SOIL Discuss., 2, C368–C370, 2015
www.soil-discuss.net/2/C368/2015/

SOIL Discussions Open Access

Interactive comment on "Assessing the performance of a plastic optical fiber turbidity sensor for measuring post-fire erosion from plot to catchment scale" *by* J. J. Keizer et al.

J. J. Keizer et al.

jjkeizer@ua.pt

Received and published: 12 August 2015

General comments Authors: thank you for your positive evaluation of our manuscript

Specific comments Referee: Part of the section 3.3 should be in the Results section as the authors are already advance some results

Authors: We fully agree that part of section 3.3 concerns in fact results. Nonetheless, we do believe that the methodological aspect of this part justifies its inclusion under Materials and Methods. Furthermore, we think that moving these results to the R&D section would be rather akward, as it would require either adding an initial section

where these results are presented and discussed or adding to each of the existing sections these results for the respective data sets.

Referee: Pag. 457. Line 13: year within brackets; are the units the right ones?

Authors: Yes, we have double-checked with the reference that the units are the right ones

Referee: I would like to ask the authors to simplify the text of the Results and discussion section.

Authors: Also in line with what requested by referee 1, we will try to simplify the text of the R&D section of the revised ms and, in particular, the initial parts describing the sample sets.

Referee: Could the authors highlight their discussion based on the results they have obtained and the associated literature instead of mention the coefficients and sediment concentration, that are already included in the tables anyway?

Authors: Personally, we prefer to mention coefficients and concentrations in the running texto, so that the reader is not obliged to check the tables. Nonetheless, we will try to higlight our discussion in the revised version of the ms.

Referee: Could be possible to include in the Conclusion section which would be the next actions regarding the POF in a few lines? Are the authors planning new technical improvements or analysis of the data? Are you planning to try it under different scenarios?

Authors: We will gladly add to the conclusion section what we plan to do next with our sensor. As the referee indicated, we have improved the design of the sensor (making it more robust and, thus, more suitable for field applications) and we are planning to test this improved version for continuous monitoring in the field as well as to improve data processing.

Referee: Please, normalize sediment concentration units (gl-1 or gL-1).

Authors: We will correct this in the revised ms.

Interactive comment on SOIL Discuss., 2, 449, 2015.