

Dear Editor,

Thanks for your interest in our manuscript. We have addressed the last points raised by Reviewer#2:

1. P4, L22: 'Model parameters are set to standard default values' Please remove "standard" in the sentence and the use of "default values" is sufficient.

Removed. See P4L22

2. P4, L24: Please replace 'meteo station' with the commonly used 'meteorological station'.

Modified See P4L24

3. P4, L27~28: The authors declare the parameter p\_albedo 'is unknown for the individual lakes'. Four of the parameters are also "unknown" and calibrated. "p\_albedo" should not be the only parameter addressed as "unknown". This sentence can be revised or removed.

Sentence revised:

"Finally, the parameter p\_albedo scales the albedo of ice and snow applied to incoming shortwave radiation, which depends on the ice/snow cover properties."

See P4L27

4. P6, L5~6: Please be more specific about 'calibration data was not sufficient for 8 lakes in which we used standard settings'. It is not clear about the two words "sufficient" and "standard".

Sentence revised:

"There were too few in-situ observations on 8 lakes to perform a proper calibration and all parameters where thereby set to default values."

See P6L5

5. P6, L20~21: 'For the period 1981- 2015, the trend in solar radiation is 5 W/m<sup>2</sup>/decade'. Is it descending or ascending trend?

"Ascending" trend added. See P6L20

6. P6, L26: 'compared to other light'. Is it other lake or other light?

Modified: “compared to other lakes”

See P6L26

7. P6, L31: ‘the inflows Aare and Lütshine’. Is it ‘inflows of Aare and Lütshine’?

Modified: “for the inflows of the Aare and of the Lütshine rivers”

P6L31

8. P7, L6~8: The last sentence in this paragraph said ‘The temporal change in the discharge and its temperature resulting from climate change should therefore be taken into account in predicting the change in lake thermal structure.’ Do the authors try to express ‘predicting future change in lake thermal structure’?

Modified: “The temporal change in the discharge and its temperature resulting from climate change should therefore be taken into account in studies attempting to predict the change in lake thermal structure.”

See P7L6

9. P7, L28, L31: Please replace ‘rate of warming’ with the commonly used ‘warming rate’.

Modified. See P7L28L31

10. P7, L29: Is it ‘depends mostly to’ or ‘depends mostly on’?

Modified. See P7L29

11. P9, L4: Please replace ‘open sharing’ with ‘openly sharing’.

Modified See P9L4