N43RF ERROR SUMMARY
CALWATER2 Mission #2
31 January 2015

Flight ID: 20150131I1

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	AltGPS.3
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/2015/MET/20150131I1

Local Met Data:	Takeoff (1925Z)	Landing (0250Z)
Aircraft Static Pressure	1013.7 mb	1013.6 mb
Tower Pressure (corrected)	1013.1 mb	1013.1 mb

Notes:

The Buck sensor (TDM.1) was used as the source dewpoint sensor, but did require some corrections to mitigate two anomalous spikes during the mission. Specifically, TDM21 (Edgetech dewpoint) was substituted in for TDM.1 between 22:27:18Z - 22:28:25Z and 00:17:05Z – 00:22:20Z. AltGPS.3 was used as the primary altimeter source. Of note, AltGPS.4 did have numerous anomalous negative spikes during the mission, but otherwise matched up well with AltGPS.3 through the remainder of the mission. 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	24	22	22
AXBT	22	22	22
Test Sondes	0	0	0

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