

19981104I1-FDIR

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TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
H. Mitch Recco
YYMMDDL FLT I.D.
981104I
HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
220901
HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
065700
HHMMSS TAKE OFF TIME
221900
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
1
* -----LOGICAL UNIT OF INPUT DATA (I1) 5, 8 OR 9 FOR TAPE DRIVE
1
* -----LOGICAL UNIT OF OUTPUT TAPE DRIVE (I1) [FOR STANDARD TAPE ONLY]
9
* -----LOGICAL UNIT OF PRINTER (I1)
6
* -----DATE OF PROGRAM (MMDDY)
06094
* -----STATIC PRESSURE PROBE (I1)
* 1 = PSW (WINGTIP)
* 2 = PSF (CO-PILOT/FUSELAGE)
* 3 = FUTURE USE
2
* -----DYNAMIC PRESSURE PROBE (I1)
* 0 = PQW(WINGTIP)
* 1 = PQF1 (FUSELAGE 1281)
* 2 = PQF2 (FUSELAGE 1221)
* 3 =FUTURE US
1
* -----INE SELECTION (I1)
* 1 = INE 1
* 2 = INE 2
1
* -----ACCELEROMETER (I1) - USUALLY THE SAME AS YOUR INE SELECTION
1
* ----- TOTAL TEMPERATURE PROBE (I1) [1 OR 2]
1
* ----- DEWPOINT TEMPERATURE PROBE (I1) [1 OR 2]
1
* -----ALTIMETER OPTION (I1) - FOR VERTICAL WIND COMPUTATION
* 0 = PRESSURE ALTITUDE (OVER LAND)
* 1 = RADAR ALTITUDE APN-159 (OVER WATER)
* 2 = RADAR ALTITUDE APN-232 (OVER WATER)
1
* -----PRINTOUT RATE SECONDS (I2)
10
* -----WINDSPEED/DIRECTION RUNNING AVERAGE TIME, SECONDS (I2)
10 ! FOR STANDARD TAPE OUTPUT ONLY
* -----TIME OPTION (I1)
* 1 = MICRO 29
* 2 = TIME BASED GENERATOR #1
* 3 = TIME BASED GENEATOR #2
1
* -----NAME OF CONSTANTS FILE EX C03863.CON
C03983.CON
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# TROPICAL STORM MITCH (Recco, MacDill - MacDill)

Flight 2 981104I N43RF

| DATA TYPE                    | SENSOR or OPTION |
|------------------------------|------------------|
| INE                          | 1                |
| Accelerometer                | 1                |
| Temperature Probe            | 1                |
| Altitude (for vertical wind) | RA APN-159       |
| Static Pressure              | Fuselage         |
| Dynamic Pressure             | Fuselage         |
| Dewpoint Probe               | 1                |

## Notes:

Aircraft INE #1 positions were renavigated with respect to GPS.

APN-159 radar altimeter spikes before take off and after landing were removed and patched with APN-232 altitudes.

Flew five fixes on TS Mitch, at 2330z, 0120z, 0251z, 0428z, and 0553z.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical wind speeds, respectively, derived from Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

|                          | Takeoff   | Landing   |
|--------------------------|-----------|-----------|
| Aircraft static pressure | 1006.9 mb | 1002.5 mb |
| Corrected tower pressure | 1007.8 mb | N/A mb    |

Flight Director: Jack Parrish, (813) 828-3310 ext. 3077

|       |               |          |            |
|-------|---------------|----------|------------|
| AC    | McKim         | SYS ENG  | Lynch ✓    |
| CP    | O'Mara        | DATA SYS | McNamara   |
| NAV   | Strong        | RADAR    | Casper ✓   |
| FE    | Moore ✓       | BT/ODW   |            |
| RADIO | Sans. Spec. ✓ | CLD PHYS | Seem, S. ✓ |
| FD    | Parrish ✓     | DOPPLER  |            |

[illegible]

NORAB 00,06Z MTK14 2313A 002 EP 24R85W.

