

| | | |
|------------------|---------------------------------|----------------------|
| FLT ID: N980828 | FM: KMCF | TO: KOPF |
| FLT NO: 98-043 | BLK IN: 1522Z / 0226Z | RTA: 1518Z / 0222Z |
| ETD: 1430Z | BLK OUT: 1430Z 1424Z | RTD: 1437Z / 1728Z |
| ETE: | BLK TIME: 9:006 | FLT TIME: 8:54 |
| SPONSOR ORG: NHC | PROGRAM: HURR. SURVEILLANCE | PURPOSE: H. DANIELLE |

OAD PERSONNEL

| | |
|---------------------------------|--------------------------------|
| AC <i>PLAYER</i> | SYS ENG <i>HILL</i> |
| CP <i>MAXSON, FINKE, McCANN</i> | DATA SYS <i>PRADAS-BERGNES</i> |
| NAV | RADAR |
| FE <i>KITSON</i> | BT/ODW <i>McNAMARA</i> |
| RADIO | CLD PHYS |
| FD <i>D'AMIANO</i> | DOPPLER |

PARTICIPATING SCIENTIST/VISITORS/OAD

| LAST, FIRST NAME | ACTIVITY ON A/C | AFFILIATION |
|------------------|-----------------|-------------|
| <i>FRANKLIN</i> | <i>HAPS</i> | <i>NRD</i> |
| <i>WHITE</i> | <i>PM</i> | <i>ROC</i> |
| <i>McFADDEN</i> | <i>??</i> | <i>ROC</i> |
| <i>KAPLAN</i> | <i>HAPS</i> | <i>NRD</i> |
| | | |
| | | |

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

PICKED UP NRD FOLKS IN OPALOCKA PRIOR TO MISSION

McFADDEN GETS OFF IN OPALOCKA as well as Sean White

NO RD... WAS REMOVED

1757. BAL DPT (Left)

0112Z

Check temps

010820

NO DISPLAY UPDATE

U.S. DEPT. COMM./NOAA/ARO - DATA SECTION WORK FORM NO.2 DROWFZ FILE

FLT ID: N980828

TIME OFF: 1437Z

1728Z

TIME ON: 1518Z

0222Z

| | A/C T/O | WX STN | A/C LAND | WX STN |
|----------------------------------|---------------|-------------|---------------|-------------|
| PRESSURE | 1016.2/1016.1 | 30.07/30.01 | 1016.2/1015.5 | 30.01/29.97 |
| NO DATA DISPOSITION/DATE/QUALITY | | | | |

| | | |
|---------------------|----|-------------|
| 1/SEC FLT LVL TAPES | 3 | |
| FAST FLT LVL TAPES | | |
| RADAR TAPES | | |
| DOPPLER TAPES | | |
| ODW CASSETTES | | |
| HARD COPIES | | |
| AXBT | | |
| AXCP | | |
| GPS GPS | 31 | 29 messages |

