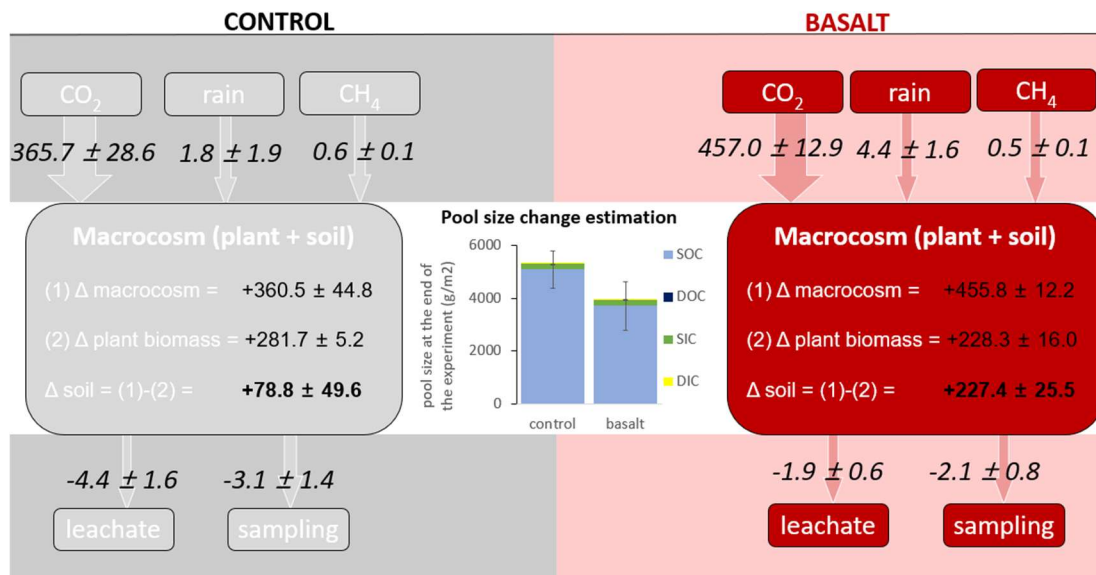


1-The authors have made some good edits and additions to the discussion, Figure 1, and Figure S9 that have addressed my major concerns with this work. I have the following minor revisions, which – if they’re completed to the editor’s satisfaction – will mean the paper is publishable, in my view. Throughout, and in Figure S9: In your response to reviewer 4’s comment 22, you made the following change: “In Table 2 you use SIC and SOC, in other places in the manuscript PIC & SIC, and there is also mixed use of both abbreviations (line 214). Please make the use of these terms consistent throughout the manuscript - - - - Corrected. We refer now to PIC and POC consistently throughout the manuscript.” I don’t agree with your use of POC rather than SOC or TOC, though. The way you measured organic carbon in soils is with a LECO TOC/TN analyser, which as the name suggests gives a value for TOC, not only POC in soil. Yes, the vast majority of SOC may be POC, but given that you do address non-POC SOC in the paper (MAOM for instance), you should be specific about terminology, so where you mean OC calculated as TOC, refer to this as SOC and not POC. We thank the reviewer for the constructive feedback. We replaced POC by SOC throughout the manuscript.

2-Figure 1: I said in my previous review that Figure 1 should be amended to also “include a box to represent the total calculated sizes of the soil C pool at the end of the experiment in the figure to explicitly show the relative size of the difference.” I still think this should be done (so that the relative sizes of the measured soil OC pool, IC pool, plant C pool, and delta_C_soil can be properly visualised). This would highlight what the key takeaway of the study is: SOC change is likely to be the largest short-term C cycle response to EW, but variability is too large to properly measure this effect.

It seems that we misunderstood the reviewer comment in the previous version of the manuscript, and thank the reviewer for his/her patience. We now add a box with the soil pool sizes represented as a stacked histogram within Figure 1:



Section 3.3: Because this section talks about SOC as well as SIC (and not just in the basalt-treated, but also in control mesocosms), change the heading to “Soil carbon”.
 Corrected.