Interactive comment on “On the water thermal response to the passage of cold fronts: initial results for Itumbiara reservoir (Brazil)” by E. H. Alcântara et al.

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Received and published: 20 June 2011

1. Referee #2: ... I think that the correct occurrence is that in Fig. 9.
Authors: We agree and we have changed as advised.

2. Referee #2: The authors mentioned some characteristics of the climate in the region of the Itumbiara reservoir (section 2.1). They must indicate the source for these data information.
Authors: The source was inserted.
3. Referee #2: In section 2.4 the authors mentioned that the terms in Equation 1 are defined as positive when directed into the water. However, in Equations 2, 4 and 5 the terms are positive when directed from the water to the air. So, in Equation 1 the net heat, i.e., the difference between the shortwave radiation and the other terms (longwave radiation, sensible and latent heat) is positive when directed to the water.

Authors: Exactly.

4. Referee #2: Section 3.3: The authors mentioned that “the increasing in the longwave radiation after the passage of the cold front is due to the cloud cover formation”. They used Equation 2 for the calculation of the longwave radiation term. Where in this equation the effect of clouds is taken into account?

Authors: The term ‘C’ in equation 2 is the cloud cover fraction (estimated in accordance with Reed and Stabeno, 2002).

5. Referee #2: The English language must be improved. There are many grammar errors and some sentences make no sense.

Authors: Checked and corrected.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 7, 9437, 2010.