

# ***Interactive comment on “Influence of feedbacks from simulated crop growth on integrated regional hydrologic simulations under climate scenarios”*** **by P. E. V. van Walsum**

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A revised version of the manuscript is available at [ftp://ftp.wur.nl/simgro/doc/Articles/SIMGRO-WOFOST\\_20120302.pdf](ftp://ftp.wur.nl/simgro/doc/Articles/SIMGRO-WOFOST_20120302.pdf) All references to figures or tables are to the new version mentioned above.

2.1 The reviewer points out that the issue of parameter sensitivity to climate also plays a role in the current climate, from year to year. Using a different static for each type of year becomes unwieldy, as we remark in our conclusions on p. 17, line and on. It is at least much more convenient (and more accurate) to use a dynamic model.

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2.2 The function of Feddes (1978) is now given in Fig. 2.

2.3 Use of Makkink is explained in text, see reaction to reviewer #1.

2.4 The calibration of the crop parameters on available information is now given in Appendix B, including a table with results.

2.5 Line 11-14 of p. 10186 – we do not understand this reference, 10186 contains figures. Assuming page 10161 is meant – no we do not have more material to support this. Since the interception capacity is an uncertain parameter we included a sensitivity analysis that is reported on p.16, line 1-9 (new text).

2.6 We did not see opportunity to elaborate on this; we prefer to leave that to others that are competent in that specialist field.

2.7 Section has been removed.

3. Technical corrections: thank you for your remarks. Corrections implemented.

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 10151, 2011.

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