

## ***Interactive comment on “Impact of an improved radiation scheme in the MAECHAM5 General Circulation Model” by C. Cagnazzo et al.***

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The manuscript is a valuable contribution that advances our understanding of the modeling of atmospheric processes. However the following comments should help to further improve the paper:

Unfortunately, the authors still do not answer the obvious question whether 6 bands are sufficient or not to accurately model the warming rates in the atmosphere. They state that 6 bands result in a significant improvement, but is this enough or not in the judgement of the authors? To answer that question it is not necessary to perform new calculations with more than 6 bands, it is only a matter of an evaluation and interpretation of the results compared to the reference data.

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It is recommended to take the first sentence of the conclusion as the start of the abstract. Although correct, it is a bit confusing that the authors talk about 1-3 bands in the shortwave and later on about 4-6.

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Interactive comment on Atmos. Chem. Phys. Discuss., 6, 11067, 2006.

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