Dear Dr. Philip Steindel,

Thank you for the detailed and constructive feedback on our Manuscript (JoVE58443R1, “Construction of a low-cost mobile field-robust incubator for field and laboratory use”). Below please find our point-by-point responses to the editor comments, with edits indicated by underlined text. All edits are also visible in “track changes” within the revised manuscript.

Sincerely,

Ariane Schertenleib

**Editorial comments:**

1. 2.2: How exactly is the milling done here? We will need this information to be in the manuscript so that we can properly write the shooting script.

* The text was modified to: “Mill the openings for the PID temperature controller, on/off switch and cable glands into the enclosure with a drill and jigsaw, or an equivalent tool (Figure 4)”

2. Please combine Figures 4a and 4b into one image file, with panels labeled.

* Done. Figures 4a and 4b have been combined into one figure. The figure legend has also been modified to:

“**Figure 4~~a~~: Schematic diagram of the universal enclosure.** (a) Indications to place the temperature controller Ⓐ, on/off switch Ⓑ and the cable glands Ⓒ into the universal enclosure, distances are given in millimeter; (b) 3D view of the universal enclosure.”

**~~“Figure 4b: 3D view of the universal enclosure~~**~~. Openings for temperature controller Ⓐ, on/off switch Ⓑ, cable glands Ⓒ.”~~

3. Figures 11-14: Why are the graphs labeled as A1, A2, etc.? It’s a little confusing as is. Are they intended to be panels (see above)?

* Thank you for pointing out this confusing labeling. Figures 11-14 have been re-labeled a, b, c instead of A1, A2, etc.

References to these figures in the main text and in the figure legends have been modified as well.

4. Table 3: What does ‘/’ mean in the last column? Also, what exactly is ‘successful’ E. coli growth?

* The paragraph at line 309 explains that replicates of water samples plated for *E. coli* were placed in each incubator and in a standard incubator to compare the growth. In Table 3, the column “Test 5” reports if the growth observed, and similar in the incubator and in the standard incubator. Tests were run only at 37 °C, as only *E. coli* were tested. Therefore, the rows in Table 3 corresponding to tests at 44.5°C do not report any results.

Table 3 has been modified as follows for more clarity:

* + The header of the column was changed to “ Test 5: ~~Successful~~ *E. coli* growth observed”
  + The “/” in the last columns were replaced by “ND†” with a footnote in the legend: “**Table 3: Results summary for the incubator configurations and ambient temperature conditions tested.** \*Test 4: Absolute maximal and minimal temperatures recorded during the stable periods, i.e. from 10 minutes after the end of a disruptive event (time to reach set temperature, opening the door). †ND: No data, test not run.”
  + Line 259: the reference to Test 5 has been changed to :” … and ~~successful~~ observation of *E. coli* growth.”