1



**N43RF ERROR SUMMARY**

**ARCTIC FLUX #6 PAEI - PAEI**

**Flight ID: 20131102H1**

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

Project Directory /acdata/2013/MET/20131102H1

Notes:

After takeoff, during initial climb out from Eielson AFB, there were gaps in the NOVATEL (AltGPS.3) altitude data but none occurred once the aircraft had leveled off enroute to the overwater portion of the mission.

Dewpoint sensor #2 (TDM.2 Edgetech) performed very well during nearly all the low altitude portion of the mission. During the high altitude transit portions to and from Eielson AFB, along with the science mission at 22K dropping sondes over the Chukchi Sea and then also during the spiral descent down to 200 feet and a portion of the first leg at 200 feet, TDM.2 was too warm so values for TDM.1 (the Buck) were substituted from 16:43z to 20:10z and then from 23:26z to 00:58z in post processing. The TDL (TDM.3) dewpoint sensor trended with the others but was too cold for the science portion of the mission.

All other instruments worked optimally during the flight.

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

**Takeoff (1643Z) Landing (0102Z)**

Aircraft Static Pressure 994.5 mb 989.3 mb

Corrected Tower Pressure 994.2 mb 989.7 mb

8 dropsondes and 3AXBT were deployed. All but one sonde (1840z) were good and transmitted.

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