

Biogeosciences Discuss., author comment AC1  
<https://doi.org/10.5194/bg-2021-149-AC1>, 2021  
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## **Reply on RC1, RC2, and RC3**

Shantelle Smith et al.

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Author comment on "Biogeochemical controls on ammonium accumulation in the surface layer of the Southern Ocean" by Shantelle Smith et al., Biogeosciences Discuss.,  
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We thank the Reviewers for their comments, which will considerably improve our manuscript. All three Reviewers acknowledged the importance of our observations from the understudied wintertime Southern Ocean and are supportive of the dataset and its interpretation being published once we have addressed their concerns. In the attached document we respond to the Reviewers' major comments (many common to all three of them), and then address their more minor concerns.

Please also note the supplement to this comment:

<https://bg.copernicus.org/preprints/bg-2021-149/bg-2021-149-AC1-supplement.pdf>