

Review of: A simple model for daily basin-wide thermodynamic sea ice thickness growth retrieval

1 Synopsis

Congratulations again to the authors for another round of good responses. I should apologize for the substantially delayed review on my end. I'm pleased to say I'm very satisfied with the responses and revised manuscript. I think the paper now represents a rigorous and interesting contribution to the literature on sea ice thickness - in particular I think it has a strong element of literature review, and it is pleasantly surprising how well the product does given its relatively low complexity and number of data inputs.

I have a couple of remaining comments. If the editor is satisfied that the authors have suitably responded to these, then I am happy for the manuscript to be accepted without further review.

2 Comments

Fig. 2: The label on the colorbar should be padded away from the tick labels to improve readability. This looks like a python plot - if so, this can be done with the *labelpad* keyword.

Fig 3: This is a good figure, but needs a bit of cleaning up. I don't think the colorbar label needs '[' in it. Furthermore, a line break would help improve readability for the right-hand panel's y-axis label, and the subplots could do with being moved apart a bit (`fig.subplots_adjust(wspace)`). You have lots of horizontal space to do this, so it should be straightforward. You also need (a) & (b) annotations to match the caption. Finally, the text annotations in both panels need proper right-hand-justifying, if you're using python you can do this with the *ha* keyword passed to `ax.annotate()`.

The same points from Fig. 3 also apply to Fig. 6 & 8. Colorbars could also do with a tick-label at 0.

L458: 'instantaneous'

L501: That's a nice point about not being dependent on atmospheric reanalysis, consider putting this in your abstract.