

## ***Interactive comment on “Night-time ozone uptake by Mediterranean species” by S. Mereu et al.***

### **Anonymous Referee #2**

Received and published: 24 April 2009

In this study night-time ozone uptake of three Mediterranean shrub species has been studied and compared using different approaches, Eddy covariance technology, leaf level porometry and sap flow technology. The study is very timely and provides new valuable information for ozone risk assessment work. The authors demonstrate the technological difficulties related to night-time ozone uptake measurements in field conditions. Considerable night-time ozone uptake could be measured with the sap flow technology. The study has also high ecological value, because the study was performed in field conditions with increasing drought stress. The paper is well-written, clear and easy to follow, even if you are not an expert in measurement techniques. I have only few points, that could improve the text:

Title: the present title is a bit dull, and could be more exiting. For example: Improved methodology reveals considerable night-time ozone uptake by Mediterranean species

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Abstract:, line 14-15: According to Table 1, night-time ozone uptake was 10-18% (1.5m) of the total when plants were exposed to a weak drought, ..

Figure 4: Symbols for plant species are missing

Table 1: Night fractions are not presented as %-values in table

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Interactive comment on Biogeosciences Discuss., 6, 2007, 2009.

**BGD**

6, S903–S904, 2009

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