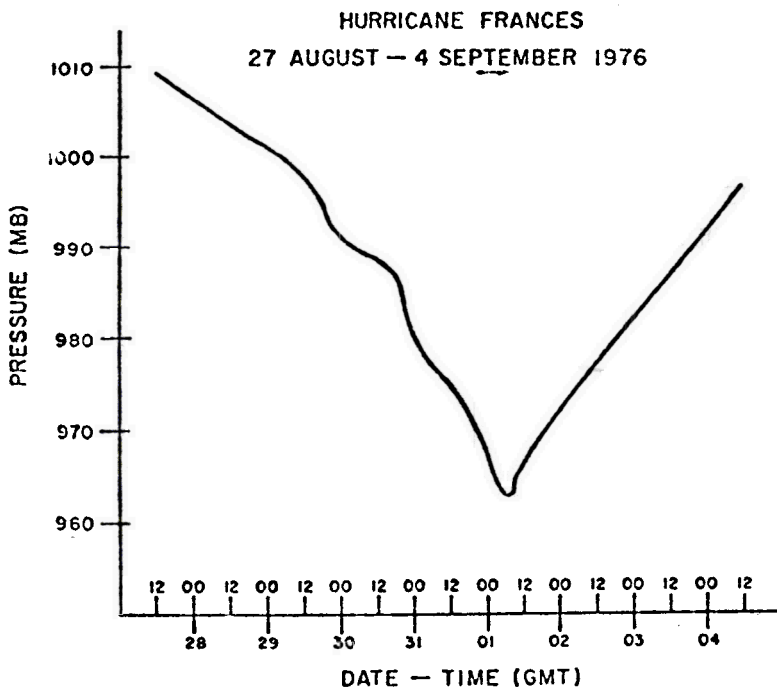
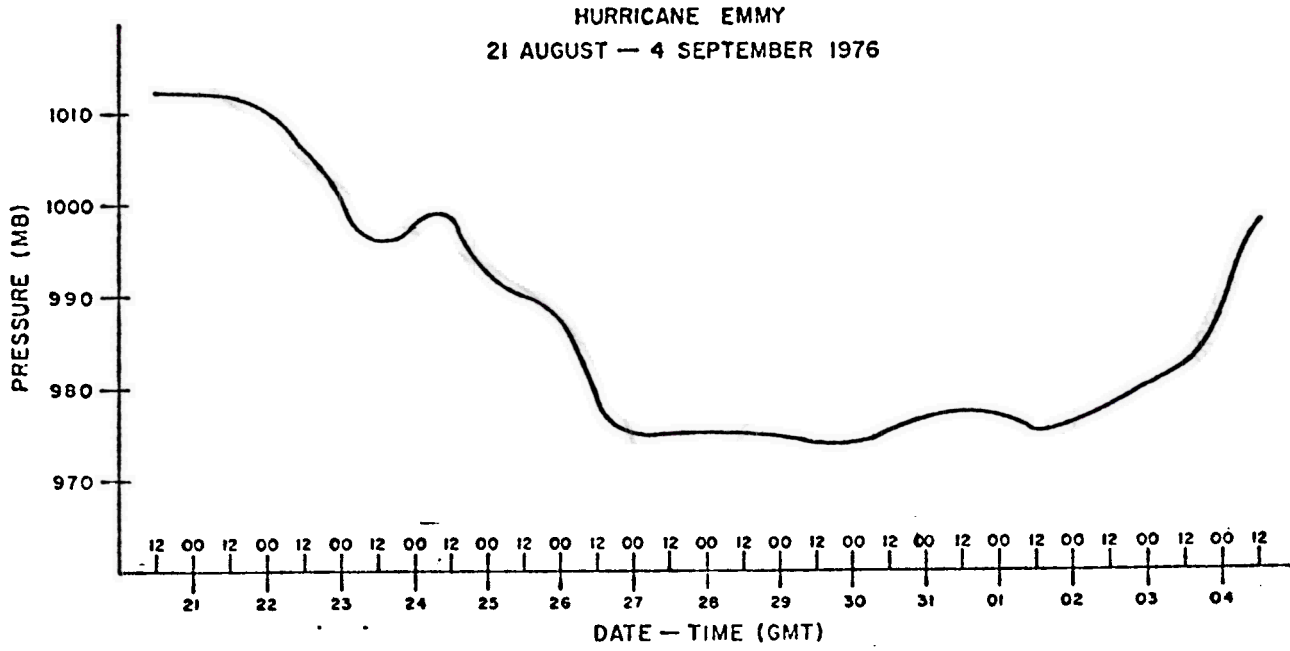
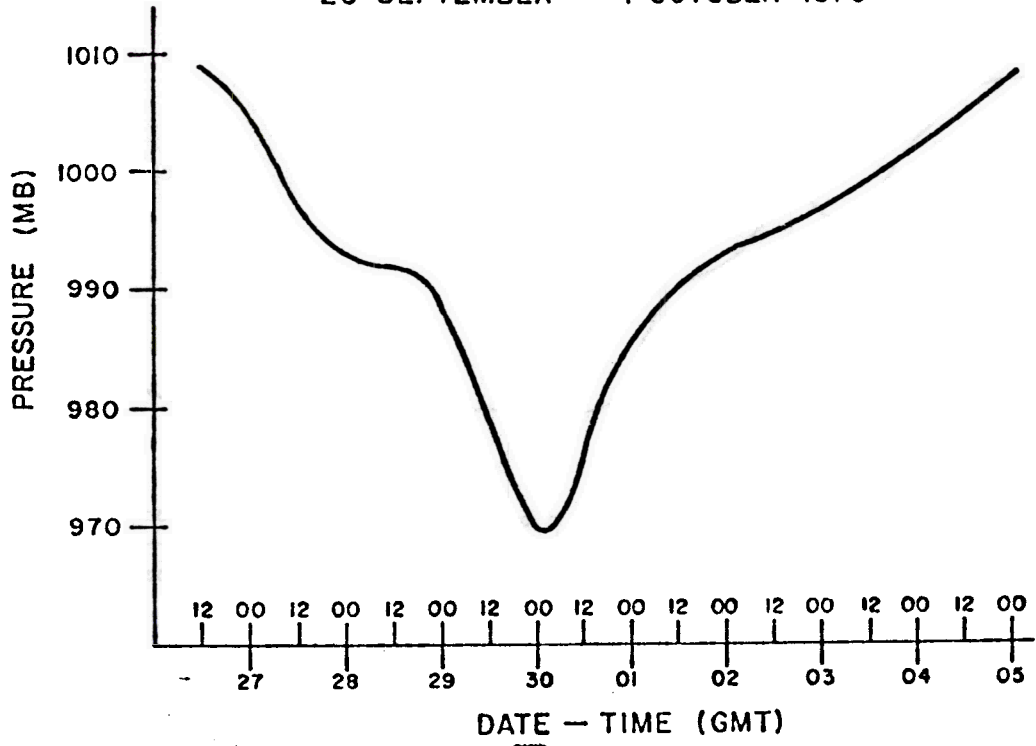


Figure 4 continued.

HURRICANE GLORIA
26 SEPTEMBER — 4 OCTOBER 1976



HURRICANE HOLLY
22 — 28 OCTOBER 1976

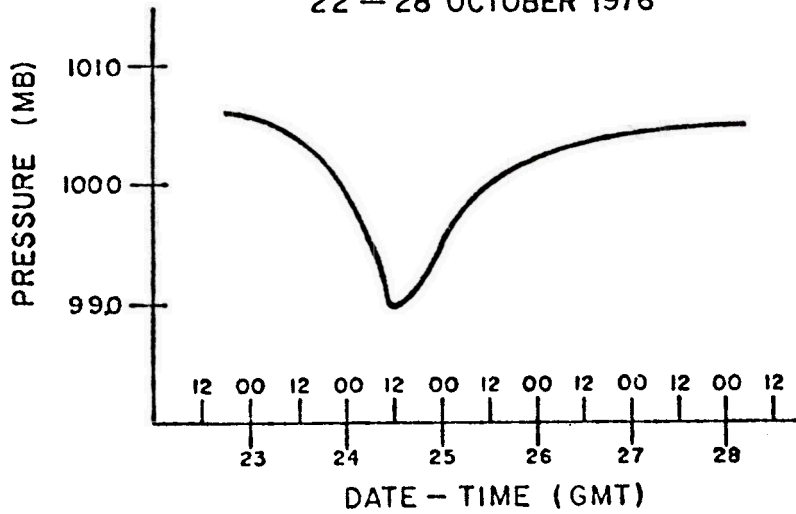


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1102 GMT 7/30/76 999 MB

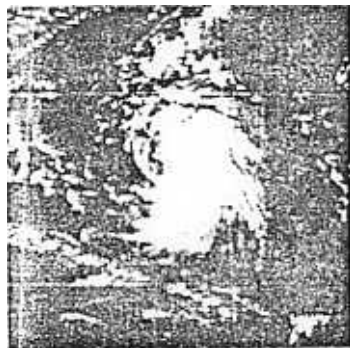


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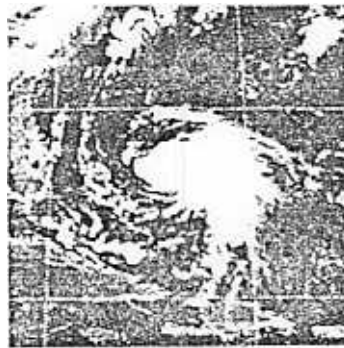
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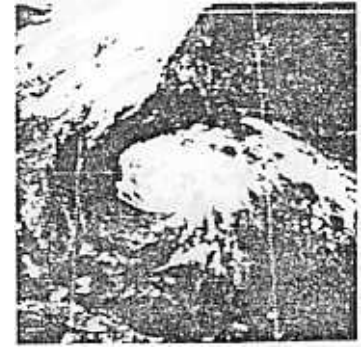
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BELLE



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Figure 5. Daily satellite photographs of 1976 named tropical cyclones.



190 GMT 8/18/76 100



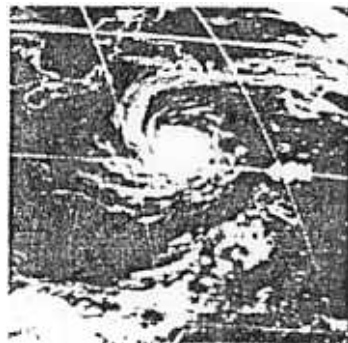
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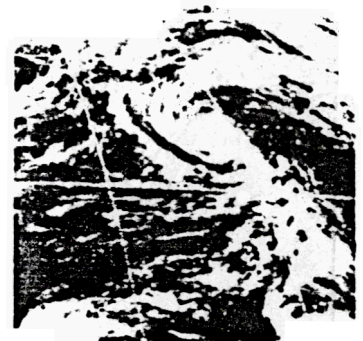
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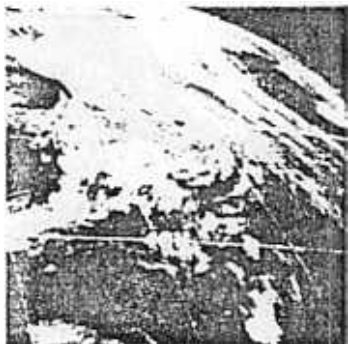
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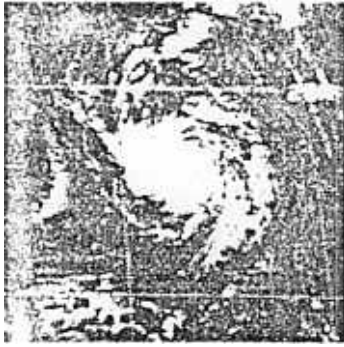


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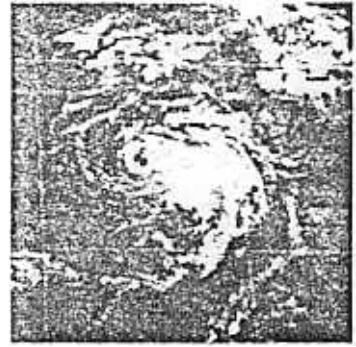
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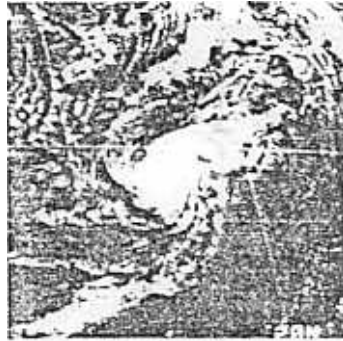
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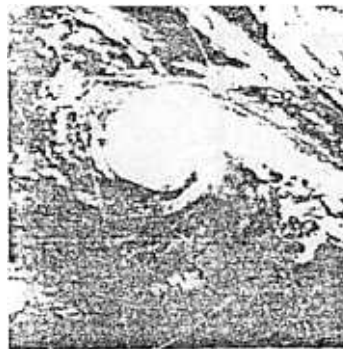


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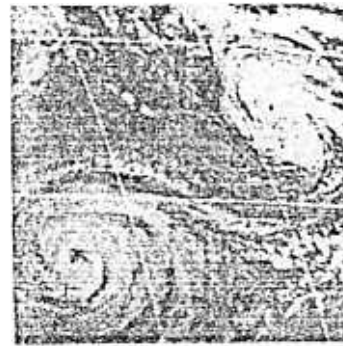
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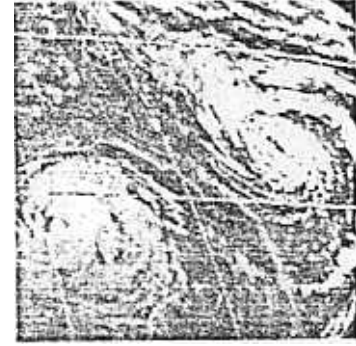
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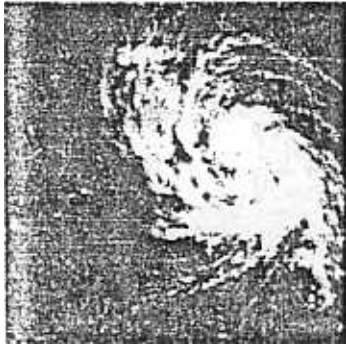
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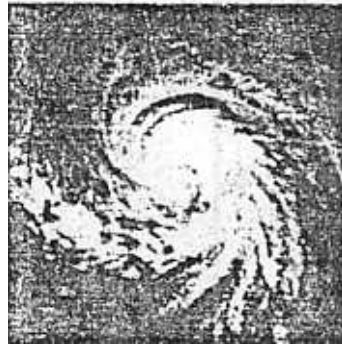
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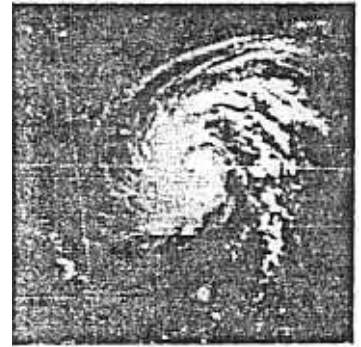
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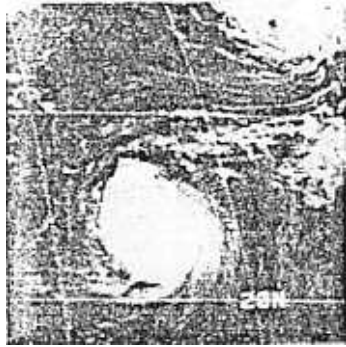
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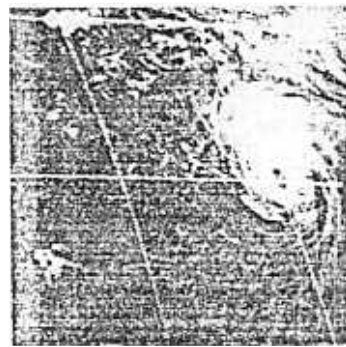
GMT



1501 11/71 968



1/02, 979



GMT



GMT

figure titled



1601 GMT 9/27/76 - 995 MB



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1601 GMT 10/01/76 - MB



1501 GMT 10/02/76 - 996 MB

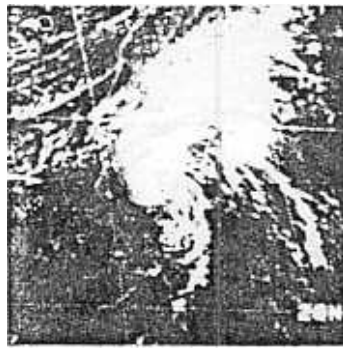


1601 GMT 10/03/76 - 1000

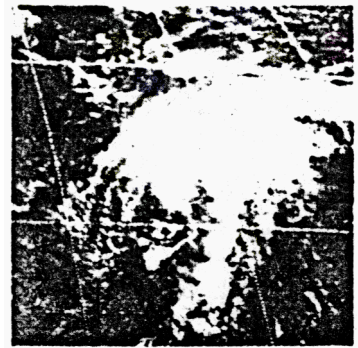
Figure continued.



1601 GMT 10/23/76 1003 MB



1601 GMT 10/24/76 991 MB



1601 GMT 10/25/76 1000 MB

HOLLY



1601 GMT 10/26/76 1004 MB

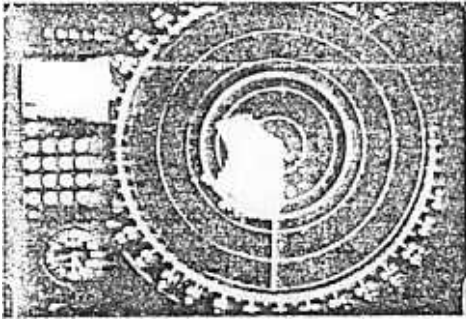


1601 GMT 10/27/76 1005 MB

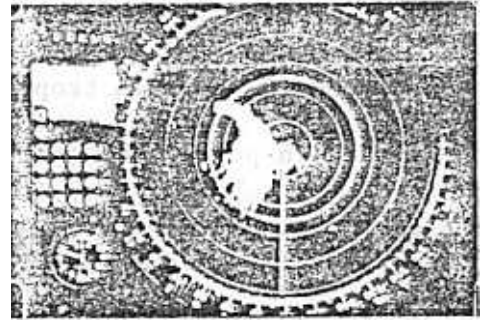


1601 GMT 10/28/76 1007 MB

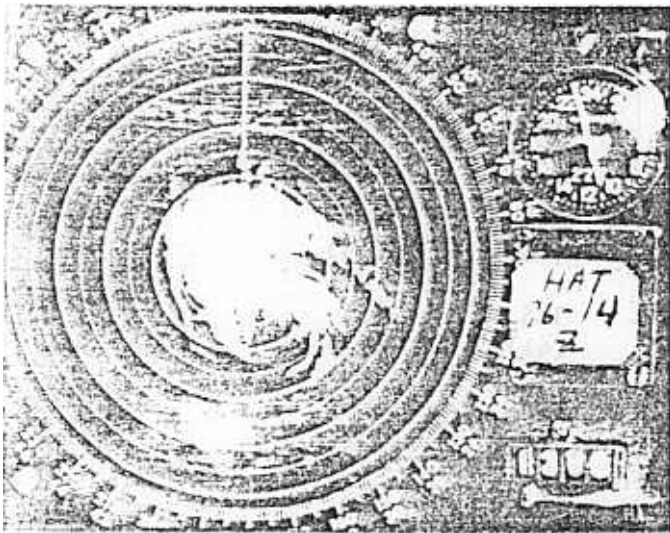
Figure 5 continued.



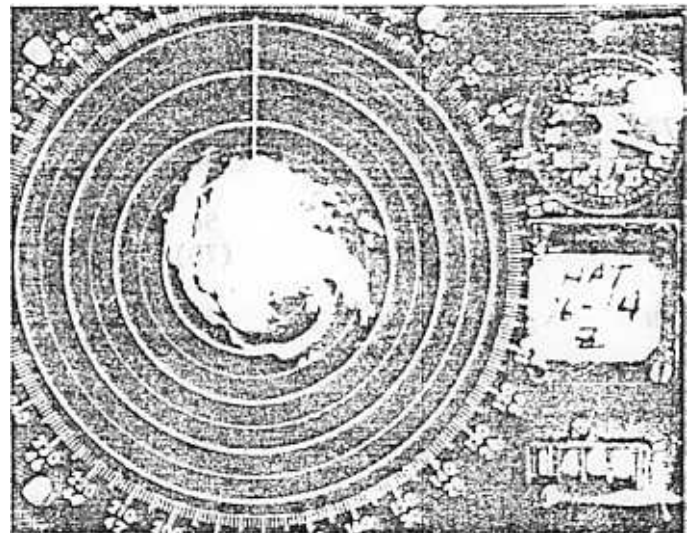
Patuxent River, Md.
August 9, 1976 2215Z



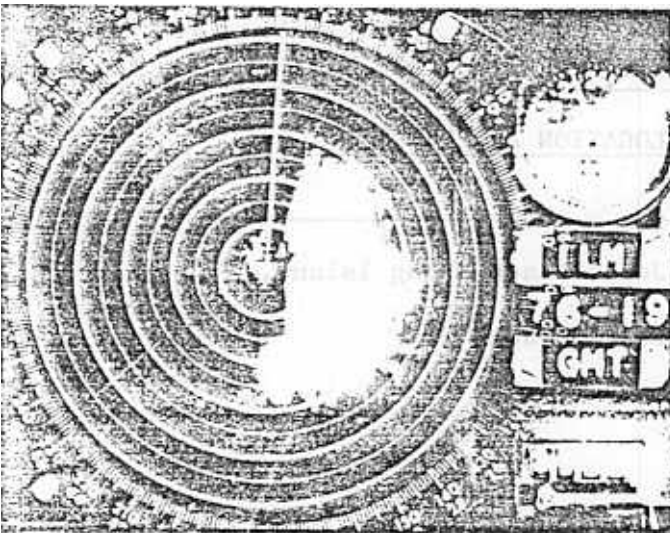
Patuxent River, Md.
August 9, 1976 2330Z



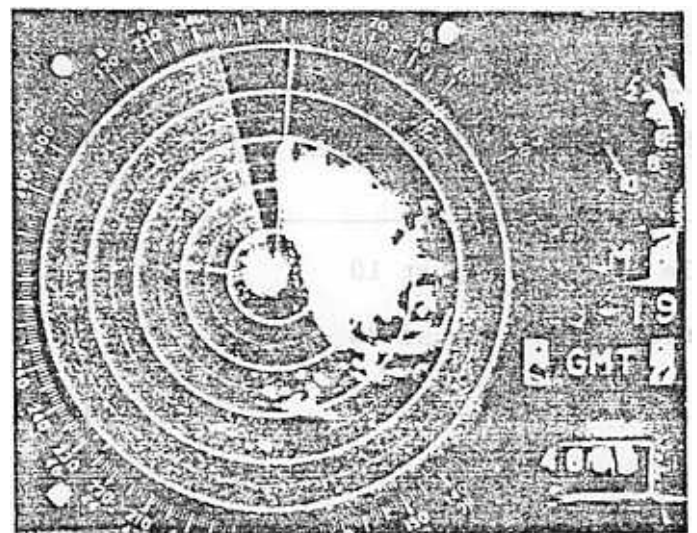
Cape Hatteras, N.C.
August 9, 1976 1100Z



Cape Hatteras, N.C.
August 9, 1976 1230Z



Wilmington, N.C.
August 9, 1976 0600Z



Wilmington, N.C.
August 9, 1976 1000Z

Figure 6. Selected radar photographs of Belle.

