

Assessment of ICESat-2 ice surface elevations over the CHINARE route, East Antarctica, based on coordinated multi-sensor observations

Li et al.

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General Reviewer Comments:

Thank you for providing the revised manuscript. I believe it to be much improved from the original submission. However, I do have some comments for minor revisions to this version.

I believe figure 6 and the explanation of the CCR signals should be improved for more clarity to the reader.

- For 6b: The two CCR streaks at multiple elevations are explained by the different in height between #6 and #7. It would be better to plot them as different colors or label which signal returns are attributed to which optical component.
- For 6b: It is still unclear why there is a bump in the middle of the streak and the authors comments about high signal levels at nadir are not the reason unless they intend to imply that higher signal-to-noise levels make for higher elevations. Is it the slant range variation between t-approaching and t-nadir that is the difference? That can be calculated and compared to the apparent elevation increase for #6.
- Can the authors confirm that the higher SNR at t-nadir is truly the reason why returns were rejected from #7 during that central 9 m along track section?
- Why isn't the same signal bump present in figure 6a?