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Hydrology and Earth System Sciences
Discussions

Interactive comment on "How to identify groundwater-caused thermal anomalies in lakes based on multi-temporal satellite data in semi-arid regions" *by* U. Mallast et al.

Anonymous Referee #2

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This paper presents a approach to identify the thermal anomalies in lakes based on satellite data. This approach can be very useful in the case of large systems as argued by the authors. The paper tackles an important issue and one that is of interest to a broader audience of water resources readership. In its present form the paper would need a number of adjustments to be suitable for presentation as a paper in HESS. I will outline some of the comments in no particular order for the consideration of the authors while they prepare a revised version.

1. The overall style would need some attention; while the paper is in general well written and well organised there are a number of sections which are hard to understand. A

perfect example is the first half of the abstract. This is true throughout and the authors need to give careful attention to editing the paper for style. The abstract need to be completely rewritten. 2. The paper as a whole is very long and wordy and there are numerous sections that are not needed. In particular the introduction should be shortened by 50% at least. 3. The first 3 tables should be merged into one. 4. Do you really need Fig5? Can you include it in another figure? 5. The objectives section in the intro should be better targeted at the content of the paper and written in a simple style. State the objectives clearly not in a complex sentence style but more of a simple style and then follow with the explanation of the objective if required. You could also start with the explanation and finish with the clear statement of the objective. 6. I do understand that the paper is based on a much bigger report which is good; however, some of the content may be better for the report and perhaps the report could be added as supplementary material. 7. The broader application of the work in other area and location should be included.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 10, 4901, 2013.