

19940819H1-FDIR

HURR. "CHRIS"

940819H (Ferry to MJSJ)

TYPE OF DATA

SENSOR OR OPTION

|                                                |                    |
|------------------------------------------------|--------------------|
| INE                                            | 1                  |
| Accelerometer                                  | 1                  |
| Temperature probe                              | 1                  |
| Altitude change option<br>(for vertical winds) | RA159              |
| Static pressure                                | Rosemount fuselage |
| Dynamic pressure                               | Rosemount fuselage |
| Time source                                    | Micro 29           |
| Constants file                                 | CO2942.CON         |

Notes:

There were no time/data gaps.

As always, in very moist conditions wetbulbing occurs, as it did on this flight.

The aircraft INE positions were renaviga0ed with respect to 04 GPS positions.

On decent into MJSJ PQW, APF and DAP all frozeup prior to landing...

D.P. balanced at 180400Z - not despiked/patched...

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.

|                          | Takeoff  | Landing  |
|--------------------------|----------|----------|
|                          | -----    | -----    |
| Aircraft static pressure | 1019.6mb | 1012.2mb |
| Corrected tower pressure | 1021.0mb | 1014.9mb |

Flight Meteorologist: Philip D. Bogert (813) 828-3310 ext. 3072

|                  |                      |                        |
|------------------|----------------------|------------------------|
| FLT ID: 940819H  | FM: KMCF             | TO: MJST               |
| FLT NO: 94-56    | BLK IN: 1427Z/1957Z  | ATA: 1423Z/1952Z       |
| ETD: 1330Z       | BLK OUT: 1332Z/1635Z | ATD: 1344Z/1644Z       |
| ETE: 6400        | BLK TIME: 6425 (6.4) | FLT TIME: 6.2          |
| SPONSOR ORG: NRS | PROGRAM: N. CHRIS    | PURPOSE: Ferry S. Tuan |

## OAO PERSONNEL

|                      |                   |
|----------------------|-------------------|
| AC TICKNOR           | SYS ENG Roles     |
| CP TENNESSEN / MORAN | DATA SYS McMillan |
| NAV STRONG           | RADAR Goldstien   |
| FE Wake / Torrey     | BT/ODW            |
| RADIO KERNAGAN       | CLD. PHYS         |
| FD BOBERT            | DOPPLER           |

## PARTICIPATING SCIENTIST/VISITORS/OAO

| LAST, FIRST NAME  | ACTIVITY ON A/C | AFFILIATION |
|-------------------|-----------------|-------------|
| McFadden          | UNK             | BOC         |
| KINNEY            | CROW CHIEF      |             |
| POPOSTANNITA IVAN | C-Scat / SMRF   | NRS         |
| MARKS, FRANK      | PI              | "           |
| BLACK, Pete       | PI              | "           |
|                   | 16 S.O.B.       |             |

| PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP. #)      |                                                                           |                                                                    |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------|
| <p>MCF</p> <p>ALT. 3009/1021.9</p> <p>SP - ↓</p> <p>PS - 1019.8</p>        | <p>OPALOCKA</p> <p>ALT - 3006/1021.0</p> <p>SP - ↓</p> <p>PS - 1019.6</p> | <p>3 MINSE</p> <p>500' ✓</p> <p>5K ✓</p> <p>10K ✓</p> <p>15K ✓</p> |
| <p>MJST</p> <p>ALT - 2998/1014.9</p> <p>SP - 1014.2</p> <p>PS - 1012.2</p> |                                                                           |                                                                    |

## U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO.2 DROWF2 FILE

FLT ID: 940819H TIME OFF: 1344Z/1644Z TIME ON: 1952Z

|          |         |        |          |        |
|----------|---------|--------|----------|--------|
|          | A/C T/O | WX STN | A/C LAND | WX STN |
| PRESSURE |         |        |          |        |

## NO DATA DISPOSITION/DATE/QUALITY

|                     |   |  |
|---------------------|---|--|
| 1/SEC FLT LVL TAPES | 1 |  |
| FAST FLT LVL TAPES  | 0 |  |
| RADAR TAPES         | 0 |  |
| DOPPLER TAPES       | 0 |  |
| ODW CASSETTES       | 0 |  |
| HARD COPIES         | 0 |  |
|                     |   |  |
|                     |   |  |
|                     |   |  |
| AXBT                | 0 |  |
| AXCP                | 0 |  |
| ODW                 | 0 |  |
|                     |   |  |
|                     |   |  |

