

***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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I think that the (frequent) usage of "extreme" event(s) by the authors in the manuscript is misleading considering that they are analyzing the probability of rare, practically speaking small negative entropy events.

As well, characteristic time of a system is something that there would generally be consensus on even if there are various measures of it. (A measure of it can be stated/defined and computed. e.g., a decorrelation time scale, an integral time scale, etc.) The authors' use of "characteristic" time is different. It is particular to the analysis being conducted and in a posterior sense may exist or may not exist. Given this, it

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might be better to call it something else unless the authors' want to take the extra steps towards closing the loop through further interpretation and relating it to what something for which there is a possibility of consensus.

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