



N42RF ERROR SUMMARY TS KAREN MISSION #1



Flight ID: 20131003H1

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	INE1
Accelerometer	AccZfilterI-GPS.1
Temperature Probe	TTM.1
Dew Point Probe	TDM.1X
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Vert. Wind	ALTGPS.3 (NOVATEL)
Project Directory	/acdata/2013/MET/20131003H1

Notes:

There were no data gaps.

During the time periods 194704Z – 213813Z and 223545Z – 002552Z, the measured Buck (TDM.1) dewpoint temperature displayed erroneous values that were removed and replaced with TDM.2 (EdgeTech) output by direct substitution.

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

Also during the time frame 013400Z - 014200Z the measured Buck (TDM.1) dewpoint temperature displayed erroneous values that were manually removed and replaced with TDM.2 (EdgeTEch) dewpoint values using statistical techniques with a patch value of 0.20.

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 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: 20; 20 good; 20 Tempdrop messages sent
 AXBTs deployed: 9; 7 good; 7 WMO messages sent

Takeoff(1805Z) Landing(0145Z)

Aircraft Static Pressure 1018.0mb 1016.7mb

Corrected Tower Pressure 1017.0mb 1016.8mb

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