



## N42RF ERROR SUMMARY

### H. IKE IN CENTRAL GULF OF MEXICO



**Flight ID: 080911H**

| <u>Sensor or system</u> | <u>Number or Name</u> |
|-------------------------|-----------------------|
| Inertial                | INE1                  |
| Accelerometer           | ACC1                  |
| Temperature Probe       | TT1                   |
| Dew Point Probe         | TDM2X (EdgeTech)      |
| Static Pressure         | PSF                   |
| Dynamic Pressure        | PQF1                  |
| Vert. Wind              | GPS(Blended)          |
| Constants File          | n42_hur08v3.adc       |
| Project Directory       | /acdata/2008/hur08    |

#### Notes:

There were two data gaps: 200211Z – 200219Z and 003951Z – 003957Z. Beginning with the H080829 H. Gustav flight and continuing through the H080912 H. Ike flight, there was observed a 3 to 4 second lag between all INE1 and INE2 outputs. INE1 was selected since it best corresponded with the analog output.

There were no liquid water sensors available for the flight.

The APN-159 (RA159X) was inop for the entire flight. The blended GPS altitude from INE1 (ALTI1) was used.

Measured dewpoint temperature #2 (EdgeTech)...TDM2...exhibited a time period of erroneous data during the flight. For 000229Z – 000524Z the erroneous data was removed by substituting TDM1(Buck) output,

$$\text{TDM2} = \text{TDM1}$$

All other instruments worked optimally during the flight.

Sixteen (16) GPS dropsondes were deployed with all being good. Sixteen (16) tempdrop

messages were sent to NHC.

Ten (10) AXBTs were deployed with nine (9) being good.

|                          | <b>Takeoff</b><br><b>1954Z</b> | <b>Landing</b><br><b>0548Z</b> |
|--------------------------|--------------------------------|--------------------------------|
| Aircraft Static Pressure | 1014.0mb                       | 1016.6mb                       |
| Corrected Tower Pressure | 1014.2mb                       | 1017.0mb                       |
| Flight Director:         | A. Barry Damiano               | (813) 828-3310 ext. 3073       |

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

AOCWF

|                     |                                   |                                        |
|---------------------|-----------------------------------|----------------------------------------|
| Flt ID: 080911H     | From: KMCF                        | To: KMCF                               |
| Flt No: 08-064      | Blk In: 0555Z                     | ATA: 0548Z                             |
| ETD: 2000Z          | Blk Out: 1943Z                    | ATD: 1954Z                             |
| ETE:                | Blk Time: 10:12 (10.2)            | Flt Time: 9:54 (9.9)                   |
| Sponsor Org: NESDIS | Program: OCEAN WINDS<br>HURRICANE | Purpose: HIKRE IN<br>CENT. GULF OF MEX |

## AOC Personnel

|                      |                        |
|----------------------|------------------------|
| AC: NELSON           | Sys Eng:               |
| CP: GIRMONT / NEWMAN | Data Sys: ROLES        |
| Nav: SIEGEL          | Radar:                 |
| FE: BAST             | GPS/BT: BOSKO / GREENE |
| FD: DAMDANO          | Cid Phys:              |
| Avionics: OLNEY      |                        |

## Participating Scientists / Visitors / AOC

| Name (Last, First) | Activity on Aircraft | Affiliation          |
|--------------------|----------------------|----------------------|
| CHANG, P.          | PT                   | NESDIS               |
| CHU, T.            | C-SCAT               | UMASS                |
| CRISON, M          | OBS                  | NESDIS / DIR of Reg. |
| MARKS, F           | RADAR                | HRD                  |
| BLACK, B           | HAPS                 | ↓                    |
| GOPALAKRISHNAN, S  | OBS                  |                      |
| WERNER, J          | OBS                  | OMAO, CFO            |
| McFADDEN           | ??                   | AOL                  |

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

~~00022 SAT PASS~~  
 0338Z ASCAT PASS  
 2605'  
 8949' 952  
 2313Z EXT  
 LF INOP  
 TA failed 1/3 mile flt  
 2558' 950mt  
 8932 2148Z  
 2610' 0020Z  
 8958' 952EXT  
 0115' EXT  
 2612' 953  
 9013'  
 2610' 0138Z  
 9018' 953EXT  
 Loxton failed 010330Z  
 25047' EXT 954  
 8843' 1721Z  
 0204Z IP 255'  
 2612' 87°34'  
 9098' 953EXT  
 NOAA 2 2909A IKE  
 TEAL 70  
 2330Z  
 OVER →