## PHOTOGRAPHY

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

REMARKS

940819N

| Time                                                    | Lat                | Long | TRK     | WD | WS  | PA  | GA | TA   | Td   | PS    | SP              |
|---------------------------------------------------------|--------------------|------|---------|----|-----|-----|----|------|------|-------|-----------------|
| 1652Z                                                   | 500'               | epd  | 1655Z   |    |     |     |    |      |      |       |                 |
| 170340Z                                                 | 5000'              | epd  | 170640Z |    |     |     |    |      |      |       |                 |
| WS ~ 12KTS TA/Td matches okay... 42 ~ 088/095 43 ~ 110° |                    |      |         |    |     |     |    |      |      |       |                 |
| 171230Z                                                 | 10000'             | epd  | 171545Z |    |     |     |    |      |      |       |                 |
| data ok WS +20000' 43 0950                              |                    |      |         |    |     |     |    |      |      |       |                 |
| 172115Z                                                 | 15000'             | epd  | 172430Z |    |     |     |    |      |      |       |                 |
| Td 42 ~ -20.8 43 = 4.3°!! other data good agreement...  |                    |      |         |    |     |     |    |      |      |       |                 |
| 1729Z                                                   | 24                 | 45   | 77      | 43 | 116 | 095 | 05 | 5602 | 6068 | -7.5  | -23.6 487.5 187 |
| 1812                                                    | OBW DROP ON N 43RF |      |         |    |     |     |    |      |      |       |                 |
| 1848                                                    | 21                 | 18   | 71      | 02 | 118 | 335 | 10 | 7043 | 7483 | -17.4 | -30.3 408.2 186 |

|               |               |
|---------------|---------------|
| PROPOSED T.O. | 1330 2 / 1343 |
| ACTUAL T.O.   | 1330 / 1644   |

OPF  $\rightarrow$   $\boxed{\text{maximal}} = 0.56 \text{ T}$   $0.56 \text{ m}$

OPF  $\rightarrow$   $\boxed{\text{minimal}} = 103^\circ \text{ T}$   $10.7 \text{ m}$

| SYS          | BEGIN<br>ALIGN TIME | NCS<br>CONN | Ω<br>AID | TIME OUT OF<br>COARSE     | ALIGN<br>STS<br>0-5 | (1) TIME<br>INTO NAV. | (2) TIME<br>OUT NAV. | ΔT<br>(2)(1) | TERMINAL ERRORS |      |     |
|--------------|---------------------|-------------|----------|---------------------------|---------------------|-----------------------|----------------------|--------------|-----------------|------|-----|
|              |                     |             |          | ELAPSE ALIGN<br>POST TIME |                     |                       |                      |              | LAT             | LONG | G S |
| INS 1        | 1235                |             |          |                           | 5                   | 1326                  | 2000                 | 6+34         | +1              | +1.2 | 0   |
| INS 2<br>IMU | ✓                   |             |          |                           | 1                   | ✓                     | ✓                    | ✓            | +1.5            | -0.9 | 6   |

OTHER REMARKS:



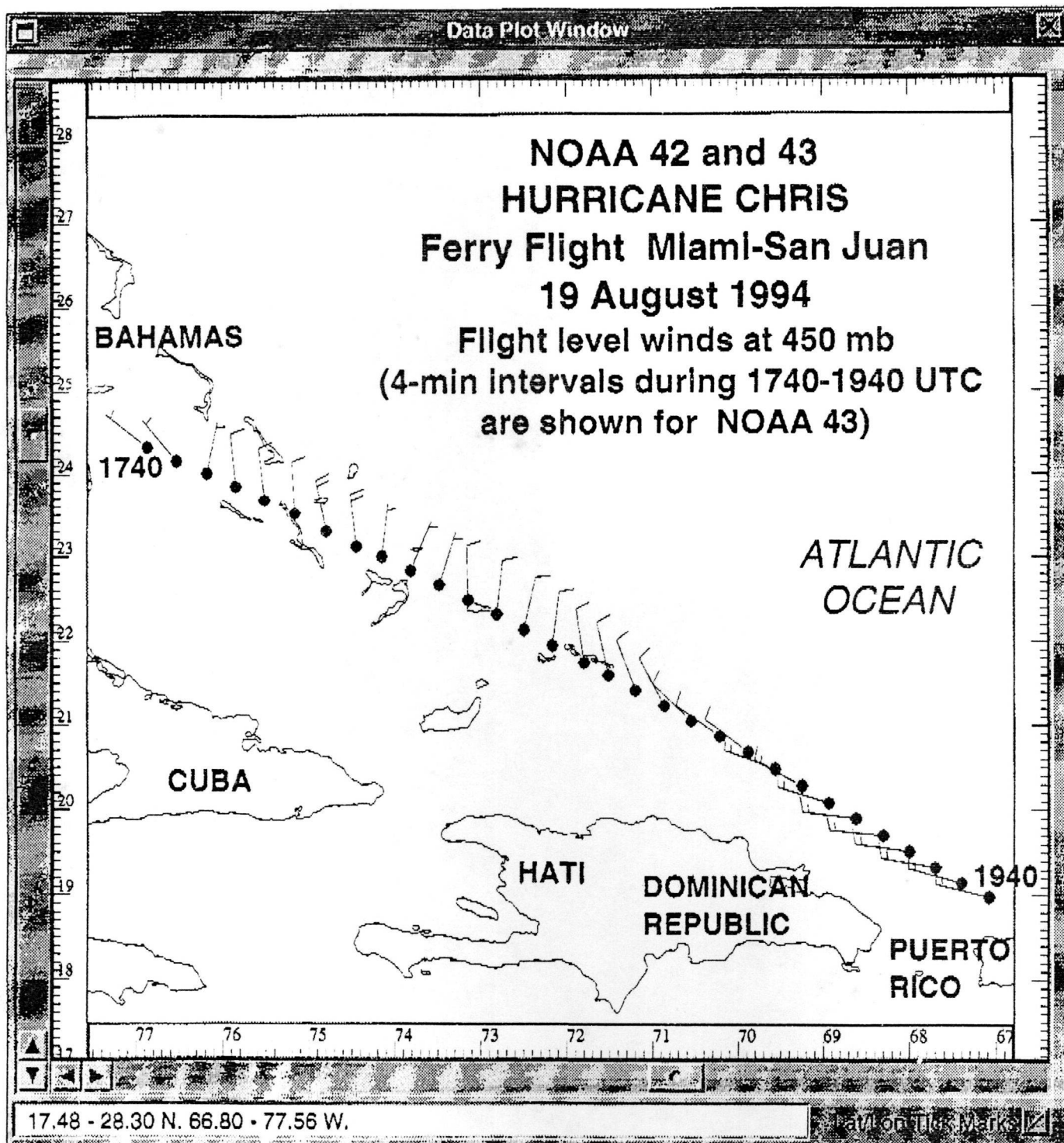
TRANSIT → OPF  
OPF → 5.54

| A/C COMMANDER | NAVIGATOR | A/C NO. | MISSION NO. | TIME AIRBORNE | LOCATION  | DATE      | PROJ. NAME |
|---------------|-----------|---------|-------------|---------------|-----------|-----------|------------|
| TICKNOR       | STRONL    | N42RF   | 94-56       | 1343 / 1644   | KMCF KOPF | 19 AUG 94 | CHOLIS 6   |

| TIME OF ENTRY | POSITION           | TYPE INE USED | INE #1 POSITION    | LAT LON COR'S | INE #2 POSITION    | LAT LON COR'S | ALT GS      | TH TK      | REMARKS       |
|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|-------------|------------|---------------|
| 1335          | 27-50.7<br>82-30.3 | 4<br>1        | 27-50.8<br>82-30.3 | -1.1<br>0     | 27-50.8<br>82-30.3 | -1.1<br>0     |             |            | CHOLIS        |
| 1428          | 25-54.5<br>80-16.2 | 4<br>1        | 25-54.8<br>80-15.3 | -1.3<br>+1.9  | 25-53.7<br>80-16.4 | +1.8<br>-1.2  |             | R65<br>30  | Fm I          |
| 1624          | 25-54.5<br>80-16.2 | 4<br>1        |                    |               |                    |               |             |            | INE's updated |
| 1652          | 25-55.0<br>79-47.9 | 6PS<br>1      | 25-56.1<br>79-48.3 | -1.1<br>-1.4  | 25-54.3<br>79-47.8 | +1.7<br>+1.1  | 500'<br>204 | 093<br>092 | Fm I          |
| 1727          | 24-48.4<br>77-51.5 | 6PS<br>1      | 24-48.8<br>77-50.6 | -1.4<br>+1.9  | 24-46.4<br>77-52.2 | +2.0<br>-1.7  | 265<br>231  | 116<br>117 | Fm I          |
| 1823          | 22-31.0<br>73-11.4 | 6PS<br>1      | 22-32.1<br>73-10.4 | -1.1<br>+1.0  | 22-29.1<br>73-11.8 | +1.9<br>-1.4  | 231<br>331  | 119<br>121 | Fm I          |
| 1934          | 18-59.5<br>67-09.3 | 6PS<br>1      | 18-58.5<br>67-07.9 | +1.0<br>+1.4  | 18-58.9<br>67-09.2 | +1.6<br>+1.1  | 371<br>371  | 114<br>113 | Fm I          |
| 2000          | 18-26.3<br>66-00.6 | 4<br>1        | 18-26.2<br>65-59.1 | +1.1<br>+1.5  | 18-27.5<br>66-01.5 | -1.2<br>-1.9  | R65<br>06   | RE<br>12   |               |
|               |                    |               |                    | ↑             |                    |               |             |            | DD INDCR      |
|               |                    |               |                    |               |                    |               |             |            |               |
|               |                    |               |                    |               |                    |               |             |            |               |
|               |                    |               |                    |               |                    |               |             |            |               |

|                     |           |         |         |          |       |
|---------------------|-----------|---------|---------|----------|-------|
| ATC CLEARANCE:      | OPF RV    | LABELLE | V157    | Nowen    | - OPF |
|                     | R080      | 21.6    | exp 11k | + 10     |       |
|                     |           | 279.6   | 134.25  | SO       | 4747  |
| ENROUTE CLEARANCES: | MAC 127.2 |         |         |          |       |
| 55 AP               | 119.4     | TSSS AF | 72k     | exp 23.0 | + 10  |
|                     | Dep 128.6 | SO      | 4670    |          |       |

TYPE OF FIX: (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR (7) DOPPLER - INERTIAL (8) OMEGA (9) INERTIAL (10) OMEGA - INERTIAL



**HURRICANE RESEARCH DIVISION / NOAA**