PHOTOGRAPHY

| | FWD | LS | RS | VERT |
|------|-----|----|----|------|
| ON | | | | |
| OFF | | | | |
| RATE | | | | |

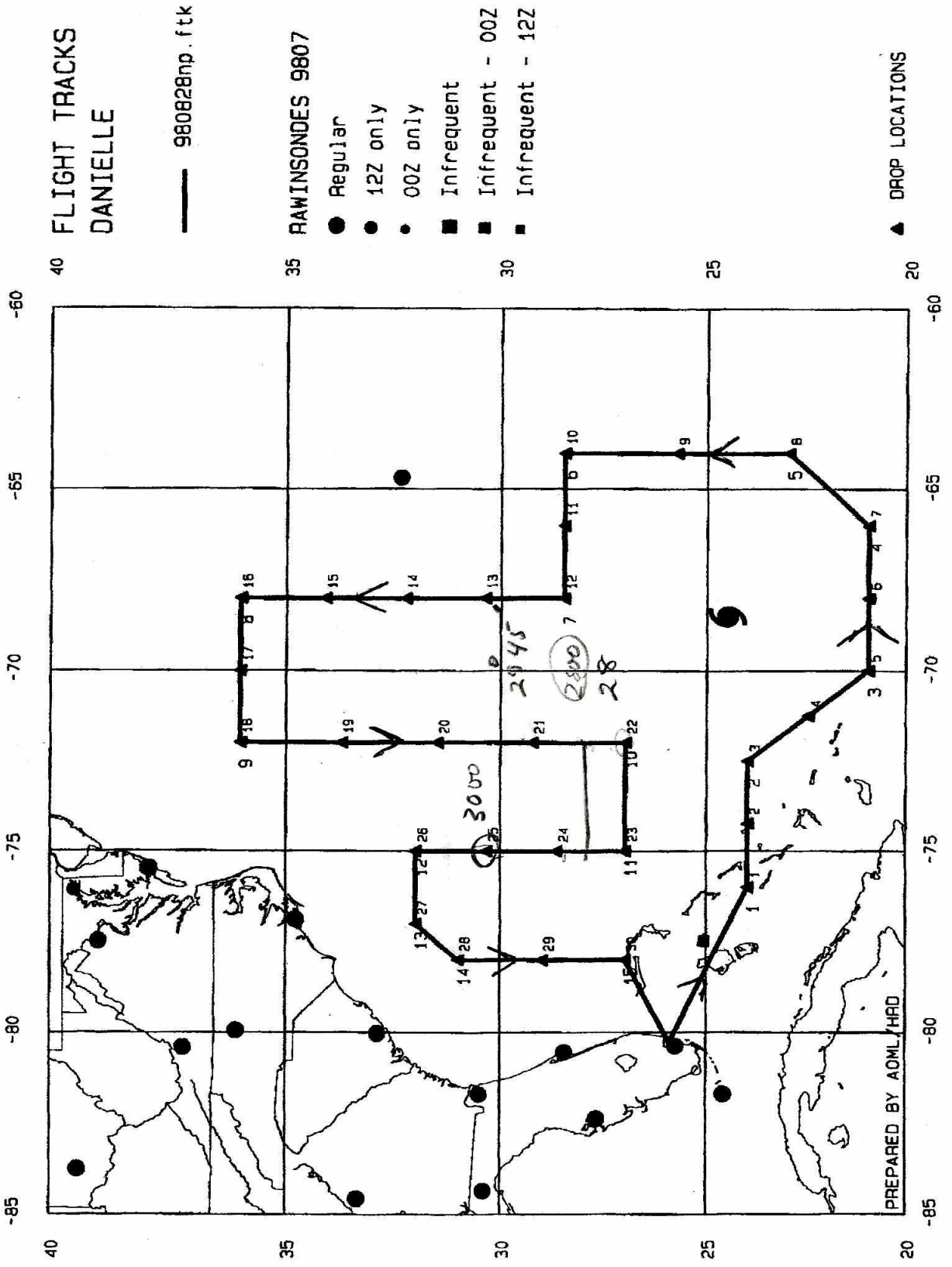
REMARKS

N980828

15/8

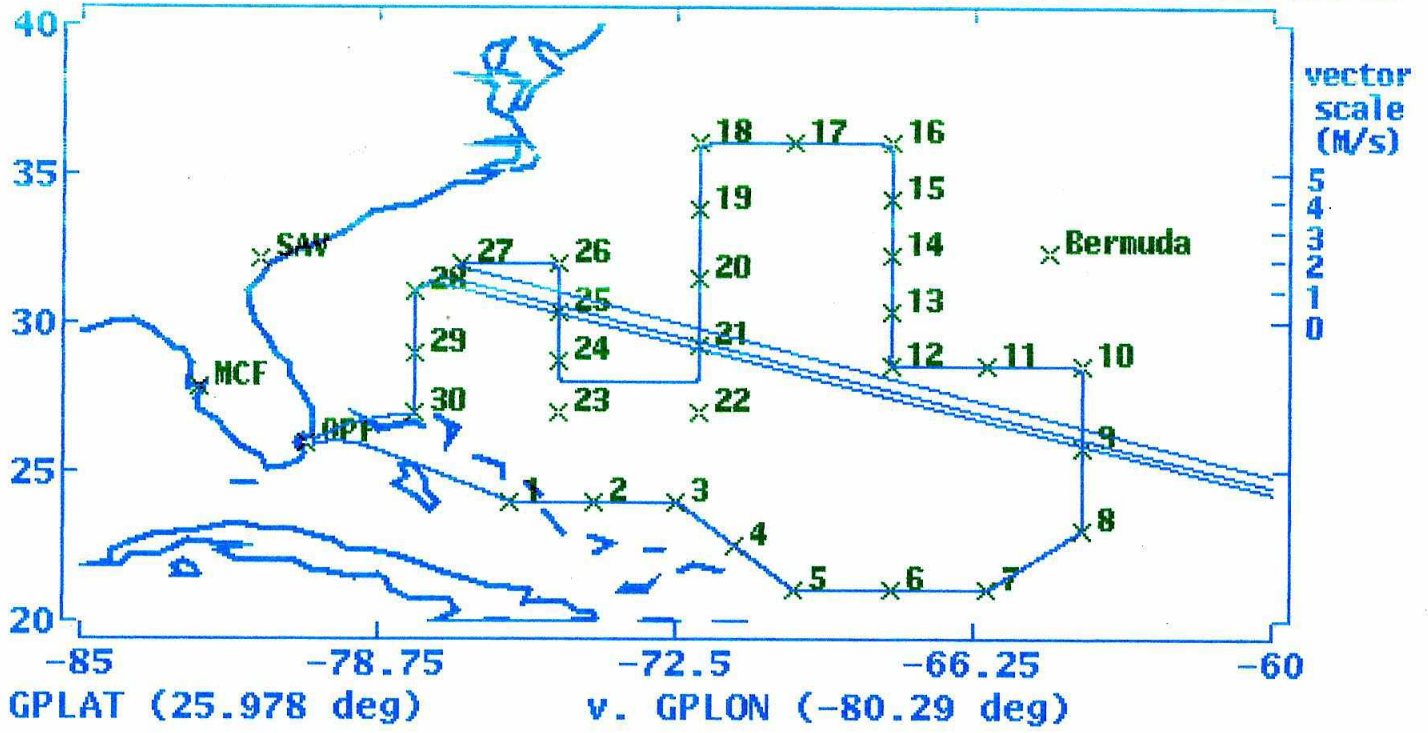
m/s

| TIME | LAT | LOU | TRK | HD | WD | WS | TA | TD | PA | GA | SP | PS | CLR | PQ |
|--------|------|------|-----|-----|-----|----|-------|-------|-------|-------|----|-------|-----------|-----------|
| 144700 | 2726 | 8224 | 171 | 177 | 160 | 8 | 7.2 | 0.3 | 3740 | 3976 | | 627 | CLR | 155.3 |
| 145800 | 2625 | 8137 | 132 | 129 | 87 | 11 | -6.6 | -17.2 | 5849 | 6144 | | 481.5 | CLR | 115.3 |
| 173944 | 2555 | 7613 | 107 | 104 | 107 | 10 | -7.5 | | | | | 500 | | |
| 174408 | 2542 | 7845 | | | 76 | 14 | | | | | | 400 | | |
| 180300 | 2430 | 7647 | 124 | 123 | 123 | 35 | -57.9 | -65.0 | 12567 | 13120 | | 175.6 | CLR | 87.0 |
| 181146 | 2400 | 7556 | 94 | 96 | 125 | 38 | -57.7 | -72.2 | 12561 | 13120 | | 175.6 | DROP | 88.4 |
| 181800 | 2400 | 7573 | 90 | 95 | 127 | 40 | -58.3 | -72.8 | 12564 | 13120 | | 175.7 | CLD BLW | 88.2 |
| 182614 | 2400 | 7415 | 90 | 94 | 124 | 37 | -58.2 | -73.4 | 12561 | 13131 | | 175.7 | DROP | 88.7 |
| 183600 | 2400 | 7307 | 90 | 93 | 119 | 37 | -58.0 | -73.7 | 12558 | 13136 | | 175.8 | CLR | 88.6 |
| 184214 | 2355 | 7226 | 138 | 135 | 120 | 36 | -58.7 | -73.4 | 12555 | 13145 | | 175.8 | DROP | 87.8 |
| 185400 | 2255 | 7135 | 143 | 137 | 116 | 36 | -58.8 | -65.9 | 12552 | 13142 | | 176.0 | CLR | 89.8 |
| 185902 | 2230 | 7115 | 142 | 138 | 122 | 36 | -58.7 | -64.3 | 12554 | 13134 | | 175.9 | CLD | DROP 87.8 |
| 191200 | 2124 | 7020 | 142 | 137 | 117 | 35 | -58.8 | -68.1 | 12554 | 13135 | | 175.9 | THN CLD | 88.8 |
