

Interactive comment on “The TropD software package: Standardized methods for calculating Tropical Width Diagnostics” by Ori Adam et al.

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We thank the reviewer for his comments.

1. With regards to the differences between applying the metric functions on zonal-mean fields vs. zonally averaging the metric functions applied per longitude. Indeed, as the reviewer suggests, for some metrics, the metric derived from a zonal-mean field may differ from the zonal average of the metric applied per longitude. However, as stated in Section 2.1, TropD is designed to be applied on zonal-mean fields. This is because the methodologies for zonally varying indices of the tropical width require more research, potentially followed by modifications of the code and methods. We may address this issue and incorporate methodologies for zonally-varying metrics of the tropical width in

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later versions of TropD.

2. A clarification note was added to section 2.2 (latitude of zero crossing). The comment reads: "The metric functions described below automatically order the input interval lat such that the first latitude of zero crossing in each hemisphere corresponds to the most equatorward zero crossing."

3. The caption of Fig. 9 was edited to note the differences between the vertical scales of the STJ:core and STJ:adjusted methods

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