

N42RF ERROR SUMMARY TS HANNA RECCO MISSION



Flight ID: 080904H

Sensor or system	Number or Name
Inertial	INE1
Accelerometer	ACC1
Temperature Probe	TT1
Dew Point Probe	TDM2X (EdgeTech)
Static Pressure	PSFX
Dynamic Pressure	PQF1
Vert. Wind	RA159X
Constants File	n42_hur08v3.adc
Project Directory	/acdata/2008/hur08

Notes:

There were no data gaps. 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. INE1was selected since it best corresponded with the analog output.

There were no liquid water sensors available for the flight.

The inertial #1 data was erroneous from 064023Z - 064108Z. This will produce erroneous horizontal and vertical wind values.

The APN-159 (RA159X) radar altimeter output had several time periods of erroneous values. The RA159 data glitches were fixed using statistical techniques during the following time periods: 035901Z – 040100Z, 044700Z – 044900Z, 063500Z – 063700Z, 065300Z – 065500Z, 070200Z – 070400Z, 073800Z – 074000Z, 075300Z – 075500Z, 080000Z – 080200Z, 091800Z – 092000Z, 092700Z – 092900Z and 101500Z – 101700Z.

NOTE: The RA159X output was very noisy between 115635Z – 121100Z so vertical wind (WZ) output should be viewed very carefully.

Measured dewpoint temperature #2 (EdgeTech)...TDM2...exhibited several time periods of erroneous data during the flight. For 112310Z – 112511Z, and 122818Z - 123019Z the erroneous data was removed by substituting TDM3(Maycomm/TDL) output,

TDM2 = TDM3

For 120253Z – 120648Z the erroneous TDM2 data was removed by substituting TDM1(Buck) output,

TDM2 = TDM1

All other instruments worked optimally during the flight.

Four (4) GPS dropsondes were deployed with 3 being good. Three (3) tempdrop messages were sent to NHC.

		Takeo 0327Z	ff 2	Landing 1243Z	
Aircraft Static Pressu	ıre	1010.9mb		1010.9mb	
Corrected Tower Pre	essure	1011.0	mb	1011.6mb	
Flight Director:	A. Barry Dan	niano	(813) 828-	3310 ext. 3073	

U.S. Dept. of Commerce / NOAA / Aircraft Operations Center ADCWF1 FIt ID: 08090AH From: KMCF To: KMCF Fit No:08 - 059 Blk In: 2512 ATA: 2432 ETD: £03302 Blk Out: 03157 ATD: 03277 ETE: Blk Time: 9:36 (9,6) Flt Time: 9:/6 9.3 Sponsor Org: Program: NURRICANE NHC Purpose: TS HANNA SE BAHAMAS AOC Personnel AC: Sys Eng: CHOY POLES CP: Data Sys: TRIMONTE BHARDT Nav: Radar: ALLAGHER FE: RAST /WADE GPS/BT: SOSKOY GREENE FD: DAMIANO Cld Phys: Avionics: OLNEY Participating Scientists / Visitors / AOC Name (Last, First) Activity on Aircraft Affiliation PCHANG, NESDIC VELENAK, 77 (C-SCAT) NESDIS CHANTER MAN C-SCAT UMASS STOFFELEN OBS BERSON, 5 HRD RSOLD OBS ANNANE OBS AL082008 Proposed/Actual Mission Remarks (Recco, Fixes, Storm, PENET, NHOP #) 062 IP 2430 7400 Reput Hone Boy 5K 789 4/360 NOMAL 0808A HANNA Reset Happy Boy 789 4 360/12 culled CANCA 11# 03412 uplated 062 23.2N 72.7W 062 064023 TA down U3512 INOP CENTER QUOPS 23.6N 72.4W FOR MISSION NOLF 05/11ht 07342 09032 2450 IP 341' 71029 10332 7345 2002' 73000'