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

AOCWF2

Flt ID: 080911H Time Off: 1954Z Time On: 0548Z

|          | A/C (Take Off) | Wx Station (Take Off)   | A/C (Land) | Wx Station (Land)      |
|----------|----------------|-------------------------|------------|------------------------|
| Pressure | 1014.0         | <del>29.95</del> 1014.2 | 1016.6     | 30.04 1017.5<br>1017.0 |

|                     | Number | Data Disposition / Date / Quality              |
|---------------------|--------|------------------------------------------------|
| Flt Lvl Tapes       | 2      |                                                |
| Radar Tapes         |        |                                                |
| Cloud Physics Tapes |        |                                                |
| Video Tapes         |        |                                                |
| AXBT                | 10     | 9 good; 1 bad                                  |
| AXCP                |        |                                                |
| AXCTD               |        |                                                |
| Dropsondes          | 16     | all good; <del>attache</del> 16 messenger sent |

## Video

|          | Forward | Left Side | Right Side | Down | Remarks |
|----------|---------|-----------|------------|------|---------|
| Time On  |         |           |            |      |         |
| Time Off |         |           |            |      |         |
| Rate     |         |           |            |      |         |

Remarks 1944Z

~~1844Z~~  
~~1744Z~~  
~~2544Z~~  
~~2444Z~~31  
25  
29.95

26171 0356Z  
26181 0255Z  
26181 0255Z  
26181 0255Z  
26181 0255Z

26161 0229Z  
26161 0229Z  
26161 0229Z  
26161 0229Z  
26161 0229Z

0335Z

IWE1

ACC1

TT1

DW2

PSF

PQF1

GPS Blendell

080911H

Data Gaps

200211-200219

003951-003957

~~pdst fix~~

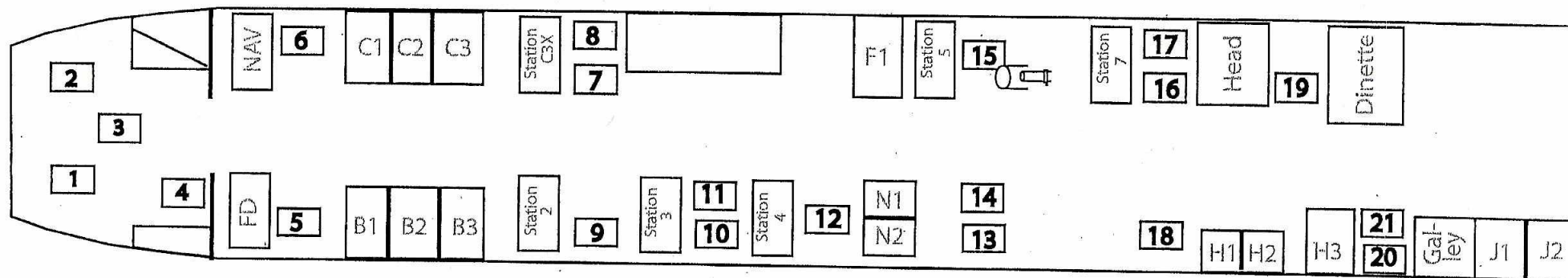
~~22002256~~

DW2=DW1

000229-000524

# NOAA AIRCRAFT OPERATIONS CENTER

Flight ID 080911H



1. GIRIMONTE  
PILOT

2. NELSON  
COPILOT

3. BAST  
FLIGHT ENGINEER

4. CHANG  
STATION 1

5. DAMIANO  
FLIGHT DIRECTOR

6. STEGEL  
NAVIGATOR  
OFF DUTY PILOT

7. WERNER  
STATION C3X

8. WERNER  
STATION C3X

9. GOPALAKISHNAN  
STATION 2

10. BLACK  
STATION 3

11. MARKS  
STATION 3

12. ROLES  
STATION 4

13. GREENE  
PROJECT SEAT

14. GREENE  
PROJECT SEAT

15. BOSKO  
STATION 5

16. CHU  
STATION 7

17. CRISON  
STATION 7

18. OLNEY  
STATION 8

19. McFADDEN  
DINETTE

20. OLNEY  
GALLEY

21. OLNEY  
GALLEY

**NOAA • AOC • SED**  
**N42RF AVAPS DROP LOG**

Project : Hurricane '08

Mission : H IKE

Flight ID : 080911

Take Off : 1558

Landing : 1

Flt Dir : Danvers

Launcher S/N: \_\_\_\_\_

| Drop # | Sonde Serial # | Rcvr # | Press Offset | Launch Time | Winds Time | Operator | Charge SS To | Comments  | Good ? |
|--------|----------------|--------|--------------|-------------|------------|----------|--------------|-----------|--------|
| 1      | 063019005      | 1      | 0            | 2123        | 3          | JS       | EMC          |           | ✓      |
| 2      | 062929034      | 2      | 0            | 2134        | 3          | JS       | EMC          |           | ✓      |
| 3      | 063019098      | 3      | 0            | 2142        | 3          | JS       | NESDIS       |           | ✓      |
| 4      | 063019111      | 4      | 0            | 2150        | 3          | JS       | NESDIS       |           | ✓      |
| 5      | 062929116      | 1      | 0            | 2201        | 5          | JS       | EMC          |           | ✓      |
| 6      | 062919036      | 2      | 0            | 2216        | 5          | JS       | EMC          |           | ✓      |
| 7      | 063019031      | 3      | 0            | 2253        | 6          | JS       | EMC          |           | ✓      |
