

RFC-1 WORK FORM (7-76) U.S. DEPARTMENT OF COMMERCE  
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
 RESEARCH FACILITIES CENTER  
 MIAMI, FLORIDA

**FLIGHT LOG**

AIRCRAFT  
*N42RF*

FLIGHT NO.  
*44-81*

FLIGHT ID  
*810911H*

DATE  
*9/11/81*

TAKE OFF (City or airport)  
*MIA*

LAND (City or airport)  
*MIA*

ALTITUDE  
*5K*

PURPOSE  
*Long term monitoring of Hurricane Gloria*


|                                     |   |
|-------------------------------------|---|
| PROPOSED TAKEOFF TIME: <i>2140Z</i> | PROPOSED FLIGHT DURATION: <i>10 HRS</i> |
| TIME IN: <i>0750</i>                | TIME ON: <i>0744</i>                    |
| TIME OUT: <i>2145</i>               | TIME OFF: <i>2154</i>                   |
| BLK. TIME: <i>10.1</i>              | FLIGHT TIME: <i>9.9</i>                 |

**FLIGHT PERSONNEL**


| OPERATIONS CREW   |  | SCIENTIFIC CREW  |                   | VISITORS       |                   |
|-------------------|--|------------------|-------------------|----------------|-------------------|
| <i>GUNNOE</i>     |  | <i>HAYDU</i>     | <i>CALVERT</i>    | <i>GRIFFIN</i> | <i>ANDERSON</i>   |
| <i>GENZLINGER</i> |  | <i>PARADIS</i>   | <i>DRESSLER</i>   | <i>MARKS</i>   | <i>PASSARELLI</i> |
| <i>NELSON</i>     |  | <i>GOLDSTEIN</i> | <i>WILLOUGHBY</i> | <i>ZIPSER</i>  |                   |
| <i>ROSE</i>       |  | <i>JARVI</i>     | <i>WILLIS</i>     | <i>BARNES</i>  |                   |

PROPOSED MISSION  
*see enclosed plans from NHRL  
 also 00Z, 03Z, 06Z fix requirements*

ACTUAL MISSION AND REMARKS



*1 time*



|            |                 |                  |                  |                  |              |              |
|------------|-----------------|------------------|------------------|------------------|--------------|--------------|
| <i>00Z</i> | <i>AT 0020Z</i> | <i>31° 25' N</i> | <i>69° 29' W</i> | <i>190/90KTS</i> | <i>989mb</i> | <i>1350m</i> |
| <i>03Z</i> | <i>AT 0231Z</i> | <i>31° 49' N</i> | <i>69° 05' W</i> | <i>240/80KTS</i> | <i>991mb</i> | <i>1366</i>  |
| <i>06Z</i> | <i>AT 0500Z</i> | <i>32° 25' N</i> | <i>68° 35' W</i> | <i>240/70KTS</i> | <i>992mb</i> | <i>1373</i>  |

DATA COLLECTED AND REMARKS

|                    |                      |
|--------------------|----------------------|
| <i>1 slow tape</i> | <i>8 PMS tape</i>    |
| <i>1 P/O</i>       | <i>8 Radar tapes</i> |
| <i>1 fast tape</i> |                      |

| TK    | LAT     | LONG     | RA     | PA          | TA    | TD | WD  | WS | PS     | HT         | SS |
|-------|---------|----------|--------|-------------|-------|----|-----|----|--------|------------|----|
| 15    | MIA ALT | 29.99    | N42RF  | ALT (-130') |       |    |     | PS | 1013.7 |            |    |
| 04 71 | 25.5    | 80.3     | 2370   | 2294        | 17    | 5  | 360 | 5  | 1013   | 5800       |    |
|       |         | 20 15 E  |        |             | 30.41 |    |     |    |        | 988 M65    |    |
|       |         |          |        |             | 70.21 |    |     |    |        | 1801 80175 |    |
|       | TD      |          |        |             |       |    |     | 85 | abc    |            |    |
|       | 700 E   | Windward |        |             |       |    |     |    | SW     |            |    |
|       | W-20    |          | 30 KTS |             |       |    |     |    |        |            |    |

