Dear [EDITOR NAME],

We submit for your consideration our manuscript “Building and Critically Assessing Age-Depth Models in Large-Scale Paleoecological Synthesis.”

As large paleoecological and paleoclimatic databases become more common, a standard need is to rebuild age-depth models, in order to insure that all age inferences are consistently made and follow current best practices. This creates a challenge of how best to do large-scale age-depth modeling in a way that’s both fast and enables critical evaluation of the age-depth models. Here, we present a new systematic framework and focus on the interpretative challenges associated with building age-depth models that rely upon a mixture of multiple kinds of age controls: radiocarbon, lead-210, stratigraphic ages. All results are based upon records from the Neotoma Paleoecology Database and rely upon the bacon age model. [mention bulk baconizing program here?]

We believe that this work will be of interest to the Open Quaternary readership and well in keeping with OQ’s mission of promoting open data, open software, and open science.

Sincerely,

[XX AUTHORS]