

Interactive comment on “Nitrous oxide emissions from the Arabian Sea: A synthesis” by “H. W. Bange et al.”

H. W. Bange et al.

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Reply to Anonymous Referee #3, Atmos. Chem. Phys. Discuss, 1, S8-S9, 2001.

Air-sea gas transfer: We added a new Appendix B with the equations used for the calculation of k_w and give additional information about the applicability. However, we think that a detailed discussion is beyond the scope of the ms.

Table 4: We specified the table as suggested. The applied air-sea approaches are now indicated for a better comparison of the given fluxes.

Main concern: The seeming discrepancy between the values in Fig. 3 and Fig. 4a & b. The solid lines in the Figures 4 a-c represent the data from the annual N₂O field (which is not shown in the ms). The annual N₂O field is the mean of the four seasonal N₂O fields. The N₂O values of the annual field are dominated by the low values during DJF, MAM, and SON resulting in a considerable smoothing of the N₂O values. To avoid any confusion we added a Figure with the annual N₂O field in order to simplify

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the interpretation of the data in Fig 4.

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