



N49RF ERROR SUMMARY

Test Flight KMCF - KMCF

28 June 2016



Flight ID: 20160628N1

<u>Sensor or system</u>	<u>Number or Name</u>
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
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/20160628N1

<u>Local Met Data:</u>	<u>Takeoff - 1415Z</u>	<u>Landing - 1712Z</u>
Aircraft Static Pressure	1014.9 mb	1013.5 mb
Tower Pressure (corrected)	1017.1 mb	1016.8 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.

The split between PSM.1 and PSM.2 was about 1mb on the ground prior to takeoff and after landing. At cruise altitudes above FL400 the split was approx 2mb, therefore it appears the problems seen in earlier missions with both static pressure systems have been resolved.

Expendable Type	Number deployed	Number good	Number of messages transmitted
GPS dropwindsonde	3	3	3 (1 from 49, 2 from groundtab)

Flight Director:
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