

Interactive comment on “Extratropical cyclone statistics during the last millennium and the 21st century” by Christoph C. Raible et al.

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Dear Reviewer

Please find below our reply to your review in the discussion process of our manuscript. Please note that this reply is not the comprehensive point-to-point response which will be due in a later stage of the review process (depending on the editor’s decision). Thus, we concentrate on the major comments and try to show how we will deal with the helpful suggestions and questions raised.

We will include the minor comments raised by the reviewer. In particular, we will enlarge the literature review, make clear that we focus in the discussion on temperature gradients at lower levels. We will also add a discussion on the bi-linear re-gridding of

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ERA interim, and the NAO and will enlarge the discussion of the CC relationship to regional scales. Additionally, we will test the statistics for a fixed cyclone depth threshold. Unfortunately, we cannot use 10-m wind directly as the data has not been stored. Note that 10-m wind is a diagnostic variable which may also suffer some shortcomings. We will include some discussion on potential shortcomings but given the fact that the model has a resolution of 1 degree, important mesoscale phenomenon like the sting jet will be anyway not resolved.

Thank you again for the helpful comments which certainly will improve our manuscript.

Sincerely yours,

Christoph Raible

on behalf of the author team

Interactive comment on Clim. Past Discuss., <https://doi.org/10.5194/cp-2018-58>, 2018.

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