

## ***Interactive comment on “Improving HelioClim-3 estimates of surface solar using the McClear clear-sky model and recent advances on atmosphere composition” by Z. Qu et al.***

**Anonymous Referee #2**

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The paper provides worthwhile information and represents a substantial contribution to the scientific progress of the radiation community. I have only 2 minor comments.

L 7795, 25: It might be worth to discuss also briefly the disadvantages of the Linke turbidity factor at this place and in the conclusions.

L 1801, 5: I think that not only the RMSD is affected but also the bias. Far away from nadir the cloud index / cloud albedo is "artificially increased" due to the slant geometry (broken clouds). This may be discussed as well.

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Interactive comment on Atmos. Meas. Tech. Discuss., 7, 7793, 2014.

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