N49RF ERROR SUMMARY
CALWATER2T MISSION #13
ATMOSPHERIC RIVER NORTHWEST
OF HONOLULU

Flight ID: 20150222N1

Sensor or system	Number or Name
INE (for wind derivation)	INE1
Accelerometer	ACCZI.1X
Temperature Probe	TTM.4
Dew Point Probe	TDM.2X (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/20150222N1

Notes:

There were no data gaps.

Accelerometer #1 output (ACCZI.1) and erroneous data during the following time periods: 214535Z – 214543Z, 234638Z – 234724Z, 235245Z – 235330Z and 235521Z – 235623Z. The erroneous values were removed and replaced with ACCZI.2 output via direct substitution,

$$ACCZI.1 = ACCZI.2$$

Dewpoint sensor #2 (EdgeTech) had erroneous output from 194625Z – 212000Z which was removed manually and statistically patched with a value of 0.80. Also during the descent into Honolulu, erroneous Dewpoint sensor #2 output between 034738Z – 060209Z was removed and replaced with Dewpoint sensor #1 (EdgeTech) output with an offset,

$$TDM.2 = TDM.1 + 14.$$

All other sensors worked optimally.

Thirty (30) dropsondes were deployed; 30 were good; 30 WMO Tempdrop messages were transmitted.

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 (2053Z) **PHNL**	**Landing (0356Z)** **PHNL**
Aircraft Static Pressure	1014.6mb	1012.3mb
Corrected Tower Pressure	1015.7mb	1013.7mb

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