

N42RF ERROR SUMMARY ARCTIC FLUX #8 2013 PAEI 6 November 2013



Flight ID: 20131106H1

Sensor or system Static Pressure Probe Dynamic Pressure Probe Total Temperature Probe Dewpoint Temp. Probe Vertical Accelerometer Altimeter INE Selection Differential Attack Pressure Probe Differential Sideslip Pressure Probe Dynamic Attack Pressure Probe Dynamic Sideslip Pressure Probe Flight Directory Number or Name PSM.2 PQM.2 TTM.1 TDM.1X AccZfilterI-GPS.1 AltI-GPS.1 1 PDALPHA.1 PDBETA.1 PQBETA.1 acdata/MET/2013/20131106H1

Local Met Data: Aircraft Static Pressure Tower Pressure (corrected)

<u>Takeoff</u> (1937Z) 1006.1mb 1016.2mb Landing (0347Z) 1002.5mb 1002.9mb

Notes:

The selected altitude source ALTGPS.3 (Novatel) failed to capture data at numerous points throughout the mission to include extended periods during the scientific portion. Since these gags in the Novatel data were so pervasive, AltI-GPS.1 (RINU #1) was use in place of the Novatel as the altitude source for the entire mission.

Very cold boundary layer temperatures were again seen on this mission, causing the Edgetech dew point sensor (TDM.2), at times, to not perform as well as it had earlier in the project. Therefore the measured Dewpoint Temperature from the Buck sensor (TDM.1) was used in post processing. There were instances where TDM.1 exceeded the Ambient Temperature (TA.d) resulting in relative humidity values well in excess of 100%. TDM.2 was substituted for TDM.1 from 22:36:42Z to 22:39:39Z, 00:53:27Z to 00:58:34Z and from 01:14:47Z to 01:15:25Z. From 23:46:11Z to 23:46:55Z, statistical methods were used to smooth spikes in TDM.1.

All other instruments worked optimally during the flight.

Expendable Type	Number deployed	Number good	Number of messages transmitted
GPS dropwindsonde	8	8	0
AXBT	4	4	4
CTD	0	0	0

Flight Director: Phone #:

Ian Sears (QC'd by Mike Holmes and Richard Henning) (813) 828-3310 ext. 3039