Response to Professor Mohammed Shokr
Mengzhen Qi et al.

Author comment on "A 15-year circum-Antarctic iceberg calving dataset derived from continuous satellite observations" by Mengzhen Qi et al., Earth Syst. Sci. Data Discuss., https://doi.org/10.5194/essd-2020-340-AC1, 2021

On behalf of the manuscript’s authors, I’d like to thank Professor Mohammed Shokr for the encouragement and recognition of our work as well as valuable comments to improve our manuscript.

In the original version of the manuscript, line 25 in the abstract shows that “we developed this product based on 15 years of continuous multsource optical and synthetic aperture radar images”. Here the number 15 means that we used 15-yr of remotely sensed imagery (from 2005 to 2019), it represents the endpoint of the time interval of the data. While the number 14, as the title suggests, represents the period of the calving product. In other words, we used 15 years of continuous satellite observations to derive a 14-yr circum-Antarctic iceberg calving dataset.

Now, we have extended our dataset from 14-yr to a 15-yr circum-Antarctic annual iceberg calving product. Therefore, we revised the manuscript to avoid misunderstandings in the abstract: "In this study, a 15-yr annual iceberg-calving product measuring every independent calving event larger than 1 km$^2$ over all of the Antarctic ice shelves that occurred from August 2005 to August 2020 was developed based on 16 years of continuous satellite observations."

Thank you again for your positive comments.