

Interactive comment on “Dynamic Anthropogenic activities impacting Heat emissions (DASHv1.0): Development and evaluation” by Isabella Capel-Timms et al.

Anonymous Referee #1

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Isabella et al developed the DASH to quantitatively evaluate the anthropogenic activities impacting heat emissions. This model highlighted the Spatiotemporal distribution anthropogenic heat emissions. This is an important model that have board implications to the urban area. This topic of this paper fits the scope of GMD. However, I have some concerns

45. Please check the reference format. “(Oke, 198)”

215. It seems the authors does not consider the heat emissions generated by the metabolism during sleep, which is incomplete for this part.

410. I agree with the author’s statement that “The limited consideration of building
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material thermophysical properties is expected to reduce the spatial variance in heating and cooling contributions”. But the dimension of the building is equally important. In the case of London, it does not take differences in building dimensions into consideration, which would be an important reason to cause the largest discrepancy in CBD except for misallocation in the published data, as the author mentioned in 635

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2020-52>, 2020.