

## ***Interactive comment on “Sea surface salinity and temperature in the Southern Atlantic Ocean from South African icebreakers, 2010–2017” by Giuseppe Aulicino et al.***

**Giuseppe Aulicino et al.**

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Dear Sir,

we are glad that You appreciated our efforts in providing a valuable and carefully checked SSS product for the Southern Ocean. Following Your excellent suggestions, we improved the manuscript in order to address all highlighted criticisms. We included in the revised version: - Additional information about QC. - Statistics for the whole dataset in order to better assess its quality (in comparison with bottle data and reference datasets). - More information to clarify where SST and SSTH are measured, how they are used for deriving SSS, and where the inlet position sits (5 m below the

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waterline). - More details about the usefulness of this dataset for several scientific purposes (e.g., detecting sharp latitudinal gradients in proximity of ACC fronts, studying the Agulhas current and its rings, etc.)

A point by point response (including complete details) follows in the attached pdf.

Best regards, Dr. Giuseppe Aulicino

Please also note the supplement to this comment:

<https://www.earth-syst-sci-data-discuss.net/essd-2018-40/essd-2018-40-AC1-supplement.pdf>

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Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2018-40>, 2018.

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