



EGUsphere, author comment AC2
<https://doi.org/10.5194/egusphere-2022-138-AC2>, 2022
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Reply on CC2

Zhenxia Liu et al.

Author comment on "An improved method of the Globally Resolved Energy Balance Model by the Bayes network" by Zhenxia Liu et al., EGU sphere,
<https://doi.org/10.5194/egusphere-2022-138-AC2>, 2022

Thank you very much for your further advice.

As you said, in section 2 of the manuscript, the method of "How to improve existing climate models using a Bayes network" has been illustrated, and the main approach is to construct a Bayes network by using the interaction between different climate elements in existing climate models. This idea is verified by simulating two elements (surface average temperature and atmospheric average temperature). The main reason for choosing the GREB model in the article is that the model is relatively simple, and the interaction relationship between the internal elements is relatively single, so the constructed Bayes network is also relatively simple. As for the suggestion about the title of the manuscript, I think it is only an attempt for now and there are still some problems to be solved, so I will carefully consider your suggestions and discuss these further in the discussion.