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Long-term flux observation at Koshin Observatory of Lake Kasumigaura?

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Water vapor, temperature, wind velocity and CO₂ concentration have been measured at 10Hz at the Koshin Observatory of Lake Kasumigaura, together with relevant meteorological and hydrological mean variables since June of 2007. By applying the eddy correlation method to these data, fluxes of water, heat and so on have also been estimated. In the presentation, some findings from the analysis that include relation between these point-estimated fluxes with those of Lake kasumigaura as a whole, bulk coefficient relation with wind speed and lake surface current, water balance consideration, will be the focus for the discussion of the future research directions.

Keywords: Lake Kasumigaura, Evaporation, Flux, bulk coefficient