

Interactive comment on “New interpretation of the role of water balance in an extended Budyko hypothesis in arid regions” by C. Du et al.

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Dear Authors,

Thank authors for your responses. I have a quick comment for Figure A1. Since S_0 and S_1 , and b are from abcd model, Figure A1 is plotting the equation (9) in the manuscript ($W=P+S_0$; $Y=ET+S_1$). For a given parameter value of a , equation (9) follows a Budyko curve. Authors may explain the reason that data points in Figure A1 do not following Budyko-type curve (i.e., equation (9)). E.g., Why is $(ET+S_1)/(P+S_0) > 1$? (Since $Q \geq 0$, $(ET+S_1)/(P+S_0) \leq 1$).

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