Supplement of

Killing the predator: impacts of highest-predator mortality on the global-ocean ecosystem structure

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S1. Auxiliary Biogeochemical properties

Figure S1. Depth integrated, seasonally averaged phytoplankton biomass density

Figure S2. Depth integrated, seasonally averaged zooplankton biomass density
Figure S3. Depth integrated seasonally averaged Primary Production

Figure S4. Seasonally averaged carbon export
S2. Sensitivity studies

Figure S6. Sensitivity of phytoplankton biomass to phytoplankton size a) phytoplankton are increased in volume by ~3-fold b) zooplankton are increased in volume by ~3-fold and c) phytoplankton and zooplankton are both increased in volume by ~3-fold. Shown are the results for the quadratic model with parallel feeding.
Figure S7. Sensitivity of community composition to grazing switching, found by setting $\beta = 2$ in Equation A21. Active switching allows coexistence in the diamond food web model (compare right column with Figure 4 of the main text).

Figure S8. Sensitivity of scaling relationships to Type III zooplankton feeding, found by setting $\gamma = 3$ in Equation A21.