

Jakel et al.: Validation of the sea ice surface albedo scheme of the regional climate model HIRHAM-NAOSIM using aircraft measurements during the ACLOUD/PASCAL campaigns

The authors have done a lot of work and primarily addressed my major concerns from my previous review. Well done! The changes to the figures have made them more understandable too. However, I do have a few minor remaining comments to make assumptions and other conclusions more explicit in the text.

- Cloud focus: The addition of explanation of the cloud impact on broadband albedo is helpful, but there is still some confusion here. I agree, simulating both clouds and radiation in the Arctic is problematic, but I was not suggesting you try to focus those aspects and therefore the addition in section 4 wasn't necessary. What is the "cloudy/overcast" vs. "broken/clear" threshold the sea ice model uses and how is this information conveyed?
- Figure 4: The caption should explicitly state the albedos consider **both** open water and ice. Please change the label "Sea Surface Temperature" to "Surface Skin Temperature." Then in the caption I'd recommend: "(a) Mean skin temperature along flight tracks for selected days ... (b) Mean albedo along flight tracks. The surface below the flight track was primarily sea ice covered by snow, but the measurements also consider locations with open water."
- Figure 8: I think there needs to be text to clarify about the magnitude. I'd suggest adding to the sentence about snow type variation something along the lines of: "Furthermore our results indicate that the snow type variation (e.g. change of roughness, grain size, density) that is evident based on the temperature range in Fig.4a or the temporal evolution in Fig.4b is of the same importance for albedo as the illumination effect."
- 22% melt pond fraction: I think you should add text about how this is based on SHEBA and may not be true in the "New" Arctic. I have definitely seen a lot of imagery with pond fraction > 22%.
- Sample size of 50: your explanation makes sense, but I think you should include it in the text as well.