N49RF ERROR SUMMARY
Hurricane Joaquin
1 October 2015

Flight ID: 20151001N2

Sensor or system	Number or Name
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.4
Dewpoint Temp. Probe	TDM.1
Vertical Accelerometer	AccZfilterI.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/20151001N2

Local Met Data:	Takeoff (1737Z)	Landing (0138Z)
Aircraft Static Pressure	1004.2 mb	1002.8 mb
Tower Pressure (corrected)	1005.5 mb	1005.0 mb

Notes:

The Edgetech dewpoint sensor (TDM.1) was the most representative dewpoint sensor throughout and was therefore used as the source. PQBeta.1 (Dynamic Sideslip Pressure) recorded unrealistic values at the beginning of our descent into MacDill AFB AltRA.1 recorded 30 instances of "NAN's" between 17:54:01Z and 01:10:25Z. All other sensors 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.

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.

TDM.1 and TDM.2 are both not rated for use under -50 deg C and cannot be considered reliable for dew points colder than -50C. TDM.1 exceeded the ambient temperature for nearly the entire mission during cruise above 41,000 feet. TDM.2 was used for post processing.

Expendable Type	Number deployed	Number good	Number of messages transmitted
GPS dropwindsonde	36	33	33
Test Sondes	0	0	0

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