| 191655 | 2100 | 6957 | 106 | 104 | 112 | 32 | -58.6 | -78.9 | 12559 | 13139 | | 175.9 | DROP | 89.0 |
| 193339 | 2100 | 6800 | 90 | 90 | 104 | 25 | -57.7 | -70.9 | 12541 | 13155 | | 176.3 | CLD | DROP 88.7 |
| 193528 | 2100 | 6747 | 90 | 90 | 101 | 25 | -57.8 | -70.8 | 12545 | 13153 | | 176.2 | DROP | 87.7 |
| 195133 | 2105 | 6554 | 43 | 45 | 90 | 22 | -57.4 | -69.7 | 12544 | 13160 | | 176.2 | DROP | 88.4 |
| 200500 | 2214 | 6446 | 43 | 44 | 65 | 20 | -57.9 | -65.9 | 12543 | 13163 | | 176.2 | THN CLD | 87.8 |
| 201437 | 2306 | 6400 | 5 | 2 | 18 | 7 | -58.2 | -62.5 | 12541 | 13177 | | 176.4 | CLD | DROP 88.6 |
| 203300 | 2521 | 6400 | 0 | 359 | 38 | 2 | -58.4 | -65.4 | 12538 | 13189 | | 176.4 | CLD | 88.4 |
| 203614 | 2545 | 6400 | 0 | 359 | 35 | 5 | -58.6 | -64.4 | 12537 | 13191 | | 176.4 | CLD | DROP 89.6 |
| 205700 | 2810 | 6400 | 0 | 359 | 7 | 16 | -63.3 | -69.4 | 13123 | 13795 | | 160.0 | CLR | 91.2 |
| 210058 | 2830 | 6416 | 270 | 270 | 344 | 9 | -63.3 | -69.7 | 13124 | 13806 | | 160.0 | DROP | 81.0 |
| 211334 | 2830 | 6600 | 270 | 271 | 3 | 11 | -64.0 | -70.9 | 13128 | 13811 | | 159.9 | DROP | 79.8 |
| 212952 | 2843 | 6800 | 0 | 1 | 45 | 13 | -63.0 | -71 | 13120 | 13815 | | 160 | DROP | 79.9 |
| 214150 | 3016 | 6800 | 0 | 0 | 58 | 8 | -61.3 | -71.6 | 13120 | 13804 | | 160.1 | DROP | 80.6 |
| 215802 | 3215 | 6800 | 0 | 1 | 701 | 10 | -60 | -70.8 | 13125 | 13824 | | 160 | DROP | 80.7 |
| 221313 | 3408 | 6800 | 0 | 358 | 342 | 6 | -60.3 | -68.3 | 13120 | 13824 | | 160.1 | DROP | 79.1 |
| 222100 | 3504 | 6800 | 0 | 358 | 265 | 3 | -61.2 | -65.8 | 13120 | 13823 | | 160.1 | CLD | BLW 80.6 |
| 222935 | 3600 | 6814 | 270 | 268 | 243 | 8 | -60.8 | -64.4 | 13117 | 13820 | | 160.1 | DROP | 78.8 |
| 224138 | 3600 | 7000 | 270 | 268 | 259 | 13 | -60.8 | -65.4 | 13122 | 13817 | | 160.0 | DROP | 79.8 |