Table 1. Verification of 1976 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 | 21 (159) | 58 (159) | 127 (144) | 285 (113) | 430 (85) |
| NHC-67 | 17 (138) | 63 (138) | 136 (130) | 325 (120) | 531 (89) |
| NHC-72 | 20 (162) | 61 (162) | 150 (146) | 309 (117) | 427 (93) |
| NHC-73 | 18 (70) | 56 (70) | 131 (66) | 265 (55) | 369 (45) |
| HURRAN | 19 (54) | 57 (54) | 145 (50) | 385 (41) | 554 (31) |
| CLIPER | 20 (163) | 61 (163) | 141 (147) | 323 (118) | 457 (94) |
| SANBAR | 19 (72) | 60 (72) | 136 (68) | 277 (56) | 399 (44) |

Table 2. Landfall errors of 1976 tropical storms and hurricanes.

| <u>STORM NAME</u> | <u>LANDFALL DAY</u> | <u>FORECAST ERROR (N.MI.)</u> | <u>LOCATION AND REMARKS</u> |
|-------------------|---------------------|-----------------------------------|------------------------------|
| Belle | August 10 | 30 | Jones Beach, Long Island, NY |
| Dottie | August 20 | 5 | Folly Beach, SC |

Table 3. Summary of 1976 Tropical Cyclone Statistics

| NO. | NAME | CLASS | DATES | MAXIMUM SUSTAINED WINDS (KT) | LOWEST PRESSURE (MB) | U.S. DAMAGE (\$ MILLION) | DEATHS |
|-----|---------|-------|-------------------|---------------------------------------|----------------------------|--------------------------------|-------------------------|
| 1. | ANNA | T | JULY 28-AUG. 6 | 40 | 999 | | |
| 2. | BELLE | H | AUG. 6 - 10 | 105 | 957 | 100 | U.S., 5 |
| 3. | CANDICE | H | AUG. 18 - 24 | 80 | 964 | | |
| 4. | DOTTIE | T | AUG. 17 - 21 | 45 | 996 | MINOR | U.S., 4 |
| 5. | EMMY | H | AUG. 20 - SEPT. 4 | 90 | 974 | | AZORES, 68 ¹ |
| 6. | FRANCES | H | AUG. 27 - SEPT. 7 | 100 | 963 | | |
| 7. | GLORIA | H | SEPT. 26 - OCT. 4 | 90 | 970 | | |
| 8. | HOLLY | H | OCT. 22 - 28 | 65 | 990 | | |

¹ DEATHS CAUSED BY PLANE CRASH AT LAJES DURING HEIGHT OF STORM.

Table 4. Best track, initial, and forecast positions, initial position error, and forecast errors for 1976 tropical cyclones.

TROPICAL STORM ANNA 28 JULY - 6 AUGUST 1976

| 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. | LONG. | LAT. | LONG. | | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) |
| 3018 | 30.5 | 37.7 | 30.5 | 38.5 | 41 | 31.5 | 34.0 | 32 | 33.0 | 28.5 | 86 | 33.0 | 28.5 | | | | |
| 3100 | 31.3 | 35.7 | 31.2 | 36.0 | 17 | 33.0 | 31.5 | 39 | 34.5 | 26.0 | 81 | 40.0 | 15.0 | | | | |
| 3106 | 31.9 | 33.6 | 32.0 | 33.5 | 8 | 34.0 | 28.5 | 58 | 36.0 | 24.0 | 67 | 41.0 | 13.0 | | | | |
| 3112 | 32.5 | 31.5 | 32.3 | 31.7 | 16 | 33.5 | 26.5 | 42 | 35.5 | 20.5 | | | | | | | |
| 3118 | 33.2 | 29.4 | 32.8 | 29.5 | 25 | 34.4 | 25.0 | 12 | 36.5 | 19.0 | | | | | | | |
| 0100 | 33.9 | 27.1 | 34.3 | 26.0 | | 37.0 | 19.0 | | | | | | | | | | |
| 0106 | 35.0 | 24.9 | | | | | | | | | | | | | | | |

HURRICANE BELLE 6 - 10 AUGUST 1976

| 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. | LONG. | LAT. | LONG. | | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) |
| 0700 | 25.6 | 73.2 | 26.0 | 73.5 | 29 | 26.9 | 73.5 | 28 | 28.0 | 73.5 | 85 | 31.5 | 72.5 | 159 | 36.5 | 72.0 | 190 |
| 0706 | 26.0 | 73.2 | 26.0 | 73.0 | 11 | 26.5 | 73.5 | 28 | 28.0 | 73.5 | 83 | 32.0 | 73.0 | 106 | 37.0 | 71.0 | 258 |
| 0712 | 26.2 | 73.7 | 26.3 | 73.6 | 8 | 26.5 | 73.5 | 61 | 28.5 | 73.5 | 81 | 32.5 | 73.0 | 144 | 37.5 | 70.5 | 323 |
| 0718 | 26.6 | 74.2 | 26.7 | 74.0 | 12 | 27.5 | 75.5 | 32 | 29.0 | 77.0 | 106 | 34.0 | 78.0 | 254 | 40.0 | 75.0 | |
| 0800 | 26.9 | 74.6 | 27.0 | 74.5 | 8 | 28.0 | 76.0 | 54 | 29.5 | 77.5 | 149 | 36.0 | 78.0 | 269 | 42.0 | 74.0 | |
| 0806 | 27.4 | 75.1 | 27.5 | 75.3 | 12 | 29.0 | 76.7 | 72 | 31.0 | 77.6 | 148 | 36.0 | 77.0 | 349 | 43.0 | 73.0 | |
| 0812 | 28.1 | 75.1 | 28.2 | 75.3 | 12 | 30.0 | 76.1 | 68 | 32.5 | 76.5 | 144 | 38.0 | 75.0 | 303 | 42.0 | 71.0 | |
| 0818 | 29.5 | 75.3 | 29.3 | 75.3 | 12 | 32.0 | 76.0 | 44 | 33.0 | 76.0 | 121 | 42.0 | 71.5 | | 47.0 | 64.0 | |
| 0900 | 30.9 | 75.3 | 31.0 | 75.3 | 6 | 34.5 | 75.0 | 15 | 38.5 | 74.0 | 26 | 44.0 | 70.0 | | 49.0 | 65.0 | |
| 0906 | 32.5 | 75.2 | 32.4 | 75.3 | 8 | 36.5 | 75.0 | 34 | 42.0 | 72.0 | 88 | | | | | | |
| 0912 | 34.4 | 74.7 | 34.3 | 74.9 | 12 | 39.5 | 73.7 | 50 | 44.0 | 71.0 | 115 | | | | | | |
| 0918 | 36.6 | 74.2 | 36.8 | 74.3 | 13 | 41.2 | 72.5 | 36 | 45.5 | 68.5 | | | | | | | |
| 1000 | 38.8 | 73.8 | 38.9 | 73.9 | 8 | 43.5 | 72.0 | 53 | 47.0 | 67.0 | | | | | | | |
| 1006 | 41.0 | 73.2 | 40.1 | 73.5 | | 45.0 | 70.0 | | | | | | | | | | |
| 1012 | 42.6 | 72.4 | 42.5 | 72.0 | | 46.0 | 72.0 | | | | | | | | | | |

Table 4 continued.

HURRICANE CANDICE 18 - 24 AUGUST 1976

| 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. | LONG. | LAT. | LONG. | | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) |
| 1818 | 33.4 | 67.5 | 33.7 | 67.7 | 21 | 36.5 | 65.5 | 36 | 39.7 | 64.0 | 73 | 40.7 | 61.0 | 26 | | | |
| 1900 | 35.2 | 66.4 | 35.3 | 66.4 | 6 | 38.2 | 65.0 | 24 | 41.0 | 64.0 | 127 | 47.0 | 63.0 | 374 | | | |
| 1906 | 36.7 | 65.7 | 36.3 | 65.9 | 26 | 39.5 | 64.0 | 102 | 42.5 | 63.0 | 193 | 48.5 | 62.0 | 474 | | | |
| 1912 | 37.7 | 65.0 | 37.5 | 65.1 | 13 | 39.5 | 64.0 | 55 | 41.0 | 63.5 | 88 | 44.0 | 58.0 | 198 | | | |
| 1918 | 38.2 | 64.0 | 38.1 | 64.3 | 15 | 38.5 | 63.0 | 72 | 39.0 | 62.0 | 107 | 40.0 | 58.0 | 52 | 42.0 | 50.0 | 304 |
| 2000 | 38.8 | 63.7 | 39.0 | 63.7 | 12 | 40.5 | 62.5 | 24 | 41.5 | 61.5 | 77 | 43.0 | 60.0 | 170 | 44.0 | 59.0 | 199 |
| 2006 | 39.7 | 63.3 | 40.0 | 63.3 | 18 | 41.5 | 62.0 | 51 | 42.5 | 61.0 | 97 | 44.0 | 60.0 | 199 | 45.0 | 59.0 | 246 |
| 2012 | 40.2 | 62.0 | 40.2 | 62.0 | 0 | 41.0 | 59.5 | 15 | 41.5 | 57.0 | 95 | 42.0 | 52.0 | 233 | 43.0 | 46.0 | 316 |
| 2018 | 40.8 | 61.0 | 41.0 | 61.0 | 12 | 41.5 | 58.5 | 37 | 42.0 | 55.5 | 164 | 42.2 | 50.0 | 289 | 42.5 | 42.0 | 419 |
| 2100 | 41.1 | 59.8 | 41.3 | 60.0 | 15 | 41.7 | 58.0 | 62 | 42.0 | 56.0 | 141 | 42.5 | 54.0 | 84 | 43.0 | 53.0 | 256 |
| 2106 | 41.2 | 59.3 | 41.4 | 59.5 | 15 | 42.0 | 57.5 | 100 | 43.0 | 56.0 | 150 | 44.0 | 52.0 | 138 | 45.0 | 49.0 | 203 |
| 2112 | 41.0 | 59.0 | 41.0 | 59.3 | 14 | 40.0 | 58.7 | 20 | 39.5 | 58.0 | 96 | 40.0 | 57.0 | 244 | 43.0 | 55.0 | |
| 2118 | 40.5 | 58.7 | 40.5 | 58.8 | 5 | 40.0 | 58.5 | 55 | 40.0 | 57.5 | 90 | 41.5 | 56.5 | 287 | 45.0 | 55.0 | |
| 2200 | 40.3 | 58.2 | 40.3 | 57.9 | 14 | 40.0 | 57.0 | 62 | 40.0 | 56.0 | 108 | 43.0 | 53.0 | 263 | 46.0 | 49.0 | |
| 2206 | 40.8 | 57.8 | 40.9 | 58.0 | 11 | 40.5 | 56.5 | 54 | 41.0 | 55.0 | 93 | 43.0 | 53.0 | 406 | 45.0 | 48.0 | |
| 2212 | 41.0 | 57.0 | 41.6 | 56.8 | 15 | 41.8 | 54.7 | 28 | 43.0 | 52.5 | 28 | 44.5 | 48.0 | | 47.0 | 38.0 | |
| 2218 | 41.3 | 56.4 | 41.4 | 56.5 | 8 | 42.0 | 54.0 | 35 | 43.5 | 51.5 | 61 | 45.5 | 46.0 | | 48.0 | 37.0 | |
| 2300 | 41.7 | 55.5 | 41.7 | 56.1 | 27 | 42.5 | 53.5 | 38 | 44.0 | 50.5 | 125 | 46.0 | 45.0 | | 48.5 | 35.0 | |
| 2306 | 42.4 | 54.3 | 42.3 | 54.6 | 15 | 43.3 | 52.0 | 64 | 44.5 | 49.0 | 210 | 49.0 | 39.0 | | | | |
| 2312 | 43.1 | 53.2 | 43.1 | 52.7 | 22 | 45.0 | 49.0 | 64 | 47.0 | 44.0 | | 51.0 | 35.0 | | | | |
| 2318 | 44.4 | 51.2 | 44.2 | 51.9 | 32 | 46.3 | 47.5 | 72 | 49.0 | 43.0 | | 54.0 | 32.0 | | | | |
| 2400 | 45.9 | 48.7 | 46.0 | 48.0 | | 49.5 | 41.5 | | 53.0 | 34.0 | | | | | | | |
| 2406 | 47.3 | 45.5 | 47.2 | 46.0 | | 50.0 | 41.0 | | 53.5 | 35.0 | | | | | | | |

Table 4 continued.

TROPICAL STORM DOTTIE 17 - 21 AUGUST 1976

| 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. | LONG. | LAT. | LONG. | | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) |
| 1912 | 25.0 | 81.7 | | | | | | | | | | | | | | | |
| 1918 | 26.6 | 80.1 | 26.2 | 80.4 | 29 | 28.7 | 79.8 | 40 | 31.0 | 79.5 | 55 | 35.0 | 79.5 | | | | |
| 2000 | 29.2 | 80.0 | 27.8 | 80.0 | 24 | 32.0 | 79.7 | 109 | 35.0 | 81.0 | 152 | | | | | | |
| 2006 | 29.6 | 80.0 | 30.0 | 79.7 | 27 | 31.0 | 81.0 | 107 | 32.5 | 82.5 | | | | | | | |
| 2012 | 30.6 | 80.0 | 30.5 | 80.1 | 8 | 32.5 | 80.0 | 25 | 34.0 | 79.5 | | 35.0 | 78.0 | | | | |
| 2018 | 32.0 | 80.0 | 31.8 | 80.0 | | 33.5 | 80.0 | | 34.5 | 80.0 | | | | | | | |
| 2100 | 33.0 | 80.0 | 32.7 | 80.0 | | 34.0 | 80.0 | | 35.0 | 80.0 | | | | | | | |

HURRICANE EMMY 20 AUGUST - 4 SEPTEMBER 1976

| 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. | LONG. | LAT. | LONG. | | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) |
| 2212 | 16.2 | 56.0 | 15.9 | 56.7 | 44 | 17.5 | 59.0 | 17 | 19.0 | 61.5 | 13 | 21.0 | 65.0 | 150 | 22.5 | 69.0 | 405 |
| 2218 | 17.0 | 57.2 | 16.9 | 57.5 | 18 | 17.8 | 59.7 | 54 | 19.0 | 62.0 | 68 | 21.0 | 66.0 | 210 | 22.0 | 70.0 | 576 |
| 2300 | 17.8 | 58.6 | 17.2 | 58.4 | 38 | 18.5 | 60.5 | 25 | 20.0 | 63.0 | 42 | 22.0 | 67.0 | 231 | 24.0 | 71.0 | 676 |
| 2306 | 18.6 | 60.0 | 18.5 | 60.0 | 6 | 19.5 | 62.0 | 36 | 21.0 | 64.0 | 96 | 24.0 | 67.0 | 227 | 27.0 | 69.0 | 599 |
| 2312 | 19.4 | 61.0 | 19.6 | 61.0 | 12 | 21.0 | 63.0 | 32 | 23.5 | 64.5 | 30 | 28.5 | 65.0 | 188 | 32.5 | 65.0 | 550 |
| 2318 | 20.2 | 62.0 | 20.1 | 61.8 | 13 | 22.5 | 63.5 | 18 | 25.0 | 65.0 | 42 | 30.0 | 67.0 | 416 | 33.0 | 68.0 | 765 |
| 2400 | 21.3 | 63.2 | 21.3 | 62.8 | 22 | 23.3 | 64.4 | 34 | 25.6 | 65.3 | 83 | 30.0 | 67.0 | 483 | 34.0 | 66.0 | 722 |
| 2406 | 22.7 | 64.0 | 22.4 | 63.6 | 29 | 24.7 | 65.3 | 58 | 26.4 | 66.3 | 183 | 30.5 | 67.0 | 555 | 33.5 | 66.0 | 706 |
| 2412 | 23.8 | 64.5 | 23.8 | 65.0 | 27 | 25.8 | 66.2 | 87 | 27.5 | 67.0 | 243 | 31.0 | 67.0 | 586 | 34.0 | 67.0 | 674 |
| 2418 | 24.5 | 64.8 | 24.7 | 64.8 | 12 | 26.0 | 65.0 | 87 | 27.0 | 65.2 | 257 | 28.5 | 65.5 | 567 | 30.5 | 66.0 | 622 |
| 2500 | 25.3 | 64.2 | 25.4 | 64.7 | 28 | 26.5 | 64.5 | 102 | 28.0 | 64.5 | 274 | 30.0 | 64.5 | 546 | 32.0 | 64.5 | 448 |
| 2506 | 26.0 | 63.4 | 26.1 | 63.8 | 22 | 27.3 | 62.8 | 113 | 28.5 | 62.5 | 243 | 28.5 | 62.5 | 463 | 28.5 | 62.5 | 418 |
| 2512 | 26.5 | 62.1 | 26.5 | 62.1 | 0 | 27.1 | 60.0 | 56 | 27.3 | 59.0 | 150 | 28.0 | 60.0 | 372 | 29.0 | 61.0 | 352 |
| 2518 | 26.6 | 60.4 | 26.7 | 60.0 | 22 | 27.0 | 57.3 | 8 | 27.3 | 55.5 | 66 | 28.0 | 54.0 | 235 | 29.0 | 54.0 | 338 |
| 2600 | 26.8 | 59.0 | 26.8 | 59.1 | 5 | 27.0 | 56.5 | 16 | 27.5 | 55.0 | 109 | 27.5 | 55.0 | 300 | 27.5 | 55.0 | 434 |
| 2606 | 27.0 | 57.8 | 27.0 | 57.6 | 11 | 27.4 | 55.2 | 37 | 28.0 | 53.0 | 109 | 29.0 | 51.0 | 344 | 30.5 | 49.0 | 488 |
| 2612 | 27.2 | 56.2 | 27.1 | 55.9 | 17 | 27.7 | 53.3 | 66 | 28.5 | 51.0 | 186 | 30.0 | 49.0 | 425 | 32.0 | 48.0 | 460 |
| 2618 | 27.7 | 54.8 | 27.9 | 54.6 | 16 | 29.5 | 51.5 | 94 | 31.0 | 50.0 | 203 | 33.0 | 49.0 | 406 | 35.0 | 47.0 | 408 |

Table 4 continued.

CONTINUED.

