

## ***Interactive comment on “Iceberg topography and volume classification using TanDEM-X interferometry” by Dyre O. Dammann et al.***

### **Anonymous Referee #2**

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The authors appear to have done an insufficient job in performing background research on the topic. In particular, the authors attempt to perform a comprehensive review of the topic of remote sensing and icebergs. The review comes off as being superficial because the authors have missed some very key articles on the subject. For example, in this statement, “Remote sensing techniques such as LiDAR (Scambos et al., 2005) and optical stereo photogrammetry (Enderlin and Hamilton, 2014) have been used to evaluate both the vertical and horizontal extent of icebergs as tools with larger spatial coverage” the authors have missed numerous other citations on the topic. The authors have failed to point out numerous publications that deal with SAR-based iceberg classification. Furthermore, the authors state “However, InSAR has only briefly been explored to acquire information on iceberg topography (Power et al., 2011; Zakharov et

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al., 2013;Zakharov et al., 2017)” but they fail to point out that Zakharov et al., 2017 deals specifically with the same topic of bistatic measurement of iceberg topography. More egregious is the omission of the following IEEE publication that seems to be exactly in line with the authors’ manuscript.

Zakharov I., Puestow T., Power D. and Howell M. 2019. Icebergs in Sea Ice With TanDEM-X Interferometry, in IEEE Geoscience and Remote Sensing Letters. doi: 10.1109/LGRS.2019.2892896

It is therefore incumbent on the authors to distinguish their manuscript from this already published work. At best, the work is derivative and the manuscript only serves to provide another validation point for this identical technique. Since the manuscript doesn’t deal specifically with original research, I believe that the manuscript is perhaps worthy of a conference publication rather than a journal publication.

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[Interactive comment on The Cryosphere Discuss., https://doi.org/10.5194/tc-2019-59](https://doi.org/10.5194/tc-2019-59), 2019.

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