

## ***Interactive comment on “Regional scale evaluation of a MSG solar radiation product for evapotranspiration modeling” by J. Cristóbal and M. C. Anderson***

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RC: I agree with referee #1 on the issue of units of the fluxes: It is not clear to me why different units for hourly ( $W\ m^{-2}$ ) and daily and monthly ( $MJ\ m^{-2}$ ) aggregations are used and how they compare in this context.

AC:  $W\ m^{-2}$  will be used for easier comparison. This has been changed in the text and tables.

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## Technical Comments

Concerning references:

RC: You have confused the reference of Brisson, et al. In the text on page 8909 line 20 you cite Brisson et al., 1999, on page 8911 line 8 you cite Brisson et al., 1998, and in the reference list you have Brisson et al., 1994.

AC: The correct reference in all cases is Brisson 1998 and has been included in the text. Brisson 1994 has been deleted.

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RC: On page 8909 line 21 and page 8910 line 15 you cite LSA SAF, 2010 which does not appear in the reference list.

AC: This reference has been included in the text.

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RC: On page 8911 line 27 you cite Pons, 2004 which does not appear in the reference list.

AC: This reference has been deleted according to referee #1 suggestion

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RC: On page 8919 line 1: the reference is spelled incorrectly – Rigollier et al (2004)

AC: This has been modified in the text

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RC: On page 8919 lines 16 and 20 you cite Geiger et al., 2008 which does not appear in the reference list (Geiger et al., 2008a and 2008b do).

AC: This has been modified in the text. The correct reference is 2008a.

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RC: On page 8922 line 13 you cite Anderson et al., 2012 which does not appear in the reference list.

AC: This reference has been included in the text

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Concerning typos:

RC: On page 8916 line 27: “they reported an hourly irradiation ...”

AC: This has been modified in the text

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RC: On page 8918: “Figure 3 and subtitle: from dawn to dusk”

AC: This has been modified in the text

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RC: On page 8918 line 11: “According to ...”

AC: This has been modified in the text

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RC: On page 8919 line 26: “Figure 6 shows:”

AC: This has been modified in the text

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RC: On page 8920 first two lines I would write: “the DSSF product reproduces well the seasonal variability measured at these two meteorological stations in both a flat and hilly landscape”

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AC: This has been included in the text

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 9, 8905, 2012.

**HESD**

9, C4847–C4850, 2012

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