HURRICANE EMMY 20 AUGUST - 4 SEPTEMBER 1976

| 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. | LONG. | LAT. | LONG. | | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) |
| 2700 | 28.9 | 53.6 | 28.9 | 53.8 | 11 | 31.0 | 51.0 | 149 | 33.0 | 48.0 | 375 | 37.0 | 40.0 | 870 | 42.0 | 32.0 | 1141 |
| 2706 | 29.8 | 53.4 | 30.0 | 53.3 | 13 | 31.2 | 54.2 | 50 | 31.5 | 56.5 | 106 | 32.0 | 60.0 | 225 | 34.0 | 64.0 | 538 |
| 2712 | 30.9 | 53.7 | 30.7 | 53.5 | 16 | 32.0 | 54.0 | 54 | 32.5 | 55.0 | 85 | 34.0 | 57.5 | 66 | 37.0 | 60.0 | 422 |
| 2718 | 31.8 | 54.0 | 31.7 | 54.1 | 8 | 32.8 | 55.2 | 46 | 33.7 | 57.0 | 19 | 35.5 | 59.0 | 171 | 37.5 | 60.5 | 506 |
| 2800 | 32.5 | 55.2 | 32.5 | 55.2 | 0 | 34.0 | 57.0 | 36 | 35.0 | 58.5 | 65 | 38.0 | 60.0 | 321 | 42.0 | 60.0 | 680 |
| 2806 | 33.0 | 56.0 | 33.0 | 56.0 | 0 | 34.2 | 57.8 | 32 | 35.6 | 59.5 | 114 | 38.5 | 58.5 | 326 | 40.0 | 51.0 | 466 |
| 2812 | 33.5 | 56.6 | 33.4 | 56.8 | 12 | 34.5 | 58.5 | 46 | 35.5 | 60.0 | 151 | 38.0 | 60.0 | 423 | 41.0 | 57.0 | 667 |
| 2818 | 34.0 | 57.2 | 34.0 | 57.0 | 10 | 35.0 | 59.2 | 99 | 36.5 | 60.5 | 269 | 39.0 | 60.0 | 526 | 42.0 | 56.0 | 748 |
| 2900 | 34.4 | 57.4 | 34.7 | 57.4 | 18 | 36.0 | 58.0 | 72 | 37.5 | 57.5 | 196 | 41.0 | 55.0 | 458 | 44.0 | 52.0 | 721 |
| 2906 | 34.8 | 57.4 | 34.7 | 57.3 | 8 | 35.0 | 57.0 | 79 | 35.0 | 57.0 | 187 | 37.0 | 55.0 | 424 | 39.0 | 53.0 | 732 |
| 2912 | 35.0 | 56.8 | 34.8 | 56.7 | 13 | 35.5 | 56.0 | 89 | 36.0 | 55.5 | 193 | 38.0 | 54.5 | 503 | 40.0 | 53.0 | 842 |
| 2918 | 35.0 | 55.5 | 35.0 | 55.8 | 15 | 35.0 | 54.5 | 44 | 35.0 | 53.5 | 133 | 35.0 | 52.5 | 461 | 35.0 | 51.5 | 806 |
| 3000 | 35.0 | 54.5 | 35.0 | 53.5 | 49 | 35.0 | 51.0 | 6 | 34.8 | 48.0 | 16 | 34.0 | 43.0 | 195 | 33.0 | 38.0 | 296 |
| 3006 | 35.0 | 53.3 | 35.0 | 52.0 | 64 | 35.0 | 50.0 | 40 | 34.8 | 47.5 | 99 | 34.5 | 43.0 | 290 | 34.0 | 38.0 | 365 |
| 3012 | 34.9 | 52.0 | 34.8 | 52.2 | 12 | 34.5 | 49.5 | 35 | 34.0 | 47.0 | 116 | 33.5 | 42.5 | 297 | 33.0 | 37.0 | 318 |
| 3018 | 34.9 | 50.5 | 34.5 | 51.2 | 42 | 34.2 | 48.2 | 39 | 34.0 | 46.0 | 133 | 33.5 | 41.0 | 279 | 33.0 | 35.0 | 250 |
| 3100 | 34.9 | 48.7 | 34.5 | 49.0 | 28 | 34.5 | 47.0 | 90 | 34.5 | 45.0 | 210 | 34.0 | 42.0 | 424 | 33.0 | 40.0 | 558 |
| 3106 | 34.9 | 46.8 | 34.9 | 46.7 | 5 | 34.6 | 42.8 | 36 | 34.2 | 38.0 | 75 | 34.0 | 33.0 | 60 | 35.0 | 28.0 | 73 |
| 3112 | 35.1 | 44.9 | 35.0 | 44.4 | 25 | 34.5 | 41.5 | 91 | 34.0 | 37.0 | 75 | 34.0 | 31.0 | 58 | 35.0 | 26.0 | 146 |
| 3118 | 35.2 | 42.8 | 35.3 | 42.7 | 8 | 34.5 | 38.5 | 60 | 33.5 | 34.0 | 91 | 33.0 | 27.0 | 139 | 35.0 | 21.0 | 348 |
| 0100 | 35.5 | 40.5 | 35.2 | 40.3 | 21 | 35.5 | 35.0 | 81 | 36.0 | 30.0 | 202 | 36.5 | 22.5 | 308 | 37.5 | 15.0 | 551 |
| 0106 | 35.4 | 38.5 | 35.5 | 37.3 | 59 | 35.6 | 32.8 | 57 | 36.0 | 28.0 | 195 | 37.0 | 18.0 | 440 | 38.0 | 10.0 | 689 |
| 0112 | 35.1 | 36.6 | 35.4 | 36.8 | 21 | 35.0 | 32.5 | 61 | 34.5 | 28.0 | 139 | 35.0 | 20.0 | 424 | 39.0 | 11.0 | |
| 0118 | 34.8 | 34.8 | 34.8 | 34.6 | 10 | 34.8 | 31.0 | 82 | 34.5 | 28.0 | 62 | 35.0 | 23.0 | 264 | 36.5 | 17.0 | |
| 0200 | 34.0 | 33.2 | 34.8 | 33.5 | 50 | 34.5 | 29.5 | 65 | 34.5 | 25.5 | 194 | 35.0 | 19.5 | 456 | 37.0 | 14.0 | |
| 0206 | 33.6 | 32.0 | 33.0 | 31.5 | 44 | 33.0 | 28.0 | 58 | 33.0 | 24.0 | 245 | 34.0 | 18.0 | 462 | 35.0 | 12.0 | |
| 0212 | 33.6 | 30.5 | 33.4 | 31.8 | 66 | 33.5 | 27.5 | 153 | 33.5 | 25.0 | 297 | 35.0 | 20.0 | | 37.0 | 17.0 | |
| 0218 | 34.2 | 29.4 | 34.3 | 29.0 | 21 | 35.8 | 27.8 | 30 | 37.5 | 27.0 | 37 | 40.0 | 28.5 | | 41.0 | 32.0 | |
| 0300 | 35.2 | 28.7 | 36.0 | 28.0 | 59 | 38.0 | 27.0 | 14 | 40.0 | 28.5 | 113 | 41.0 | 32.0 | | 40.0 | 35.5 | |
| 0306 | 36.2 | 28.3 | 37.0 | 27.5 | 62 | 39.0 | 27.5 | 53 | 40.5 | 29.0 | 183 | 41.0 | 32.5 | | 41.0 | 36.0 | |
| 0312 | 37.2 | 28.0 | 37.2 | 28.3 | 14 | 39.5 | 28.0 | 59 | 41.0 | 30.0 | | 43.0 | 32.0 | | 44.0 | 35.0 | |
| 0318 | 38.0 | 27.2 | 38.0 | 28.1 | 43 | 39.7 | 28.0 | 60 | 41.0 | 29.0 | | 43.0 | 32.0 | | 44.0 | 34.0 | |
| 0400 | 38.8 | 26.8 | 37.5 | 28.0 | 58 | 39.5 | 28.0 | 245 | 40.5 | 28.5 | | 42.0 | 30.0 | | | | |
| 0406 | 39.6 | 25.8 | 39.2 | 26.8 | | 41.0 | 27.0 | | 42.0 | 28.0 | | | | | | | |

Table 4 continued.

HURRICANE FRANCES 27 AUGUST - 6 SEPTEMBER 1976

| 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. | LONG. | LAT. | LONG. | | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) |
| 2818 | 14.7 | 45.3 | 14.6 | 45.5 | 13 | 15.2 | 47.5 | 80 | 15.5 | 49.5 | 133 | 16.5 | 54.0 | 217 | 18.0 | 58.0 | 394 |
| 2900 | 15.4 | 46.8 | 15.0 | 46.4 | 33 | 15.8 | 48.5 | 47 | 16.6 | 51.0 | 79 | 18.0 | 55.5 | 166 | 19.0 | 60.0 | 468 |
| 2906 | 16.1 | 48.4 | 16.1 | 47.8 | 35 | 17.5 | 50.5 | 34 | 18.5 | 53.0 | 78 | 19.5 | 57.0 | 205 | 21.1 | 61.1 | 512 |
| 2912 | 16.6 | 49.6 | 16.6 | 49.6 | 0 | 18.0 | 52.5 | 54 | 19.0 | 54.3 | 62 | 21.0 | 58.5 | 223 | 22.5 | 62.5 | 556 |
| 2918 | 17.5 | 50.5 | 17.5 | 50.6 | 6 | 19.0 | 53.5 | 63 | 20.5 | 55.5 | 70 | 22.5 | 59.5 | 253 | 24.0 | 63.0 | 601 |
| 3000 | 18.3 | 51.6 | 18.3 | 51.5 | 13 | 20.2 | 53.6 | 43 | 21.5 | 55.0 | 21 | 24.0 | 57.0 | 150 | 27.0 | 58.0 | 371 |
| 3006 | 18.9 | 52.3 | 18.9 | 52.7 | 23 | 20.0 | 54.7 | 13 | 21.5 | 56.5 | 63 | 24.5 | 58.5 | 233 | 28.0 | 60.0 | 503 |
| 3012 | 19.4 | 53.3 | 19.5 | 53.3 | 6 | 20.5 | 55.5 | 49 | 22.0 | 57.0 | 123 | 25.0 | 59.0 | 317 | 28.5 | 61.0 | 649 |
| 3018 | 20.2 | 54.2 | 20.3 | 54.3 | 8 | 22.3 | 54.5 | 41 | 24.3 | 54.5 | 44 | 27.5 | 52.0 | 44 | 29.5 | 48.5 | 87 |
| 3100 | 21.0 | 54.9 | 21.0 | 55.0 | 6 | 23.0 | 55.0 | 18 | 25.0 | 55.0 | 18 | 27.0 | 54.5 | 180 | 29.0 | 53.0 | 410 |
| 3106 | 22.0 | 55.1 | 22.2 | 54.9 | 16 | 24.3 | 55.0 | 6 | 26.1 | 54.9 | 49 | 30.0 | 53.5 | 212 | 32.0 | 50.0 | 413 |
| 3112 | 23.1 | 55.2 | 23.1 | 54.9 | 17 | 25.2 | 55.0 | 23 | 27.2 | 54.6 | 64 | 30.5 | 52.5 | 252 | 33.0 | 49.0 | 478 |
| 3118 | 24.2 | 55.2 | 24.1 | 55.2 | 6 | 26.5 | 55.2 | 52 | 28.5 | 54.5 | 111 | 31.0 | 52.0 | 299 | 33.5 | 48.0 | 492 |
| 0100 | 25.3 | 54.9 | 25.2 | 55.0 | 8 | 27.5 | 54.5 | 44 | 29.0 | 53.5 | 123 | 31.0 | 51.0 | 329 | 33.0 | 47.0 | 495 |
| 0106 | 26.3 | 54.3 | 26.3 | 54.3 | 0 | 28.4 | 53.0 | 24 | 29.5 | 51.5 | 107 | 32.5 | 48.0 | 337 | 34.0 | 45.0 | 470 |
| 0112 | 27.6 | 53.7 | 27.2 | 53.8 | 13 | 28.8 | 52.0 | 48 | 30.0 | 50.0 | 108 | 32.0 | 45.0 | 116 | 33.0 | 44.0 | |
| 0118 | 27.8 | 52.6 | 28.0 | 52.5 | 21 | 29.2 | 50.0 | 25 | 30.5 | 47.0 | 65 | 31.5 | 41.0 | 319 | 32.0 | 35.0 | |
| 0200 | 28.2 | 51.3 | 28.5 | 51.5 | 11 | 29.0 | 49.0 | 31 | 29.5 | 46.5 | 112 | 30.0 | 43.0 | 402 | 30.5 | 39.0 | |
| 0206 | 28.2 | 50.1 | 28.2 | 49.9 | 20 | 28.0 | 47.0 | 72 | 28.0 | 44.5 | 177 | 28.0 | 40.0 | | 29.0 | 37.0 | |
| 0212 | 28.3 | 48.7 | 28.1 | 49.0 | 5 | 28.0 | 46.5 | 74 | 28.0 | 44.0 | 129 | 28.0 | 40.0 | | 29.0 | 36.0 | |
| 0218 | 28.5 | 47.1 | 28.5 | 47.2 | 26 | 29.2 | 44.4 | 84 | 30.0 | 41.5 | 169 | 30.5 | 36.0 | | 31.0 | 30.0 | |
| 0300 | 28.9 | 45.1 | 28.9 | 45.6 | 32 | 29.2 | 42.8 | 98 | 30.0 | 40.0 | 197 | 30.5 | 35.0 | | 32.0 | 30.0 | |
| 0306 | 29.0 | 42.9 | 29.0 | 43.5 | 47 | 29.5 | 41.0 | 101 | 30.5 | 38.0 | | 31.0 | 33.0 | | 33.0 | 28.0 | |
| 0312 | 29.7 | 40.8 | 29.2 | 41.5 | 40 | 30.0 | 37.0 | 116 | 30.2 | 33.0 | | 31.0 | 26.0 | | 35.0 | 22.0 | |
| 0318 | 30.6 | 39.0 | 30.1 | 39.5 | | 31.2 | 35.0 | | 32.5 | 31.5 | | 36.0 | 27.0 | | 39.0 | 22.0 | |
| 0400 | 32.0 | 37.2 | 31.6 | 37.0 | | 32.5 | 32.0 | | 33.0 | 27.0 | | 36.0 | 21.0 | | 40.0 | 19.0 | |
| 0406 | 33.4 | 35.6 | 33.0 | 35.0 | | 35.0 | 31.5 | | 35.5 | 28.0 | | 38.0 | 23.5 | | 42.0 | 19.0 | |

Table 4 continued.

HURRICANE GLORIA 26 SEPTEMBER - 5 OCTOBER 1976

| 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. | LONG. | LAT. | LONG. | | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) |
| 2712 | 25.7 | 58.0 | 26.0 | 58.0 | 18 | | | | 28.0 | 58.0 | 32 | | | | | | |
| 2718 | 26.3 | 58.0 | 26.5 | 58.0 | 12 | 27.0 | 58.0 | 43 | 28.0 | 58.0 | 58 | 30.0 | 58.0 | 122 | 32.0 | 58.0 | 134 |
| 2800 | 27.0 | 58.0 | 27.0 | 58.0 | 0 | 28.0 | 58.0 | 34 | 29.0 | 58.0 | 82 | 31.0 | 58.0 | 113 | 33.0 | 58.0 | 139 |
| 2806 | 27.5 | 58.2 | 27.5 | 58.0 | 11 | 28.4 | 58.0 | 44 | 30.0 | 58.0 | 99 | 32.0 | 58.0 | 82 | 34.0 | 58.0 | 185 |
| 2812 | 27.8 | 58.6 | 27.7 | 58.5 | 8 | 28.6 | 58.6 | 43 | 29.5 | 59.0 | 58 | 31.5 | 59.0 | 91 | 34.0 | 57.0 | 193 |
| 2818 | 28.2 | 59.0 | 28.1 | 59.1 | 8 | 29.3 | 59.5 | 28 | 30.5 | 59.5 | 52 | 32.0 | 59.0 | 134 | 34.0 | 58.0 | 287 |
| 2900 | 28.6 | 59.5 | 28.9 | 59.1 | 28 | 29.5 | 59.5 | 34 | 31.0 | 59.5 | 29 | 33.0 | 58.5 | 184 | 35.0 | 57.0 | 295 |
| 2906 | 29.1 | 59.8 | 29.2 | 59.7 | 8 | 30.2 | 60.5 | 17 | 31.5 | 60.5 | 63 | 33.5 | 60.0 | 286 | 35.0 | 58.0 | 369 |
| 2912 | 29.7 | 60.2 | 29.7 | 60.2 | 0 | 31.0 | 60.7 | 26 | 32.2 | 60.7 | 110 | 34.5 | 60.0 | 318 | 37.0 | 54.0 | 197 |
| 2918 | 30.2 | 60.3 | 30.2 | 60.2 | 5 | 31.5 | 60.3 | 52 | 32.6 | 60.3 | 168 | 35.0 | 60.0 | 172 | 37.0 | 56.0 | 340 |
| 3000 | 31.1 | 60.2 | 30.7 | 60.0 | 26 | 32.3 | 60.0 | 75 | 33.5 | 59.5 | 186 | 35.5 | 57.5 | 294 | 38.0 | 52.0 | 210 |
| 3006 | 32.2 | 59.8 | 32.0 | 59.9 | 13 | 33.5 | 58.5 | 48 | 35.0 | 56.5 | 79 | 38.0 | 51.0 | 96 | 40.0 | 44.0 | 287 |
| 3012 | 33.1 | 58.8 | 33.0 | 58.9 | 8 | 34.3 | 56.9 | 39 | 35.3 | 54.0 | 21 | 37.0 | 49.0 | 51 | 38.0 | 44.0 | 183 |
| 3018 | 34.0 | 57.5 | 34.0 | 57.4 | 5 | 35.5 | 54.0 | 36 | 36.5 | 50.5 | 100 | 38.0 | 44.0 | 243 | 41.0 | 37.0 | 514 |
| 0100 | 34.7 | 56.1 | 34.7 | 56.2 | 5 | 35.7 | 53.0 | 39 | 36.5 | 49.5 | 111 | 38.5 | 42.5 | 298 | 41.0 | 36.0 | 518 |
| 0106 | 35.3 | 54.8 | 35.1 | 54.8 | 12 | 35.8 | 52.0 | 30 | 36.2 | 49.5 | 64 | 36.5 | 44.5 | 151 | 38.0 | 38.0 | |
| 0112 | 35.7 | 53.7 | 35.9 | 53.3 | 23 | 36.3 | 50.9 | 26 | 36.4 | 48.2 | 72 | 37.0 | 42.0 | 219 | 39.0 | 35.0 | |
| 0118 | 36.1 | 52.6 | 35.7 | 53.6 | 54 | 36.0 | 51.0 | 41 | 36.0 | 49.5 | 39 | 36.0 | 47.5 | 50 | 36.0 | 45.0 | |
| 0200 | 36.4 | 51.7 | 36.2 | 51.5 | 15 | 36.5 | 49.5 | 11 | 37.0 | 47.0 | 58 | 37.5 | 42.0 | 167 | 38.0 | 37.0 | |
| 0206 | 36.6 | 50.8 | 36.3 | 50.5 | 23 | 36.8 | 48.3 | 23 | 37.0 | 46.5 | 66 | 37.5 | 42.0 | | 39.0 | 36.0 | |
| 0212 | 36.8 | 49.9 | 36.6 | 49.8 | 13 | 37.7 | 47.5 | 74 | 37.9 | 45.0 | 143 | 38.0 | 41.0 | | 39.0 | 35.0 | |
| 0218 | 36.9 | 49.0 | 37.1 | 49.0 | 12 | 37.5 | 47.5 | 54 | 38.0 | 45.5 | 121 | 38.5 | 41.5 | | 39.0 | 37.0 | |
| 0300 | 36.8 | 48.3 | 37.3 | 48.0 | 33 | 37.7 | 46.3 | 62 | 38.0 | 44.5 | 108 | 38.5 | 40.0 | | 39.0 | 35.0 | |
| 0306 | 36.4 | 47.6 | 36.5 | 46.8 | 39 | 37.0 | 43.5 | 98 | 37.5 | 41.0 | | 38.5 | 36.0 | | 42.0 | 30.0 | |
| 0312 | 36.2 | 46.9 | 35.9 | 46.9 | 18 | 35.9 | 45.3 | 45 | 35.9 | 44.0 | | 36.0 | 41.0 | | 37.0 | 37.0 | |
| 0318 | 35.8 | 45.8 | 36.1 | 46.5 | | 36.0 | 45.2 | | 36.0 | 44.0 | | 36.5 | 40.0 | | 38.0 | 35.0 | |
| 0400 | 35.7 | 44.6 | | | | | | | | | | | | | | | |

Table 4 continued.

HURRICANE HOLLY 22 - 28 OCTOBER 1976

| 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. | LONG. | LAT. | LONG. | | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) | LAT. | LONG. | (N.MI.) |
| 2318 | 22.5 | 58.0 | | | | | | | | | | | | | | | |
| 2400 | 23.3 | 58.3 | | | | | | | | | | | | | | | |
| 2406 | 24.2 | 58.2 | | | | | | | | | | | | | | | |
| 2412 | 24.9 | 58.1 | 25.1 | 57.6 | 30 | 26.5 | 57.7 | 66 | 28.0 | 57.5 | 197 | 31.0 | 55.0 | 237 | 33.0 | 50.0 | 119 |
| 2418 | 25.8 | 57.8 | 25.9 | 57.7 | 8 | 27.5 | 57.5 | 91 | 29.0 | 57.0 | 232 | 31.5 | 53.5 | 183 | 33.0 | 49.0 | 171 |
| 2500 | 27.2 | 57.5 | 27.2 | 57.5 | 0 | 29.0 | 56.8 | 102 | 30.0 | 55.0 | 167 | 32.0 | 50.0 | 72 | 33.0 | 46.0 | 263 |
| 2506 | 28.7 | 56.7 | 28.9 | 56.8 | 13 | 31.0 | 55.0 | 71 | 32.5 | 52.5 | 15 | 35.0 | 47.0 | 162 | 37.0 | 40.0 | 208 |
| 2512 | 30.4 | 55.7 | 30.8 | 55.0 | 43 | 32.5 | 51.5 | 41 | 35.0 | 47.0 | 219 | 38.0 | 38.0 | 551 | 40.0 | 28.0 | 509 |
| 2518 | 31.7 | 54.0 | 31.5 | 53.5 | 28 | 34.0 | 49.0 | 174 | 36.0 | 45.0 | 322 | 38.5 | 36.0 | 582 | 40.0 | 27.0 | 432 |
| 2600 | 32.2 | 53.0 | 32.2 | 50.5 | 127 | 32.8 | 45.8 | 153 | 33.5 | 41.0 | 331 | 34.0 | 34.0 | 495 | | | |
| 2606 | 32.3 | 52.1 | 33.4 | 48.8 | 179 | 34.4 | 44.0 | 155 | 35.0 | 40.0 | 329 | 36.0 | 34.0 | 375 | | | |
| 2612 | 32.5 | 51.3 | 32.5 | 51.3 | 0 | 33.0 | 49.5 | 33 | 33.5 | 47.5 | 119 | 34.0 | 43.5 | 521 | | | |
| 2618 | 32.6 | 50.3 | 32.7 | 50.5 | 12 | 33.2 | 49.0 | 77 | 33.5 | 47.5 | 137 | 35.0 | 41.0 | 651 | | | |
| 2700 | 33.2 | 50.1 | 33.0 | 49.8 | 19 | 34.5 | 47.0 | 109 | 36.0 | 43.5 | 115 | | | | | | |
| 2706 | 33.9 | 50.0 | 34.0 | 50.0 | 6 | 34.5 | 49.5 | 103 | 36.0 | 47.5 | 258 | | | | | | |
| 2712 | 34.6 | 49.5 | 33.5 | 49.0 | 71 | 35.5 | 48.5 | 154 | 37.0 | 47.0 | 443 | | | | | | |
| 2718 | 35.6 | 48.0 | 35.7 | 48.1 | 8 | 38.0 | 44.0 | 57 | 40.0 | 40.0 | 365 | | | | | | |
| 2800 | 37.1 | 45.9 | 37.2 | 45.3 | 29 | 40.0 | 40.0 | 141 | 41.5 | 35.0 | 390 | | | | | | |
| 2806 | 38.8 | 43.5 | 39.4 | 42.8 | 49 | 43.0 | 36.0 | 162 | 46.0 | 30.0 | | | | | | | |
| 2812 | 42.1 | 39.5 | 41.5 | 39.5 | 36 | 48.0 | 31.0 | 133 | 49.0 | 22.0 | | | | | | | |
| 2818 | 44.8 | 35.0 | 45.0 | 35.0 | | 49.0 | 24.0 | | | | | | | | | | |
| 2900 | 46.5 | 30.0 | | | | | | | | | | | | | | | |

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LEGEND FOR TABLE 5

Key to fix characteristics

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 $\frac{1}{2}$ 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.

