

## ***Interactive comment on “The effect of increased resolution of geostationary satellite imageries on predictability of tropical thunderstorms over Southeast Asia” by Kwonmin Lee et al.***

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We thank to the reviewer of SC1-supplement for his/her thoughtful comments and clear suggestions. He/she not only indicated the crucial points in our research but also suggested the way how to improve them. Thanks to the comments, the manuscript has been revised as follows. Only eight clouds are a small number to show enough conclusions. We selected clouds that occurred during the day and night in July and August 2017. We added a total of 60 cloud cases, 30 per month.

ĩAñ L15, page 3. How did you convert and smooth data by the time dimension? Is it the average of four 2 km pixels and 30 min?

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Right. In order to carry out this study, we make virtual data whose resolution is similar to the MTSAT. Specifically, four pixels of 2 km were converted into one pixel of 4 km, and the time interval was increased from 10 minutes to 30 minutes, which is the same as the former spatial resolution and time cycle. In other words, it is calculated as the average of four 2 km pixels every 30 min. To better understating, we added an illustration about the difference in the number of detected cloud pixels by resolution.

ĩAñ L26, page 3. Why did you convert brightness temperature to integer?

We simply call the brightness temperature at 10.45 into BT11 for readability. To better understanding, please look at Figure 3.

Please also note the supplement to this comment:

<https://www.nat-hazards-earth-syst-sci-discuss.net/nhess-2018-357/nhess-2018-357-AC2-supplement.pdf>

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