|        |     |       |       |      |      |    |     |     |    |      |      |      |
|--------|-----|-------|-------|------|------|----|-----|-----|----|------|------|------|
| 2245   | 055 | 27.05 | 77.3  | 5773 | 5504 | -7 | -15 | 250 | 6  | 505  | 5815 | 23.1 |
| 2250   | 061 | 27.3  | 76.85 | 5773 | 5502 | -7 | -11 | 260 | 4  | 505  | 5849 |      |
| 2259   | 48  | 27.8  | 76.1  | 5775 | 5501 | -7 | -14 | 260 | 10 | 505  | 5852 |      |
| 2329   | 56  | 29.3  | 73    |      |      |    |     |     |    |      |      |      |
| 233330 | 56  | 29.5  | 73.3  | 5774 | 5492 | -8 | -15 | 265 | 5  | 505  | 5859 | 22.1 |
| 2344   | 58  | 30.0  | 72.4  | 5776 | 5489 | -7 | -12 | 284 | 5  | 506  | 5865 |      |
| 2353   | 64  | 30.5  | 71.5  | 5773 | 5487 | -6 | -32 | 276 | 9  | 506  | 5863 |      |
| 2357   | 63  |       |       |      |      |    |     |     |    |      |      |      |
| 0006   | 60  | 30.95 | 70.4  | 1609 | 1554 | 15 | 13  | 320 | 14 | 840  | 1510 | 24.6 |
| 0009   | 61  | 31.05 | 70.2  | 1600 | 1551 | 16 | 15  | 330 | 14 | 840  | 1500 |      |
| 0011   | 63  | 31.1  | 70.1  | 1584 | 1549 | 16 | 15  | 330 | 14 | 840  | 1470 |      |
| 0013   | 62  | 31.2  | 69.95 | 1569 | 1548 | 19 | 13  | 330 | 20 | 840  | 1459 |      |
| 0015   | 60  | 31.2  | 69.8  | 1544 | 1545 | 20 | 15  | 334 | 23 | 1000 | 1433 |      |

|  |  |       |       |       |       |  |  |     |    |      |      |  |
|--|--|-------|-------|-------|-------|--|--|-----|----|------|------|--|
|  |  |       |       | 31.29 | 67.70 |  |  | 333 | 30 | 994  | 1377 |  |
|  |  |       |       | 1542  |       |  |  |     |    | 973  |      |  |
|  |  | 31.33 | 69.62 | 9809  |       |  |  |     |    |      |      |  |
|  |  |       |       | 990   | 1353  |  |  |     |    |      |      |  |
|  |  | 31.39 | 69.57 |       |       |  |  | 990 |    |      |      |  |
|  |  |       |       | 1350  |       |  |  | 989 |    |      |      |  |
|  |  | 31.40 | 69.52 | 9     |       |  |  |     |    |      |      |  |
|  |  | 00202 |       |       |       |  |  |     |    |      |      |  |
|  |  |       |       | 1549  | 9.3   |  |  |     |    | 13   |      |  |
|  |  | 31.25 | 69.29 |       |       |  |  |     |    |      |      |  |
|  |  | 33    | 31.4  | 69.21 |       |  |  |     |    | 60   |      |  |
|  |  | 3     | 31.40 | 69.17 |       |  |  |     |    | 3    |      |  |
|  |  |       |       |       |       |  |  |     |    | 10.0 |      |  |

