



# **N49RF ERROR SUMMARY CALWATER2S MISSION #12 ATMOSPHERIC RIVER IN VICINITY OF HONOLULU**



**Flight ID: 20150220N1**

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/20150220N1

Notes:

There were no data gaps.

Accelerometer #1 output (ACCZI.1) and erroneous data during the following time periods: 014252Z – 014256Z and 042150Z – 042155Z. 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 between 052430Z – 052817Z and was removed manually. The data was replaced using statistical techniques with a patch value of 0.60. Also Dewpoint sensor #2 had erroneous output from 053210Z – 054023Z, which was removed and replaced with Dewpoint sensor #1 (EdgeTech) output with an offset,

$$\text{TDM.2} = \text{TDM.1} + 20.$$

All other sensors worked optimally.

Thirty-five (35) dropsondes were deployed; 34 were good; 1 bad; 34 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.

	<b>Takeoff (2244Z) PHNL</b>	<b>Landing (0536Z) PHNL</b>
Aircraft Static Pressure	1013.4mb	1013.4mb
Corrected Tower Pressure	1013.7mb	1014.3mb
Flight Director:	A. Barry Damiano (813) 828-3310 ext. 3073	