

The Cryosphere Discuss., author comment AC1
<https://doi.org/10.5194/tc-2022-11-AC1>, 2022
© Author(s) 2022. This work is distributed under
the Creative Commons Attribution 4.0 License.

Reply on EC1

Giacomo Traversa et al.

Author comment on "Megadunes in Antarctica: migration and characterization from remote and in situ observations" by Giacomo Traversa et al., The Cryosphere Discuss., <https://doi.org/10.5194/tc-2022-11-AC1>, 2022

The authors thank the Reviewers and Editor for their constructive comments and corrections that have significantly increased the scientific quality of the manuscript and its clarity.

Here we present our answers to the reviewer's comments. In particular the manuscript has been significantly modified and presented more concisely (10% reduction in length), with additional analysis and expanding key points in the discussion section. In addition, we provide, according to the reviewers' suggestions, detailed comparisons of the data and their correlation along the examined transects, the classification of the glazed surface using topographic, NIR albedo and temperature brightness parameters and clarify the megadune migration processes and implications.

The revised version and a version with tracked changes are provided, but due the manuscript reshaping the tracked change is very difficult to follow.

We hope that the revised version of the manuscript has improved the quality of the text and of the scientific message.

Changes and answers in response to the Reviewer's comments/suggestions (in italic) are highlighted in bold A.

Please also note the supplement to this comment:

<https://tc.copernicus.org/preprints/tc-2022-11/tc-2022-11-AC1-supplement.pdf>