Interactive comment on “LakeSST: Lake Skin Surface Temperatures in French inland water bodies for 1999–2016 from Landsat archives” by Jordi Prats et al.

Anonymous Referee #2

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My recommendation is to publish the paper after some minor comments have been addressed:

Accuracy of 1.5 degrees is problematic. This is a very large discrepancy. Can you justify why this is sufficient for climate change studies?

P2. L6: “4” should be “four”. Any number less than 10 should be spelled out.

Measurements with a thermal radiometer over the water bodies would be ideal. Then a more robust comparison of temperatures with radiometric temperatures is possible. Radiometric temperatures are a much better indicator of the performance of the surface temperature retrieval from satellite data.

Include some comments about the SCL-off problem in Landsat-7, and how this problem is addressed in the presented dataset. Discussion about why was Landsat 8 not included is necessary.

I would highly recommend consultation with a native English speaker to clarify the language used. For example: P2. L13-15: this statement makes no sense.

Much effort is given to the evaluation of various algorithms but more effort is needed to justify the use of daytime satellite retrievals and the impacts of the skin effect.

Why include the numerous outlines of various french regions in Figure 1? These are not defined in the legend and only distract from the overall presentation of the figure.

Fonts on the y-axis of Figure 4 are quite small and difficult to read.

Figure 11 should include R2 and p values