N43RF ERROR SUMMARY
CALWATER2 Mission #7
9 February   2015

Flight ID: 20150209I1

Sensor or system	Number or Name
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.1
Dewpoint Temp. Probe	TDM.1X
Vertical Accelerometer	AccZfilterI-GPS.1
Altimeter	AltI-GPS.1
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.1
Differential Sideslip Pressure Probe	PDBETA.1
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1
Flight Directory	acdata/MET/2015/20150209I1

Local Met Data:	Takeoff (1748Z)	Landing (2335Z)
Aircraft Static Pressure	1022.7 mb	1021.0 mb
Tower Pressure (corrected)	1021.7 mb	1020.3 mb

Notes:

The Buck dewpoint (TDM.1) sensor was used as the source dewpoint sensor for this mission but did require one edit to correct for an unrealistic spike in the data. Specifically, the Edgetech sensor (TDM.2) was substituted in for TDM.1 between 22:44:54Z and 22:46:00Z. AltGPS.3 (Novatel) was not used as the primary altimeter source because it had gap between 19:23:25Z and 19:23:27Z. AltI-GPS.1 trended will with AltGPS.3 and was used in its place throughout the mission. PQM.1 (Wingtip dynamic pressure sensor) appears to have had water in its line, which froze during the transit to the operations area. During this period PQM.4 data is unusable. PQM.2 (Fuselage dynamic pressure sensor) was used as the reference in all calculations and did not exhibit any of the same problems. All other instruments performed nominally.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.
Supersaturation: It is common when flying through heavy precipitation in tropical environments to observe dewpoint temperatures that exceed the ambient temperature and generate relative humidity values that exceed 100%.

SPECIAL NOTE!!! The variable names dpj_wgs, dpj_was, and dpj_wz in the netCDF file represent vertical ground, vertical air, 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.

Expendable Type	Number deployed	Number good	Number of messages transmitted
GPS dropwindsonde	16	16	16
AXBT	31	29	29
Test Sondes	0	0	0

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