RECONNAISSANCE:

Navigational Accuracy/Meteorological Accuracy

RADAR:

U. S. radar station identifiers

HAT = Cape Hatteras, NC

Wilmington, NC

ORF = Norfolk, VA

ACY = Atlantic City, NJ

NHK = Patuxent River, MD

= New York City, NY

= Daytona Beach, FL

= Charleston, SC

Table 5. Center fix positions and intensity evaluations for 1976 tropical cyclones.

TROPICAL STORM ANNA
28 JULY - 6 AUGUST 1976

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | ACFT. ALT. | MIN. PRESS. (MB) | MIN. HT. (M) | TEMP. (°C) | | EYE | | REMARKS | |
|---------|------|------------|----------|------|--------|--------------|----------------|------|------------|------------------|--------------|------------|------|---------|-------|---------|--|
| | | | LAT. | LON. | | | FLT. | SFC. | | | | IN. | OUT. | C-CIR. | DIA. | | |
| | | | °N | °W | | | LVL. | | | | | | | C-ELIP. | N.MI. | | |
| 1 | 28 | 1830 | 28.0 | 52.2 | GOES 1 | 3, VSBL 2 | | | | | | | | | | | |
| 2 | 29 | 0600 | 28.2 | 50.1 | GOES 1 | 2, 3, IR 8 | | 25 | | | | | | | | | |
| 3 | 29 | 1200 | 28.1 | 50.0 | GOES 1 | 3, VSBL 2 | | | | | | | | | | | |
| 4 | 29 | 1230 | 28.2 | 49.9 | GOES 1 | 2, 3, VSBL 2 | | 25 | | | | | | | | | |
| 5 | 29 | 1830 | 27.9 | 48.0 | GOES 1 | 5, VSBL 2 | | | | | | | | | | | |
| 6 | 30 | 0030 | 28.3 | 45.6 | GOES 1 | 1, 5, IR 8 | | 30 | | | | | | | | | |
| 7 | 30 | 0630 | 30.0 | 41.9 | GOES 1 | 2, 5, IR 8 | | 30 | | | | | | | | | |
| 8 | 30 | 1200 | 30.1 | 39.9 | GOES 1 | 3, VSBL 2 | | | | | | | | | | | |
| 9 | 30 | 1230 | 30.1 | 39.9 | GOES 1 | 2, 3, VSBL 2 | | 40 | | | | | | | | | |
| 10 | 30 | 1800 | 30.4 | 38.2 | GOES 1 | 3, VSBL 2 | | | | | | | | | | | |
| 11 | 30 | 1830 | 30.4 | 38.1 | GOES 1 | 2, 3, VSBL 2 | | 40 | | | | | | | | | |
| 12 | 31 | 0000 | 31.2 | 36.0 | GOES 1 | 6, IR 8 | | | | | | | | | | | |
| 13 | 31 | 0030 | 31.6 | 35.7 | GOES 1 | 1, 5, IR 8 | | 40 | | | | | | | | | |
| 14 | 31 | 0600 | 31.9 | 33.5 | GOES 1 | 5, IR 8 | | | | | | | | | | | |
| 15 | 31 | 0630 | 32.0 | 33.0 | GOES 1 | 2, 5, IR 8 | | 40 | | | | | | | | | |
| 16 | 31 | 1200 | 32.3 | 31.7 | GOES 1 | 3, VSBL 2 | | | | | | | | | | | |
| 17 | 31 | 1230 | 32.4 | 31.5 | GOES 1 | 1, 3, VSBL 2 | | 40 | | | | | | | | | |
| 18 | 31 | 1800 | 33.0 | 29.8 | GOES 1 | 3, VSBL 2 | | | | | | | | | | | |
| 19 | 31 | 1830 | 33.1 | 29.7 | GOES 1 | 1, 3, VSBL 2 | | 40 | | | | | | | | | |
| 20 | 01 | 0002 | 34.3 | 26.0 | GOES 1 | 6, IR 8 | | | | | | | | | | | |
| 21 | 01 | 0030 | 34.4 | 25.9 | GOES 1 | 1, 6, IR 8 | | 35 | | | | | | | | | |

Table 5 continued.

HURRICANE BELLE
6 - 10 AUGUST 1976

CENTER FIXES

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | ACFT. ALT. | MIN. PRESS. (MB) | MIN. 700MB HT. (M) | TEMP. (°C) | | EYE | | REMARKS |
|---------|------|------------|----------|----------|--------|--------------|----------------|------|------------|------------------|--------------------|------------|------|---------------------------|----|-----------------------------|
| | | | LAT. °N | LONG. °W | | | FLT. LVL. | SFC. | | | | IN. | OUT. | C-CIR. DIA. C-ELIP. N.MI. | | |
| 1 | 5 | 1300 | 25.5 | 75.5 | GOES 1 | 5, VSBL 2 | | | | | | | | | | |
| 2 | 6 | 0030 | 26.1 | 73.2 | GOES 1 | 1, 5, IR 8 | | 25 | | | | | | | | |
| 3 | 6 | 0500 | 26.0 | 72.9 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 4 | 6 | 0630 | 26.0 | 72.7 | GOES 1 | 2, 5, IR 8 | | 25 | | | | | | | | |
| 5 | 6 | 1200 | 26.3 | 73.0 | GOES 1 | 5, VSBL 2 | | | | | | | | | | |
| 6 | 6 | 1224 | 25.6 | 73.5 | AF | 10/10 | 35 | 28 | 369M | 1014 | | 23 | 23 | E01/25/15 | | POORLY DEFINED. |
| 7 | 6 | 1230 | 26.4 | 73.1 | GOES 1 | 1, 5, VSBL 2 | | 25 | | | | | | | | |
| 8 | 6 | 1412 | 26.3 | 73.1 | AF | 5/5 | | 50 | 418M | 1011 | | 23 | 23 | C | 10 | WALL FORMING. WELL DEFINED. |
| 9 | 6 | 1800 | 26.2 | 73.1 | GOES 1 | 3, VSBL 2 | | | | | | | | | | |
| 10 | 6 | 1830 | 26.2 | 73.4 | GOES 1 | 2, 3, VSBL 2 | | 30 | | | | | | | | |
| 11 | 7 | 0030 | 26.1 | 72.9 | GOES 1 | 2, 5, IR 8 | | 40 | | | | | | | | |
| 12 | 7 | 0030 | 25.6 | 73.2 | AF | 5/5 | 30 | | 700MB | 1002 | 3085 | 11 | 10 | | | |
| 13 | 7 | 0252 | 26.1 | 73.1 | AF | | 48 | | 700MB | 1003 | 3085 | 11 | 8 | | | |
| 14 | 7 | 0500 | 26.0 | 73.2 | AF | 10/5 | 45 | | 700MB | 1002 | 3085 | 11 | 9 | | | |
| 15 | 7 | 0630 | 25.8 | 73.1 | GOES 1 | 1, 3, IR 8 | | 45 | | | | | | | | |
| 16 | 7 | 1200 | 26.3 | 73.6 | GOES 1 | 1, VSBL 2 | | | | | | | | | | |
| 17 | 7 | 1200 | 26.2 | 73.7 | AF | 3/3 | 50 | 50 | 700MB | 993 | 3005 | 10 | 9 | | | POORLY DEFINED. |
| 18 | 7 | 1230 | 26.2 | 73.7 | GOES 1 | 1, 1, VSBL 2 | | 55 | | | | | | | | |
| 19 | 7 | 1430 | 26.3 | 73.8 | AF | 3/3 | 55 | 70 | 700MB | 990 | 2987 | 12 | 10 | C | 20 | CLOSED WALL 5 N. MI. |
| 20 | 7 | 1730 | 26.7 | 74.0 | GOES 1 | 1, VSBL 4 | | | | | | | | | | |
| 21 | 7 | 1756 | 26.6 | 74.3 | AF | 3/2 | 78 | | 700MB | 987 | 2969 | 13 | 8 | C | 20 | CLOSED WALL. |
| 22 | 7 | 1830 | 26.6 | 74.3 | GOES 1 | 1, 1, VSBL 2 | | 65 | | | | | | | | |
| 23 | 7 | 1919 | 26.7 | 74.4 | AF | | 78 | | 700MB | 981 | 2926 | 13 | 8 | | | |
| 24 | 7 | 2133 | 26.7 | 74.4 | AF | | 82 | | 700MB | 975 | 2877 | | | | | |
| 25 | 7 | 2305 | 26.9 | 74.5 | AF | 3/2 | 82 | 80 | 700MB | 973 | 2862 | 15 | 8 | C | 15 | CLOSED WALL. |
| 26 | 8 | 0000 | 26.9 | 74.5 | GOES 1 | 2, IR 8 | | | | | | | | | | |
| 27 | 8 | 0030 | 27.1 | 74.8 | GOES 1 | 2, 2, IR 8 | | 77 | | | | | | | | |
| 28 | 8 | 0520 | 27.4 | 75.2 | AF | 5/5 | 85 | | 700MB | 961 | 2774 | 15 | 9 | C | 15 | CLOSED WALL. |
| 29 | 8 | 0600 | 27.4 | 75.1 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 30 | 8 | 0630 | 27.5 | 75.2 | GOES 1 | 2, 1, IR 8 | | 84 | | | | | | | | |
| 31 | 8 | 0657 | 27.6 | 75.3 | AF | | 80 | | 700MB | | 2771 | | | | | |
| 32 | 8 | 0832 | 27.7 | 75.3 | AF | | 85 | | 700MB | | 2746 | | | | | |
| 33 | 8 | 1100 | 27.9 | 75.1 | GOES 1 | 1, VSBL 1 | | | | | | | | | | |
| 34 | 8 | 1102 | 28.1 | 75.3 | AF | 5/3 | 100 | 90 | 700MB | 964 | 2804 | 17 | 11 | C | 10 | EYE LESS WELL DEFINED. |
| 35 | 8 | 1201 | 28.1 | 75.2 | GOES 1 | 1, VSBL 2 | | | | | | | | | | |

Table 5 continued.

HURRICANE BELLE (CONTINUED)

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | CENTER FIXES | | TEMP. (°C) | | EYE | | REMARKS | |
|---------|------|------------|----------|---------|--------|------------|----------------|------|--------------|------------------|--------------|-----|------|--------|---------|---------------------|
| | | | LAT. °N | LON. °W | | | FLT. LVL. | SFC. | ACFT. ALT. | MIN. PRESS. (MB) | MIN. HT. (M) | IN. | OUT. | C=CIR. | | DIA. N.MI. |
| 36 | 8 | 1301 | 28.5 | 75.1 | GOES 1 | 1,1,VSBL 4 | | 84 | | | | | | | | |
| 37 | 8 | 1536 | 28.8 | 75.4 | NOAA | | 95 | 95 | 500MB | 964 | 5562 | | | | | |
| 38 | 8 | 1801 | 29.3 | 75.3 | GOES 1 | 1,VSBL 1 | | | | | | | | | | |
| 39 | 8 | 1803 | 29.4 | 75.4 | NOAA | 1/7 | 115 | 80 | 700MB | 964 | 2762 | 17 | 9 | C | 25 | OPEN SW. |
| 40 | 8 | 1831 | 29.5 | 75.4 | GOES 1 | 1,1,VSBL 2 | | 84 | | | | | | | | |
| 41 | 8 | 1931 | 29.7 | 75.3 | GOES 1 | 1,VSBL 1 | | | | | | | | | | |
| 42 | 8 | 2002 | 29.8 | 75.4 | NOAA | | 130 | | 457M | 965 | | | | | | |
| 43 | 8 | 2008 | 29.8 | 75.4 | AF | | 110 | 110 | 700MB | 959 | 2740 | 16 | 11 | | | |
| 44 | 8 | 2106 | 30.2 | 75.3 | AF | | 102 | 120 | 700MB | 959 | 2738 | 16 | 11 | C | 10 | |
| 45 | 8 | 2200 | 30.6 | 75.4 | GOES 1 | 3,VSBL 1 | | | | | | | | | | |
| 46 | 8 | 2251 | 30.6 | 75.3 | AF | 8/2 | 104 | 120 | 700MB | 957 | 2727 | 17 | 13 | C | 10 | CLOSED WALL. |
| 47 | 8 | 2348 | 30.8 | 75.2 | AF | 4/2 | 58 | 80 | 700MB | 957 | 2740 | 16 | 14 | C | 10 | WELL DEFINED. |
| 48 | 9 | 0230 | 31.1 | 75.0 | GOES 1 | 2,1, IR 8 | | 90 | | | | | | | | |
| 49 | 9 | 0200 | 31.5 | 75.0 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 50 | 9 | 0249 | 31.6 | 75.5 | AF | 5/5 | 80 | | 700MB | 964 | 2768 | 16 | 13 | C | 10 | OPEN SE. |
| 51 | 9 | 0330 | 31.8 | 75.2 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 52 | 9 | 0434 | 32.1 | 75.3 | AF | 5/5 | 80 | | 700MB | | 2768 | | | C | 10 | OPEN SE. |
| 53 | 9 | 0500 | 32.2 | 75.2 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 54 | 9 | 0510 | 32.2 | 75.2 | HAT | RADAR | | | | | | | | | 25 | 60% CLOSED NW-N-E. |
| 55 | 9 | 0535 | 32.4 | 75.2 | ILM | RADAR | | | | | | | | | 12 | FAIR FIX. |
| 56 | 9 | 0605 | 32.5 | 75.2 | ILM | RADAR | | | | | | | | | 15 | POOR FIX. |
| 57 | 9 | 0611 | 32.6 | 75.3 | AF | 5/5 | 80 | | 700MB | 963 | 2758 | 14 | 12 | C | 10 | OPEN SE. |
| 58 | 9 | 0630 | 32.4 | 75.2 | GOES 1 | 2,1, IR 8 | | 90 | | | | | | | | |
| 59 | 9 | 0728 | 32.9 | 75.2 | AF | 5/5 | 55 | | 700MB | | 2765 | | | C | 10 | OPEN SE. |
| 60 | 9 | 0830 | 33.2 | 75.1 | AF | 5/5 | 110 | | 700MB | 967 | 2786 | | | C | 10 | OPEN SE. |
| 61 | 9 | 0835 | 33.2 | 75.1 | ILM | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. |
| 62 | 9 | 0835 | 33.2 | 75.2 | HAT | RADAR | | | | | | | | | 30 | |
| 63 | 9 | 0905 | 33.2 | 75.0 | HAT | RADAR | | | | | | | | | 30 | |
| 64 | 9 | 0910 | 33.2 | 75.1 | ILM | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. |
| 65 | 9 | 0935 | 33.5 | 74.8 | HAT | RADAR | | | | | | | | | 30 | |
| 66 | 9 | 0935 | 33.3 | 75.0 | ILM | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. |
| 67 | 9 | 1005 | 33.7 | 74.9 | HAT | RADAR | | | | | | | | | 20 | FAIR FIX. |
| 68 | 9 | 1007 | 33.3 | 75.0 | ILM | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. |
| 69 | 9 | 1031 | 33.8 | 74.9 | HAT | RADAR | | | | | | | | | 20 | GOOD FIX. |
| 70 | 9 | 1035 | 33.9 | 74.9 | ILM | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. |
| 71 | 9 | 1107 | 34.2 | 74.8 | ILM | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. |
| 72 | 9 | 1116 | 34.3 | 74.9 | AF | 4/4 | 64 | 70 | 700MB | 965 | 2785 | 17 | 13 | C | 15 | WELL DEFINED. |

Table 5 continued.

HURRICANE BELLE (CONTINUED)

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | MIN. PRESS. (MB) | MIN. HT. (M) | TEMP. (°C) | | EYE | | REMARKS | |
|---------|------|------------|----------|---------|--------|--------------|----------------|------------|------------------|--------------|------------|------|-------------|---------------|-------------------------------|--------------------------------|
| | | | LAT. N | LONG. W | | | FLT. LVL. | ACFT. SPC. | | | IN. | OUT. | C-CIR. DIA. | C-ELIP. N.MI. | | |
| 73 | 9 | 1131 | 34.2 | 74.9 | HAT | RADAR | | | | | | | | 20 | | |
| 74 | 9 | 1135 | 34.2 | 74.7 | ILM | RADAR | | | | | | | | | 15° SPIRAL OVERLAY. | |
| 75 | 9 | 1200 | 34.1 | 74.8 | GOES 1 | 3, VSBL 2 | | | | | | | | | | |
| 76 | 9 | 1205 | 34.4 | 74.6 | ILM | RADAR | | | | | | | | | 15° SPIRAL OVERLAY. | |
| 77 | 9 | 1205 | 34.2 | 74.8 | HAT | RADAR | | | | | | | | 10 | | |
| 78 | 9 | 1228 | 34.7 | 74.8 | AF | 2/2 | 88 | 75 | 700MB | 965 | 2794 | 17 | 15 | C | 20 | OPEN SW. |
| 79 | 9 | 1231 | 34.5 | 74.7 | GOES 1 | 1, 3, VSBL 2 | | 90 | | | | | | | | |
| 80 | 9 | 1235 | 34.1 | 74.7 | HAT | RADAR | | | | | | | | E | 10 | |
| 81 | 9 | 1305 | 34.6 | 74.8 | HAT | RADAR | | | | | | | | | 15 | |
| 82 | 9 | 1329 | 34.9 | 74.6 | HAT | RADAR | | | | | | | | | GOOD FIX. | |
| 83 | 9 | 1347 | 35.2 | 74.6 | AF | 2/2 | 90 | 75 | 700MB | 965 | 2794 | 16 | 14 | C | 5 | GOOD FIX. WALL DISSIPATING. |
| 84 | 9 | 1400 | 35.2 | 74.6 | HAT | RADAR | | | | | | | | | GOOD FIX. | |
| 85 | 9 | 1435 | 35.3 | 74.6 | HAT | RADAR | | | | | | | | | 25 | POORLY DEFINED. |
| 86 | 9 | 1453 | 35.5 | 74.2 | AF | 2/2 | 80 | 80 | 700MB | 965 | 2811 | 17 | 14 | C | 25 | OPEN SW. |
| 87 | 9 | 1505 | 35.6 | 74.6 | HAT | RADAR | | | | | | | | | GOOD FIX. | |
| 88 | 9 | 1525 | 35.7 | 74.3 | ORF | RADAR | | | | | | | | | PROBABLE CENTER. 15° OVERLAY. | |
| 89 | 9 | 1535 | 35.7 | 74.5 | HAT | RADAR | | | | | | | | | FAIR FIX. | |
| 90 | 9 | 1551 | 35.7 | 74.5 | HAT | RADAR | | | | | | | | | FAIR FIX. | |
| 91 | 9 | 1551 | 36.0 | 74.3 | ORF | RADAR | | | | | | | | | PROBABLE CENTER. 15° OVERLAY. | |
| 92 | 9 | 1600 | 35.7 | 74.5 | HAT | RADAR | | | | | | | | | FAIR FIX. | |
| 93 | 9 | 1630 | 36.1 | 74.3 | HAT | RADAR | | | | | | | | | FAIR FIX. | |
| 94 | 9 | 1700 | 36.2 | 74.3 | HAT | RADAR | | | | | | | | | FAIR FIX. | |
| 95 | 9 | 1700 | 36.4 | 74.3 | ORF | RADAR | | | | | | | | | FAIR FIX. 15° OVERLAY. | |
| 96 | 9 | 1730 | 36.6 | 74.3 | ORF | RADAR | | | | | | | | | FAIR FIX. POSSIBLE CENTER. | |
| 97 | 9 | 1732 | 36.9 | 74.6 | ACY | RADAR | | | | | | | | | | |
| 98 | 9 | 1735 | 36.4 | 74.1 | HAT | RADAR | | | | | | | | | | |
| 99 | 9 | 1800 | 36.8 | 74.5 | AF | 10/5 | 90 | 70 | 700MB | 971 | 2841 | 15 | 8 | C | 10 | WELL DEFINED. |
| 100 | 9 | 1801 | 36.9 | 74.2 | GOES 1 | 3, VSBL 2 | | | | | | | | | | |
| 101 | 9 | 1830 | 36.8 | 74.6 | ACY | RADAR | | | | | | | | | | |
| 102 | 9 | 1831 | 37.0 | 74.2 | GOES 1 | 1, 3, VSBL 2 | | 90 | | | | | | | | |
| 103 | 9 | 1835 | 36.4 | 73.8 | HAT | RADAR | | | | | | | | | | |
| 104 | 9 | 1902 | 36.9 | 74.0 | HAT | RADAR | | | | | | | | | | |
| 105 | 9 | 1920 | 37.4 | 74.5 | AF | 10/5 | 90 | 70 | 700MB | 971 | 2850 | 16 | 11 | C | 10 | WELL DEFINED. |
| 106 | 9 | 1930 | 37.5 | 74.4 | ORF | RADAR | | | | | | | | | 15 | FAIR FIX. |
| 107 | 9 | 1931 | 37.1 | 74.4 | ACY | RADAR | | | | | | | | | | |
| 108 | 9 | 1935 | 37.0 | 73.9 | NHK | RADAR | | | | | | | | | 15° OVERLAY. | |

Table 5 continued.

