Comment on egusphere-2022-82
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In their paper, Parry et al. investigate the risk of a large-scale Amazon dieback by detecting abrupt shifts (AS) in the plant biomass dynamics simulated by the last generation of Earth System Models (CMIP6). To do so, they developed a simple AS detection algorithm that is briefly presented in the methods section (2.2).

Unfortunately, the code for detecting AS is not made publically available, and the results can hence not be easily reproduced. Due to its relative simplicity, the algorithm can be easily recoded but when I tried to do that myself, it led to small differences that can be explained by (i) misinterpretation of the criteria applied to detect AS, (ii) bugs in my own AS detection algorithm or (iii) a combination of both.

It would be great if the authors could make that code publically available so that the larger community can benefit from it. Alternatively, I would suggest the authors to expand a bit on the exact definition of the AS detection criteria to make them completely unambiguous (e.g. how do you define the variability of the rates of change in the unforced control run? What years do you consider? Etc.). If the code cannot be made available, some illustrative examples could be helpful.