



EGUsphere, community comment CC1
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Comment on egusphere-2022-138

Richard Rosen

Community comment on "An improved method of the Globally Resolved Energy Balance Model by the Bayes network" by Zhenxia Liu et al., EGU sphere,
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It seems to me there is a major problem with this paper starting with equation #1, namely how was this derived. If we look at the equation carefully right away it there is no definition of the "surfact specific heat capacity". The concept of a heat capacity applies only to some well defined amount of mass that can be heated and, therefore, holds a certain amount of heat. This idea does not seem to apply to the surface of the earth. If it does the authors need to explain how, otherwise equation. Is it the heat capacity of the air, water, or land that is being considered. If equation #1 is not grounded in proper physics, then the entire paper appears useless.

Secondly, for starters, Bayesian techniques are typically based on professional guesses. But how could any amount of guessing be more accurate than running models based on climate science?