run ② → ① 0020-0043

02 FIX 31° 25' N 69° 29' W 90 KTS 989 MGS  
Turning 0043 850/1350M

① → ⑤ 0044 - 010130

059 330 32.55 68.4 1633 1554 14 14 137 18 1015 1530

⑤ → ② 010230 - 0123

|      |     |       |       |      |      |    |    |     |      |      |      |
|------|-----|-------|-------|------|------|----|----|-----|------|------|------|
| 0103 | 228 | 32.7  | 68.6  | 1631 | 1552 | 15 | 14 | 136 | 20   | 1014 | 1530 |
| 0107 | 209 | 32.5  | 68.7  | 1626 | 1555 | 15 | 12 | 135 | 21.2 | 1013 | 1521 |
| 0111 | 214 | 32.2  | 68.9  | 1605 | 1552 | 15 | 14 | 136 | 28   | 1011 | 1507 |
| 0113 | 214 | 32.2  | 69.0  | 1601 | 1552 | 15 | 13 | 135 | 30   | 1010 | 1494 |
| 0115 | 215 | 32.0  | 69.1  | 1587 | 1555 | 16 | 15 | 127 | 32   | 1008 | 1486 |
| 0117 | 210 | 31.75 | 69.15 | 1587 | 1554 | 16 | 15 | 115 | 29   | 1007 | 1476 |
| 0118 | 205 | 31.85 | 69.2  | 1557 | 1556 | 15 | 16 | 114 | 34   | 1006 | 1463 |
| 20   | 202 | 31.55 | 69.3  | 1510 | 1555 | 15 | 15 | 114 | 38   | 1005 | 1444 |
| 21   |     |       |       | 1551 |      | 18 | 18 | 125 | 40   | 1004 | 1424 |

22 190 31.66 69.33 1550 106 11 23 14 989 1350

31.34 69.18  
59 36

60  
15  
300  
80  
500

989

CENTER FIX 850 MT

0123 31° 34' N 69° 18' W 80 KTS 1352 989

run ② - ④ 0125 - 0145

run ④ - ⑦ 0146 - 0207

en route calibration

Hdg 90 270 / 15.5

Hdg 135 014730 - 4930 (275/14.5  
270/14

Hdg 45 015030 - 015430 (270/13.5  
265/14.5

Hdg 135 015530 - 015730 (270/17.0  
264/16

0159 80 30.3 69.1 1641 1553 16 13 230 18 1014 1530

⑦ - ① 0208 - 0231

| TK     | LAT             | LOX         | RA        | PA   | TA     | TD  | WD  | WS    | SP   | HT    |      |
|--------|-----------------|-------------|-----------|------|--------|-----|-----|-------|------|-------|------|
| 327    | 30.9            | 68.8        | 1618      | 1555 | 16     | 13  | 240 | 26    | 1011 | 5     |      |
| 328    | 31.0            | 68.9        | 1607      | 1550 | 16     | 15  | 230 | 29    | 1011 | 1509  |      |
| 329    | 31.1            | 68.9        | 1606      | 1556 | 17     | 14  | 225 | 29    | 1009 | 1479  |      |
| 325    | 31.1            | 68.7        | 1600      | SE   | 17     | 15  | 230 | 32    | 1007 | 1475  |      |
| 326    | 31.2            | 68.97       | 1599      | 51   | 18     | 14  | 230 | 34    | 07   | 1481  |      |
| 328    | 31.3            | 69.0        | 1567      | 1543 | 19     | 14  | 240 | 39    | 05   | 1465  |      |
| 329    | 31.3            | 69.1        | 1583      | 1554 | 20     | 15  | 240 | 38    | 02   | 1451  |      |
| 327    | 31.4            | 69.1        | 1544      | 1555 | 22     | 14  | 260 | 36    | 97   | 1434  |      |
| 31     | 31.4            | 69.1        |           | 1557 | 26     | 14  |     |       | 94   | 1410  |      |
| 31.5   | 69.13           | 1544        |           |      | 977    | 99  | 2   | 13    | 77   |       |      |
| 31.6   | 69.1            | 1550        |           |      | 991    | 991 |     | 13    | 70   |       |      |
| 31.72  | 69.17           |             |           |      |        |     |     | 20    |      |       |      |
| 31.75  | 69.19           |             |           |      |        |     |     | 20    |      |       |      |
| 31.49  | 69.05           |             |           |      |        |     |     | 20    |      |       |      |
| FIX AT | 0231Z           | 31° 49' N   | 69° 05' W |      | 80 KTS |     |     | 991   | 1705 |       |      |
| 0233   | 330             | 31.9        | 69.3      | 1521 | 1555   | 18  | 16  | 60    | 20   | 1000  | 1472 |
| 0235   | 330             | 32.0        | 69.4      | 1560 | 1550   | 16  | 16  | 75    | 20   | 1006  | 1475 |
| 0237   | 330             | 32.1        | 69.5      | 1580 | 1553   | 16  | 16  | 90    | 24   | 007   | 1476 |
| 0239   | 330             | 32.25       | 69.35     | 1591 | 1554   | 16  | 14  | 90    | 19   | 009   | 1474 |
| run    | ② - ⑥           | 0233 - 0248 |           |      |        |     |     |       |      |       |      |
| run    | ② - ⑥           | 0249        |           |      |        |     |     |       |      |       |      |
| run    | ② - ⑥           | 0249 - 0306 |           |      |        |     |     |       |      |       |      |
| run    | ② - ⑥           | 0307 - 0328 |           |      |        |     |     |       |      |       |      |
| HDT    | 215             | 0851145     |           |      |        |     |     |       |      |       |      |
| 260    | 025430 - 5630   |             |           |      | 080/7  |     |     | 070/7 |      | 060/7 |      |
| 170    | 025730 - 030130 |             |           |      | 050/8  |     |     | 043/8 |      |       |      |
| 260    | 030240 - 030440 |             |           |      | 040/8  |     |     | 033/8 |      |       |      |
| run    | ② - ⑥           | 0249 - 0306 |           |      | 26/8   |     |     |       |      |       |      |
| run    | ② - ⑥           | 0307 - 0328 |           |      |        |     |     |       |      |       |      |

