

Earth Syst. Dynam. Discuss., referee comment RC2
<https://doi.org/10.5194/esd-2021-41-RC2>, 2021
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Comment on esd-2021-41

Anonymous Referee #2

Referee comment on "ESD Ideas: A weak positive feedback between sea level and the planetary albedo" by Ben Marzeion, Earth Syst. Dynam. Discuss.,
<https://doi.org/10.5194/esd-2021-41-RC2>, 2021

The Ideas paper hints at a feedback between the climate system and sea level rise which has not been discussed yet. I believe that this makes it a perfect example of an ESD Ideas paper. As it is the idea behind the Ideas format the analysis is not comprehensive and is not meant to be comprehensive. The limited analysis that is indeed presented seems to be sound in my assessment. The only thing that the author could add is a brief discussion of the paper by

N. Wunderling, M. Willeit, J.F. Donges, **and R. Winkelmann**
Global warming due to loss of large ice masses and Arctic summer sea ice
Nature Communications (2020), DOI: 10.1038/s41467-020-18934-3.

That seems to mention a related issue (but in a less comprehensive way).