

Response to review

Reviewer 1:

I am happy to see the authors have addressed my concerns and made the text more polished. My only minor question is what does “7.78(number of events per 30 years)/100year” mean? Does it mean 7.78 events per 30 years or 7.78 events per 100 years? Please clarify.

We apologise as this is a little confusing as both frequency and trends are defined in units per year. The frequency increases at a rate of 7.78 per 100years. Frequency is defined as events per 30years for consistency with the rest of the paper.

We have updated the text on line 270 to read “Observations show a increasing trend in frequency (defined as the number of events per 30years) of 7.78/100year for the entire observed period (1896-2019)”

We note that we have also fixed a few minor typos found on rereading the manuscript and added the following line regarding frequency to the captions of Figures 3 and 4 for clarity.

“We note that the trends are calculated over the entirety of the simulation length for each SMILE. This means that due to the different time periods covered, trends are not directly comparable between different SMILEs.”