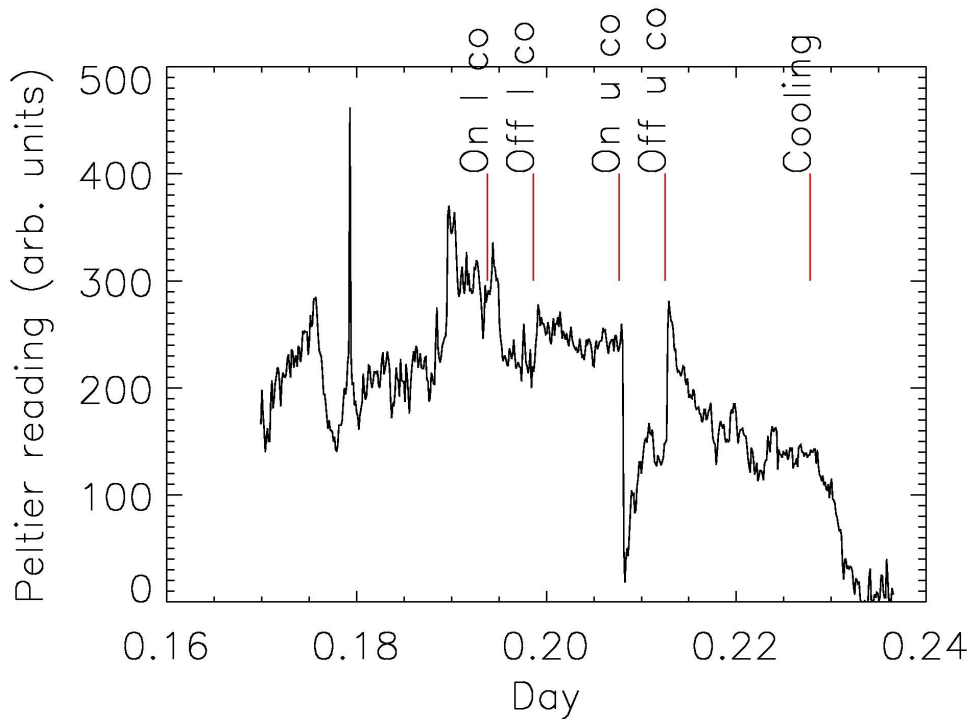


### Test 1.

Test of Peltier element cloud sensor. Peltier element is exposed to sky on one side and ground on other. Set inside a wind-proof, food-wrap enclosure. Signal is fed to an op-amp which amplifies the signal about 300 times. That signal is read by analog read on Arduino board. Value is averaged over ten reads and written to serial port. This is read on laptop using Processing, and date plus value is written to a file. The result is plotted:



X-axis is fractional day since noon. Y axis is the amplified Peltier element signal. Red marks indicate (from left to right) covering up view of the ground, uncovering, covering up view of sky, uncovering, and at the end the start of local sunset when shadows from tall buildings started to cover the garden the experiment was performed in.

Conclusions: It would seem that the setup reacts sensitively to radiative forcing, but there is no sign of reaction to clouds (sky was actually clear all the time, so that's inconclusive!). The reaction to sunset is clear but it is not obvious if it follows what one would expect. Experiment must be continued at night, next!