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**N43RF ERROR SUMMARY**

**HURRICANE INGRID KMCF - KCRP**

**Flight ID: 20130915I1**

Sensor or system Number or Name

INE (for wind derivation) INE1

Accelerometer AccZfilterI-GPS.1

Temperature Probe TTM.1

Dew Point Probe TDM.2X (Edgetech)

Altitude (for vertical wind) AltGPS.3 (NOVATEL)

Static Pressure PSM.2

Dynamic Pressure PQM.2

Constants File n43\_xml

Project Directory /acdata/2013/MET/20130915I1

Notes:

There was a one second data gap in the NOVATEL GPS altitude data at 22:34:24z during the outbound leg through the north quadrant of the storm after the 2nd center fix.

Dewpoint sensor #2 (TDM.2 Edgetech) performed very well for the majority of the time in the storm environment and was selected for post processing. TDM.1 (the Buck) was adequate but noisier. Prior to reaching the IP, during the descent from cruise altitude down to 8000 feet, both dew pointers ran away (too warm beginning at 20:42:49z). TDM.2 recovered normal function at 20:51:42z (level at 8K just prior to the IP). Statistical means were used to patch TDM.2 during this interval. The TDL (TDM.3) dewpoint sensor was erratic and generally unusable.

Total temperature sensor #2 (TTM.2) was noisy and displayed an oscillation of as much as 1.5 deg C when compared to TTM.1 therefore TTM.1 was selected for post-flight processing.

All other instruments worked optimally during the flight.

Novatel (AltGPS.3) altimeter output was selected for post-flight processing.

 **Takeoff (1802Z) Landing (0257Z)**

Aircraft Static Pressure 1016.2 mb 1010.5 mb

Corrected Tower Pressure 1016.2 mb 1012.1 mb

26 dropsondes and 10 AXBT deployed. All expendables except one sonde were good and transmitted. The endpoint drop at 2250z was a fast fall but the backup at 2252z was good.

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