

Interactive comment on “Effect of hypoxia and anoxia on invertebrate behaviour: ecological perspectives from species to community level” by B. Riedel et al.

B. Riedel et al.

bettina.riedel@univie.ac.at

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Yes, our confidence intervals are mostly (but not all) small. This reflects the fact that most individuals of a particular species assumed the respective behaviours or set of behaviours concurrently and maintained these behaviours over a certain time period before the next often well-defined behavioural responses (or mortality) occurred. Moreover, the frames were taken in 6-min intervals so that, theoretically, a particular behaviour could be interrupted and started again. In fact, this rarely occurred because the patterns were typically towards an increasing stress response. Therefore, we cannot practically identify a de-correlation time. We think (also after consultation with our

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institute's biostatistician) that our approach is thus the best way to treat the data that we have and that our conclusions would remain the same with other forms of representation. At the same time, we are "confident" that our behavioural responses are highly predictable and that the confidence intervals reflect this.

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