| 225300 | 3600 | 7137 | 269 | 268 | 264 | 6 | -60.5 | -65.4 | 13121 | 13813 | | 160.0 | CLD | BLW 79.7 |
| 225631 | 3547 | 7200 | 180 | 178 | 183 | 7 | -60.7 | -65.9 | 13121 | 13830 | | 160.0 | DROP | 80.4 |
| 231333 | 3345 | 7200 | 180 | 177 | 136 | 8 | -60.6 | -66.5 | 13123 | 13830 | | 160.0 | DROP | 79.7 |
| 233243 | 3130 | 7200 | 180 | 175 | 128 | 15 | -64.1 | -72.4 | 13700 | 14413 | | 145.1 | DROP | 73.4 |
| 234730 | 2945 | 7200 | 180 | 180 | 209 | 11 | -67 | -75.2 | | | | 14 | DROP | |
| 234833 | 2938 | 7200 | 180 | 179 | 206 | 10 | -67.4 | -75.4 | 13699 | 14407 | | 145.2 | DROP | 72.3 |
| 000314 | 2800 | 7215 | 271 | 270 | 40 | 3 | -66.5 | -73.9 | 13700 | 14394 | | 145.0 | DROP | 72.0 |
| 001700 | 2800 | 7411 | 270 | 266 | 128 | 13 | -66.9 | -73.9 | 13699 | 14391 | | 145.1 | | 72.7 |
| 002343 | 2813 | 7500 | 0 | 2 | 119 | 15 | -66.9 | -74.3 | 13703 | 14395 | | 145.0 | DROP | 73.0 |
| 003751 | 3000 | 7500 | 0 | 0 | 153 | 8 | -66.4 | -74.5 | 13699 | 14403 | | 145 | DROP | 72.9 |
| 004800 | 3115 | 7500 | 0 | 359 | 40 | 7 | -66.3 | -74.5 | 13696 | 14397 | | 145.1 | | 72.1 |
| 005511 | 3200 | 7515 | 270 | 268 | 116 | 8 | -64.6 | -74 | 13701 | 14413 | | 145 | (27) DROP | 73.1 |
| 010745 | 3154 | 7705 | 225 | 220 | 127 | 14 | -65.1 | -72.4 | 13698 | 14401 | | 145 | DROP | 71.8 |
| 011824 | 3054 | 7800 | 185 | 180 | 155 | 17 | -66.5 | -74.3 | 13697 | 14409 | | 145.1 | DROP | 72.4 |
| 012700 | 2956 | 7800 | 180 | 176 | 154 | 23 | -65.7 | -74.9 | 13697 | 14388 | | 145.1 | | 71.4 |
| 013524 | 2900 | 7800 | 180 | 175 | 141 | 25 | -66.3 | -75.6 | 13693 | 14389 | | 145.2 | DROP | 71.8 |
| 015110 | 2714 | 7800 | 180 | 172 | 120 | 29 | -65.8 | -75.8 | 13693 | 14371 | | 145.1 | DROP | 71.8 |