HURRICANE BELLE (CONTINUED)

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | CENTER FIXES | | | | | | REMARKS | | | |
|---------|------|------------|-----------|-----------|--------|------------|----------------|------|------------------------|--------------|------------|-----|---------|------|--------|-------------------------------|
| | | | LAT. N | LON. W | | | MAX. WIND (KT) | | MIN. PRESS. 700MB (MB) | MIN. HT. (M) | TEMP. (°C) | | | EYE | | |
| | | | | | | | FLT. LVL. | SFC. | | | ACFT. ALT. | IN. | | OUT. | C-CIR. | DIA. C-ELIP. N.MI. |
| 109 | 9 | 2000 | 37.4 | 74.1 | NHK | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. |
| 110 | 9 | 2000 | 37.2 | 73.8 | HAT | RADAR | | | | | | | | | | 20° SPIRAL OVERLAY. |
| 111 | 9 | 2011 | 37.3 | 74.2 | ACY | RADAR | | | | | | | | | | POOR FIX. |
| 112 | 9 | 2035 | 37.2 | 74.1 | NHK | RADAR | | | | | | | | | | POOR FIX. |
| 113 | 9 | 2035 | 37.3 | 74.0 | ACY | RADAR | | | | | | | | | | POOR FIX. |
| 114 | 9 | 2039 | 37.7 | 74.4 | AF | | 40 | 65 | 700MB | 974 | 2850 | 14 | 6 | C | 15 | WALL BECOMING FULLY DEFINED. |
| 115 | 9 | 2100 | 37.8 | 74.0 | ORF | RADAR | | | | | | | | | | POOR FIX. |
| 116 | 9 | 2135 | 37.6 | 74.4 | ACY | RADAR | | | | | | | | | | POOR FIX. |
| 117 | 9 | 2135 | 37.6 | 74.7 | NHK | RADAR | | | | | | | | | | FAIR FIX. |
| 118 | 9 | 2147 | 38.1 | 74.1 | AF | | 40 | 45 | 700MB | 974 | 2856 | | | | | |
| 119 | 9 | 2203 | 37.8 | 74.3 | ACY | RADAR | | | | | | | | | | FAIR FIX. 15° SPIRAL OVERLAY. |
| 120 | 9 | 2203 | 37.8 | 74.5 | NHK | RADAR | | | | | | | | | | FAIR FIX. |
| 121 | 9 | 2230 | 38.7 | 73.3 | GOES 1 | 3, VSEL 1 | | | | | | | | | | |
| 122 | 9 | 2230 | 38.3 | 74.3 | NYC | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. FAIR FIX. |
| 123 | 9 | 2233 | 38.1 | 74.3 | ACY | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. POOR FIX. |
| 124 | 9 | 2235 | 37.9 | 73.6 | NHK | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. |
| 125 | 9 | 2305 | 38.5 | 73.9 | ACY | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. POOR FIX. |
| 126 | 9 | 2312 | 38.2 | 73.6 | NHK | RADAR | | | | | | | | | | 20° SPIRAL OVERLAY. |
| 127 | 9 | 2318 | 38.7 | 73.9 | AF | 10/5 | 100 | 80 | 700MB | 975 | 2865 | 13 | 11 | C | 30 | POORLY DEFINED. |
| 128 | 9 | 2330 | 38.7 | 74.0 | NYC | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. POOR FIX. |
| 129 | 9 | 2331 | 38.5 | 74.4 | ACY | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. POOR FIX. |
| 130 | 9 | 2335 | 38.4 | 73.4 | NHK | RADAR | | | | | | | | | | 20° SPIRAL OVERLAY. |
| 131 | 10 | 0030 | 39.5 | 73.5 | GOES 1 | 1, 3, IR 8 | | | 77 | | | | | | | |
| 132 | 10 | 0035 | 38.7 | 73.9 | NYC | RADAR | | | | | | | | | | |
| 133 | 10 | 0100 | 39.0 | 73.8 | NYC | RADAR | | | | | | | | | | |
| 134 | 10 | 0130 | 39.6 | 73.3 | NYC | RADAR | | | | | | | | | | FAIR FIX. |
| 135 | 10 | 0201 | 39.6 | 73.8 | AF | | 40 | | 700MB | | 2890 | | | | | POORLY DEFINED. |
| 136 | 10 | 0230 | 39.8 | 73.6 | NYC | RADAR | | | | | | | | | | FAIR FIX. |
| 137 | 10 | 0305 | 39.9 | 73.6 | NYC | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. FAIR FIX. |
| 138 | 10 | 0310 | 40.3 | 73.4 | ACY | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. FAIR FIX. |
| 139 | 10 | 0330 | 40.2 | 73.5 | NYC | RADAR | | | | | | | | | | FAIR FIX. |
| 140 | 10 | 0349 | 40.2 | 73.6 | AF | 5/2 | 58 | | 700MB | 982 | 2890 | 15 | 13 | | | |
| 141 | 10 | 0405 | 40.3 | 73.5 | NYC | RADAR | | | | | | | | | | POOR FIX. |
| 142 | 10 | 0430 | 40.5 | 73.6 | NYC | RADAR | | | | | | | | | | VERY POOR FIX. |
| 143 | 10 | 0505 | 40.7 | 73.6 | NYC | RADAR | | | | | | | | | | GOOD FIX. |
| 144 | 10 | 0507 | 40.7 | 73.5 | AF | 5/2 | 73 | | 700MB | | | 13 | 9 | | | |
| 145 | 10 | 0553 | 41.0 | 73.5 | AF | 5/2 | 50 | | 700MB | | | 11 | 9 | | | |
| 146 | 10 | 0656 | 41.3 | 73.4 | AF | 5/2 | | | 700MB | | | 11 | 11 | | | |

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Table 5 continued.

HURRICANE CANDICE
18 - 24 AUGUST 1976

CENTER FIXES

| FLX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | ACFT. ALT. | MIN. PRESS. (MB) | MIN. 700MB HT. (M) | TEMP (°C) | | EYE C-CIR. DIA. E-ELIP. N.MI. | | REMARKS |
|------------|------|---------------|------------|-----------|--------|------------|----------------|------|---------------|------------------------|--------------------------|-----------|------|-------------------------------------|----|---------------------------------|
| | | | LAT. °N | LN. °W | | | FLT. LVL. | SFC. | | | | IN. | OUT. | | | |
| 1 | 17 | 1830 | 30.2 | 71.3 | GOES 1 | 2,5,VSBL 2 | | | | | | | | | | |
| 2 | 18 | 0030 | 30.4 | 69.6 | GOES 1 | 2,5, IR 8 | | | | | | | | | | |
| 3 | 18 | 0630 | 29.9 | 69.3 | GOES 1 | 2,5, IR 8 | | | | | | | | | | |
| 4 | 18 | 1230 | 31.7 | 68.2 | GOES 1 | 2,5,VSBL 2 | | | | | | | | | | |
| 5 | 18 | 1800 | 33.7 | 67.7 | GOES 1 | 5,VSBL 2 | | | | | | | | | | |
| 6 | 18 | 1830 | 34.0 | 67.7 | GOES 1 | 2,5,VSBL 2 | | | | | | | | | | |
| 7 | 18 | 2042 | 34.2 | 66.8 | AF | 5/5 | 35 | 35 | 457M | 996 | | 22 | 22 | | | |
| 8 | 18 | 2331 | 35.2 | 66.5 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 9 | 19 | 0030 | 35.3 | 66.3 | GOES 1 | 2,3, IR 8 | | | | | | | | | | |
| 10 | 19 | 0600 | 37.0 | 65.3 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 11 | 19 | 0610 | 36.3 | 65.9 | AF | | 40 | | 700MB | 1004 | 3100 | 14 | 12 | C | 6 | PRESSURE AND EYE SIZE DOUBTFUL. |
| 12 | 19 | 0630 | 37.0 | 65.2 | GOES 1 | 1,5, IR 8 | | 45 | | | | | | | | |
| 13 | 19 | 1154 | 37.5 | 65.2 | AF | 5/5 | 55 | 55 | 457M | 996 | | 23 | | | | |
| 14 | 19 | 1200 | 37.8 | 65.0 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 15 | 19 | 1230 | 37.8 | 65.0 | GOES 1 | 1,3,VSBL 2 | | 45 | | | | | | | | |
| 16 | 19 | 1341 | 37.6 | 64.9 | AF | | 35 | 35 | 198M | 997 | | | | | | |
| 17 | 19 | 1502 | 37.9 | 64.6 | AF | | 65 | 65 | 323M | 996 | | | | | | |
| 18 | 19 | 1653 | 38.2 | 64.5 | AF | | | | 700MB | | 3069 | | | | | |
| 19 | 19 | 1701 | 38.0 | 64.4 | AF | 2/5 | 30 | 40 | 700MB | 999 | 3019 | 15 | 11 | | | 700MB CENTER NE OF SFC CENTER. |
| 20 | 19 | 1930 | 38.0 | 64.0 | GOES 1 | 1,VSBL 2 | | | | | | | | | | |
| 21 | 19 | 1830 | 38.1 | 64.1 | GOES 1 | 1,1,VSBL 2 | | 45 | | | | | | | | |
| 22 | 20 | 0000 | 39.0 | 63.7 | AF | 5/5 | 30 | 40 | 850MB | 1006 | 1472 | 18 | 17 | | | NO EYE. CENTER DIFFUSED. |
| 23 | 20 | 0001 | 38.8 | 63.5 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 24 | 20 | 0030 | 38.8 | 63.5 | GOES 1 | 2,3, IR 8 | | 45 | | | | | | | | |
| 25 | 20 | 0500 | 39.8 | 63.3 | AF | 5/5 | | | 850MB | 1004 | 1454 | 19 | | | | |
| 26 | 20 | 0601 | 39.9 | 62.6 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 27 | 20 | 0630 | 40.0 | 62.5 | GOES 1 | 1,3, IR 8 | | 45 | | | | | | | | |
| 28 | 20 | 1200 | 40.1 | 61.8 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 29 | 20 | 1230 | 40.2 | 61.7 | GOES 1 | 1,3,VSBL 2 | | 45 | | | | | | | | |
| 30 | 20 | 1528 | 40.9 | 61.3 | AF | 10/4 | 20 | 20 | 700MB | 997 | 3045 | 11 | 8 | C | 15 | POORLY DEFINED. |
| 31 | 20 | 1721 | 40.8 | 61.5 | AF | 5/5 | 32 | 40 | 700MB | 997 | 3054 | 11 | 8 | C | 15 | OPEN N-E. |
| 32 | 20 | 1800 | 40.9 | 60.9 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 33 | 20 | 1830 | 40.6 | 61.1 | GOES 1 | 1,5,VSBL 2 | | 45 | | | | | | | | |
| 34 | 21 | 0030 | 41.3 | 60.0 | GOES 1 | 2,3 IR 8 | | 45 | | | | | | | | |

Table 5 continued.

HURRICANE CANDICE CONTINUED

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER | MAX. WIND(KT) | | ACFT. ALT. | MIN. PRESS. (MB) | MIN. 700MB HT.(M) | TEMP.(°C) | | EYE | | REMARKS |
|---------|------|------------|----------|----------|--------|------------|---------------|------|------------|------------------|-------------------|-----------|------|---------------------------|----|------------------------------|
| | | | LAT. °N | LONG. °W | | | FLT. LVL. | SFC. | | | | IN. | OUT. | C-CIR. DIA. E-ELIP. N.MI. | | |
| 35 | 21 | 0240 | 40.9 | 59.6 | AF | | 55 | | 700MB | | 2984 | | | | | |
| 36 | 21 | 0302 | 41.0 | 59.6 | AF | 3/3 | 55 | | 700MB | 993 | 2984 | 10 | 10 | | | PARTIAL WALL CLOUD. |
| 37 | 21 | 0500 | 41.3 | 59.6 | AF | 3/3 | 65 | | 700MB | 988 | 2960 | 12 | 11 | | | |
| 38 | 21 | 0630 | 41.2 | 58.9 | GOES 1 | 2,3, IR 8 | | 45 | | | | | | | | |
| 39 | 21 | 1200 | 41.5 | 58.8 | GOES 1 | 3,VSBL 4 | | | | | | | | | | |
| 40 | 21 | 1204 | 41.0 | 59.3 | AF | 5/3 | 40 | 45 | 700MB | 989 | 2966 | 15 | 11 | C | 10 | NEG. EYE. |
| 41 | 21 | 1230 | 41.5 | 58.8 | GOES 1 | 2,3,VSBL 4 | | 45 | | | | | | | | |
| 42 | 21 | 1800 | 40.5 | 58.8 | GOES 1 | 5,VSBL 4 | | | | | | | | | | |
| 43 | 21 | 1830 | 40.4 | 58.8 | GOES 1 | 1,3,VSBL 2 | | 45 | | | | | | | | |
| 44 | 21 | 2330 | 40.3 | 57.9 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 45 | 22 | 0030 | 40.3 | 57.8 | GOES 1 | 2,1, IR 8 | | 65 | | | | | | | | |
| 46 | 22 | 0600 | 40.9 | 58.0 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 47 | 22 | 0630 | 40.8 | 57.8 | GOES 1 | 1,1, IR 8 | | 65 | | | | | | | | |
| 48 | 22 | 1200 | 41.2 | 56.8 | GOES 1 | 1,VSBL 4 | | | | | | | | | | |
| 49 | 22 | 1231 | 41.1 | 56.7 | GOES 1 | 1,1,VSBL 4 | | 65 | | | | | | | | |
| 50 | 22 | 1701 | 41.3 | 56.4 | GOES 1 | 1,VSBL 4 | | | | | | | | | | |
| 51 | 22 | 1703 | 41.6 | 57.1 | AF | 4/2 | 70 | 50 | 700MB | | 2792 | 15 | 8 | C | 15 | CLOSED WALL. |
| 52 | 22 | 1801 | 41.2 | 56.5 | GOES 1 | 1,VSBL 4 | | | | | | | | | | |
| 53 | 22 | 1831 | 41.2 | 56.8 | GOES 1 | 1,1,VSBL 4 | | 65 | | | | | | | | |
| 54 | 22 | 1835 | 41.4 | 56.8 | AF | | 75 | 50 | 700MB | 964 | 2783 | | | | | |
| 55 | 23 | 0000 | 41.7 | 56.1 | GOES 1 | 2, IR 8 | | | | | | | | | | |
| 56 | 23 | 0030 | 41.6 | 55.6 | GOES 1 | 1,1, IR 8 | | 65 | | | | | | | | |
| 57 | 23 | 0500 | 42.3 | 54.6 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 58 | 23 | 0630 | 42.5 | 54.2 | GOES 1 | 2,1, IR 8 | | 65 | | | | | | | | |
| 59 | 23 | 1200 | 43.1 | 52.7 | GOES 1 | 1,VSBL 4 | | | | | | | | | | |
| 60 | 23 | 1230 | 43.2 | 52.8 | GOES 1 | 1,1,VSBL 4 | | 65 | | | | | | | | |
| 61 | 23 | 1800 | 44.3 | 51.0 | GOES 1 | 1,VSBL 4 | | | | | | | | | | |
| 62 | 23 | 1813 | 44.2 | 51.9 | AF | 5/2 | 30 | 80 | 700MB | 965 | 2795 | 11 | 6 | C | 8 | CLOSED WALL. STADIUM EFFECT. |
| 63 | 23 | 1830 | 44.6 | 50.9 | GOES 1 | 1,1,VSBL 4 | | 65 | | | | | | | | |
| 64 | 23 | 2330 | 46.0 | 48.0 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 65 | 24 | 0030 | 46.1 | 48.1 | GOES 1 | 2,3, IR 8 | | 65 | | | | | | | | |
| 66 | 24 | 0530 | 47.2 | 46.1 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 67 | 24 | 0630 | 47.2 | 45.7 | GOES 1 | 2,5, IR 8 | | 65 | | | | | | | | |
| 68 | 24 | 1131 | 49.8 | 43.3 | GOES 1 | 5,VSBL 4 | | | | | | | | | | |
| 69 | 24 | 1131 | 49.8 | 43.3 | GOES 1 | 1,5,VSBL 4 | | 50 | | | | | | | | |

Table 5 continued.

TROPICAL STORM DOTTIE
17 - 21 AUGUST 1976

CENTER FIXES

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | ACFT. ALT. (MB) | MIN. PRESS. (MB) | MIN. HT. (M) | TEMP. (°C) | | EYE | | REMARKS |
|---------|------|------------|----------|--------|--------|-------------|----------------|------|-----------------|------------------|--------------|------------|------|----------------------------|--|-------------------------------|
| | | | LAT. °N | LN. °W | | | FLT. LVL. | SFC. | | | | IN. | OUT. | C=CIR. DIA. E-ELIP. N.M.I. | | |
| 1 | 18 | 2331 | 24.5 | 82.2 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 2 | 19 | 0030 | 24.4 | 82.2 | GOES 1 | 1,5, IR 8 | 25 | | | | | | | | | |
| 3 | 19 | 0600 | 24.2 | 82.2 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 4 | 19 | 0630 | 24.2 | 82.2 | GOES 1 | 1,5, IR 8 | 25 | | | | | | | | | |
| 5 | 19 | 1230 | 25.0 | 81.5 | GOES 1 | 2,5, VSBL 2 | 25 | | | | | | | | | |
| 6 | 19 | 1830 | 26.5 | 80.0 | GOES 1 | 2,5, VSBL 2 | 25 | | | | | | | | | |
| 7 | 19 | 2301 | 27.8 | 80.0 | GOES 1 | 5, VSBL 2 | 28 | | | | | | | | | |
| 8 | 20 | 0030 | 28.6 | 79.8 | GOES 1 | 2,5, IR 8 | 30 | | | | | | | | | |
| 9 | 20 | 0330 | 30.1 | 79.8 | GOES 1 | 2,5, IR 8 | 35 | | | | | | | | | |
| 10 | 20 | 0531 | 29.6 | 79.6 | DAB | RADAR | | | | | | | | | | POORLY DEFINED. |
| 11 | 20 | 0601 | 30.3 | 78.8 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 12 | 20 | 0619 | 29.7 | 80.2 | AF | 5/5 | 45 | 366M | 998 | | 24 | 23 | C | 10 | | OPEN S. |
| 13 | 20 | 0700 | 29.9 | 80.3 | GOES 1 | 1,5, IR 8 | 45 | | | | | | | | | |
| 14 | 20 | 0703 | 29.9 | 80.0 | DAB | RADAR | | | | | | | | | | FAIR FIX. |
| 15 | 20 | 0755 | 29.9 | 80.1 | DAB | RADAR | | | | | | | | | | POOR FIX. |
| 16 | 20 | 0805 | 29.9 | 80.2 | AF | 5/5 | 35 | 466M | 996 | | 25 | 22 | C | 10 | | OPEN S. |
| 17 | 20 | 0810 | 30.0 | 80.2 | DAB | RADAR | | | | | | | | | | POOR FIX. |
| 18 | 20 | 0930 | 30.1 | 80.1 | AF | | | | | 997 | | | | | | |
| 19 | 20 | 1101 | 30.3 | 80.0 | AF | 5/5 | 35 | 445M | 998 | | | | C | 15 | | OPEN S. |
| 20 | 20 | 1132 | 30.4 | 80.0 | AF | | | 317M | 999 | | | | | | | |
| 21 | 20 | 1200 | 30.4 | 80.0 | GOES 1 | 3, VSBL 2 | | | | | | | | | | |
| 22 | 20 | 1230 | 30.6 | 79.9 | GOES 1 | 1,3, VSBL 2 | 45 | | | | | | | | | |
| 23 | 20 | 1530 | 31.5 | 79.8 | GOES 1 | 1,3, VSBL 2 | 45 | | | | | | | | | |
| 24 | 20 | 1645 | 31.4 | 79.9 | CHS | RADAR | | | | | | | | | | 10° SPIRAL OVERLAY. |
| 25 | 20 | 1645 | 31.6 | 79.9 | CHS | RADAR | | | | | | | | | | 15° SPIRAL OVERLAY. |
| 26 | 20 | 1750 | 31.9 | 79.9 | AF | 3/3 | 35 | 283M | 1005 | | 25 | 22 | | | | |
| 27 | 20 | 1755 | 31.9 | 79.8 | CHS | RADAR | | | | | | | | | | FAIR FIX. |
| 28 | 20 | 1759 | 32.1 | 79.8 | CHS | RADAR | | | | | | | | | | POSSIBLE CENTER. |
| 29 | 20 | 1800 | 32.0 | 80.0 | GOES 1 | 3, VSBL 2 | | | | | | | | | | |
| 30 | 20 | 1830 | 32.1 | 80.0 | GOES 1 | 1,3, VSBL 2 | 45 | | | | | | | | | |
| 31 | 20 | 1900 | 32.2 | 79.9 | CHS | RADAR | | | | | | | | | | FAIR FIX. |
| 32 | 20 | 1932 | 32.1 | 80.0 | AF | | 32 | 320M | 1004 | | | | | | | |
| 33 | 20 | 2005 | 32.3 | 80.0 | CHS | RADAR | | | | | | | | | | |
| 34 | 20 | 2034 | 32.3 | 80.0 | CHS | RADAR | | | | | | | | | | POSSIBLE CENTER. |
| 35 | 20 | 2102 | 32.4 | 80.0 | CHS | RADAR | | | | | | | | | | POOR FIX. 15° SPIRAL OVERLAY. |
| 36 | 20 | 2105 | 32.2 | 80.1 | AF | 3/3 | 32 | 445M | 1005 | | 24 | 24 | | | | |
| 37 | 20 | 2130 | 32.4 | 80.0 | CHS | RADAR | | | | | | | | | | POOR FIX. |
| 38 | 20 | 2300 | 32.6 | 80.0 | AF | | 35 | 223M | 1005 | | 23 | | | | | |
| 39 | 21 | 0000 | 32.6 | 79.9 | AF | | | 192M | 1005 | | | | | | | |
| 40 | 21 | 0030 | 32.8 | 79.8 | GOES 1 | 2,4, IR 8 | 45 | | | | | | | | | |

Table 5 continued.

