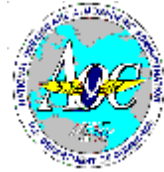




N43RF ERROR SUMMARY OCEAN HEAT CONTENT



Flight ID: 20130820I1

<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.2X
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Vert. Wind	ALTGPS.3 (NOVATEL)
Project Directory	/acdata/2013/MET/20130820I1

Notes:

There were two data gaps: 204806Z – 205422Z and 205432Z – 210719Z. These gaps occurred after the OHC mission was completed. The gaps were generated by shutting down the aircraft data system then restarting the data system to test new software.

During the following time periods, the EdgeTech dewpoint sensor (TDM.2) had erroneous output: 142313Z – 142550Z, 144530 – 144748Z, 152706Z – 152849Z, 154804Z – 154819Z, 174254Z – 174434Z, 194637Z – 194645Z, 195035Z - 195150Z and 204709Z – 204746Z. The erroneous data was removed and replaced with Buck dewpoint sensor (TDM.1) output by direct substitution,

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

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: 15; 15 good; 15 tempdrop messages sent
AXBTs deployed: 34; 30 good; 4 bad
AXCTDs deployed: 15; 13 good
AXCPs deployed: 12; 2 good

	Takeoff(1330Z)	Landing(2117Z)
Aircraft Static Pressure	1017.6mb	1015.4mb
Corrected Tower Pressure	1017.3mb	1014.6mb
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