

Interactive comment on “Technical note: Fourier approach for estimating the thermal attributes of streams” by M. Ryo et al.

M. Ryo et al.

masahiroryo@gmail.com

Received and published: 28 June 2016

We appreciate your help to further increase the readability.

1. Page 2, line 10: To which “problem” are you specifically referring? You could edit this section to read: “...near a hydrological station along the streamline, which is likely biased in thermal attributes. Both limit the understanding of ecological consequences in freshwater.”

—[Our reply]—

We would revise the section as the following:

Before (p.2, line 10-): Often in these cases, researchers rely on spot-measures of temperature at study sites and thus lack time-series temperature, thereby limiting under-

C1

standing of the ecological consequences of thermal attributes in freshwaters. Clearly, an estimate of the thermal attributes at spot-measured sites would benefit this understanding.

After: Often in these cases, researchers rely on spot-measures of temperature at study sites lacking time-series temperature or refer to temperature time-series monitored at a nearby hydrological station along the streamline, although likely being biased in thermal attributes. Both datasets have caveats (a lack of time-series or bias in data) when estimating the thermal attributes at a data-poor site, thereby limiting understanding of the ecological consequences in freshwaters. Regardless, estimating thermal attributes from both spot-measurements at study sites and time-series at the nearest hydrological station would allow more robust estimates.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., doi:10.5194/hess-2016-238, 2016.

C2