

U.S. Dept. of Commerce / NOAA Aircraft Operations Center

|                   |                     |                        |
|-------------------|---------------------|------------------------|
| Flt ID: 100901I   | From: TBPB          | To: KMCF               |
| Flt No: 10-067    | Blk In: 0330        | ATA: 0321Z             |
| ETD: 1930Z        | Blk Out: 1914       | ATD: 1922Z             |
| ETE: 8+15         | Blk Time: 8+16      | Flt Time: 7+59         |
| Sponsor Org: NOAA | Program: EMC / IFEX | Purpose: HURICANE EARL |

|                        |                 |
|------------------------|-----------------|
| AC: NELSON             | Sys Eng: NAETER |
| CP: KIBBEY / HALVERSON | Data Sys:       |
| Nav: SLOAN             | Radar:          |
| FE: BAST / HEYSTER     | GPS/BT: PEEK    |
| FD: FLAHERTY           | Cld Phys:       |
| Avionics: SANS SANC    | MECH KREGELKA   |

| Name (Last, First) | Activity on Aircraft | Affiliation |
|--------------------|----------------------|-------------|
| ROGERS             | PI                   | HRD         |
| CIONE              | SCI                  | HRD         |
| LEIGHTON           | SCI                  | HRD         |
| MURPHY             | SCI                  | HRD         |
| DUNSKY             | SCI                  | G TECH      |
| SAPP               | SCI                  | G TECH      |
|                    |                      |             |
|                    |                      |             |
|                    |                      |             |

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #)

19Z 120/12 105M 30/26 Q1011 (BPP)

02Z 050/09 105M alt 26/20 2990 (MCF)

2320 EST = H2707 W 07342

TD1 2045Z - RAINING HIGH / SWITCHED TO TD2

DANCE TD1 @ 0223 - NOISE

ON/OFF @ 0243

2. PENNIES

1. 2350 932 mb

2. 0114 931 mb

## U.S. Dept. of Commerce / NOAA / Aircraft Operations Center

AOCW-2

File ID:

Time Off: -- -- -- --

Time On: -- -- -- --

A/C (Take Off)

Wx Station (Take Off)

A/C (Land)

Wx Station (Land)

Pressure

Number

Data Disposition / Date / Quality

Flt Lvl Tapes

Radar Tapes

Cloud Physics Tapes

Video Tapes

AXBT

AXCP

AXCTD

Dropsondes

9

video

Forward

Left Side

Right Side

Down

Remarks

Time On

Time Off

Rate

Remarks



PH SPIKES

2042-2044

2334 - 2338

2344 2346

52 - 54

04 - 06

100901Z

INE ✓

TTI ✓

TDM2X (TDM1 870)

