

Interactive comment on “Does denitrification occur within porous carbonate sand grains?” by Perran L. M. Cook et al.

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We thank the reviewer for their thoughtful comments

Addressing the 3 general comments

1. Regarding anammox, there was very little evidence for this, given that there was virtually no 29N_2 production. This is consistent with previous measurements in sands. This will be addressed in a revised manuscript. 2. The reviewer makes a good point and this is also picked up by the second reviewer. We will broaden the discussion to take this into account and also conduct some additional experiments (see response to reviewer 2). 3. The discussion will be broadened to incorporate the global implications of these findings into the manuscript.

C1

The other minor specific comments will be addressed in the revised manuscript

Interactive comment on Biogeosciences Discuss., doi:10.5194/bg-2016-530, 2016.

C2