N49RF ERROR SUMMARY
HRD SALEX TS ERIKA MISSION

Flight ID: 20150825N1

Sensor or system	Number or Name
INE (for wind derivation)	INE1
Accelerometer	ACCZI.1X
Temperature Probe	TTM.4X
Dew Point Probe	TDM.1X (EdgeTech)
Altitude (for vertical wind)	GPS.3 (Novatel)
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Attack Angle	AA.1
Slip Angle	SA.1
Project Directory	/acdata/2015/MET/20150825N1

Notes:

For this flight we ran out of trunk.

There were no data gaps.

There were numerous missing values (NAN) for radar altimeter (AltRa.1) and subsequently the corrected radar altimeter (AltRa1.c) output.

Inertial accelerometer #1 (ACCZI.1) had erroneous data during the following time frames: 145243Z – 145258Z and 185804Z – 185812Z. The erroneous values were removed and replaced with inertial accelerometer #2 (ACCZI.2) output via direct substitution

$$ACCZI.1 = ACCZI.2$$

Total temperature #4 (TTM.4) exhibited erroneous output from 182319Z – 182604Z. The erroneous values were removed and replaced with TTM.13 output via direct substitution with an offset

$$TTM.4 = TTM.13 – 0.40$$

Dewpoint sensor #1 (TDM.1) had erroneous data from before takeoff until 134625Z.The erroneous values were removed and replaced with dewpoint sensor #2 (TDM.2) output and an offset,

$$TDM.1 = TDM.2 – 15.0$$

Additionally there were two other time periods where dewpoint sensor #1 (TDM.1) had erroneous data: 151001Z – 192554Z and 202938Z – 204653Z. The erroneous values were removed and replaced with dewpoint sensor #2 (TDM.2) output,

TDM.1 = TDM.2

All other sensors worked optimally.

Twenty-seven (27) dropsondes were deployed; 27 were good; 28 WMO messages were sent to NHC, one of which was a duplicate.

SPECIAL NOTE!!! The variable names DPJ_GSZ, DPJ_ASZ and DPJ_WSZ in the netCDF file represent vertical ground speed, vertical air speed and vertical wind speed, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Takeoff (1345Z) TBPB	**Landing (2043Z) TBPB**
Aircraft Static Pressure	1005.6mb	1003.3mb
Corrected Tower Pressure	1005.8mb	1002.8mb

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