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Interactive comment

## Interactive comment on "Environmental factors influencing cold-water coral ecosystems in the oxygen minimum zones on the Angolan and Namibian margins" by Ulrike Hanz et al.

Ulrike Hanz et al.

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First of all, we would like to thank the reviewer for the positive and helpful comments. We carefully went through all the comments and suggestions. We have adjusted the manuscript according to the comments made. Below we provide a description of the adjustments made, addressing the reviewers remarks.

Kind regards,

Ulrike Hanz (corresponding author)

Anonymous Referee #1 Received and published: 15 May 2019 The manuscript by

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Reply on specific comments:

L291-293: The South Atlantic Subtropical Surface Water (SASSW) is not described in Section 2.1.1. Oceanographic setting. Could you add a short specification about the origin of this water mass to situate the reader?

the field of deep-sea biology. It is very relevant to obtain this ecological information to more accurately forecast impacts of a changing ocean and constrain habitat suitability models. I do not have major comments on the content of the manuscript. My comments are very specific (needed clarifications) and most relate to technical corrections.

A short description of SASSW was added.

Figure 4: Please specify geographic orientation relative to land (i.e. on the right?). I'm also confused by the statement at L309 that the OMZ was stretching at least 100 km

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offshore. Only 50 km is shown in the figure. Is this accurate or am I misunderstanding the figure?

This is a misunderstanding coming from the Figure. Figure 4 does not show the 50 km closest to the shore, but the shore is about 45 km further to the east (right).

Technical corrections: L35: 'barotropic' Changed.

L104: What does the 7\_ refer to? Geographic coordinates, temperature? Please specify. It refers to the geographical coordinate. We changed it to 7° S.

Figure 1: There is no a, b and c on the figure. The figure was changed accordingly.

L211: No comma after 'Both'. The comma was removed.

L226: water column in 2 words. Changed.

L242: The citation for R should read 'R Core Team, Year'. The citation was updated.

L243: 'shorter term trends' Changed.

L281: "free waves" Changed.

L284: using Changed.

L323: Is the date accurate? Year is 2018? Indeed this is not accurate. It should be

2016. We modified the text.

L470: a temporal Changed.

L517: Did you mean Namibian margin? Yes, we did. The text was changed accordingly.

L524: limits3 Changed.

L577: no comma after both The comma was removed.

L595: that Changed.

Interactive comment on Biogeosciences Discuss., https://doi.org/10.5194/bg-2019-52, 2019.

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