24 55N, 184 58'W 996 23302

624 52N, 84° 33' W 996 0120Z.

24039'N, 83°58'W 99.5 0251Z

250°05'N, 83°38'W 994. 0428Z

9 25011W, 83022W 993. 0553Z

981004I T.S. M. J. h Recco

| Time    | LAT     | LONG    | TK  | WD  | WS   | PA   | GA   | TA   | TD   | SP     | PS    | QD |   |             |  |
|---------|---------|---------|-----|-----|------|------|------|------|------|--------|-------|----|---|-------------|--|
| 2209    | 27 51   | 82 29.6 |     |     |      | 52   |      | 20.5 | 19.3 |        | 1007  |    |   | BLK         |  |
| 2221    | 27 43.6 | 82 33.8 | 196 | 42  | 16.5 | 853  | 841  | 16.4 | 15.6 | 1007.9 | 910.9 | 20 | 9 |             |  |
| 2235 45 | 27 10   | 83 25   | 226 | 170 | 23   | 4.59 | 4253 | 1.0  | 6.8  | 1001.9 | 599   |    |   |             |  |
| 2246    | 26 41   | 83 59   | 224 | 159 | 30   | 4330 | 4464 | 1.2  | 2.9  | 998.7  | 550.2 | -  |   |             |  |
| 2330    | 24 55   | 84 58   |     |     |      |      |      | 23   |      | 996    |       | 9  |   |             |  |
| 2349    | 24 09   | 84 05   | 135 | 172 | 24   | 526  | 406  | 25.1 | 23.4 | 996    | 951   | 52 |   | OF CENTER   |  |
| 000830  | 23 37   | 83 24   | 350 | 179 | 39   | 527  | 418  | 25.3 | 21.6 | 997    | 952   |    |   |             |  |
| 0049    | 26 15   | 83 05   | 9   | 60  | 41   | 551  | 471  | 18.4 | 17.6 | 1003   | 948   |    |   |             |  |
| 01202   | 24 52   | 84 33   |     |     |      |      |      |      |      | 996    |       | 9  |   |             |  |
| 0140    | 23 54   | 85 28   |     | 001 | 058  |      |      |      |      |        |       |    |   |             |  |
| 220330  | 23 34   | 84 33   | 89  | 266 | 32   | 538  | 406  | 24.5 | 23.3 | 995    | 949   |    |   | 0251 2459 9 |  |
| 035630  | 23 57   | 84 52   | 39  | 357 | 61   | 533  | 431  | 21.4 | 19.2 | 999    | 952   |    |   | 8358 995    |  |
| 0428    | 25 05   | 83 38   |     |     |      |      |      |      |      | 994    |       | 9  |   |             |  |
| 045715  | 26 05   | 82 47   | 279 | 68  | 89   | 575  | 457  | 19.6 | 18.7 | 999    | 948   |    |   |             |  |
| 052215  | 26 27   | 84 31   | 285 | 40  | 39   | 539  | 476  | 20.1 | 16.6 | 1003   | 950   |    |   |             |  |
| 054045  | 25 46   | 83 56   | 137 | 24  | 52   | 536  | 434  | 19.3 | 19.7 | 999    | 950   |    |   |             |  |
| 0553    | 25 11   | 83 22   | 247 | 117 | 24   | 152  | 1527 | 16.3 | 8.4  | 793    |       | 9  |   |             |  |
| 062915  | 27 06   | 82 56   | 23  | 75  | 30   | 1581 | 1554 | 14.2 | 14.2 | 1002.7 | 837   |    |   |             |  |

[illegible]

| TERMINAL ERRORS |       |       |
|-----------------|-------|-------|
|                 | INS 1 | INS 2 |
| DELTA LAT       | +6.1  | +7.0  |
| DELTA LON       | -1.7  | -4.3  |
| RGS             | 6     | 8     |
| RADIAL ERROR    | 6     | 9     |