

Geophysical Research Abstracts,
Vol. 10, EGU2008-A-05473, 2008
SRef-ID: 1607-7962/gra/EGU2008-A-05473
EGU General Assembly 2008
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RELATIVE HUMIDITY DIARY CHANGES BETWEEN A MEDIUM-SIZED CITY AND ITS OUTSKIRTS

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We try to assess the differences in the diary evolution of the relative humidity between the urban area and the rural area in a medium-sized city. This study is applied to the city of Vic, which has over 40.000 inhabitants and is located in northeastern Iberian Peninsula. We use data from two automatic meteorological stations located at the city centre, and in the outskirts, at a high time resolution (10 min). The main results show the formation of an urban dry island with an important reduction (about 20%) in clear nights, while in cloudy or rainy nights is below 5%.