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Interactive Comment

Interactive comment on "Oxygen isotope ratios in the shell of Mytilus edulis: archives of glacier meltwater in Greenland?" by E. A. A. Versteegh et al.

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The seasonal d18Oc values found in the shells are compared with predicted d18O values by first matching the correct seasons with each other (these can be clearly distinguished using peaks and troughs in the shell records; Fig. 4). Then individual shell d18Oc values are shifted horizontally (along the time axis) to match corresponding values on the predicted d18O curve. When this is done, care is taken that there are no "time axis inversions" and we allow for a gap in the shell d18Oc record at each peak and trough, due to a possible growth cessation. The above procedure could indeed be called wiggle-matching.

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In section 4.3 the seasonal temperature variation has been taken into account in our calculation of predicted shell d18Oc values.

In our further work on shell middens and raised shorelines we aim to collect living specimens as close to the sites as possible, to minimise possible confounding influences of different local environments.

Interactive comment on Biogeosciences Discuss., 9, 12019, 2012.

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