



# N43RF ERROR SUMMARY IWRAP (NESDIS) TS GABRIELLE



**Flight ID: 20130910I1**

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	INE2
Accelerometer	AccZfilterI-GPS.2
Temperature Probe	TTM.1
Dew Point Probe	TDM.2
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Vert. Wind	AltRa.2.c
Project Directory	/acdata/2013/MET/20130910I1

Notes:

There were no data gaps.

The measured EdgeTech (TDM.2) dewpoint temperature displayed erroneous values during the following time frames: 220922Z – 221024Z, 235649Z – 235806Z and 000112Z – 000144Z. The erroneous values were replaced via direct substitution using the Buck (TDM.1) dewpoint temperature values as a reference,

$$\text{TDM.2} = \text{TDM.1}$$

Also during the time period 234025Z – 234035Z the measured EdgeTech (TDM.2) dewpoint temperature displayed erroneous values that were manually removed and replaced with values using statistical techniques with a patch value of 0.40.

During the flight there were instances where dewpoint temperature values exceeded derived ambient temperature values resulting in humidity values above 100%. These situations occurred during heavy precipitation events.

All other instrumentation worked optimally.

**SPECIAL NOTE!!!** The variable names DPJ\_GSZ, DPJ\_ASZ and DPJ\_WSZ in the netCDF file represent vertical ground speeds, vertical air speeds and vertical wind speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

Dropsondes deployed 3; 2 good; 1 bad; 2 messages sent to NHC

AXBTs deployed 2; 2 good; 2 messages sent to NHC

	<b>Takeoff(1857Z)</b>	<b>Landing(0233Z)</b>
Aircraft Static Pressure	1012.5mb	1013.3mb
Corrected Tower Pressure	1011.5mb	1013.2mb

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