

N49RF ERROR SUMMARY TS COLIN KMCF - KMCF 5 June 2016



Flight ID: 20160605N1

Sensor or system		Number or Name
Static Pressure Probe		PSM.1
Dynamic Pressure Probe		PQM.1
Total Temperature Probe		TTM.1
Dewpoint Temp. Probe		TDM.1
Vertical Accelerometer		AccZfilterI.1
Altimeter		AltGPS.3
INE Selection		1
Differential Attack Pressure Probe		PDALPHA.2
Differential Sideslip Pressure Probe		PDBETA.1
Dynamic Attack Pressure Probe		PQALPHA.2
Dynamic Sideslip Pressure Probe		PQBETA.1
Flight Directory		acdata/2016/MET/20160605N1
Local Met Data:	<u>Takeoff -</u> 1934Z	<u>Landing</u> $-0250Z$
Aircraft Static Pressure	1013.0 mb	1011.9mb
Tower Pressure (corrected)	1012.7 mb	1013.7 mb

Notes:

Takeoff / Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

TDM.1 and TDM.2 are not rated for use under -50 deg C, so neither can be considered reliable for dew points colder than -50C. While normally reliable at lower altitudes, both dew point sensors displayed anomalously low values and abnormal oscillations during takeoff climb and descent to landing. Therefore, all flight level humidity data for this mission should be considered suspect.

AltGPS.3 was used as the source for absolute altitude. AltRa.1 displayed an interval of intermittent missing data points (NANs) during climb after takeoff and anomalous down-spiking periodically at mission cruise but was not used for any derived meteorological parameters.

Both static pressure measurements, PSM.1 and PSM.2, displayed an unusually large spread and deviated from normal measurements at FL altitudes. PSM.1 was selected as default as it was closer in relation to Pressure Altitude, but should still be considered suspect.

Expendable Type	Number deployed	Number good	Number of messages transmitted
GPS dropwindsonde	16	16	16