The Cryosphere Discussions

The Cryosphere Discuss., referee comment RC1
https://doi.org/10.5194/tc-2022-159-RC1, 2022

Comment on tc-2022-159

Roswitha Stolz (Referee)

Referee comment on "Landsat, MODIS, and VIIRS snow cover mapping algorithm performance as validated by airborne lidar datasets" by Timbo Stillinger et al., The Cryosphere Discuss., https://doi.org/10.5194/tc-2022-159-RC1, 2022

The paper provides a detailed overview of the quality of standard snow products.
While the used analysis methods are not new, the absolutely new approach lies in the fact that it is the only work, I know so far, which comprehensivly evaluated NASA snow cover products with precision lidar data. It gives an excellent overview on the quality of the products. This work is very useful for all who are working in the field of snow remote sensing.

The minor correctionsthat have to be done are only technical ones:
- Line 207: wrong figure giben. It is fig. 2 not fig. 1
- Figures 4 and 5: Labelling of the x-axes; it would be more conveniant, if each oft he graphs would show a labelling of the x-axes plus name of the axe (% of snow cover, % of canopy cover)