

Earth Syst. Sci. Data Discuss., referee comment RC1  
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## Comment on **essd-2020-263**

Anonymous Referee #1

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Referee comment on "An evaluation of long-term physical and hydrochemical measurements at the Sylt Roads Marine Observatory (1973–2019), Wadden Sea, North Sea" by Johannes J. Rick et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-263-RC1>, 2022

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The paper "An evaluation of long-term physical and hydro chemical measurements at the Sylt Roads Marine Observatory (1973-2019), Wadden Sea, North Sea" by Rick et al covers the time series data for STT, salinity and nutrients. This manuscript/datasheet presents great information and long-term trends in of hydrochemical parameters which are of interest to larger biogeochemistry community. I believe this manuscript contributes to our understanding and observation of changes occurring in the physical parameter and influences in the nutrient dynamics. The manuscript is acceptable in the current version however address few points below can make the manuscript better.

- Figure 2a doesn't add any significant information and removing this figure can make the paper compact.
- The overall analysis/discussion of the physical and hydrochemical measurement can help to better quantify the relation among them. Such as PCA or any other statistical analysis would make the manuscript robust.