

Interactive comment on “Reflective properties of white and snow-covered sea ice” by Aleksey Malinka et al.

Anonymous Referee #1

Received and published: 21 July 2016

This paper is aimed at theoretical and experimental studies of reflective properties of white and snow-covered sea ice. I suggest the publication of this paper after minor corrections. The authors may address the following points: 1. I do not think that the mean photon path length (MPPL) coincides with the value of a_{ef} . Please, establish the link. 2. Eq. (11) has been derived assuming that $k=0$. Please, say in this in the paper (and also for other similar equations). 3. Please, derive Eq. (11). 4. Do not you think that the value of $g=0.67$ (p.10) is too small for large scatterers like ice grains?

Interactive comment on The Cryosphere Discuss., doi:10.5194/tc-2016-153, 2016.