

## ***Interactive comment on “An automated method to build groundwater model hydrostratigraphy from airborne electromagnetic data and lithological borehole logs” by P. A. Marker et al.***

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First, the authors would like to thank Referee#1 for the comments on the paper. Referee comments will be presented in quotes.

“The only concern I have is that the paper is partly very close to some recently published papers (Foged et al., 2014, HESS, Hoyer et al., 2015, JAG). Therefore, the authors should check their paper with respect to avoiding repetition and they should focus on the differences.”

More specifically Referee#1 questions the relevance of section 2.2, the first paragraph

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of section 3.2 and Figure 2, Figure 4, and Figure 8, as they can all be replaced with references to Foged et al., 2014, HESS.

The specific sections that Referee#1 refers to will be shortened or deleted with reference to Foged et al., 2014, HESS, in order to keep the focus on hydrological applications in the revised version of the manuscript. However we believe that the entire work flow, including CF-model inversion, clustering and calibration of these clusters in a hydrological model should be presented and discussed in the paper.

Figure 2: Three profiles showing resistivity, clay fraction, and cluster respectively. We find this figure useful for intuitive and visual explanation of our work.

Figure 4: The basemap of geophysical and lithological information. We will consider replacing this with a reference to Foged et al., 2014, HESS.

Figure 8: We will consider merging Figs 8 and 9 to save space and reduce overlap with Foged et al., 2014, HESS.

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