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## ***Interactive comment on “Predicting and partitioning ozone fluxes to maize crops from sowing to harvest: the Surf atm-O<sub>3</sub> model” by P. Stella et al.***

### **Anonymous Referee #2**

Received and published: 6 September 2011

Overall the content of the paper is interesting and well presented, however there are a couple of points that should be addressed and minor corrections that are required: - the model performs very well at the Grignon site but it should be made clear that it was parameterised using data from this site so this is perhaps not surprising, particularly if the same data used in this paper were used for this. - the use of an adjustment on gs for yellow leaves is interesting and novel to me but how does it compare to other approaches such as multi-layer or more phenological models, some discussion could be included?

Minor points: - in some places the individual plots in the figures should be reordered

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so they appear in the order they are referred to - in Figure 1 rectangles should be used rather than zig-zags for resistors are this has been the standard symbol for many years - the font on the axis of many plots is too small to read easily in a printed version (Fig 2, 4, 6, 7) - pg 6703 line 9 strongest, not stronger - pg 6704 line 2 ozone on plants, not to plants - pg 6704 references to cuticular deposition increasing with increasing with RH could include Coyle et al 2009 as this was for a closed canopy and mainly cuticular - pg 6706 line 15 This results in, not The fact induces - pg 6709 Line 13 Replace the sentence "No water supply was brought." This does it make sense in English. last line, The data set covers, not comes - pg 6712 line 13 decreased to, not till - pg 6716 line 25 insert the before model - pg 6717 line 26, rephrase "of a too important attenuation" although it is understandable it is not good English - pg 6718 line 23, add the before non-stomatal and change pathways to pathway - pg 6720 first line, on not in

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Interactive comment on Biogeosciences Discuss., 8, 6701, 2011.

**BGD**

8, C2920–C2921, 2011

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