HURRICANE EMMY

20 AUGUST - 4 SEPTEMBER 1976

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | CENTER FIXES | | | TEMP. (°C) | | EYE | | REMARKS |
|---------|------|------------|----------|------|--------|------------|----------------|------|--------------|-------------|--------------------|------------|------|----------------------------|----|-----------------|
| | | | LAT. °N | °W | | | FLT. LVL. | SFC. | ACFT. ALT. | PRESS. (MB) | MIN. 700MB HT. (M) | IN. | OUT. | C-CIR. DIA. E-ELIP. N.M.I. | | |
| 1 | 19 | 1630 | 13.0 | 41.0 | GOES 1 | 2,5,VSBL 4 | | 25 | | | | | | | | |
| 2 | 20 | 0100 | 14.5 | 44.0 | GOES 1 | 1,5, IR 8 | | 25 | | | | | | | | |
| 3 | 20 | 0630 | 15.5 | 46.3 | GOES 1 | 1,5, IR 8 | | 25 | | | | | | | | |
| 4 | 20 | 1200 | 15.8 | 47.9 | GOES 1 | 5,VSBL 4 | | | | | | | | | | |
| 5 | 20 | 1200 | 15.8 | 47.9 | GOES 1 | 1,5,VSBL 4 | | 25 | | | | | | | | |
| 6 | 20 | 1800 | 15.3 | 48.8 | GOES 1 | 5,VSBL 4 | | | | | | | | | | |
| 7 | 20 | 1800 | 15.3 | 48.8 | GOES 1 | 1,5,VSBL 4 | | 25 | | | | | | | | |
| 8 | 20 | 2330 | 15.5 | 50.5 | GOES 1 | 1,5, IR 8 | | 25 | | | | | | | | |
| 9 | 21 | 0630 | 15.6 | 51.2 | GOES 1 | 1,5, IR 8 | | 30 | | | | | | | | |
| 10 | 21 | 1200 | 15.2 | 52.2 | GOES 1 | 5,VSBL 2 | | | | | | | | | | |
| 11 | 21 | 1230 | 15.2 | 52.3 | GOES 1 | 2,5,VSBL 2 | | 30 | | | | | | | | |
| 12 | 21 | 1715 | 14.8 | 53.7 | AF | 20/10 | 17 | 20 | 140M | 1013 | | 23 | 25 | C | 20 | |
| 13 | 21 | 1800 | 14.8 | 53.3 | GOES 1 | 1,5,VSBL 4 | | 30 | | | | | | | | |
| 14 | 22 | 0030 | 15.0 | 54.5 | GOES 1 | 1,5, IR 8 | | | | | | | | | | |
| 15 | 22 | 0230 | 14.5 | 54.0 | AF | 5/5 | 22 | | 351M | 1010 | | 22 | 23 | | | |
| 16 | 22 | 0525 | 14.8 | 54.1 | AF | 15/15 | | | 357M | 1009 | | 23 | 24 | | | |
| 17 | 22 | 0600 | 15.3 | 54.9 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 18 | 22 | 0630 | 15.4 | 54.9 | GOES 1 | 1,5, IR 8 | | 35 | | | | | | | | |
| 19 | 22 | 1200 | 15.8 | 55.6 | GOES 1 | 3,VSBL 4 | | | | | | | | | | |
| 20 | 22 | 1231 | 15.8 | 55.6 | GOES 1 | 1,3,VSBL 4 | | 33 | | | | | | | | |
| 21 | 22 | 1336 | 16.6 | 56.1 | AF | | | 40 | 253M | 1006 | | | | | | |
| 22 | 22 | 1437 | 16.6 | 56.2 | AF | | | 35 | 326M | 1007 | | | | C | 60 | |
| 23 | 22 | 1800 | 17.0 | 56.8 | GOES 1 | 3,VSBL 4 | | | | | | | | | | |
| 24 | 22 | 1830 | 16.9 | 57.4 | AF | 15/10 | 42 | 50 | 152M | 1003 | | 24 | 21 | C | 40 | GOOD RADAR EYE. |
| 25 | 22 | 1831 | 17.0 | 56.9 | GOES 1 | 1,3,VSBL 2 | | 45 | | | | | | | | |
| 26 | 22 | 2030 | 16.8 | 57.5 | AF | 15/20 | 33 | 40 | 146M | 1003 | | 25 | 23 | C | 50 | GOOD RADAR EYE. |
| 27 | 22 | 2330 | 15.2 | 54.2 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 28 | 23 | 0000 | 17.2 | 58.4 | GOES 1 | 4, IR 8 | | | | | | | | | | |
| 29 | 23 | 0030 | 17.7 | 58.6 | GOES 1 | 1,3, IR 8 | | 50 | | | | | | | | |
| 30 | 23 | 0134 | 17.8 | 58.7 | AF | 5/15 | 48 | | 700MB | | 3063 | 11 | 10 | E 04/35/15 | | POORLY DEFINED. |
| 31 | 23 | 0500 | 18.6 | 59.3 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 32 | 23 | 0558 | 18.5 | 60.7 | AF | 10/10 | 35 | | 700MB | 1004 | 3066 | 12 | 11 | C | 20 | POORLY DEFINED. |
| 33 | 23 | 0630 | 18.6 | 59.7 | GOES 1 | 2,3, IR 8 | | 55 | | | | | | | | |
| 34 | 23 | 0815 | 18.8 | 61.1 | AF | 5/5 | 50 | | 700MB | 997 | 3048 | 15 | 12 | C | 20 | CLOSED WALL. |
| 35 | 23 | 1018 | 19.2 | 61.6 | AF | 10/5 | 35 | 55 | 700MB | 1002 | 3030 | 13 | 11 | C | 20 | CLOSED WALL |
| 36 | 23 | 1200 | 19.7 | 60.8 | GOES 1 | 3,VSBL 4 | | | | | | | | | | |

Table 5 continued.

HURRICANE EMMY CONTINUED

CENTER FIXES

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | ACFT. ALT. | MIN. PRESS. (MB) | MIN. 700MB HT. (M) | TEMP. (°C) | | EYE | | REMARKS |
|---------|------|------------|----------|----------|--------|------------|----------------|------|------------|------------------|--------------------|------------|------|---------------------------|-----------------|---------------------|
| | | | LAT. °N | LONG. °W | | | FLT. LVL. | SFC. | | | | IN. | OUT. | C=CIR. DIA. E=ELIP. N.MI. | | |
| 37 | 23 | 1230 | 19.7 | 61.0 | GOES 1 | 1,3,VSBL 4 | | 60 | | | | | | | | |
| 38 | 23 | 1800 | 20.1 | 61.8 | GOES 1 | 5,VSBL 4 | | | | | | | | | | |
| 39 | 23 | 1826 | 21.0 | 62.9 | AF | 5/5 | 40 | 50 | 219M | 996 | | | C | 15 | POORLY DEFINED. | |
| 40 | 23 | 1830 | 20.3 | 62.0 | GOES 1 | 1,5,VSBL 4 | | 60 | | | | | | | | |
| 41 | 23 | 2048 | 21.2 | 63.0 | AF | 5/5 | 35 | 35 | 299M | 996 | 25 | 22 | C | 20 | POORLY DEFINED. | |
| 42 | 23 | 2300 | 21.4 | 63.2 | AF | 5/5 | 25 | 25 | 268M | 998 | 24 | 23 | C | 15 | POORLY DEFINED. | |
| 43 | 23 | 2330 | 21.2 | 62.2 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 44 | 24 | 0030 | 21.3 | 62.9 | GOES 1 | 2,5, IR 8 | | 60 | | | | | | | | |
| 45 | 24 | 0530 | 22.3 | 63.0 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 46 | 24 | 0627 | 22.7 | 64.1 | AF | 10/10 | 53 | | 700MB | 999 | 3072 | | C | 20 | POORLY DEFINED. | |
| 47 | 24 | 0630 | 22.3 | 63.2 | GOES 1 | 2,5, IR 8 | | 60 | | | | | | | | |
| 48 | 24 | 0758 | 22.8 | 64.6 | AF | 10/10 | 40 | | 512M | 1000 | 23 | 22 | C | 20 | POORLY DEFINED. | |
| 49 | 24 | 0932 | 23.3 | 64.8 | AF | | | | 451M | 1001 | | | | | | |
| 50 | 24 | 1107 | 23.5 | 64.9 | AF | 10/5 | 50 | 70 | 341M | 999 | 25 | | C | 20 | POORLY DEFINED. | |
| 51 | 24 | 1131 | 23.6 | 64.6 | GOES 1 | 1,3,VSBL 4 | | 55 | | | | | | | | |
| 52 | 24 | 1200 | 23.7 | 64.6 | GOES 1 | 3,VSBL 4 | | | | | | | | | | |
| 53 | 24 | 1507 | 24.5 | 64.0 | NOAA | | 43 | | 500MB | | | | | | | |
| 54 | 24 | 1758 | 24.6 | 64.7 | NOAA | 0/0 | 50 | 60 | 700MB | 1003 | 3127 | 16 | 12 | | | POORLY ORGANIZED. |
| 55 | 24 | 1800 | 24.6 | 64.7 | GOES 1 | 3,VSBL 4 | | | | | | | | | | |
| 56 | 24 | 1830 | 24.6 | 64.7 | GOES 1 | 1,3,VSBL 2 | | 55 | | | | | | | | |
| 57 | 24 | 2130 | 25.1 | 64.6 | GOES 1 | 3,VSBL 1 | | | | | | | | | | |
| 58 | 25 | 0000 | 25.4 | 64.5 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 59 | 25 | 0030 | 25.4 | 64.5 | GOES 1 | 2,5, IR 8 | | 45 | | | | | | | | |
| 60 | 25 | 0254 | 25.1 | 63.8 | AF | | | | | | | | | | | RADAR EYE. |
| 61 | 25 | 0413 | 25.8 | 63.6 | AF | 3/3 | 60 | | 700MB | 994 | 3045 | 16 | 15 | | | NEGATIVE RADAR EYE. |
| 62 | 25 | 0504 | 26.1 | 63.7 | AF | 5/5 | 30 | | 700MB | 991 | 3039 | 18 | 17 | | | NEGATIVE RADAR EYE. |
| 63 | 25 | 0530 | 26.2 | 63.5 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 64 | 25 | 0630 | 26.3 | 63.4 | GOES 1 | 2,5, IR 8 | | 45 | | | | | | | | |
| 65 | 25 | 1200 | 26.6 | 62.2 | GOES 1 | 3,VSBL 4 | | | | | | | | | | |
| 66 | 25 | 1223 | 26.4 | 62.1 | AF | 5/5 | 90 | 100 | 700MB | 990 | 2999 | 16 | | 8 | OPEN S-SW. | |
| 67 | 25 | 1230 | 26.7 | 62.0 | GOES 1 | 2,3,VSBL 2 | | 60 | | | | | | | | |
| 68 | 25 | 1718 | 26.7 | 60.4 | NOAA | 0/0 | 76 | 75 | 150M | 991 | | 26 | 22 | | | POORLY DEFINED. |
| 69 | 25 | 1800 | 26.7 | 60.0 | GOES 1 | 3,VSBL 4 | | | | | | | | | | |
| 70 | 25 | 1830 | 26.7 | 60.0 | GOES 1 | 2,3,VSBL 2 | | 65 | | | | | | | | |
| 71 | 25 | 2130 | 26.8 | 59.4 | GOES 1 | 3,VSBL 1 | | | | | | | | | | |
| 72 | 25 | 2314 | 26.8 | 59.2 | AF | 5/5 | 65 | 65 | 700MB | 989 | 2978 | 11 | | C | 20 | OPEN NW-SSW. |

Table 5 continued.

HURRICANE EMY CONTINUED

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | CENTER FIXES | | | TEMP. (°C) | | EYE | | REMARKS |
|---------|------|------------|----------|----------|--------|-------------|----------------|------|--------------|------------------|--------------------|------------|------|------------|--------------------|----------------------------------|
| | | | LAT. °N | LONG. °W | | | FLT. LVL. | SFC. | ACFT. ALT. | MIN. PRESS. (MB) | MIN. 700MB HT. (M) | IN. | OUT. | C-CIR. | DIA. E-ELIP. N.MI. | |
| 73 | 26 | 0000 | 26.8 | 59.0 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 74 | 26 | 0030 | 26.8 | 58.8 | GOES 1 | 2,3, IR 8 | | 65 | | | | | | | | |
| 75 | 26 | 0148 | 26.9 | 58.6 | AF | 5/5 | 65 | | 700MB | 988 | 2975 | 12 | 9 | C | 20 | |
| 76 | 26 | 0404 | 26.9 | 58.1 | AF | | 68 | | 700MB | | 2950 | | | | | EYE BETTER DEFINED. OPEN NE-SSW. |
| 77 | 26 | 0504 | 27.0 | 57.8 | AF | 5/3 | 68 | | 700MB | 984 | 2941 | 13 | 9 | C | 20 | OPEN NE-SSW. OPEN NE-SW. |
| 78 | 26 | 0530 | 26.9 | 57.6 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 79 | 26 | 0630 | 26.9 | 57.4 | GOES 1 | 2,3, IR 8 | | 65 | | | | | | | | |
| 80 | 26 | 1201 | 27.1 | 55.9 | GOES 1 | 3, VSBL 4 | | | | | | | | | | |
| 81 | 26 | 1730 | 27.2 | 55.7 | GOES 1 | 1,3, VSBL 4 | | 65 | | | | | | | | |
| 82 | 26 | 1430 | 27.5 | 55.5 | AF | 10/5 | 55 | 78 | 700MB | 979 | 2896 | 14 | 10 | C | 20 | POORLY DEFINED. |
| 83 | 26 | 1800 | 27.9 | 54.6 | GOES 1 | 3, VSBL 4 | | | | | | | | | | |
| 84 | 26 | 1801 | 27.7 | 54.9 | AF | 5/5 | 60 | 75 | 700MB | 975 | 2877 | 15 | 11 | C | 20 | OPEN SE. |
| 85 | 26 | 1930 | 28.0 | 54.5 | GOES 1 | 1,3, VSBL 4 | | 65 | | | | | | | | |
| 86 | 26 | 2330 | 28.8 | 53.8 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 87 | 27 | 0030 | 28.9 | 53.6 | GOES 1 | 2,3, IR 8 | | 65 | | | | | | | | |
| 88 | 27 | 0530 | 29.8 | 53.4 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 89 | 27 | 0630 | 29.9 | 53.6 | GOES 1 | 2,3, IR 8 | | 77 | | | | | | | | |
| 90 | 27 | 1200 | 30.7 | 53.5 | GOES 1 | 1, VSBL 4 | | | | | | | | | | |
| 91 | 27 | 1230 | 30.6 | 53.5 | GOES 1 | 2,1, VSBL 4 | | 77 | | | | | | | | |
| 92 | 27 | 1800 | 31.7 | 54.1 | GOES 1 | 3, VSBL 4 | | | | | | | | | | |
| 93 | 27 | 1830 | 31.9 | 54.1 | GOES 1 | 2,3, VSBL 4 | | 77 | | | | | | | | |
| 94 | 28 | 0030 | 32.5 | 55.2 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 95 | 28 | 0030 | 32.5 | 55.2 | GOES 1 | 1,3, IR 8 | | 90 | | | | | | | | |
| 96 | 28 | 0600 | 33.1 | 56.1 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 97 | 28 | 0630 | 33.3 | 56.0 | GOES 1 | 1,1, IR 8 | | 90 | | | | | | | | |
| 98 | 28 | 1201 | 33.4 | 56.8 | GOES 1 | 3, VSBL 4 | | | | | | | | | | |
| 99 | 28 | 1230 | 33.5 | 56.9 | GOES 1 | 1,3, VSBL 4 | | | | | | | | | | |
| 100 | 28 | 1230 | 33.6 | 57.0 | AF | 5/5 | 60 | 70 | 700MB | 978 | 2899 | 13 | 11 | E 15/30/10 | | IRREGULAR EYEWALL. |
| 101 | 28 | 1801 | 34.2 | 57.0 | GOES 1 | 3, VSBL 4 | | | | | | | | | | |
| 102 | 28 | 1831 | 34.3 | 57.1 | GOES 1 | 2,3, VSBL 4 | | | | | | | | | | |
| 103 | 29 | 0030 | 34.7 | 57.4 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 104 | 29 | 0030 | 34.7 | 57.4 | GOES 1 | 1,1, IR 8 | | 102 | | | | | | | | |
| 105 | 29 | 0600 | 34.7 | 57.3 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 106 | 29 | 0630 | 34.7 | 57.3 | GOES 1 | 1,1, IR 8 | | 102 | | | | | | | | |
| 107 | 29 | 1130 | 34.8 | 56.7 | GOES 1 | 1, VSBL 2 | | | | | | | | | | |
| 108 | 29 | 1230 | 34.9 | 56.6 | GOES 1 | 2,1, VSBL 2 | | 102 | | | | | | | | |

Table 5 continued.

HURRICANE EMMY CONTINUED

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | ACFT. ALT. | MIN. PRESS. (MB) | MIN. 700MB HT. (M) | TEMP (°C) | | EYE | | REMARKS |
|---------|------|------------|----------|----------|--------|------------|----------------|------|------------|------------------|--------------------|-----------|------|---------------------------|----------------------------|---------|
| | | | LAT. °N | LONG. °W | | | FLT. LVL. | SFC. | | | | IN. | OUT. | C-CIR. DIA. E-ELIP. N.MI. | | |
| 109 | 29 | 1410 | 34.8 | 56.1 | AF | 1/5 | 90 | 100 | 700MB | 974 | 2847 | 13 | 9 | 7 | WELL-DEFINED. CLOSED WALL. | |
| 110 | 29 | 1500 | 35.1 | 55.9 | GOES 1 | 1,VSBL 2 | | | | | | | | | | |
| 111 | 29 | 1539 | 35.1 | 56.1 | AF | 5/5 | 60 | 55 | 700MB | 974 | 2848 | 13 | 8 | 8 | WELL-DEFINED. CLOSED WALL. | |
| 112 | 29 | 1730 | 35.0 | 55.8 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 113 | 29 | 1830 | 35.1 | 55.7 | GOES 1 | 2,1,VSBL 2 | | 102 | | | | | | | | |
| 114 | 30 | 0030 | 35.0 | 53.4 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 115 | 30 | 0030 | 35.0 | 53.4 | GOES 1 | 1,5, IR 8 | | 102 | | | | | | | | |
| 116 | 30 | 0401 | 35.0 | 53.0 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 117 | 30 | 0630 | 35.0 | 52.7 | GOES 1 | 1,3, IR 8 | | 77 | | | | | | | | |
| 118 | 30 | 1130 | 34.9 | 52.4 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 119 | 30 | 1140 | 34.7 | 52.0 | AF | 12/5 | 45 | 55 | 700MB | 978 | 2886 | 13 | 12 | | | |
| 120 | 30 | 1230 | 34.9 | 51.9 | GOES 1 | 1,3,VSBL 2 | | 70 | | | | | | | | |
| 121 | 30 | 1420 | 34.6 | 51.5 | AF | 15/10 | 60 | 90 | 700MB | 976 | 2880 | 13 | 12 | | | |
| 122 | 30 | 1500 | 34.6 | 51.7 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 123 | 30 | 1730 | 34.5 | 51.2 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 124 | 30 | 1830 | 34.5 | 50.6 | GOES 1 | 2,3,VSBL 2 | | 65 | | | | | | | | |
| 125 | 31 | 0030 | 34.9 | 48.2 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 126 | 31 | 0030 | 34.9 | 48.2 | GOES 1 | 2,5, IR 8 | | 65 | | | | | | | | |
| 127 | 31 | 0400 | 34.8 | 47.2 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 128 | 31 | 0630 | 34.7 | 46.4 | GOES 1 | 1,3, IR 8 | | 55 | | | | | | | | |
| 129 | 31 | 1200 | 35.0 | 44.4 | GOES 1 | 4, IR 8 | | | | | | | | | | |
| 130 | 31 | 1230 | 35.2 | 44.7 | GOES 1 | 2,3,VSBL 2 | | 45 | | | | | | | | |
| 131 | 31 | 1800 | 35.3 | 42.8 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 132 | 31 | 1830 | 35.4 | 42.5 | GOES 1 | 2,3,VSEL 2 | | 50 | | | | | | | | |
| 133 | 31 | 2331 | 35.9 | 40.0 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 134 | 01 | 0030 | 35.8 | 39.9 | GOES 1 | 1,5, IR 8 | | 50 | | | | | | | | |
| 135 | 01 | 0400 | 35.6 | 38.4 | GOES 1 | 6, IR 8 | | | | | | | | | | |
| 136 | 01 | 0630 | 35.5 | 37.3 | GOES 1 | 2,5, IR 8 | | 50 | | | | | | | | |
| 137 | 01 | 1130 | 35.4 | 36.8 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 138 | 01 | 1230 | 35.0 | 36.5 | GOES 1 | 2,5,VSEL 2 | | 45 | | | | | | | | |
| 139 | 01 | 1600 | 35.0 | 35.2 | GOES 1 | 5,VSBL 4 | | | | | | | | | | |
| 140 | 01 | 1730 | 35.0 | 35.1 | GOES 1 | 5,VSBL 2 | | | | | | | | | | |
| 141 | 01 | 1830 | 34.8 | 34.9 | GOES 1 | 2,5,VSBL 2 | | 45 | | | | | | | | |
| 142 | 01 | 2331 | 34.0 | 33.4 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 143 | 02 | 0030 | 33.8 | 33.0 | GOES 1 | 1,5, IR 8 | | 45 | | | | | | | | |
| 144 | 02 | 0400 | 33.2 | 32.0 | GOES 1 | 5, IR 8 | | | | | | | | | | |

Table 5 continued.

