

Interactive comment on “Half-hourly changes in intertidal temperature at nine wave-exposed locations along the Atlantic Canadian coast: a 5.5-year study” by Ricardo A. Scrosati et al.

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Analysis of the review

Dear Editor Giuseppe M.R. Manzella, I am pleased to send the revision of the manuscript entitled “Half-hourly changes in intertidal temperature at nine wave-exposed locations along the Atlantic Canadian coast: a 5.5-year study” by Scrosati, Ellrich, and Freeman. The work is described with clarity and easily understandable. I found the results and conclusions relatively straight-forward and the manuscript as a whole in good shape. As the authors highlight, there is a great lack of this type of information in intertidal rocky areas. This long data set on spatial and temporal patterns

C1

in intertidals can be useful in a climate change scenario to predict community changes and generate advances in coastal oceanography. I therefore recommend publication following a minor revision.

We are grateful for the reviewer’s overall support. The specific comments are addressed below and the applied changes are highlighted in yellow in the revised manuscript.

— Minor revisions: L 47: Add comma after author.

Done.

— L 82: I would like the authors incorporate some information of mean tidal amplitude.

We have added detailed information on this in lines 92-108.

— L 138-139 and L141-143: Detail of summer and winter month and years sampled must be moved to Methods.

We believe that those brief details make sense the most when describing those results, which explains why they are included in section 3, “Main patterns in the data”.

— L 146: Authors could incorporate information of cold and warm nearshore currents in the study area to highlight the results showed.

We have added information about the single current that washes the studied coast in lines 82-84.

— L 185: Delete “for convenience, July, August, and September” L 196: Delete “for convenience, January, February, and March”

We believe that making those statements is important to determine unequivocally what specific months were used for those calculations, so readers can replicate the analyses.

— Figure 2: Increase y-axis title size.

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Done.

We appreciate the constructive comments from this reviewer, which we are stating in the revised Acknowledgements section.

Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-161>, 2020.