

TP01 meaurements at S15,S1

Oct 17. At S15 soil site 12:50 EDT. Water depth about 6". I believe the TP01 at this site is SN:200241.

ID:7 type: TP01 SN:200241 BD:7 I2C:2e TIMERS (sec): SLEEP: 900 HEAT: 180
calibration coefficients:
R = 1.620000E+1 E = 1.415000E-4 L = 6.000000E-2
board calibration:
GAIN:1 (heater) A0 = 1.999278E+0 A1 = 1.278517E+5 A2 = 9.991097E-1 A3 = 3.701623E-7 A4 = -3.788151E-11
GAIN:8 (sensor) A0 = 2.504106E-1 A1 = 1.278132E+5 A2 = 9.991050E-1 A3 = 3.703467E-7 A4 = -3.769054E-11

The following measurements were taken at 12:55, 13,10 and 13:25:

7 1212182 376 0 139 1663 569
7 1212575 376 0 139 1640 569
7 1211994 376 0 139 1635 568

At S1 soil site: 14:52 EDT. Water depth about 1-2 inches. **Note that the coefficients are for SN:200241. I'm not sure what TP01 SN is at this site**

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calibration coefficients:
R = 1.620000E+1 E = 1.415000E-4 L = 6.000000E-2
board calibration:
GAIN:1 (heater) A0 = 1.999278E+0 A1 = 1.278517E+5 A2 = 9.991097E-1 A3 = 3.701623E-7 A4 = -3.788151E-11
GAIN:8 (sensor) A0 = 2.504106E-1 A1 = 1.278132E+5 A2 = 9.991050E-1 A3 = 3.703467E-7 A4 = -3.769054E-11

Power clip fell off at 14:59. Second measurement 15:02, third 15:17

7 1233700 313 0 115 2003 707
7 1233712 313 0 115 2180 707
7 1233478 313 0 115 2157 707

From the above measurements I get the following values:

site	Vheat, V	Vpile.on, uV	Vpile.off, uV	Vpile.37%, uV	Tau63, s	Lambda, W/(m*K)	
s15	1.212	376	0	139	16.5	0.569	
s1	1.233	313	0	115	21.1	0.707	Incorrect coefficients?