

Interactive comment on “Chemical sensing of plant stress at the ecosystem scale” by T. Karl et al.

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Eerdeken (2008) and Holst (2008) provided two comprehensive evaluations of our manuscript. Based on their comments we propose the following changes for a revised manuscript if accepted.

Section 2.1 will now start with the description of the Experimental site (formerly section 2.4). Additional information as requested by Holst (2008) and Eerdeken (2008) will be added.

Section 3. will include a paragraph summarizing results from a quantitative comparison between GC-MS and PTR-MS for Methylsalicylate.

We will include a more detailed discussion that will allow the reader to assess the stage of water limitation. For example we

will plot the water stress coefficient K_s (0-1) in figure 3 (see <http://www.fao.org/docrep/x0490e/x0490e0e.htm#soil%20water%20availability>), which reaches zero when the permanent wilting point is reached. Figure 3 will also be corrected according to typos pointed out by Holst (2008).

Various smaller typos and changes will be corrected as outlined in our specific response to Eerdeken (2008) and Holst (2008).

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