

# ***Interactive comment on “Combined Impacts of ENSO and MJO on the 2015 Growing Season Drought over the Canadian Prairies” by Zhenhua Li et al.***

## **Anonymous Referee #1**

Received and published: 31 March 2018

Generally, there is value (new information) in the ms on how MJO amplifies drought in western Canada. I have concerns around the following which the authors may want to attend to before final acceptance. 1. As pointed out in the comments, there are obvious lapses in spelling and writing which must be corrected. 2. Although the title of the ms refers to the Canadian Prairies, the reality is that it only covers Alberta and Saskatchewan (Figure 1). The Prairies include MB. It would also seem that coastal BC was affected most by the 2015 drought according to Figure 1 but does not enter into their discussion much. Why? 3. Structurally, a section under results (lines 131 to 141) are actually part of methods/study area. 4. The generation of a Rossby wave train (mechanism for delivery of drought conditions) is purely circumstantial from the

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graphics. There are equations and alluded to which should be used to ascertain this. It will be interesting to know why the authors did not do this when they had all the data (geopotential heights, OLR etc)

Please also note the supplement to this comment:

<https://www.hydrol-earth-syst-sci-discuss.net/hess-2018-56/hess-2018-56-RC1-supplement.pdf>

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2018-56>, 2018.

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