HURRICANE EMMY CONTINUED

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | ACFT. ALT. | MIN. PRESS. (MB) | MIN. 700MB HT. (M) | TEMP. (°C) | | EYE | | REMARKS |
|---------|------|------------|----------|----------|--------|--------------|----------------|------|------------|------------------|--------------------|------------|------|---------------------------|--|---------|
| | | | LAT. °N | LONG. °W | | | FLT. LVL. | SFC. | | | | IN. | OUT. | C-CIR. DIA. E-ELIP. N.MI. | | |
| 145 | 02 | 0630 | 33.2 | 31.6 | GOES 1 | 3, IR 8 | | 50 | | | | | | | | |
| 146 | 02 | 1130 | 33.5 | 30.8 | GOES 1 | 5, VSBL 2 | | | | | | | | | | |
| 147 | 02 | 1230 | 33.6 | 30.6 | GOES 1 | 2, 5, VSBL 4 | | 50 | | | | | | | | |
| 148 | 02 | 1400 | 33.9 | 29.8 | GOES 1 | 5, VSBL 2 | | | | | | | | | | |
| 149 | 02 | 1530 | 34.0 | 29.8 | GOES 1 | 5, VSBL 2 | | | | | | | | | | |
| 150 | 02 | 1730 | 34.3 | 29.4 | GOES 1 | 5, VSBL 2 | | | | | | | | | | |
| 151 | 02 | 1800 | 34.4 | 29.2 | GOES 1 | 2, 5, VSBL 2 | | 50 | | | | | | | | |
| 152 | 02 | 2330 | 35.7 | 28.7 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 153 | 03 | 0030 | 35.8 | 28.3 | GOES 1 | 2, 5, IR 8 | | 50 | | | | | | | | |
| 154 | 03 | 0400 | 36.4 | 28.3 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 155 | 03 | 0630 | 36.8 | 28.4 | GOES 1 | 2, 5, IR 8 | | 50 | | | | | | | | |
| 156 | 03 | 1200 | 37.2 | 28.3 | GOES 1 | 4, VSBL 2 | | | | | | | | | | |
| 157 | 03 | 1231 | 37.2 | 28.3 | GOES 1 | 2, 4, VSBL 2 | | 50 | | | | | | | | |
| 158 | 03 | 1800 | 38.0 | 28.1 | GOES 1 | 4, VSBL 4 | | | | | | | | | | |
| 159 | 03 | 1800 | 38.0 | 28.1 | GOES 1 | 2, 4, VSBL 2 | | 40 | | | | | | | | |
| 160 | 03 | 2331 | 38.6 | 27.0 | GOES 1 | 6, IR 8 | | | | | | | | | | |
| 161 | 04 | 0030 | 38.8 | 26.8 | GOES 1 | 3, 6, IR 8 | | 40 | | | | | | | | |
| 162 | 04 | 0400 | 39.4 | 26.0 | GOES 1 | 5, IR 8 | | | | | | | | | | |

Table 5 continued.

HURRICANE FRANCES
27 AUGUST - 7 SEPTEMBER 1976

CENTER FIXES

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | ACFT. ALT. | MIN. PRESS. (MB) | MIN. 700MB HT. (M) | TEMP. (°C) | | EYE | | REMARKS |
|---------|------|------------|----------|----------|--------|------------|----------------|------|------------|------------------|--------------------|------------|------|----------------|------------|-------------------|
| | | | LAT. °N | LONG. °W | | | FLT. LVL. | SFC. | | | | IN. | OUT. | C=CIR. C=ELIP. | DIA. N.MI. | |
| 1 | 27 | 0630 | 12.0 | 38.0 | GOES 1 | 2,5, IR 8 | | 25 | | | | | | | | |
| 2 | 27 | 1200 | 12.5 | 37.5 | GOES 1 | 5,VSBL 2 | | | | | | | | | | |
| 3 | 28 | 1230 | 14.0 | 44.3 | GOES 1 | 1,5,VSBL 4 | | 25 | | | | | | | | |
| 4 | 28 | 1801 | 14.5 | 45.2 | GOES 1 | 5,VSBL 4 | | | | | | | | | | |
| 5 | 28 | 1830 | 14.5 | 45.3 | GOES 1 | 2,5,VSBL 4 | | 30 | | | | | | | | |
| 6 | 28 | 1915 | 14.8 | 45.6 | AF | 5/5 | 50 | 50 | 165M | 1002 | | 24 | 23 | C | 20 | OPEN SW. |
| 7 | 28 | 2010 | 15.0 | 45.7 | AF | 5/5 | 30 | 35 | 195M | 1003 | | 24 | 23 | C | 20 | OPEN SW. |
| 8 | 29 | 0030 | 15.0 | 46.4 | GOES 1 | 1,3, IR 8 | | 35 | | | | | | | | |
| 9 | 29 | 0600 | 16.1 | 47.8 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 10 | 29 | 0630 | 16.1 | 47.8 | GOES 1 | 1,3, IR 8 | | 45 | | | | | | | | |
| 11 | 29 | 1130 | 16.8 | 49.9 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 12 | 29 | 1230 | 17.0 | 49.9 | GOES 1 | 1,3,VSBL 2 | | 45 | | | | | | | | |
| 13 | 29 | 1230 | 16.5 | 49.6 | AF | 5/1 | 50 | 50 | 700MB | 998 | 3059 | 13 | 11 | E33/30/15 | | PARTIAL WALL W-N. |
| 14 | 29 | 1411 | 16.6 | 49.8 | AF | | 45 | 60 | 700MB | | 3051 | | | | | |
| 15 | 29 | 1500 | 17.3 | 50.3 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 16 | 29 | 1549 | 17.2 | 50.0 | AF | | 50 | | 700MB | | 3039 | | | | | |
| 17 | 29 | 1730 | 17.4 | 50.7 | GOES 1 | 5,VSBL 2 | | | | | | | | | | |
| 18 | 29 | 1815 | 17.8 | 50.6 | AF | 5/1 | 55 | 60 | 305M | 994 | | 24 | | E 10/40/15 | | OPEN S. |
| 19 | 29 | 1830 | 17.7 | 51.0 | GOES 1 | 1,5,VSBL 2 | | 50 | | | | | | | | |
| 20 | 29 | 1940 | 17.9 | 50.9 | AF | 5/1 | 60 | 60 | 290M | 991 | | 25 | | E 05/40/20 | | OPEN SE. |
| 21 | 29 | 2145 | 18.2 | 51.1 | AF | | 60 | 65 | 259M | 991 | | 25 | 23 | E 04/40/20 | | OPEN S-SE. |
| 22 | 29 | 2315 | 18.4 | 51.4 | AF | | 40 | | 700MB | 987 | 3021 | 11 | | E 04/40/20 | | OPEN SW. |
| 23 | 30 | 0030 | 18.7 | 51.6 | GOES 1 | 1,5, IR 8 | | 65 | | | | | | | | |
| 24 | 30 | 0401 | 19.1 | 52.2 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 25 | 30 | 0621 | 18.8 | 52.7 | AF | 3/5 | 65 | | 700MB | 995 | 3021 | 9 | | | | POORLY DEFINED. |
| 26 | 30 | 0630 | 18.8 | 52.7 | GOES 1 | 1,3, IR 8 | | 65 | | | | | | | | |
| 27 | 30 | 0747 | 19.1 | 52.9 | AF | | 62 | | 700MB | | 3008 | | | | | |
| 28 | 30 | 0932 | 19.4 | 53.3 | AF | | 55 | | 700MB | | 2990 | | | | | |
| 29 | 30 | 1042 | 19.5 | 53.2 | AF | | 60 | | 700MB | | | | | | | |
| 30 | 30 | 1112 | 19.5 | 53.3 | AF | 3/3 | | 50 | | 991 | | 24 | | | | |
| 31 | 30 | 1130 | 19.7 | 53.7 | GOES 1 | 5,VSBL 2 | | | | | | | | | | |
| 32 | 30 | 1230 | 19.7 | 53.9 | GOES 1 | 1,3,VSBL 2 | | 65 | | | | | | | | |
| 33 | 30 | 1500 | 19.9 | 54.3 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 34 | 30 | 1730 | 20.2 | 54.3 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 35 | 30 | 1750 | 20.4 | 54.3 | AF | 10/10 | 55 | 60 | 700MB | 988 | 2978 | 12 | 14 | C | 5 | OPEN E. |
| 36 | 30 | 1830 | 20.5 | 54.2 | GOES 1 | 1,1,VSBL 2 | | 65 | | | | | | | | |

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Table 5 continued.

HURRICANE FRANCES (CONTINUED)

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | ACFT. ALT. | MIN. PRESS. (MB) | MIN. 700MB HT. (M) | TEMP. (°C) | | EYE | | REMARKS | |
|---------|------|------------|----------|----------|--------|-------------|----------------|------|------------|------------------|--------------------|------------|------|----------------|------------|-----------------|------------------------------|
| | | | LAT. °N | LONG. °N | | | FLT. LVL. | SFC. | | | | IN. | OUT. | C-CIR. C-ELIP. | DIA. N.MI. | | |
| | | | | | | | | | | | | | | | | | |
| 37 | 31 | 0025 | 21.1 | 55.2 | AF | 10/1 | 60 | | 700MB | 980 | 2947 | 13 | 11 | E 04/40/20 | | POORLY DEFINED. | |
| 38 | 31 | 0030 | 21.1 | 54.3 | GOES 1 | 1,3, IR 8 | | 65 | | | | | | | | | |
| 39 | 31 | 0208 | 21.5 | 55.1 | AF | 5/2 | 60 | | 700MB | 983 | 2954 | 13 | 11 | E 04/40/20 | | POORLY DEFINED. | |
| 40 | 31 | 0329 | 21.4 | 55.0 | AF | 5/1 | 70 | | 700MB | 976 | 2941 | 14 | 12 | E 04/40/20 | | POORLY DEFINED. | |
| 41 | 31 | 0400 | 21.9 | 54.5 | GOES 1 | 3, IR 8 | | | | | | | | | | | |
| 42 | 31 | 0530 | 22.0 | 54.9 | AF | 5/5 | | 60 | 700MB | 980 | 2917 | 14 | | | | | NEG. EYE. |
| 43 | 31 | 0630 | 22.1 | 54.9 | GOES 1 | 1,3, IR 8 | | | | | | | | | | | |
| 44 | 31 | 0700 | 22.3 | 55.0 | AF | | | 60 | 700MB | | 2896 | | | | | | |
| 45 | 31 | 0825 | 22.6 | 55.0 | AF | | | 60 | 700MB | | 2886 | | | | | | |
| 46 | 31 | 1100 | 23.0 | 54.8 | AF | 10/5 | 85 | 65 | 700MB | 975 | 2883 | 16 | | | | | NEG. EYE. |
| 47 | 31 | 1200 | 23.1 | 55.0 | GOES 1 | 3, VSBL 4 | | | | | | | | | | | |
| 48 | 31 | 1230 | 23.1 | 55.1 | GOES 1 | 1,3, VSBL 2 | | 70 | | | | | | | | | |
| 49 | 31 | 1523 | 23.5 | 55.2 | NOAA | | 60 | | 500MB | | 5671 | | | | | | |
| 50 | 31 | 1758 | 24.1 | 55.2 | NOAA | 1/7 | 90 | 85 | 700MB | 978 | 2874 | 15 | 10 | E 18/40/30 | | CLOSED WALL. | |
| 51 | 31 | 1800 | 24.1 | 55.2 | GOES 1 | 1, VSBL 2 | | | | | | | | | | | |
| 52 | 31 | 1830 | 24.2 | 55.2 | GOES 1 | 2,1, VSBL 2 | | 84 | | | | | | | | | |
| 53 | 31 | 2300 | 25.1 | 55.0 | AF | 10/5 | 82 | | 700MB | 968 | 2814 | 15 | 12 | C | 20 | | CLOSED WALL - WELL DEFINED. |
| 54 | 31 | 2355 | 25.2 | 55.0 | AF | 10/5 | 95 | | 700MB | 968 | 2808 | 17 | 14 | C | 30 | | CLOSED WALL - WELL DEFINED. |
| 55 | 01 | 0001 | 25.0 | 55.0 | GOES 1 | 1, IR 8 | | | | | | | | | | | |
| 56 | 01 | 0030 | 25.1 | 54.8 | GOES 1 | 1,1, IR 8 | | 90 | | | | | | | | | |
| 57 | 01 | 0116 | 25.3 | 54.9 | AF | 10/5 | 100 | | 700MB | 967 | 2796 | 16 | 11 | C | 30 | | CLOSED WALL. STADIUM EFFECT. |
| 58 | 01 | 0226 | 25.7 | 54.9 | AF | 10/5 | 102 | | 700MB | 967 | 2790 | 18 | 11 | C | 25 | | CLOSED WALL. WELL DEFINED. |
| 59 | 01 | 0400 | 25.9 | 54.4 | GOES 1 | 1, IR 8 | | | | | | | | | | | |
| 60 | 01 | 0510 | 26.1 | 54.6 | AF | 5/3 | 60 | | 700MB | 964 | 2786 | 16 | 12 | C | 45 | | CLOSED WALL. |
| 61 | 01 | 0630 | 26.3 | 54.2 | GOES 1 | 1,1, IR 8 | | 90 | | | | | | | | | |
| 62 | 01 | 0645 | 26.2 | 54.0 | AF | 5/2 | 100 | | 700MB | 963 | 2774 | 16 | 10 | C | 50 | | CLOSED WALL. |
| 63 | 01 | 1130 | 26.8 | 53.8 | GOES 1 | 1, VSBL 2 | | | | | | | | | | | |
| 64 | 01 | 1212 | 27.2 | 53.8 | AF | | 83 | | 700MB | | 2799 | | | | | | |
| 65 | 01 | 1230 | 26.9 | 53.6 | GOES 1 | 1,1, VSBL 2 | | 90 | | | | | | | | | |
| 66 | 01 | 1317 | 27.4 | 53.6 | AF | 2/2 | 45 | 75 | 700MB | 967 | 2803 | 13 | 9 | C | 80 | | OPEN S. |
| 67 | 01 | 1433 | 27.5 | 53.4 | AF | 2/2 | 92 | 65 | 700MB | 966 | 2792 | 15 | 12 | C | 70 | | OPEN S. |
| 68 | 01 | 1600 | 27.6 | 52.9 | GOES 1 | 1, VSBL 4 | | | | | | | | | | | |
| 69 | 01 | 1730 | 27.7 | 52.8 | GOES 1 | 1, VSBL 2 | | | | | | | | | | | |
| 70 | 01 | 1830 | 28.0 | 52.5 | GOES 1 | 1,1, VSBL 2 | | 95 | | | | | | | | | |
| 71 | 01 | 2331 | 28.2 | 51.6 | GOES 1 | 2, IR 8 | | | | | | | | | | | |
| 72 | 02 | 0030 | 28.2 | 51.2 | GOES 1 | 1,1, IR 8 | | 95 | | | | | | | | | |

Table 5 continued.

HURRICANE FRANCES (CONTINUED)

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | CENTER FIXES | | | TEMP. (°C) | | EYE | | REMARKS | | |
|------------|------|---------------|-----------|-----------|--------|------------|----------------|------|-------|---------------------|-----------------------|-----|------|---------|-------------------|---------------|
| | | | LAT. N | LON. W | | | MAX. WIND (KT) | | ACFT. | MIN. PRESS. (MB) | MIN. 700MB HT. (M) | IN. | OUT. | | C-CIR. C-ELIP. | DIA. N.MI. |
| | | | | | | | FLT. | SFC. | | | | | | | | |
| 73 | 02 | 0400 | 28.2 | 50.3 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 74 | 02 | 0630 | 28.2 | 49.7 | GOES 1 | 2,3, IR 8 | | 95 | | | | | | | | |
| 75 | 02 | 1130 | 28.1 | 49.1 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 76 | 02 | 1230 | 28.3 | 48.6 | GOES 1 | 2,3,VSBL 4 | | 95 | | | | | | | | |
| 77 | 02 | 1400 | 28.5 | 48.2 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 78 | 02 | 1530 | 28.4 | 47.8 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 79 | 02 | 1730 | 28.6 | 47.4 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 80 | 02 | 1800 | 28.7 | 47.3 | GOES 1 | 2,3,VSBL 2 | | 85 | | | | | | | | |
| 81 | 02 | 2330 | 28.9 | 45.1 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 82 | 03 | 0030 | 28.9 | 44.6 | GOES 1 | 1,1, IR 8 | | 71 | | | | | | | | |
| 83 | 03 | 0400 | 29.0 | 44.0 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 84 | 03 | 0630 | 29.8 | 42.6 | GOES 1 | 2,3, IR 8 | | 65 | | | | | | | | |
| 85 | 03 | 1200 | 29.5 | 40.9 | GOES 1 | 4,VSBL 2 | | | | | | | | | | |
| 86 | 03 | 1231 | 29.7 | 40.8 | GOES 1 | 1,4,VSBL 2 | | 65 | | | | | | | | |
| 87 | 03 | 1800 | 30.3 | 39.4 | GOES 1 | 4,VSBL 4 | | | | | | | | | | |
| 88 | 03 | 1830 | 30.4 | 39.1 | GOES 1 | 2,4,VSBL 2 | | 60 | | | | | | | | |
| 89 | 03 | 2331 | 31.7 | 37.0 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 90 | 04 | 0030 | 32.2 | 36.6 | GOES 1 | 1,3, IR 8 | | 55 | | | | | | | | |
| 91 | 04 | 0400 | 33.1 | 36.6 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 92 | 04 | 0630 | 33.6 | 35.9 | GOES 1 | 1,3, IR 8 | | | | | | | | | | |
| 93 | 04 | 1200 | 35.1 | 34.2 | GOES 1 | 6,VSBL 4 | | | | | | | | | | |
| 94 | 04 | 1230 | 35.3 | 33.8 | GOES 1 | 6,VSBL 1 | | | | | | | | | | |
| 95 | 04 | 1800 | 36.5 | 32.2 | GOES 1 | 5,VSBL 2 | | | | | | | | | | |
| 96 | 04 | 1900 | 36.6 | 32.1 | GOES 1 | 6,VSBL 2 | | | | | | | | | | |
| 97 | 04 | 2330 | 37.6 | 31.0 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 98 | 05 | 0030 | 37.8 | 30.8 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 99 | 05 | 0400 | 39.2 | 29.3 | GOES 1 | 6, IR 8 | | | | | | | | | | |
| 100 | 05 | 0630 | 39.8 | 29.0 | GOES 1 | 4, IR 8 | | | | | | | | | | |
| 101 | 05 | 1230 | 41.0 | 28.0 | GOES 1 | 4, IR 8 | | | | | | | | | | |
| 102 | 05 | 1800 | 42.4 | 27.2 | GOES 1 | 4, IR 8 | | | | | | | | | | |
| 103 | 05 | 2330 | 43.6 | 26.8 | GOES 1 | 4, IR 8 | | | | | | | | | | |
| 104 | 06 | 0030 | 43.9 | 26.6 | GOES 1 | 6, IR 8 | | | | | | | | | | |
| 105 | 06 | 0400 | 43.0 | 28.5 | GOES 1 | 6, IR 8 | | | | | | | | | | |
| 106 | 06 | 0630 | 42.2 | 28.5 | GOES 1 | 6, IR 8 | | | | | | | | | | |
| 107 | 06 | 1230 | 43.4 | 27.0 | GOES 1 | 6, IR 8 | | | | | | | | | | |
| 108 | 06 | 1800 | 43.5 | 26.0 | GOES 1 | 6, IR 8 | | | | | | | | | | |

Table 5 continued.

