

# ***Interactive comment on “A novel hydrographic gridded data set for the Northern Antarctic Peninsula” by Tiago S. Dotto et al.***

**Anonymous Referee #1**

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This manuscript presents a climatology of the summer conditions in the region of the Northern Antarctic Peninsula, based using cruise data obtained between 2003 and 2019. If the cruise data is undeniably of high value, it is already published and should be freely available. The main novelty here is to propose a gridded product obtained by interpolating optimally all available cruise data, yielding fields of temperature, salinity and dissolved oxygen. Detailed comparisons are then presented between this gridded dataset and standard climatological products available for the same region, showing some minor improvements. The geographical extent of the climatology is however extremely limited, questioning the need for this publication. The authors have chosen to use exclusively cruise data from the Brazilian High Latitude Oceanography Group (GOAL). This restricts highly the value and applicability of this dataset, as the climatol-

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ogy is then mostly limited to the shelf region with very little data along the continental slope surrounding the Northern Antarctic Peninsula. There is yet data available in this region, from Argo, from other cruises or from tagged seals and I assume there should be a lot more available than just what is presented in the NODC comparison in Fig. 9, at least for temperature and salinity. In conclusion, I do not see enough novelty in this publication to warrant publication, as it is not sufficiently exhaustive in the data it incorporates and as it focuses on a region and season that is too limited. I therefore recommend rejection of this manuscript.

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