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

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Air-sea gas transfer: We added a new Appendix B with the equations used for the calculation of kw 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
the interpretation of the data in Fig 4.