HURRICANE GLORIA
26 SEPTEMBER - 4 OCTOBER 1976

CENTER FIXES

| FLX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | ACFT. ALT. | MIN. PRESS. (MB) | MIN. HT. (M) | TEMP. (°C) | | EYE | | REMARKS |
|------------|------|---------------|------------|-------------|--------|-------------|----------------|------|---------------|------------------------|-----------------|------------|------|-------------------|---------------|------------------------|
| | | | LAT. °N | LONG. °W | | | FLT. LVL. | SFC. | | | | IN. | OUT. | C-CIR. C-ELIP. | DIA. N.MI. | |
| 1 | 27 | 0030 | 24.3 | 58.2 | GOES 1 | 2,5, IR 8 | | 25 | | | | | | | | |
| 2 | 27 | 0630 | 25.0 | 58.0 | GOES 1 | 1,5, IR 8 | | 30 | | | | | | | | |
| 3 | 27 | 1201 | 25.8 | 57.8 | GOES 1 | 3, VSBL 4 | | | | | | | | | | |
| 4 | 27 | 1301 | 25.9 | 58.0 | GOES 1 | 1,3, VSBL 4 | | 35 | | | | | | | | |
| 5 | 27 | 1800 | 26.2 | 58.1 | GOES 1 | 3, VSBL 4 | | | | | | | | | | |
| 6 | 27 | 1830 | 26.2 | 58.1 | GOES 1 | 1,3, VSBL 4 | | 35 | | | | | | | | |
| 7 | 27 | 2020 | 26.2 | 57.9 | AF | 5/5 | 60 | 65 | | 993 | | 25 | 22 | | | NEG. EYE. |
| 8 | 27 | 2150 | 26.3 | 58.0 | AF | 5/5 | 35 | 55 | 700MB | 994 | 3045 | 15 | | | | WALL CLOUD FORMING NW. |
| 9 | 28 | 0001 | 27.0 | 57.8 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 10 | 28 | 0030 | 27.1 | 57.9 | GOES 1 | 2,3, IR 8 | | 45 | | | | | | | | |
| 11 | 28 | 0600 | 27.5 | 58.0 | GOES 1 | 4, IR 8 | | | | | | | | | | |
| 12 | 28 | 0630 | 27.6 | 58.0 | GOES 1 | 2,3, IR 8 | | 45 | | | | | | | | |
| 13 | 28 | 1200 | 27.7 | 58.5 | GOES 1 | 3, VSBL 2 | | | | | | | | | | |
| 14 | 28 | 1230 | 27.8 | 58.5 | GOES 1 | 1,3, VSBL 2 | | 45 | | | | | | | | |
| 15 | 28 | 1430 | 27.9 | 58.7 | GOES 1 | 3, VSBL 2 | | | | | | | | | | |
| 16 | 28 | 1620 | 28.0 | 59.0 | NOAA | 5/5 | 50 | 50 | 456M | 996 | | 24 | 21 | C | 15 | POORLY DEFINED. |
| 17 | 28 | 1730 | 28.2 | 59.0 | GOES 1 | 3, VSBL 2 | | | | | | | | | | |
| 18 | 28 | 1737 | 28.1 | 59.1 | NOAA | 5/5 | 65 | 65 | 450M | 994 | | 24 | 21 | C | 20 | POORLY DEFINED. |
| 19 | 28 | 1830 | 28.3 | 59.0 | GOES 1 | 2,3, VSBL 2 | | 45 | | | | | | | | |
| 20 | 29 | 0000 | 28.9 | 59.1 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 21 | 29 | 0030 | 28.8 | 59.2 | GOES 1 | 2,1, IR 8 | | 45 | | | | | | | | |
| 22 | 29 | 0600 | 29.2 | 59.7 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 23 | 29 | 0630 | 29.2 | 59.7 | GOES 1 | 2,3, IR 8 | | 45 | | | | | | | | |
| 24 | 29 | 1021 | 29.6 | 60.5 | AF | 3/1 | 60 | 65 | 700MB | 979 | 2886 | 12 | 9 | C | 22 | WELL DEFINED. |
| 25 | 29 | 1130 | 29.7 | 59.9 | GOES 1 | 1, VSBL 4 | | | | | | | | | | |
| 26 | 29 | 1200 | 29.7 | 60.4 | AF | | | 65 | 700MB | | 2890 | | | | | |
| 27 | 29 | 1230 | 29.8 | 60.1 | GOES 1 | 1,1, VSBL 2 | | 65 | | | | | | | | |
| 28 | 29 | 1330 | 29.6 | 60.1 | AF | 5/1 | 70 | 65 | 700MB | 980 | 2902 | 13 | 9 | C | 15 | LESS WELL DEFINED. |
| 29 | 29 | 1430 | 30.0 | 60.1 | GOES 1 | 1, VSBL 4 | | | | | | | | | | |
| 30 | 29 | 1632 | 30.1 | 60.3 | NOAA | 1/1 | 60 | | 700MB | 975 | 2893 | 14 | 8 | C | 18 | POORLY DEFINED. |
| 31 | 29 | 1800 | 30.3 | 60.2 | GOES 1 | 1, VSBL 2 | | | | | | | | | | |
| 32 | 29 | 1815 | 30.2 | 60.2 | NOAA | 1/1 | 90 | | 700MB | 974 | 2880 | 15 | 8 | C | 15 | OPEN S. |
| 33 | 29 | 1830 | 30.3 | 60.2 | GOES 1 | 2,3, VSBL 2 | | 77 | | | | | | | | |
| 34 | 29 | 2145 | 30.7 | 60.2 | NOAA | 1/7 | 85 | | 700MB | 970 | 2864 | 19 | 8 | | | N WALL ONLY. |
| 35 | 30 | 0000 | 30.7 | 59.9 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 36 | 30 | 0030 | 31.1 | 59.9 | GOES 1 | 2,3, IR 8 | | 77 | | | | | | | | |

Table 5 continued.

HURRICANE GLORIA (CONTINUED)

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | ACFT. ALT. | MIN. PRESS. (MB) | MIN. 700MB HT. (M) | TEMP. (°C) | | EYE | | REMARKS |
|---------|------|------------|----------|-------|--------|-------------|----------------|------|------------|------------------|--------------------|------------|------|---------|-------|------------------------|
| | | | LAT. | LONG. | | | FLT. | SFC. | | | | IN. | OUT. | C-CIR. | DIA. | |
| | | | °N | °W | | | LVL. | | | | | | | C-ELIP. | N.MI. | |
| 37 | 30 | 0517 | 31.8 | 60.0 | AF | 10/4 | 75 | | 700MB | 976 | 2856 | 13 | 10 | C | 35 | CLOSED WALL. |
| 38 | 30 | 0600 | 32.1 | 59.7 | GOES 1 | 1, IR 8 | | | | | | | | | | |
| 39 | 30 | 0630 | 32.2 | 59.7 | GOES 1 | 1,1, IR 8 | | 84 | | | | | | | | |
| 40 | 30 | 1200 | 32.9 | 58.6 | GOES 1 | 2, VSBL 4 | | | | | | | | | | |
| 41 | 30 | 1200 | 33.0 | 58.8 | AF | 1/7. | 90 | 90 | 700MB | 980 | 2911 | 15 | 9 | C | 25 | WELL DEFINED ON RADAR. |
| 42 | 30 | 1230 | 32.9 | 58.6 | GOES 1 | 1,1, VSBL 2 | | 84 | | | | | | | | |
| 43 | 30 | 1520 | 33.6 | 58.3 | NOAA | 1/8 | 100 | 100 | 850MB | 979 | 1246 | 21 | 16 | C | 20 | POORLY DEFINED. |
| 44 | 30 | 1740 | 33.9 | 57.6 | NOAA | 1/8 | 100 | 105 | 850MB | 978 | 1240 | 21 | 16 | C | 35 | WELL DEFINED. |
| 45 | 30 | 1901 | 33.9 | 57.2 | GOES 1 | 1, VSBL 4 | | | | | | | | | | |
| 46 | 30 | 1830 | 34.1 | 57.2 | GOES 1 | 2,1, VSBL 2 | | 90 | | | | | | | | |
| 47 | 30 | 2130 | 34.4 | 56.5 | NOAA | 1/7 | 80 | 90 | | | | | | C | 25 | OPEN SW. |
| 48 | 01 | 0000 | 34.7 | 56.2 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 49 | 01 | 0030 | 34.7 | 56.0 | GOES 1 | 2,5, IR 8 | | 90 | | | | | | | | |
| 50 | 01 | 0600 | 35.0 | 54.8 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 51 | 01 | 0630 | 35.1 | 54.7 | GOES 1 | 1,5, IR 8 | | 83 | | | | | | | | |
| 52 | 01 | 1200 | 35.9 | 53.3 | GOES 1 | 5, VSBL 4 | | | | | | | | | | |
| 53 | 01 | 1230 | 35.7 | 53.6 | GOES 1 | 2,3, VSBL 2 | | 77 | | | | | | | | |
| 54 | 01 | 1800 | 35.6 | 52.6 | GOES 1 | 5, VSBL 4 | | | | | | | | | | |
| 55 | 01 | 1830 | 35.6 | 52.5 | GOES 1 | 5, VSBL 2 | | 60 | | | | | | | | |
| 56 | 02 | 0000 | 36.2 | 51.5 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 57 | 02 | 0030 | 36.2 | 51.5 | GOES 1 | 2,5, IR 8 | | 60 | | | | | | | | |
| 58 | 02 | 0600 | 36.4 | 50.6 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 59 | 02 | 0630 | 36.4 | 50.5 | GOES 1 | 3, IR 8 | | 60 | | | | | | | | |
| 60 | 02 | 1200 | 37.1 | 49.8 | GOES 1 | 6, VSBL 4 | | | | | | | | | | |
| 61 | 02 | 1230 | 37.1 | 49.8 | GOES 1 | 2,4, VSBL 2 | | 60 | | | | | | | | |
| 62 | 02 | 1800 | 37.0 | 49.1 | GOES 1 | 3, VSBL 4 | | | | | | | | | | |
| 63 | 02 | 1930 | 37.0 | 49.0 | GOES 1 | 1,3, VSBL 2 | | 55 | | | | | | | | |
| 64 | 03 | 0000 | 36.7 | 47.7 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 65 | 03 | 0030 | 36.7 | 47.7 | GOES 1 | 1,5, IR 8 | | 55 | | | | | | | | |
| 66 | 03 | 0600 | 35.8 | 46.7 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 67 | 03 | 0630 | 35.8 | 46.7 | GOES 1 | 2,5, IR 8 | | 55 | | | | | | | | |
| 68 | 03 | 1200 | 35.9 | 46.9 | GOES 1 | 5, VSBL 4 | | | | | | | | | | |
| 69 | 03 | 1230 | 35.9 | 46.9 | GOES 1 | 1,3, VSBL 2 | | 55 | | | | | | | | |
| 70 | 03 | 1800 | 36.1 | 46.5 | GOES 1 | 3, VSBL 4 | | | | | | | | | | |
| 71 | 03 | 1830 | 36.1 | 46.6 | GOES 1 | 1,3, VSBL 2 | | 45 | | | | | | | | |
| 72 | 04 | 0030 | -- | -- | GOES 1 | IR 8 | | | | | | | | | | |
| 73 | 04 | 1200 | 36.6 | 41.6 | GOES 1 | 4, VSBL 2 | | | | | | | | | | |
| 74 | 04 | 1230 | 36.7 | 41.4 | GOES 1 | 3, VSBL 2 | | | | | | | | | | |
| 75 | 04 | 1800 | 37.1 | 38.6 | GOES 1 | 3, VSBL 4 | | | | | | | | | | |
| 76 | 04 | 1830 | 37.2 | 38.6 | GOES 1 | 3, VSBL 2 | | | | | | | | | | |

Table 5 continued.

HURRICANE HOLLY
22 - 28 OCTOBER 1976

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | MAX. WIND (KT) | | ACFT. | MIN. PRESS. | | TEMP (°C) | | EYE | | REMARKS |
|------------|------|---------------|----------|-------|--------|------------|----------------|------|-------|-------------|----------|-----------|------|-------------|---------------|----------------------------------|
| | | | LAT. | LONG. | | | FLT. | SFC. | | PRESS. | 700MB | IN. | OUT. | C=CIR. DIA. | C=ELIP. N.MI. | |
| | | | 'N | 'W | | | LVL. | ALT. | | (MB) | HT. (ft) | | | | | |
| 1 | 22 | 1831 | 19.2 | 55.9 | GOES 1 | 1,3,VSBL 2 | | 25 | | | | | | | | |
| 2 | 23 | 0000 | 20.0 | 56.3 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 3 | 23 | 0030 | 20.0 | 56.5 | GOES 1 | 1,3, IR 8 | | 25 | | | | | | | | |
| 4 | 23 | 0600 | 20.7 | 56.6 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 5 | 23 | 0630 | 20.7 | 56.6 | GOES 1 | 1,3, IR 8 | | 30 | | | | | | | | |
| 6 | 23 | 1200 | 22.1 | 57.1 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 7 | 23 | 1230 | 22.2 | 57.1 | GOES 1 | 1,3,VSBL 2 | | 30 | | | | | | | | |
| 8 | 23 | 1430 | 22.5 | 57.5 | GOES 1 | 1,VSBL 1 | | | | | | | | | | |
| 9 | 23 | 1600 | 22.7 | 57.8 | GOES 1 | 1,VSBL 1 | | | | | | | | | | |
| 10 | 23 | 1730 | 22.7 | 58.2 | GOES 1 | 5,VSBL 1 | | | | | | | | | | |
| 11 | 23 | 1830 | 22.7 | 58.2 | GOES 1 | 1,5,VSBL 2 | | 32 | | | | | | | | |
| 12 | 24 | 0000 | 23.2 | 58.3 | GOES 1 | 3, IR 8 | | | | | | | | | | |
| 13 | 24 | 0030 | 23.3 | 58.4 | GOES 1 | 1,3, IR 8 | | 32 | | | | | | | | |
| 14 | 24 | 0600 | 24.1 | 58.1 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 15 | 24 | 0630 | 24.1 | 58.1 | GOES 1 | 1,5, IR 8 | | 32 | | | | | | | | |
| 16 | 24 | 1201 | 25.1 | 57.6 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 17 | 24 | 1231 | 25.2 | 57.7 | GOES 1 | 1,3,VSBL 2 | | 35 | | | | | | | | |
| 18 | 24 | 1744 | 25.9 | 57.7 | AF | 25/3 | 50 | 65 | 152M | 990 | | 25 | 23 | C | 10 | WELL DEFINED. |
| 19 | 24 | 1801 | 26.0 | 57.7 | GOES 1 | 3,VSBL 4 | | | | | | | | | | |
| 20 | 24 | 1811 | 26.1 | 57.7 | GOES 1 | 2,3,VSBL 4 | | 45 | | | | | | | | |
| 21 | 24 | 2000 | 25.9 | 53.3 | AF | 15/3 | 65 | 65 | 700MB | 993 | 3018 | 12 | 8 | C | 10 | OPEN N-NE. WALL CLOUD SE-S-W. |
| 22 | 24 | 2135 | 26.1 | 58.4 | AF | 5/2 | 45 | 50 | 700MB | 994 | 3018 | 12 | 8 | C | 10 | |
| 23 | 25 | 0001 | 27.2 | 56.9 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 24 | 25 | 0030 | 27.2 | 57.1 | GOES 1 | 1,5, IR 8 | | 50 | | | | | | | | |
| 25 | 25 | 0630 | 28.9 | 56.8 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 26 | 25 | 0630 | 28.9 | 56.8 | GOES 1 | 1,5, IR 8 | | 50 | | | | | | | | |
| 27 | 25 | 1201 | 29.9 | 54.4 | GOES 1 | 4,VSBL 2 | | | | | | | | | | |
| 28 | 25 | 1231 | 30.0 | 54.3 | GOES 1 | 2,3,VSBL 2 | | 50 | | | | | | | | |
| 29 | 25 | 1256 | 31.0 | 55.3 | AF | 10/10 | 35 | 50 | 700MB | 1000 | 3033 | 8 | 7 | C | 15 | POORLY DEFINED. |
| 30 | 25 | 1419 | 31.8 | 54.7 | AF | 10/10 | 20 | 50 | 700MB | | 3033 | 8 | 9 | C | 20 | POORLY DEFINED. |
| 31 | 25 | 1801 | 31.5 | 53.7 | GOES 1 | 5,VSBL 4 | | | | | | | | | | |
| 32 | 25 | 1831 | 31.5 | 53.7 | GOES 1 | 1,5,VSBL 2 | | 50 | | | | | | | | |
| 33 | 26 | 0030 | 31.8 | 50.4 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 34 | 26 | 0030 | 31.8 | 50.4 | GOES 1 | 1,5, IR 8 | | 50 | | | | | | | | |
| 35 | 26 | 0600 | 33.9 | 48.8 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 36 | 26 | 0630 | 33.5 | 48.8 | GOES 1 | 1,5, IR 8 | | 50 | | | | | | | | |

Table 5 continued.

HURRICANE HOLLY (CONTINUED)

| FIX NO. | DATE | TIME (GMT) | POSITION | | UNIT | CHARACTER. | CENTER FIXES | | | | | REMARKS | | | | |
|------------|------|---------------|-----------|-----------|--------|------------|----------------|------|---------------|------------------------|--------------------------|---------|------------|------|--------|-----------------------|
| | | | LAT. N | LON. W | | | MAX. WIND (KT) | | ACFT. ALT. | MIN. PRESS. (MB) | MIN. 700MB HT. (M) | | TEMP. (°C) | | EYE | |
| | | | | | | | FLT. LVL. | SFC. | | | | | IN. | OUT. | C-CIR. | DIA. C-ELIP. N.MI. |
| 37 | 26 | 1100 | 31.9 | 51.0 | GOES 1 | 4,VSBL 2 | | | | | | | | | | |
| 38 | 26 | 1230 | 32.5 | 51.3 | GOES 1 | 2,3,VSBL 2 | | 40 | | | | | | | | |
| 39 | 26 | 1430 | 32.7 | 51.5 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 40 | 26 | 1730 | 32.7 | 50.5 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 41 | 26 | 1830 | 32.7 | 50.4 | GOES 1 | 2,3,VSBL 2 | | 40 | | | | | | | | |
| 42 | 27 | 0030 | 33.4 | 50.2 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 43 | 27 | 0030 | 33.4 | 50.2 | GOES 1 | 1,5, IR 8 | | 40 | | | | | | | | |
| 44 | 27 | 0630 | 34.0 | 50.0 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 45 | 27 | 0700 | 34.0 | 50.0 | GOES 1 | 1,5, IR 8 | | 40 | | | | | | | | |
| 46 | 27 | 1200 | 33.5 | 49.0 | GOES 1 | 5,VSBL 2 | | | | | | | | | | |
| 47 | 27 | 1230 | 34.5 | 49.5 | GOES 1 | 2,5,VSBL 2 | | 40 | | | | | | | | |
| 48 | 27 | 1730 | 35.7 | 48.1 | GOES 1 | 3,VSBL 2 | | | | | | | | | | |
| 49 | 27 | 1830 | 35.8 | 47.8 | GOES 1 | 2,5,VSBL 2 | | 40 | | | | | | | | |
| 50 | 28 | 0001 | 37.2 | 45.3 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 51 | 28 | 0030 | 37.2 | 45.3 | GOES 1 | 2,5, IR 8 | | 40 | | | | | | | | |
| 52 | 28 | 0630 | 39.4 | 42.8 | GOES 1 | 5, IR 8 | | | | | | | | | | |
| 53 | 28 | 0630 | 39.5 | 42.8 | GOES 1 | 2,5, IR 8 | | 35 | | | | | | | | |
| 54 | 28 | 1130 | 41.5 | 39.7 | GOES 1 | 5,VSBL 4 | | | | | | | | | | |
| 55 | 28 | 1230 | 42.5 | 39.0 | GOES 1 | 2,5,VSBL 2 | | 35 | | | | | | | | |
| 56 | 28 | 1730 | 45.0 | 35.0 | GOES 1 | 6,VSBL 2 | | | | | | | | | | |
| 57 | 28 | 1830 | 45.0 | 34.5 | GOES 1 | 2,6,VSBL 2 | | 30 | | | | | | | | |

Table 6.

AERIAL WEATHER RECONNAISSANCE SUMMARY FOR THE
1976 HURRICANE SEASON
(ATLANTIC AND PACIFIC)

| | | AIR FORCE* | AIR FORCE RESERVES | NOAA/RFC | TOTALS |
|-------------------------|---------|------------|--------------------|----------|--------|
| NAMED STORM FIXES | LEVIED: | 33 | 56 | 11 | 100 |
| | MADE: | 49 | 103 | 19 | 171 |
| OBSERVATIONS | | 525 | 1085 | 111 | 1721 |
| DROPSONDES | | 39 | 69 | 0 | 108 |
| MISSIONS | STORM: | 25 | 39 | 8 | 72 |
| | INVEST: | 10 | 27 | 0 | 37 |
| | TOTAL: | 35 | 66 | 8 | 109 |
| FLYING TIME | STORM: | 234.1 | 415.5 | 65.9 | 715.5 |
| | INVEST: | 98.5 | 246.5 | 0 | 345.0 |
| | TOTAL: | 332.6 | 662.0 | 65.9 | 1060.5 |

* Includes 5 missions/32.1 hours flown by 54 WRS in Central Pacific