PSF ✓

PAR 1 ✓

ACT NOV ✓

① (244518) 24517-27

SD 3.00  
WEIGHT .28

② 2458<sup>00</sup> - ~~2458~~ 245100

MAN .36

③ 245904 - 250000

MAN .36

④ 17 - 1908 ✓ 1 ←

MAN .04

⑤ 24-2517 ✓ 1 ←

MAN .28

2543<sup>52</sup> ~~MM~~ - 4403

SD 23  
WEIGHT .32

260903 - 0928

SD 18  
WEIGHT .32

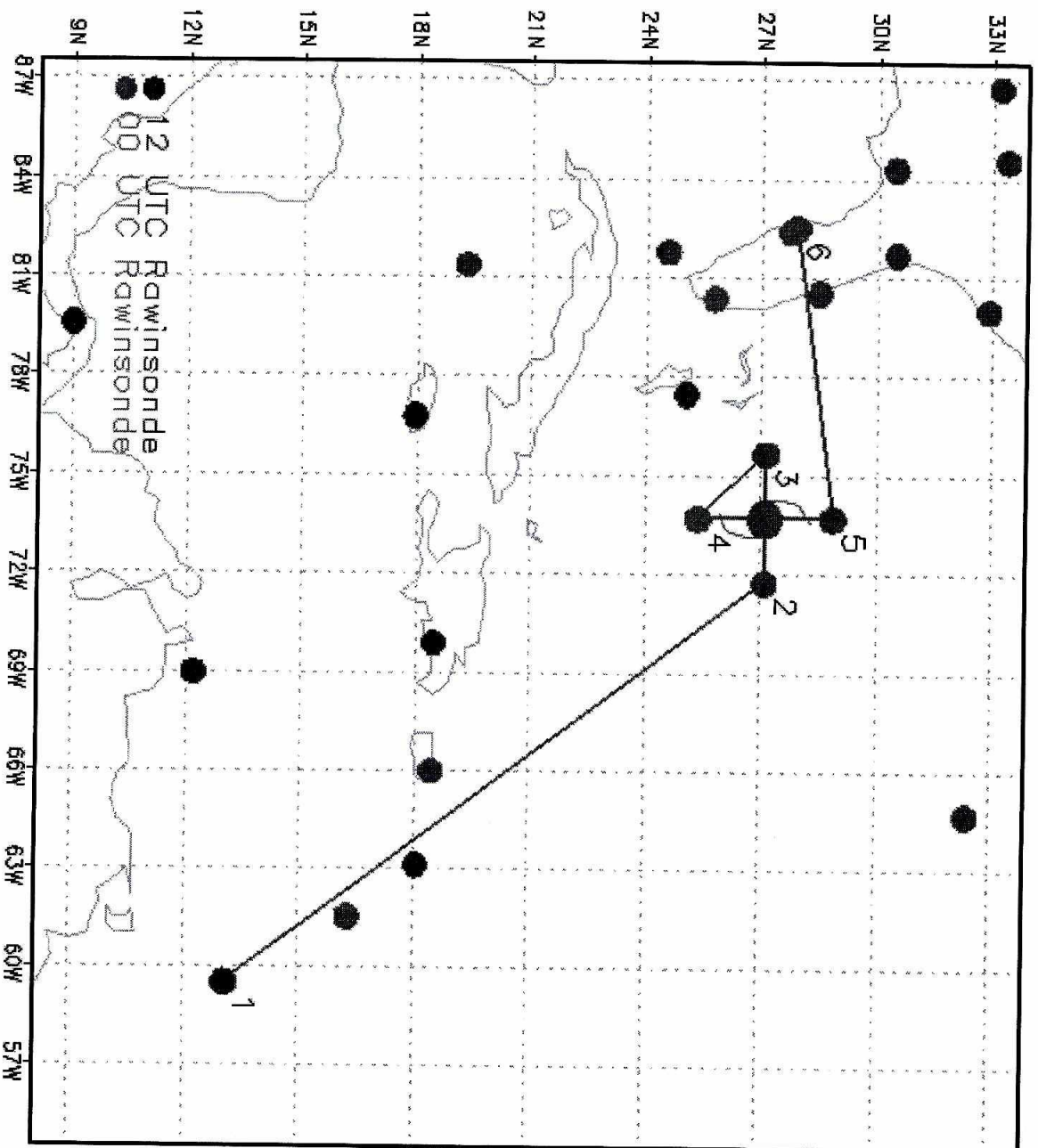
7 TDM2  
FIXES

|                       |                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                 |
|-----------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| DATE<br>02 0114       |                                                                                                   | SCHEDULED RX TIME                                                                                                                                                                                                                                                                                                                                                                                                                                            | AIRCRAFT NUMBER | FLIGHT DIRECTOR |
| WX MISSION IDENTIFIER |                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 | OB NUMBER       |
| VORTEX DATA MESSAGE   |                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                 |
| A                     | 02 0114 Z                                                                                         | DATE and TIME of FIX                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                 |
| B                     | 27 DEG 21 MIN N S                                                                                 | LATITUDE of FIX                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                 |
|                       | 73 DEG 38 MIN W E                                                                                 | LONGITUDE of FIX                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                 |
| C                     | NA MB M                                                                                           | MINIMUM HEIGHT of STANDARD LEVEL                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                 |
| D                     | 81 KT                                                                                             | ESTIMATE of MAXIMUM SURFACE WIND OBSERVED                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                 |
| E                     | 179 DEG 13 NM                                                                                     | BEARING and RANGE FROM CENTER of MAXIMUM SURFACE WIND                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                 |
| F                     | 262 DEG 120 KT                                                                                    | MAXIMUM FLIGHT LEVEL WIND NEAR CENTER                                                                                                                                                                                                                                                                                                                                                                                                                        |                 |                 |
| G                     | 180 DEG 14 NM                                                                                     | BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                 |
| H                     | E931 MB                                                                                           | MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.                                                                                                                                                                                                                                                                                                                                   |                 |                 |
| I                     | 17 C / 2267M                                                                                      | MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                 |
| J                     | 22 C / 2645M                                                                                      | MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                 |
| K                     | 15 C / C                                                                                          | DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE                                                                                                                                                                                                                                                                                                                                                                                                                  |                 |                 |
| L                     | OPENS                                                                                             | EYE CHARACTER: Closed wall, poorly defined, open SW, etc.                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                 |
| M                     | C30                                                                                               | EYE SHAPE/ORIENTATION/DIAMETER: Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of the major axis in tens of degrees, i.e., 01-010 to 190; 17 - 170 to 350. Transmit diameter in nautical miles. Examples: C8= Circular eye 8 miles in diameter; E09/15/5=Elliptical eye, major axis 090-270, length of major axis 15 NM, length of minor axis 5 NM. CO8-14=Concentric eye, diameter inner eye 8 NM, outer eye 14 NM. |                 |                 |
| N                     | 12345/7                                                                                           | FIX DETERMINED BY / FIX LEVEL. FIX DETERMINED BY: 1-Penetration; 2-Radar; 3-Wind; 4-Pressure; 5-Temperature. FIX LEVEL (Indicate surface center if visible; indicate both surface and flight level centers ONLY when same): 0-Surface; 1-1500 ft; 9-925mb; 8-850mb; 7-700mb; 5-500mb; 4-400mb; 3-300mb; 2-200mb; NA-Other                                                                                                                                    |                 |                 |
| O                     | 1 / 1 NM                                                                                          | NAVIGATION FIX ACCURACY / METEOROLOGICAL ACCURACY                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                 |
| P                     | REMARKS <i>outbound</i><br>MAX FL WIND <i>137</i> KT <i>NE</i> <del>0118</del> QUAD <i>0118</i> Z |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                 |



