

Revised WCD paper V3

I find the revised manuscript as a significant improvement. The full SOM appears to better grasp the variability in the system, as is evident by the sharp clustering in Fig. 13. The persistency-transition analysis and the spatial variability of MCSs greatly enhance the scope of the paper, and lead to valuable findings while enabling a deeper understanding of the SOM analysis.

I think the manuscript should be accepted for publication following several minor comments:

Minor comments:

L1: Be consistent with capital letters.

L21: I suggest adding a motivational sentence stating the importance of the topic.

L35: ... the SOM identified...

L145: The sentence is incomplete.

L174: analysis

L175: remove "to choose"

L316: MCSs rarely develop...

L317: address the similar frequencies of clusters 1 and 9.

L383: I would replace "swath" with a more common word.

L439: arrange the spacing.

L469: southward

L471: why "presumably"? Is this not shown in Fig. 9?

L491-492: Why then don't these nodes show maximum MCS frequencies?

Well done!