| TK     | LAT   | LOX     | RA      | PA          | TA   | TD  | WD     | WS     | SP       | HI                      |        |
|--------|-------|---------|---------|-------------|------|-----|--------|--------|----------|-------------------------|--------|
| 090    | 32.0  | 70.25   | 1617    | 1552        | 16   | 14  | 360    | 9      | 1012     | 1516                    |        |
| 093    | 32.0  | 69.7    | 1590    | 1553        | 16   | 16  | 010    | 17     | 08       | 1487                    |        |
| 096    | 31.9  | 69.5    | 1565    | 1553        | 17   | 16  | 360    | 23     | 05       | 1462                    |        |
| 24     | 090   | 31.9    | 69.3    | 1523        | 1553 | 18  | 18     | 355    | 25       | 999<br>1405             |        |
| 0325   | 31.9  | 69.2    |         |             | 20   | 17  | 340    | 28     | 95<br>94 | 1377                    |        |
| 26     | 31.9  | 69.1    | 24      | 15          | 92   |     | 13     | 78     |          |                         |        |
| 27     | 31.95 | 69.1    | 23      | 15          | 92   | 92  |        | 1377   |          |                         |        |
| 28     |       |         |         |             |      |     |        |        |          |                         |        |
|        | 29    | 99      | 99      |             |      |     |        | 991    |          |                         |        |
|        | 32.03 | 68.49   |         | 999         | 1367 |     |        |        |          |                         |        |
| FIX    | 31.99 | 68.97   |         | 991         |      |     | 040/16 |        |          | 850 HT                  |        |
|        | 32.00 | 69.00   |         |             |      |     |        |        |          |                         |        |
|        | 32.02 | 68.66   |         |             | 180  | 175 | HT     | 991    |          | 1377                    |        |
| FIX    | 03282 | 32°03'N | 68°49'W |             |      |     |        |        |          |                         |        |
|        |       | turning | 43°     |             |      |     |        |        |          | these runs were shorter |        |
| run    | ②     | ①       |         | 0330 - 0343 |      |     |        | 60 NMI |          |                         |        |
| run    | ①     | ⑤       |         | 0344 - 0353 |      |     |        |        |          |                         |        |
| run    | ⑤     | ②       |         | 0354 - 0411 |      |     |        | 60 NMI |          |                         |        |
| 035430 | 230   | 32.8    | 68.05   | 1626        | 1554 | 15  | 13     | 150    | 26       | 013                     | 1525   |
| 0356   | 230   | 32.8    | 68.1    | 1623        | 1550 | 15  | 14     | 150    | 23       | 012                     | 1521   |
| 0358   | 230   | 32.7    | 68.2    | 1616        | 1554 | 15  | 15     | 150    | 27       | 012                     | 1511   |
| 0408   | 225   | 32.6    | 68.3    | 1604        | 1550 | 15  | 15     | 145    | 28       | 11                      | 1501   |
| 0402   | 230   | 32.5    | 68.45   | 1587        | 1547 | 15  | 15     | 145    | 29       | 8                       | 1486   |
| 0404   | 235   | 32.5    | 68.5    | 1574        | 1549 | 16  | 15     | 144    | 34       | 7                       | 1472   |
| 0406   | 230   | 32.4    | 68.7    | 1551        | 1546 | 15  | 15     | 146    | 37       | 1                       | 1429   |
| 08     | 230   | 32.3    | 68.8    | 1511        | 1546 | 16  | 18     | 148    | 26       | 7                       | 1403   |
| 10     |       |         |         |             |      |     |        |        |          |                         |        |
|        | 60    |         |         |             |      |     |        |        |          | 24                      | 113    |
|        | 70    |         |         |             |      |     |        |        |          |                         |        |
|        | 70    | 32.16   |         |             |      |     |        | 992    |          |                         | 1376   |
|        | 125   | 20      |         | 68.91       |      |     |        |        |          |                         |        |
| FIX    | 04112 |         |         |             |      |     | 75 KTS | 991 MB |          |                         | 850 HT |
|        |       |         |         |             |      |     |        |        |          |                         | 1376   |
| 041930 | 210   | 31.7    | 69.25   | 1591        | 1554 | 16  | 16     | 270    | 16       | 08                      | 1492   |
|        |       |         |         |             |      |     |        |        |          |                         |        |
| run    | ②     | ④       |         | 0413 - 0423 |      |     |        |        |          |                         |        |
| run    | ④     | ②       |         | 0424 - 0438 |      |     |        |        |          |                         |        |
| 0434   | 096   | 31.4    | 68.5    | 1613        | 1552 | 16  | 14     | 230    | 20       | 12                      | 1515   |
|        |       |         |         |             |      |     |        |        |          |                         |        |
| run    | ⑦     | ②       |         | 0442 - 0500 |      |     |        |        |          |                         |        |