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		US Dept	teof Commerce	/ NOAA / A	Arcraft Operation	ations Ce	nter AOCWF2.
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F	539 DEG 65	КТ	MAXIMUM FLIGH	T LEVEL WIND NEAR CENTE	R		
G	326 DEG 89	NM	BEARING and RAN	GE FROM CENTER OF MAX			
н	990	MB	MINIMUM SEA LE	VEL PRESSURE COMPUTED		PSONDE OR EXTRAP-	
	20 -1619	M	MAXIMUM FLIGHT	LEVEL TEMP / PRESSURE A	TITUDE O		
J.	20 - 1610	1610 M MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EVE					
K 17 C / NA C DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EVE							
L	NA		EYE CHARACTER:	Closed wall, poorly defined		otc	
	·		EYE SHAPE/ORIENT	ATION/DIAMETER: Code eye	e shape as: C	- Circular: CO - Concontric	
Λ	NA		E - Elliptical. Transmit 170 to 350. Transmit di E09/15/5=Elliptical eye 5 NM. CÓ8-14=Concen	orientation of the major axis in te iameter in nautical miles. <i>Examp</i> , major axis 090-270, length of m htric eye, diameter inner eye 8 NN	ens of degree les: C8= Circu ajor axis 15 N A. outer eve 1	ular eye 8 miles in diamete M, length of minor axis	
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F	F	137 DEG 56	КТ	MAXIMUM FLIGHT	LEVEL WIND NEAR CENT	TER			
	G	549 DEG 94	NM	BEARING and RANG	GE FROM CENTER OF MA	XIMUM FLIG	T LEVEL WIND		
ŀ	4	990	MB	MINIMUM SEA LEVI OLATED FROM FLIC	INIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAP-				
		19 - 1569	М	MAXIMUM FLIGHT	LEVEL TEMP / PRESSURE	ALTITUDE OU	TIN REMARKS.		
		21 -1610	М	MAXIMUM FLIGHT I	LEVEL TEMP / PRESSURE	ALTITUDE INS	SIDE EYE		
K		16 C/NA	С	DEWPOINT TEMP /	SEA SURFACE TEMP INS	IDE EYE			
		WA		EYE CHARACTER: C	losed wall, poorly define	ed, open SW, e	etc.		
M	Image: Antiperiodic and the second construction of the major axis in tens of degrees, i.e., 01-010 to 190; 17 - 170 to 350. Transmit diameter in nautical miles. <i>Examples</i> : 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 one diameter on diameter.								
N	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								
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.M	1	NA		170 to 350. Transmit dian E09/15/5=Elliptical eye, m 5 NM. CO8-14=Concentri	neter in nautical miles. <i>Examp</i> ajor axis 090-270, length of n c eye, diameter inner eye 8 N	tens of degree ples: C8= Circu najor axis 15 N M. outer eve 1	es, i.e., 01-010 to 190; 17 - ular eye 8 miles in diameter. IM, length of minor axis 4 NM
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				1-1500 ft; 9-925mb; 8- NA-Other	and flight level centers C 850mb; 7-700mb; 5-500r	NLY when nb; 4-400m	same): 0-Surface; b;3-300mb;2-200mb;
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NOAA AIRCRAFT OPERATIONS CENTER



NOAA · AOC · SED

Project : Hurricane '08 Mission : DE Gustan Flight ID : DE DE DE Take Off: _____ Landing :_____ Fit Dir: Damiano Launcher S/N: Sonde Serial # Revr Charge Drop Press Launch Winds Operator **Comments** Good # # Offset Time Time SS To ? 5 NAC -,4 . 1. 063019055 0603 V 2 063019054 2 0734 D. LOST PTH @ 910mb 063019057 3 0902 5. ł 0 Wfor L 4 06 3019 00? 0 1032 6 5 082 YELL ---- \mathcal{O} . **r** ~ . ²... and the transmission of the second ÷.,. 24 . _____ a 9 10 1. 4 F. S. S. Andrews Sel ant ant 1.28 1. 17 in ga *** 135. see to be all the 0.3 tr with the second . .? 10. To -2 . ² . 2 1. n in i Ny R her I tog $[r, r_{\rm eff}]_{\rm eff}$. <u>1</u>8-1-1 1.11 . 1957 -. . . . We want the state of the state ŝ an entrance of $[W^{(k)}]$ an daga o statistica april in in pr entra Statisticae Statisticae 194 k.), en 34 A.B.D. en ha dhan a

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