

Geosci. Model Dev. Discuss., author comment AC4  
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## Reply on EC1

Shanlin Tong et al.

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Author comment on "Impact of changes in climate and CO<sub>2</sub> on the carbon storage potential of vegetation under limited water availability using SEIB-DGVM version 3.02" by Shanlin Tong et al., Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2021-383-AC4>, 2022

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Dear Dr. Verbeeck,

Thank you for your letter and for the reviewers' comments concerning our manuscript. Those comments are all valuable and very helpful for revising and improving our paper. In this work, we introduced the configuration of SEIB-DGVM and evaluated the performance in the simulation of the vegetation carbon. Based on the simulations of SEIB-DGVM, we investigated the long-term trend of carbon stocks and drivers' contributions. So, we think this manuscript is a potential publication in GMD as a model evaluation paper.

We have studied reviewers' comments carefully, and are trying our best to revise our manuscript according to the comments. We will resubmit the final response and marked-up manuscript version no later than 07 Apr 2022.

We greatly appreciate the efficient, professional and rapid processing of our paper by your team. If there is anything else we should do, please do not hesitate to let us know.

Yours sincerely,

Shanlin Tong

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