|                                   |                   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                 |  |
|-----------------------------------|-------------------|-------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--|
| DATE                              |                   | SCHEDULED RX TIME |  | AIRCRAFT NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | FLIGHT DIRECTOR |  |
| WX MISSION IDENTIFIER             |                   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | OB NUMBER       |  |
| VORTEX DATA MESSAGE               |                   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                 |  |
| A                                 | 01 / 2250 Z       |                   |  | DATE and TIME of FIX                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                 |  |
| B                                 | 26 DEG 59 MIN N S |                   |  | LATITUDE of FIX                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                 |  |
|                                   | 73 DEG 26 MIN W E |                   |  | LONGITUDE of FIX                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |  |
| C                                 | 104 MB M          |                   |  | MINIMUM HEIGHT of STANDARD LEVEL                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                 |  |
| D                                 | 98 KT             |                   |  | ESTIMATE of MAXIMUM SURFACE WIND OBSERVED                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                 |  |
| E                                 | 88 DEG 16 NM      |                   |  | BEARING and RANGE FROM CENTER of MAXIMUM SURFACE WIND                                                                                                                                                                                                                                                                                                                                                                                                        |  |                 |  |
| F                                 | 100 DEG 130 KT    |                   |  | MAXIMUM FLIGHT LEVEL WIND NEAR CENTER                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                 |  |
| G                                 | 87 DEG 19 NM      |                   |  | BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND                                                                                                                                                                                                                                                                                                                                                                                                   |  |                 |  |
| H                                 | 932 MB            |                   |  | MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.                                                                                                                                                                                                                                                                                                                                   |  |                 |  |
| I                                 | 9 C 1350M         |                   |  | MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE                                                                                                                                                                                                                                                                                                                                                                                                    |  |                 |  |
| J                                 | 16 C 13994M       |                   |  | MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE                                                                                                                                                                                                                                                                                                                                                                                                     |  |                 |  |
| K                                 | 8 C / NA C        |                   |  | DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                 |  |
| L                                 | OPEN S            |                   |  | EYE CHARACTER: Closed wall, poorly defined, open SW, etc.                                                                                                                                                                                                                                                                                                                                                                                                    |  |                 |  |
| M                                 | C30               |                   |  | EYE SHAPE/ORIENTATION/DIAMETER: Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of the major axis in tens of degrees, i.e., 01-010 to 190; 17 - 170 to 350. Transmit diameter in nautical miles. Examples: C8= Circular eye 8 miles in diameter. E09/15/5=Elliptical eye, major axis 090-270, length of major axis 15 NM, length of minor axis 5 NM. CO8-14=Concentric eye, diameter inner eye 8 NM, outer eye 14 NM. |  |                 |  |
| N                                 | 12345/7           |                   |  | FIX DETERMINED BY / FIX LEVEL. FIX DETERMINED BY: 1-Penetration; 2-Radar; 3-Wind; 4-Pressure; 5-Temperature. FIX LEVEL (Indicate surface center if visible; indicate both surface and flight level centers ONLY when same): 0-Surface; 1-1500 ft; 9-925mb; 8-850mb; 7-700mb; 5-500mb; 4-400mb; 3-300mb; 2-200mb; NA-Other                                                                                                                                    |  |                 |  |
| O                                 | 1 / 1 NM          |                   |  | NAVIGATION FIX ACCURACY / METEOROLOGICAL ACCURACY                                                                                                                                                                                                                                                                                                                                                                                                            |  |                 |  |
| P                                 | REMARKS           |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                 |  |
| MAX FL WIND 130 KT NE QUAD 2346 Z |                   |                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                 |  |

