

***Interactive comment on* “Global distribution of Earth’s surface shortwave radiation budget” by N. Hatzianastassiou et al.**

L. Frohn (Editor)

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This paper describes the monthly mean shortwave radiation budget at the Earth’s surface for a period of 17 years. The model results have been compared to surface site measurements for validation and the model provides reasonable results. The agreement of the model results with El Niño and volcanic eruption events during the 17 year time period is investigated and several simple sensitivity tests are applied.

One reviewer has recommended that the paper should be split in two (one paper describing the model and model inputs, and another paper describing the model results and sensitivity tests) due to the length of the paper. This is, however, not recommended by the editor, firstly because the first paper probably would lack scientific impact, and

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secondly because the model results are closely connected with the structure and parameterisations of the model.

Several scientific as well as technical questions have been raised by the referees. According to the revised manuscript all questions have been answered appropriately and necessary changes have been carried out.

The paper is therefore accepted as is for ACP.

Interactive comment on Atmos. Chem. Phys. Discuss., 5, 4545, 2005.

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