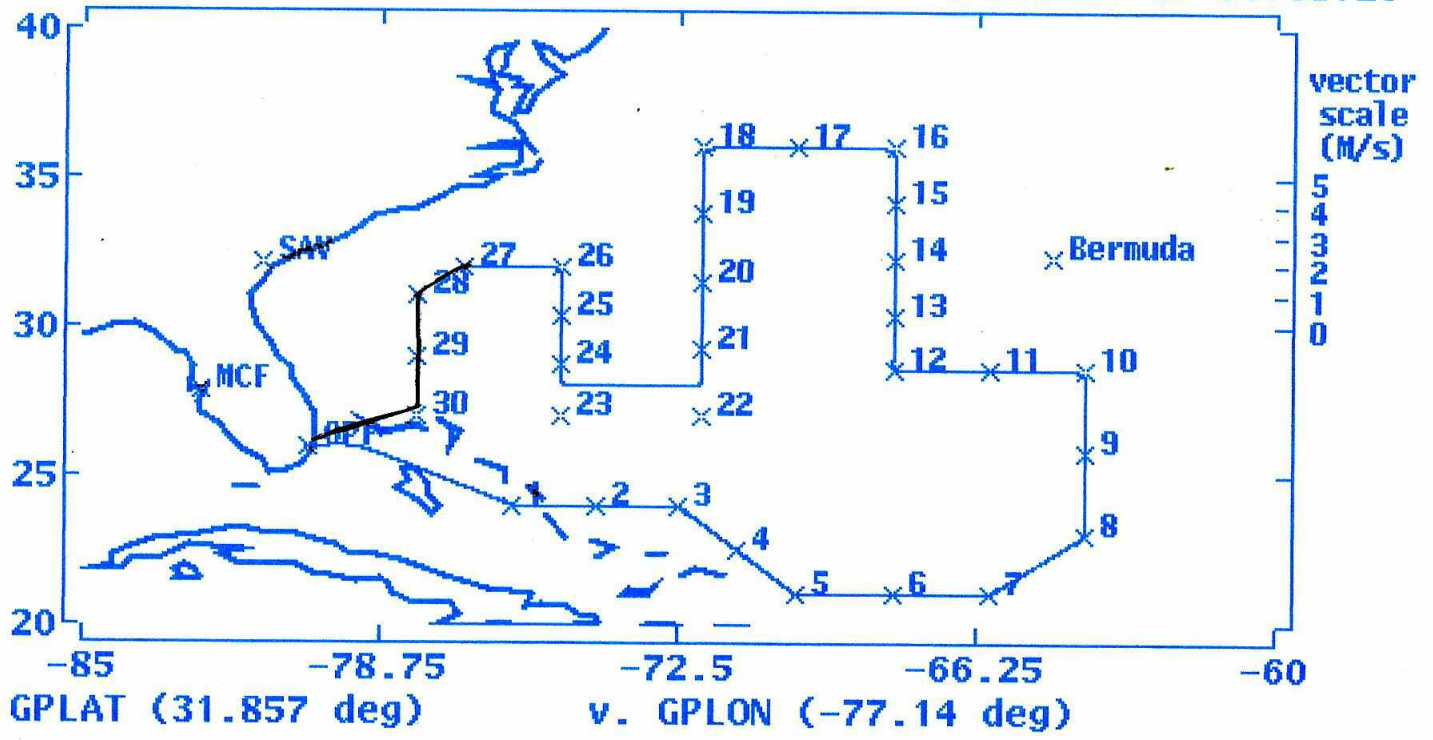
'JCPB1' (winds@eiger) Proj. 420 Flt 9 Aug-29-98 02:19:12

