

## ***Interactive comment on “Detection of deterministic and probabilistic convective initiation using Himawari-8 Advanced Himawari Imager data” by Sanggyun Lee et al.***

**Anonymous Referee #2**

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This paper presents studies related to the use and selection of a convective initiation (CI) algorithm for application to Himawari-8 AHI data, specifically collected for the Korean Peninsula.

The paper addresses questions within the scope of AMT although it does not introduce new concepts or ideas. It reaches interesting conclusions in the context of applying the data to the Korean Peninsula and, although the novelty of the paper is minimal, it gives a reasonable description of the issues involved with detecting CI. Publication of such analyses is not unusual for new instrumentation as it assists others and it provides a benchmark in the analysis process. In this case, the data analysis is limited in the confidence which we can have by the small number of days (in the figures) for which

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the results of the training data are applied. If the algorithms are truly to be ‘validated over Northeast Asia’, we need a better (larger) validation data-set.

The English language in the paper would benefit from the advice of a native english speaker but it is not disastrous and the reader would not be led to confusion or misinterpretation. On the other hand, the paper is full of acronyms (some not defined) which would make the paper tedious and opaque to a reader unfamiliar with the field. This is important since a reader familiar with the field would not find much which is novel in the paper.

Lines 22 to 29 on page 10 are repeated as lines 30 to 4 (on page 11). The resolution of the maps in figures 5 to 16, particularly (g), needs improvement as the resolution only marginally allows the reader to see sufficient detail.

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Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2016-308, 2016.

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