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Interactive comment

Interactive comment on "Modeling anaerobic soil organic carbon decomposition in Arctic polygon tundra: insights into soil geochemical influences on carbon mineralization" by Jianqiu Zheng et al.

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The manuscript proposes a new model to study organic matter decomposition under anaerobic conditions from arctic soil with a focus on implementing the effects of temperature and pH. The research direction is of a great importance and the authors attempt to formulate such effects on carbon decomposition from arctic is also interesting. However I believe the representation of the manuscript could be significantly improved. My major concern is that the current form of presenting the manuscript is not self-standing and a lot of refers has been done to authors previous publications that makes it difficult to follow and evaluate the content efficiently. Similarly, model description is not com-

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I found it difficult to follow the model results in the form that are represented in Figures

3, 6 and 7, 9. Is there a simpler way of showing the model results that one could extract the trends?

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