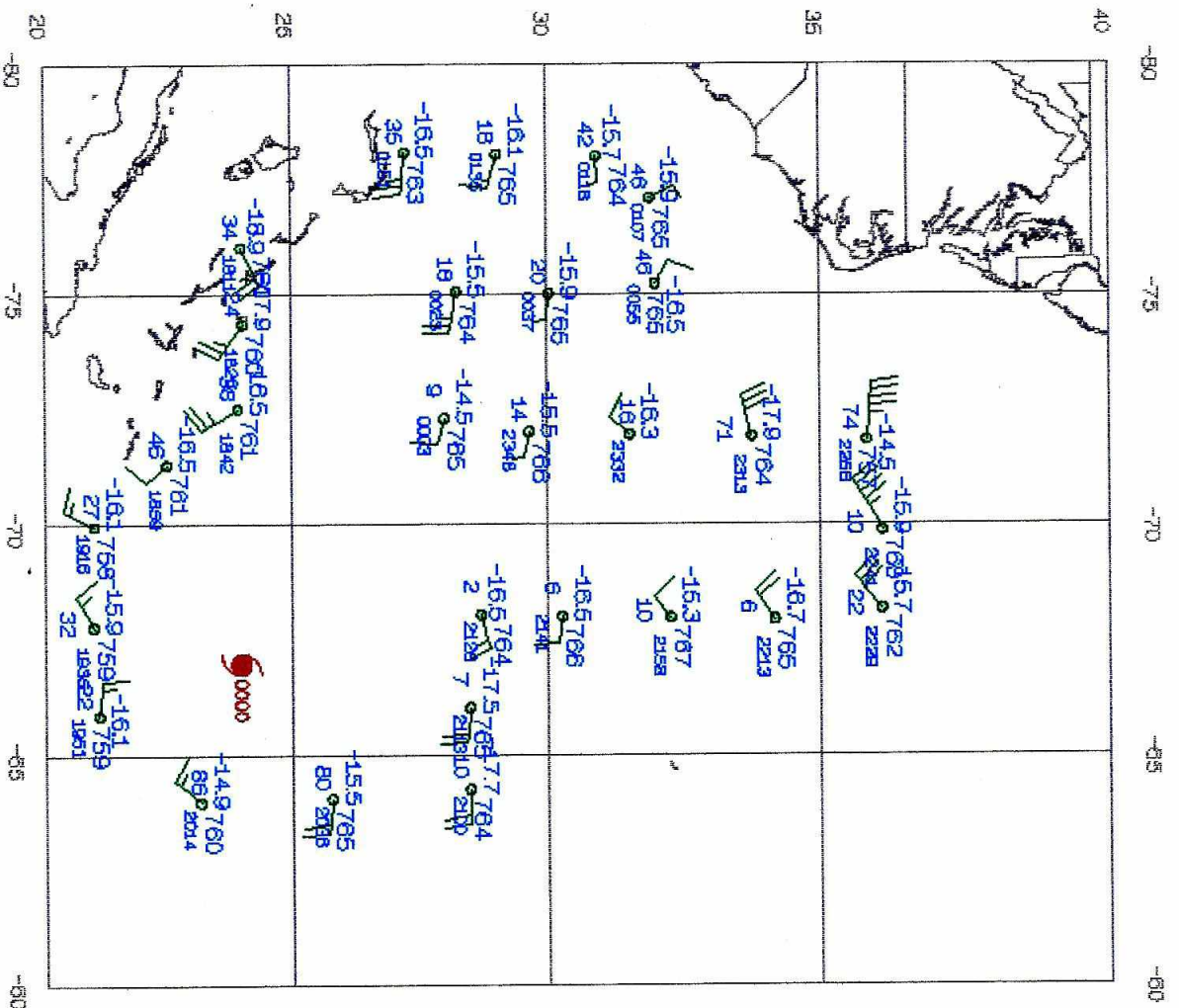
17:20:24 to 02:19:12



'JCPB1' (winds@eider) Proj. 420 Flt 9B Aug-29-98 01:08:20

17:20:24 to 01:08:20





DANIELLE

400 mb

Date: 980828
Time: 18-30 UTC

EARTH RELATIVE

NOAA/ERL/HURRICANE RESEARCH DIVISION

N49RF Hurricane 98 AVAPS DropSonde Log

N49RF Project: Hurricane 98 Flight ID: 980828N

Mission: DANIELLE Flight #: 9 System Status: OK

| Drop # | Sonde Serial Number | Chn # | Time (Z) | Press. offset | Winds time | Operator | Comments / Drop Status | GOOD <input checked="" type="checkbox"/> |
|--------|---------------------|-------|----------|---------------|------------|----------|-------------------------|--|
| 1 | 982 010 111 | 1 | 1811 | -0.1 | 30 | JCPB | Slow Fall | ✓ |
| 2 | 982 430 190 | 4 | 1826 | 0.0 | 42 | JCPB | Slow Fall | ✓ |
| 3 | 974 510 020 | 1 | 1842 | -0.3 | 59 | JCPB | | ✓ |
| 4 | 974 740 060 | 2 | 1859 | -0.7 | 90 | JCPB | | ✓ |
| 5 | 973 840 037 | 3 | 1912 | -0.2 | 36 | JCPB | | ✓ |
| 6 | 974 530 895 | 4 | 1933 | -0.7 | 114 | JCPB | Late Winds | ✓ |
| 7 | 973 840 116 | 1 | 1935 | -0.7 | 24 | JCPB | | ✓ |
| 8 | 973 840 043 | 2 | 1951 | -0.2 | 23 | JCPB | | ✓ |
| 9 | 974 150 009 | 3 | 2014 | -0.1 | 42 | JCPB | | ✓ |
| 10 | 974 530 031 | 4 | 2036 | -1.2 | 28 | JCPB | | ✓ |
| 11 | 974 150 011 | 1 | 2101 | -0.3 | 22 | JCPB | | ✓ |
| 12 | 974 530 013 | 2 | 2113 | -0.5 | 34 | RJM | | ✓ |
| 13 | 974 540 052 | 3 | 2129 | ±0.0 | 32 | RJM | | ✓ |
| 14 | 982 010 042 | | | | | RJM | Bad Sonde / not dropped | |
| 15 | 982 010 030 | 4 | 2142 | -0.2 | 40 | RJM | slow fall | ✓ |
| 16 | 982 010 028 | 1 | 2158 | -0.3 | 21 | RJM | slow fall / lost wind | |
| 17 | 981 450 039 | 2 | 2213 | +0.2 | 30 | RJM | | ✓ |
| 18 | 981 950 037 | 3 | 2230 | 0.0 | 23 | RJM | | ✓ |
| 19 | 974 510 060 | 4 | 2241 | -0.6 | 32 | RJM | | ✓ |
| 20 | 974 530 021 | 1 | 2256 | -0.5 | 30 | JCPB | | ✓ |
| 21 | 974 510 024 | 2 | 2313 | -0.4 | 60 | JCPB | | ✓ |
| 22 | 974 150 038 | 3 | 2332 | -1.1 | 24 | JCPB | | ✓ |
| 23 | 973 720 056 | 4 | 2347 | -0.5 | | JCPB | LOST SIGNAL AFTER 20s | |
| 24 | 973 720 054 | 1 | 2348 | -0.3 | 50 | JCPB | | ✓ |
| 25 | 974 150 014 | 2 | 0003 | 0.0 | 46 | JCPB | | ✓ |
| 26 | 974 150 034 | 3 | 0023 | -0.7 | 65 | JCPB | | ✓ |
| 27 | 974 150 015 | 4 | 0038 | +0.1 | 42 | JCPB | | ✓ |
| 28 | 974 510 078 | 1 | 0055 | 0.0 | 27 | JWH | | ✓ |
| 29 | 974 530 053 | 3 | 0107 | 0.0 | 29 | JWH | | ✓ |
| 30 | 974 510 066 | 2 | 0118 | +0.3 | 30 | JWH | | ✓ |
| 31 | 973 720 097 | 1 | 0135 | -0.1 | 19 | JWH | | ✓ |
| 32 | 974 510 114 | 2 | 0151 | 0.0 | 22 | JWH | | ✓ |
| 33 | | | | | | | | |

