

***Interactive comment on* “Evidence of a fluctuation theorem for the input of mechanical power to the ocean at the air-sea interface from satellite data” by Achim Wirth and Bertrand Chapron**

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Dear Editor,

We called the events "extreme" as they are in the tails of the pdf, that is in the sense of "exceeding the ordinary, usual, or expected". A more precise expression is "improbable". The meaning we favored, does not correspond to the notion of "disastrous" as in "extreme weather events". We now replaced "extreme" in all locations by "improbable".

The editor is right the characteristic time scale of a system is well defined and the relation to the convergence time-scale of the FT not straight forward. We now omitted

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"characteristic" or replaced it by "convergence".

An update version of the paper is attached.

Thank you for your help, Achim

Please also note the supplement to this comment:

<https://npg.copernicus.org/preprints/npg-2020-37/npg-2020-37-AC3-supplement.pdf>

Interactive comment on Nonlin. Processes Geophys. Discuss., <https://doi.org/10.5194/npg-2020-37>, 2020.

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