

Geosci. Model Dev. Discuss., author comment AC3  
<https://doi.org/10.5194/gmd-2021-383-AC3>, 2022  
© Author(s) 2022. This work is distributed under  
the Creative Commons Attribution 4.0 License.

## Reply on RC2

Shanlin Tong et al.

---

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-AC3>, 2022

---

Dear reviewer,

We extend our deep appreciation to reviewer for the constructive comments and detailed summary toward improving our paper. Yes, this manuscript not only evaluates the SEIB-DGVM, but also reveals the changes of inner components in carbon stock. The framework of our manuscript is similar to other model evaluation paper of GMD (Mues et al. 2018; Seo and Kim 2019). Therefore, we think this manuscript fits the scope of model evaluation paper and is a potential publication in GMD.

We have studied your comments carefully, and are trying our best to revise our manuscript according to the comments and suggestions. We will resubmit the final response and revised manuscript no later than 07 Apr 2022.

References:

Andrea Mues et al. (2018) "WRF and WRF-Chem v3.5.1 simulations of meteorology and black carbon concentrations in the Kathmandu Valley." Geoscientific Model Development 11(6): 2067-2091.

Seo, H. and Kim, Y. (2019) "Interactive impacts of fire and vegetation dynamics on global carbon and water budget using Community Land Model version 4.5" Geoscientific Model Development 12(1): 457-472.

Yours sincerely,

Shanlin Tong

Wuhan University