



N49RF ERROR SUMMARY CALWATER2R MISSION #11 ATMOSPHERIC RIVER NORTH OF HONOLULU



Flight ID: 20150219N1

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/20150219N1

Notes:

Prior to the flight, the fan for IRS#2 was replaced and IRS#3 was replaced entirely. The Master for the TDR failed at 0225Z and came up at 0430Z but only in aft mode.

There were no data gaps.

Accelerometer #1 output (ACCZI.1) and erroneous data during the following time periods: 041949Z – 042045Z and 042733Z – 042740Z. The erroneous values were removed and replaced with ACCZI.2 output via direct substitution,

$$\text{ACCZI.1} = \text{ACCZI.2}$$

Dewpoint sensor #2 (EdgeTech) had erroneous output from 223621Z – 234500Z which and was removed manually and statistically patched with a value of 0.16. Also Dewpoint sensor #2 had erroneous output from 060950Z – 063328Z, which was not fixable.

All other sensors worked optimally.

Thirty-seven (37) dropsondes were deployed; 37 were good; 37 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 (2328Z) PHNL	Landing (0621Z) PHNL
Aircraft Static Pressure	1010.5mb	1011.5mb
Corrected Tower Pressure	1011.6mb	1012.6mb
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