130  
2345  
46



27/15Z 40 KTS

27/21Z 40 KTS

28/3Z 45 KTS

28/9Z 50 KTS

28/15Z 50 KTS

28/21Z 50 KTS

off AT 20Z

29/3Z 55 KTS

29/9Z 55 KTS

29/15Z 65 KTS

29/21Z 75 KTS

30/3Z 85 KTS

30/9Z 90 KTS

30/15Z 105 KTS

30/21Z 115 KTS

31/3Z 115 KTS

31/9Z 115 KTS

off AT 20Z  
10 KTS

70 KTS

978 m6

969 m5

9 m5

off AT 20Z



Project : Hurricane '10 Mission: FWRL Flight ID: 100901T  
Take Off: 1921 Landing: \_\_\_\_\_ Flt Dir: FLORNTY

☐[illegible]



2707A 7342W \*

**MISSION LOG**      **PAGE**      **OF**     

The figure contains two identical circular diagrams, one above the other. Each diagram is a circle with degree markings around its circumference. The markings are: 000 (top), 030, 060, 090 (right), 120, 150, 180 (bottom), 210, 240, 270 (left), and 300. The circles are overlaid on a grid. The top diagram has a vertical line passing through its center. The bottom diagram has a horizontal line passing through its center. The labels 'MISSION LOG' and 'PAGE OF' are at the top left of the page.

[illegible]

**EMERGENCY MESSAGE**

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

|           |           |          |          |         |
|-----------|-----------|----------|----------|---------|
| UHF/VOICE | VHF/VOICE | MF/VOICE | HF/CW    | MF/CW   |
| 243.0     | 121.5     | 2182 KHZ | 8364 KHZ | 500 KHZ |

MAYDAY, MAYDAY, MAYDAY

THIS IS NOAA \_\_\_\_\_, NOAA \_\_\_\_\_, NOAA \_\_\_\_\_

- POSITION \_\_\_\_\_ N / S \_\_\_\_\_ E / W AT \_\_\_\_\_ Z

- HEADING \_\_\_\_\_ TRUE/MAG \_\_\_\_\_

- AT \_\_\_\_\_ KTS TRUE/INDICATED \_\_\_\_\_

- FLIGHT LEVEL OR ALTITUDE \_\_\_\_\_

- WE ARE A P-3 AIRCRAFT WITH \_\_\_\_\_ SOULS ON BOARD

- NATURE OF EMERGENCY \_\_\_\_\_

- ASSISTANCE DESIRED \_\_\_\_\_

- PILOT INTENTIONS \_\_\_\_\_

- WE HAVE \_\_\_\_\_ ENDURANCE REMAINING \_\_\_\_\_