| 8      | 061329121      | 4      | -7           | 2323        | 5          | JS       | NESDIS       |           | ✓      |
| 9      | 062939032      | 1      | 0            | 2338        | 3          | JS       | EMC          |           | ✓      |
| 10     | 063019092      | 2      | 0            | 2359        | 5          | JS       | NESDIS       |           | ✓      |
| 11     | 062839218      | 1      | 0            | 0027        | 4          | WJS      | EMC          | M         | ✓      |
| 12     | 062939005      | 1      | -4           | 0047        | 4          |          | EMC          |           | ✓      |
| 13     | 063229035      | 2      | -5           | 0155        | 5          |          | NESDIS       |           | ✓      |
| 14     | 062939162      | 1      | 0            | 0315        | 6          |          | EMC          |           | ✓      |
| 15     | 062939159      | 1      | +4           | 0334        | 5          |          | NESDIS       | WEAK TELE | ✓      |
| 16     | 063229030      | 2      | -4           | 0342        | 6          |          | NESDIS       |           | ✓      |
| 17     |                |        |              |             |            |          |              |           |        |
| 18     |                |        |              |             |            |          |              |           |        |
| 19     |                |        |              |             |            |          |              |           |        |
| 20     |                |        |              |             |            |          |              |           |        |
| 21     |                |        |              |             |            |          |              |           |        |
| 22     |                |        |              |             |            |          |              |           |        |
| 23     |                |        |              |             |            |          |              |           |        |
| 24     |                |        |              |             |            |          |              |           |        |
| 25     |                |        |              |             |            |          |              |           |        |
| 26     |                |        |              |             |            |          |              |           |        |
| 27     |                |        |              |             |            |          |              |           |        |
| 28     |                |        |              |             |            |          |              |           |        |
| 29     |                |        |              |             |            |          |              |           |        |
| 30     |                |        |              |             |            |          |              |           |        |

24

37

45

52

00

13

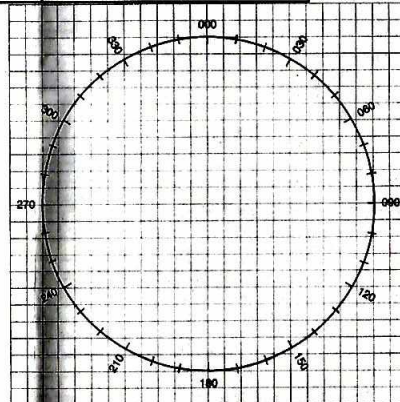
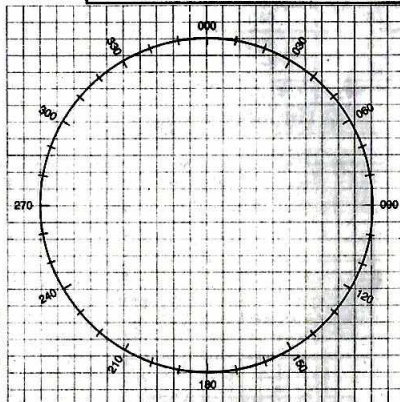
16.50

38 C

00.50

| CLEARANCES |     |     |                            |
|------------|-----|-----|----------------------------|
| FREQ       | ALT | HDG | OTHER                      |
|            |     |     | CAF R 080 <del>1,000</del> |
|            |     |     | 120 + 10 119.9 3745        |
|            |     |     |                            |
|            |     |     |                            |
|            |     |     |                            |
|            |     |     |                            |
|            |     |     |                            |
|            |     |     |                            |
|            |     |     | 135.77                     |
|            |     |     | 130.7 11330 8840           |

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