



Analysis of UVB values in Iberian peninsula

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Ultraviolet radiation B values had been recorded in Spain by the networks managed by INM from last decade. An analysis of temporal series of data recorded in Madrid by the spectrophotometer Brewer MkIV n. 070 and a broadband piranometer YES UVB-1 is performed. First at all, some instrumental controls allow the delimitation of the period suitable for this analysis with reasonable liability on the results. Daily and seasonal variability of solar ultraviolet-B (UVB) between 1994 and 2002 are displayed with more details in 1996-2002. A comparison with total ozone values also provided by Brewer 070, indexes of radiation built by sunshine duration, cloudiness and global data from pyranometers were made. An statistical model relating UVB values with ozone, cloudiness and visible radiation was finally performed. An smaller set of data from Murcia, La Coruña and Zaragoza were also Brewer MkIV and a YES UVB-1 was installed, provided a spatial comparison between the centre and peripheral regions giving keys for spatial representation on UVB over Iberian Peninsula.