NOAA/AOC/SED N49RF Flight Performance log – Hurricane 98

N49RF Project: Hurricane 98 Project No 420 Flight No. 9A Flight ID: 980828N
 SED Crew: HILL, PRADAS, DAMIANO, McNAMARA Mission: FERRY OPALOCKA
 Pre-Flight: 1354 Z Take-Off: 1437 Z Landing: 1518 Z

| SYSTEM | | Pre-Flight Check | | In-Flight | Post-Flight | |
|--|---|---|------------------|-----------|--|----------------------|
| N A V | IRS #1 | ✓ | JCPB | | | |
| | IRS #2 | ✓ | ↓ | | | |
| | IRS #3 | ✓ | ↓ | | | |
| | GPS Honeywell #1 | ✓ | ↓ | | | |
| | GPS Honeywell #2 | ✓ | ↓ | | | |
| | GPS Collins | ✓ | JCPB | | Off? <input checked="" type="checkbox"/> | |
| | Nose Radar -Collins | ✓ | JCPB | | Off? <input checked="" type="checkbox"/> | |
| | Time | Temp °C | | Time | Temp °C | |
| T E M P | Temp #1 | 1411 | 34.4 | ✓ JCPB | 1520 | 38.2 |
| | Temp #2 | ↓ | 31.2 | ✓ | ↓ | 36.2 |
| | Temp #3 | ↓ | 33.2 | ✓ | ↓ | 37.1 |
| | Temp #4 | ↓ | 31.05 | ✓ | ↓ | 34.7 |
| | DP Left | ↓ | 22.74 | ✓ | | Cal. Time: — 23.1 |
| | DP Right | ↓ | 22.82 | ✓ | | Cal. Time: — 22.6 |
| | | | | | | |
| P R E S S | Attack Angle (ADCAOA) | ✓ | ↓ | | | |
| | Slip Angle (BP/DBP) | ✓ | ↓ | | | |
| | Differential (PQ1/PQ2) | ✓ | ↓ | | | |
| | Absolute (PS1/PS2) | | 1016.1/1016.2 | | | |
| | Check Radome Press. Lines <input checked="" type="checkbox"/> | | Date: 980827 CFH | | | |
| S Y S T E M | DOWN PRT-5 ⇒ Open? <input type="checkbox"/> | | N/A | | Closed? <input type="checkbox"/> | |
| | MADS (WINDS/DISCWIN) | ✓ | JCPB | | # DATs: 1 | |
| | MADS Printer ⇒ Paper? <input checked="" type="checkbox"/> | ✓ | JCPB | | Printer Power off? <input type="checkbox"/> | |
| | MADS Cal. Date: 8/18/98 | QC time: 1421 Z | | | QC time: 1519 | |
| | WINDS ⇒ NET BCAST <input checked="" type="checkbox"/> | ✓ | JCPB | | | |
| | HAPS System / Time set? <input checked="" type="checkbox"/> | JH | | | # Msg.: — # Fail: — | |
| | AVAPS System / Time set? <input checked="" type="checkbox"/> | JAS | | | | |
| AVAPS Printer ⇒ Paper? <input checked="" type="checkbox"/> | JAS | | | | | |
| E X T E R I O R | Exterior Walk Around <input checked="" type="checkbox"/> | JCPB | | | | |
| | Inspect DropSonde Chute Bolts | JAS | | | | |
| M I S S I O N | Satcom (Flight Phone) <input checked="" type="checkbox"/> | ✓ | JCPB | | Off CB? <input checked="" type="checkbox"/> | |
| | Call COMSAT? <input type="checkbox"/> (*292#) | ✓ | JCPB | | | |
| | FCU/UPS/CB | CB's Checked? <input checked="" type="checkbox"/> | | | UPS off? <input checked="" type="checkbox"/> | |
| | AVAPS Sondes | # On Board: 150 | # Dropped: | | # Good: — | |
| | AXBT | # On Board: | # Dropped: | | # Good: — | |
| | APN-232 | ✓ | JCPB | | | |
| | Modem Power On? <input type="checkbox"/> | ✓ | JCPB | | | |

