

## ***Interactive comment on “Analysis of ice shelf flexure and its InSAR representation in the grounding zone of the Southern McMurdo Ice Shelf” by Wolfgang Rack et al.***

**Wolfgang Rack et al.**

wolfgang.rack@canterbury.ac.nz

Received and published: 23 May 2017

We thank reviewer 1 for the very positive and encouraging comments. We followed most of the recommendations.

Abstract: We reworded and restructured the abstract to make the main results clearer.

Page 1, line 23: we added 'basal conditions' to this sentence.

Page 5, line 14: we actually only applied a running mean to the resulting profiles extracted from the 10m product. Although the reviewer makes a valuable point for future analysis, the quality of the flexure profiles cannot much improve in view of our analysis. We therefore left this sentence as is.

C1

Page 5, line 29: following this suggestion we add a half sentence, which reads now as 'In contrast to the vertical motion, which decreases towards the grounding line, the horizontal...';

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Interactive comment on The Cryosphere Discuss., doi:10.5194/tc-2017-13, 2017.

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