



Evaluating solar radiation of three regional reanalyses over Europe against the satellite-derived SARAH dataset

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Within the European Framework Programme 7 project UERRA (Uncertainties in Ensembles of Regional Reanalyses) several regional reanalyses are produced. The grid size resolution of the reanalyses is comparable to the one of the satellite-derived solar radiation estimate SARAH v002 produced by CM SAF (Satellite Application Facility on Climate Monitoring). In this study we compare solar radiation of three different regional reanalyses with the satellite estimate on instantaneous to monthly time scales for the years 2008 and 2009. In order to estimate the added value of the regional reanalyses compared to existing global reanalyses, the radiation product of ERA-Interim is included into this study.