|    | TK  | LAT   | LOX   | RAPA      | TA | TD | WD  | WS | SP | HT   |
|----|-----|-------|-------|-----------|----|----|-----|----|----|------|
| 30 | 332 | 31.6  | 68.3  | 1606 1552 | 17 | 13 | 222 | 24 | 10 | 1505 |
| 7  | 334 | 31.7  | 68.35 | 1598 1549 | 18 | 13 | 218 | 25 | 09 | 1500 |
| 19 | 310 | 31.8  | 68.4  | 1584 1549 | 16 | 16 | 225 | 30 | 8  | 1482 |
| 51 | 310 | 31.85 | 68.5  | 1578 1552 | 16 | 16 | 225 | 31 | 6  | 1472 |
| 53 | 315 | 31.9  | 68.6  | 1559 1552 | 17 | 16 | 230 | 32 | 4  | 1450 |
| 55 | 220 | 31.0  | 68.7  | 1530 1550 | 19 | 16 | 235 | 36 | 9  | 1419 |
| 57 | 338 | 32.1  | 68.8  | 1486 1553 | 22 | 16 | 257 | 17 | 3  | 1385 |

052 0500

24 14

992

32.33 68.83

82

75

32°25' 68°35'

73

**FIX**

AT 12/0500 32°25'N 68°35'W 70KTS

850 111

1373 99276

|      |     |       |       |           |     |     |     |    |  |  |
|------|-----|-------|-------|-----------|-----|-----|-----|----|--|--|
| 0555 | 235 | 30.16 | 72.53 | 8345 7920 | -22 | -26 | 220 | 8  |  |  |
| 0606 | 232 | 29.57 | 73.35 | 8340 7916 | -22 | -26 | 230 | 9  |  |  |
| 0617 | 235 | 29.1  | 74.2  | 8336 7910 | -22 | -26 | 240 | 8  |  |  |
| 0626 | 237 | 28.6  | 74.9  | 8342 7909 | -22 | -27 | 230 | 12 |  |  |
| 0635 | 232 | 28.2  | 75.6  | 8340 7904 | -22 | -25 | 210 | 14 |  |  |