| | | | | |
|---|-------------|----------|-----------|-----------|
| 1 | DAT Tape #1 | On: 1420 | Type: V60 | Off: 1522 |
| 2 | DAT Tape #2 | On: | Type: TDK | Off: |

Comments:

NOAA/AOC/SED N49RF Flight Performance log – Hurricane 98

N49RF Project: Hurricane 98 Project No 420 Flight No. 9B Flight ID: 980828N

SED Crew: HILL, PRADAS, DAMIANO, MENAMARA Mission: DANIELLE

Pre-Flight: 1650 Z Take-Off: 1727 Z Landing: 0221 Z

| SYSTEM | | Pre-Flight Check | | In-Flight | Post-Flight | |
|----------------------------|---|------------------|---|---------------|--|--|
| N A V | IRS #1 | | ✓ | | | |
| | IRS #2 | | ✓ | | | |
| | IRS #3 | | ✓ | | | |
| | GPS Honeywell #1 | | ✓ | | | |
| | GPS Honeywell #2 | | ✓ | | | |
| | GPS Collins | | ✓ | | | Off? <input checked="" type="checkbox"/> |
| | Nose Radar -Collins | | ✓ | | | Off? <input checked="" type="checkbox"/> |
| | Time | Temp °C | | | Time | Temp °C |
| T E M P | Temp #1 | 1658 | 36.1 | RJM | | |
| | Temp #2 | | 36.1 | ↓ | | |
| | Temp #3 | | 36.2 | ↓ | | |
| | Temp #4 | | 39.4 | ↓ | | |
| | DP Left | | 22.8 | ↓ | Cal. Time: | |
| | DP Right | | 22.3 | ↓ | Cal. Time: | |
| P R E S S | Attack Angle (ADCAOA) | | ✓ 4 | | | |
| | Slip Angle (BP/DBP) | | ✓ | | | |
| | Differential (PQ1/PQ2) | | ✓ | | | |
| | Absolute (PS1/PS2) | | 1016.5 / 1016.7 | | | |
| | Check Radome Press. Lines <input checked="" type="checkbox"/> | | Date: 980827 CFH | | | |
| S Y S T E M | DOWN PRT-5 ⇒ Open? <input type="checkbox"/> | | NOP. | | Closed? <input type="checkbox"/> | |
| | MADS (WINDS/DISCWIN) | | ✓ | | # DATs: 2 | |
| | MADS Printer ⇒ Paper? <input checked="" type="checkbox"/> | | | | Printer Power off? <input checked="" type="checkbox"/> | |
| | MADS Cal. Date: 8/18/98 | | QC time: 1421Z | | QC time: 0224 | |
| | WINDS ⇒ NET BCAST <input checked="" type="checkbox"/> | | | | | |
| | HAPS System / Time set? <input checked="" type="checkbox"/> | | | | # Msg.: 29 # Fail: 31 | |
| | AVAPS System / Time set? <input checked="" type="checkbox"/> | | | | | |
| | AVAPS Printer ⇒ Paper? <input checked="" type="checkbox"/> | | | | | |
| | Exterior Walk Around <input checked="" type="checkbox"/> | | ✓ JCPB | | | |
| | Inspect DropSonde Chute Bolts | | ✓ JCPB | | | |
| M I S C | Satcom (Flight Phone) <input checked="" type="checkbox"/> | | ✓ | | | Off CB? <input type="checkbox"/> |
| | Call COMSAT? <input type="checkbox"/> (*292#) | | ✓ | | | |
| | FCU/UPS/CB | | CB's Checked? <input checked="" type="checkbox"/> | | UPS off? <input checked="" type="checkbox"/> | |
| | AVAPS Sondes | | # On Board: 150 | # Dropped: 31 | # Good: 29 | |
| | AXBT | | # On Board: 0 | # Dropped: | # Good: — | |
| | APN-232 | | ✓ | | | |
| | Modem Power On? <input checked="" type="checkbox"/> | | ✓ JCPB | | | |

| | | | | |
|---|-------------|-----------|--------------|-----------|
| 1 | DAT Tape #1 | On: 1705Z | Type: TDK 60 | Off: 0108 |
| 2 | DAT Tape #2 | On: 0114 | Type: TDK 60 | Off: 0226 |

Comments:
 MANY PPS GPS INTERRUPT

