Atmospheric Measurement Techniques Discussions

Atmos. Meas. Tech. Discuss., referee comment RC2
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Comment on amt-2021-179

Anonymous Referee #2

Referee comment on "Twenty-four-hour cloud cover calculation using a ground-based imager with machine learning" by Bu-Yo Kim et al., Atmos. Meas. Tech. Discuss., https://doi.org/10.5194/amt-2021-179-RC2, 2021

This manuscript presents a comparison of several methods of obtaining the cloud cover without reliance on human eye. The presentation of the methods and the results is well-written, clear and convincing. As far as I can tell, it does not introduce any new tools to obtain cloud cover via machine learning or other methods, but it does provide a valuable benchmark using a large sample of images.

I only have a few minor suggestions:

Line 164: How is image radius defined ? Why aren't the equations placed after line 146 when they are first mentioned ?

Line 207 : Missing "was" : ... was used, the SVR kernel ...

Line 212 : -> where x_i is the i-th data point ...

Line 345 : By time -> Conditioned on the time of day, high ...