USE

INE 2

| C<br>ANDER   | NAVIGATOR               | A/C<br>NO.  | MISSION<br>NO.          | TIME<br>AIRBORNE                                   | LOCATION                | DATE                  | PROJ.<br>NAME                    |               |                 |  |  |
|--|-------------------------|-------------|-------------------------|--|-------------------------|-----------------------|----------------------------------|---------------|-----------------|--|--|
| UNUC   | NEIS                    | NOAA<br>42  | 810911                  | 2154.  | N 25 48.3<br>W 080 17.6 | 11<br>Sept<br>81      | 6<br>JGCK                        |               |                 |  |  |
| TIME<br>OF<br>ENTRY  | POSITION                | TYPE        | INERTIAL<br>POSITION    | LAT<br>LON<br>COR'S                                | POSITION                | LAT<br>LON<br>COR'S   | REMARKS                          |               |                 |  |  |
| 2144   | N 25 48.3<br>W 080 17.6 | 4           | N<br>W<br>.2<br>.5      |  | N<br>W<br>.2<br>.5      |                       |                                  |               |                 |  |  |
| 2154   | N 25 48.1<br>W 080 16.2 | 4           | N<br>W<br>10<br>12      |  | N<br>W<br>10<br>12      |                       | r/o Hwy 27R.                     |               |                 |  |  |
| 2219   | N 25 42.3<br>W 079 17.7 | 2<br>9      | N 25 41.5<br>W 079 17.8 |  | N 25 41.7<br>W 079 17.4 |                       | 1 mile S of Isla<br>I only BATH. |               |                 |  |  |
| 2241   | N 26 52.5<br>W 077 31.0 | 4<br>9      | N 26 53.2<br>W 077 32.8 |  | N 26 53.3<br>W 077 31.5 |                       | CORNISH TOWN (ABACC)             |               |                 |  |  |
| 0020   |                         | 9           | N 31 24.2<br>W 069 33.6 |  | N 31 24.9<br>W 069 28.9 |                       | 9                                |               |                 |  |  |
| 0124   |                         | 9           | N 31 32.2<br>W 069 22.8 |  | N 31 34.3<br>W 069 17.8 |                       | 9                                |               |                 |  |  |
| 0231   |                         | 9           | N 31 45.6<br>W 069 11.6 |  | N 31 49.9<br>W 069 04.5 |                       | 9                                |               |                 |  |  |
| 0328   |                         | 9           | N 31 59.6<br>W 069 00.6 |  | N 32 02.9<br>W 068 49.2 |                       | 9                                |               |                 |  |  |
| 0411   |                         | 9           | N 32 10.1<br>W 068 59.7 |  | N 32 13.9<br>W 068 43.9 |                       | 9                                |               |                 |  |  |
| 0500   |                         | 9           | N 32 19.7<br>W 068 50.1 |  | N 32 25.1<br>W 068 34.7 |                       | 9                                |               |                 |  |  |
| 0704   | N 26 51.4<br>W 077 31.0 | 4           | N 26 52.5<br>W 077 46.1 |  | N 26 58.7<br>W 077 24.2 |                       | Cornish Town (ntacc)             |               |                 |  |  |
| 0744   | N 25 48.0<br>W 080 18.0 | 4           | N 25 47.4<br>W 080 17.0 |  | N 25 54.9<br>W 080 10.0 |                       | 106 msh.<br>to Hwy 9L            |               |                 |  |  |
| SYS  | BEGIN<br>ALIGN TIME     | NCS<br>CONN | Ω<br>AID                | TIME OUT OF<br>COARSE<br>ELAPSE ALIGN<br>POST TIME | ALIGN<br>STS<br>0-5     | (1) TIME<br>INTO NAV. | (2) TIME<br>OUT NAV.             | Δ T<br>(2)(1) | TERMINAL ERRORS |  |  |
| INS 1  | 2000                    | Y           | -                       | -  | 0                       | 2120                  | 0749                             | 10.5          |                 |  |  |
| INS 2 or<br>IMU  | 2000                    | Y           | -                       | -  | 0                       | 2120                  | 0749                             | 10.5          |                 |  |  |
| ALIGN REMARKS:   |                         |             |                         |  |                         | 21 49                 |                                  |               |                 |  |  |
| OTHER REMARKS:   |                         |             |                         |  |                         | 21 20                 |                                  |               |                 |  |  |
| TYPE OF FIX : (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN<br>(6) RADAR (7) DOPPLER (8) OMEGA (9) INERTIAL<br>(10) OMEGA - INERTIAL |                         |             |                         |  |                         |                       |                                  |               |                 |  |  |