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Interactive comment on "ChinaCropPhen1km: A high-resolution crop phenological dataset for three staple crops in China during 2000–2015 based on LAI products" *by* Yuchuan Luo et al.

Anonymous Referee #2

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General Comments: This study provides a long-term phenology dataset for three staple crops in China at the 1km spatial resolution (ChinaCropPhen1km). Such dataset with high resolution and accuracy is very useful to the researchers focused on crop model, yield estimation, food security, impact evaluation from climate change, and etc.. Meanwhile, the method proposed is robust and repeatable, and the authors' study provide a potential tool to apply into other regions and other crop systems. The manuscript is generally well-structured and well-written, and many findings are very interesting and very attractive to many potential readers. The manuscript falls well within the scope of the journal and provides a suitable contribution to ESSD. Therefore, I recommend it can be acceptable for publication with minor revision. Âă The following specific com-

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Discussion paper

ments should be noticed: 1)ÂăÂăÂăÂă Line 39: “estimate” should be “estimated”. 2)ÂăÂăÂăÂă Line 53: Add “the” before “essential”. 3)ÂăÂăÂăÂă Line 69: “the single cropping system of spring maize in Northeast China” is not an example of “multi-cropped”. 4)ÂăÂăÂăÂă Line 91: Replace “including” with “i.e.,”. 5)ÂăÂăÂăÂă Line 95: Replace “smooth” with “smoothing”. 6)ÂăÂăÂăÂă Line 169: Singularize “crop pixels”. 7)ÂăÂăÂăÂă Line 170: Add “using” before “RMSE”. 8)ÂăÂăÂăÂă Line 189: Revise “the median columns of Fig.3” to detailed icon of specifiedÂăfigure. 9)ÂăÂăÂăÂă Line 196: In terms of “the uncertainty of GLASS LAI data”, how such uncertainties may affect the generated dataset? 10)Âă Line 212: Delete “degrees”. 11)Âă Line 217: Add “be” before “ignored”. 12)Âă Line 274: V3 is not the key phenological stage for wheat, delete ”V3” in parenthesis. 13)Âă Line 282: Add “for” before “wheat”

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