



N42RF ERROR SUMMARY
H. IKE NEAR EASTERN CUBA/FERRY TO
MACDILL AFB



Flight ID: 080907H

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

Notes:

There was one data gap: 222101Z – 222104Z. 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 couple of time periods of erroneous data during the flight. For 000251Z – 000526Z the erroneous data was removed by substituting TDM3(Maycomm/TDL) output,

$$\text{TDM2} = \text{TDM3}$$

For 002051Z – 002150Z the erroneous TDM2 data was removed by substituting

TDM1(Buck) output,

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

Fuselage dynamic attack pressure (PQAF) had a erroneous data between 175801Z – 180324Z. The erroneous data was removed by substituting fuselage dynamic pressure (PQF1) output,

$$\text{PQAF} = \text{PQF1}$$

All other instruments worked optimally during the flight.

Seventeen (17) GPS dropsondes were deployed with 15 being good. Four (4) tempdrop messages were sent to NHC.

	Takeoff 1801Z	Landing 0127Z
Aircraft Static Pressure	1010.0mb	1014.9mb
Corrected Tower Pressure	1011.5mb	1015.2mb

Flight Director: A. Barry Damiano (813) 828-3310 ext. 3073

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AOCWF-1

Flt ID: 080907H	From: TISX	To: KMCF
Flt No: 68-60	Blk In: 0136Z	ATA: 0127Z
ETD: 1800Z	Blk Out: 1752Z	ATD: 1801Z
ETE:	Blk Time: 7:44 (7.7)	Flt Time: 7:26 (7.4)
Sponsor Org: NESDIS	Program: OCEAN WINDS HURRICANE	Purpose: H. IKE NEAR E. CUBA

AOC Personnel

AC: NELSON	Sys Eng:
CP: GIRMONT / NEWMAN	Data Sys: ROLDS
Nav: GALLAGHER	Radar:
FE: BASF / KLIPPEL	GPS/BT: BOSKO / GREENE
FD: DAMIANO	Cld Phys:
Avionics: OLNEY	DARBY

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG	PI	NESDIS
JELENAK	ASST PI	NESDIS
CHU	C-SCAT	UMASS
STOFFELN	OBS	

EXT 945mb 2320Z

Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #) NOAA2 WAXXA IKE 2103 7506

31 Blended GPS used since 2120Z YEAL 71

24 RAIS9 drop 2104 946

27.92 10 meter diff at 4515 7438 no pen

between G+RA

2105' 7428' 944mb 2028Z

2103' 7439' EXT 943mb 2110Z

2102' 7449' 945 2154Z

2103' 7455' 2227Z 946mb

2255Z 2103' 7458' 942 EXTRAP 946 drop

7190/14

(6)

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Flt ID: 08090714		Time Off: 18012		Time On: 01272	
A/C (Take-Off)		Wx Station (Take-Off)		A/C (Land)	
Pressure		29.92		1014.9	
1010.0		1011.5		30.00 1015.8	
				1015.2	
Number		Data Disposition / Date / Quality			
Flt Lvl Tapes		2			
Radar Tapes					
Cloud Physics Tapes					
Video Tapes					
AXBT					
AXCP					
AXCTD					
Dropsondes		17 15 good; 2 fast fall; 1 good conds bad late winds			
16 NESDIS		4 drops sent			
2 NHC					
Video					
	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					
Remarks					

NOAA • AOC • SED
N42RF AVAPS DROP LOG

Flight ID: 080901h

Fit Dir: BARKY D. Launcher S/N

B. U.

$$NESDIS = DW = PED$$

PROTOTYPES

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Charge \$\$ To	Comments	Good ?
1	075053081	1	0	1930	?	WRO	NCR	PROTOTYPE	?
2									
3									
4									
1	063019056	2	0						
2									
3									
4									

NO
L DETECT
COMMENT IN
FILE

Drop Station Operator Notes

AVAPS Pre-Flight Check:

- Apply power to computer first, then AVAPS fan and AVAPS chassis.
- Verify no ER status lights on the four MWG cards.
- Start AVAPS, then start Soundings and set the Project Name and Flight ID.
- Update the Frequency band allocation as required:
Band A - W53rd, Band B - N42RF, Band C - N43RF, Band D - N49RF, Band E - not allocated
- Perform a prelaunch check on each channel, look for reasonable data and no CRC error status lights. On channel #1 only, select **Begin Data Collection**, then terminate the sonde. On channels 2 through 4, select **Abort** to cancel the sonde initialization. **STOP** the channel #1 sounding, enter no drop in the comments.
- Verify the AVAPS Data mission folder has been created, and it contains files created from the channel #1 sonde.

AVAPS Launch:

- Select a sonde frequency in the Green band and away from other sondes or ASDL (401.8 MHz).
- Enter sonde pressure error offset if 0.4mB or greater
- To avoid interference with active sondes, do not pull the Power Enable Pin during pre-launch setup until after the umbilical is attached
- Select "begin data collection" and verify good data (no winds yet though) prior to putting sonde in launch tube
- Loosen ribbon and extend end of ribbon to near, but not over, the sensor end of the sonde
- Place the sonde in the launch tube, sensor arm up, with the power pin socket facing starboard
- Verify the sonde is actively tracking GPS data prior to launch

123.7 1-

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

JUNIOR WINCO