

## ***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.**

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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.

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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