

Supplementary Information

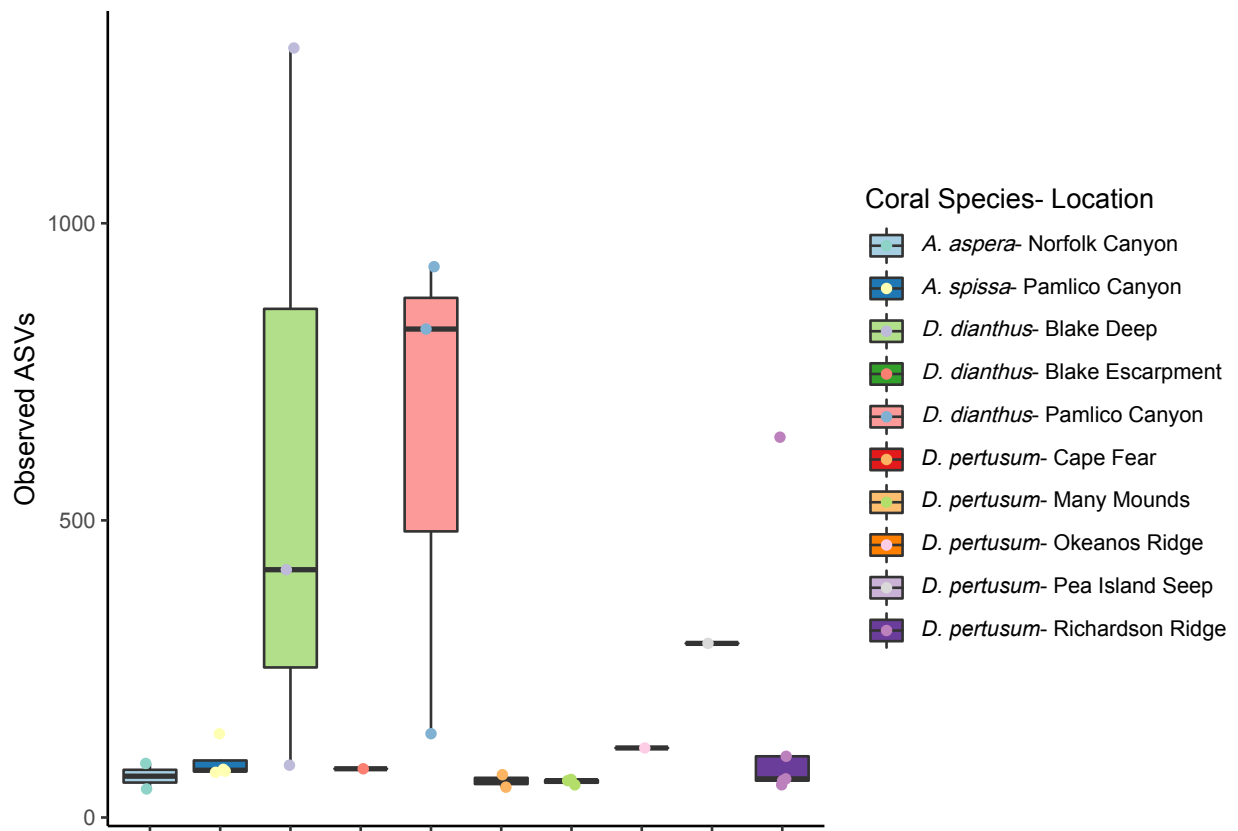


Figure S1. Observed amplicon sequence variants (ASVs) according to coral species (*Acanthogorgia aspera*, *Acanthogorgia spissa*, *Desmophyllum dianthus*, and *Desmophyllum pertusum*).

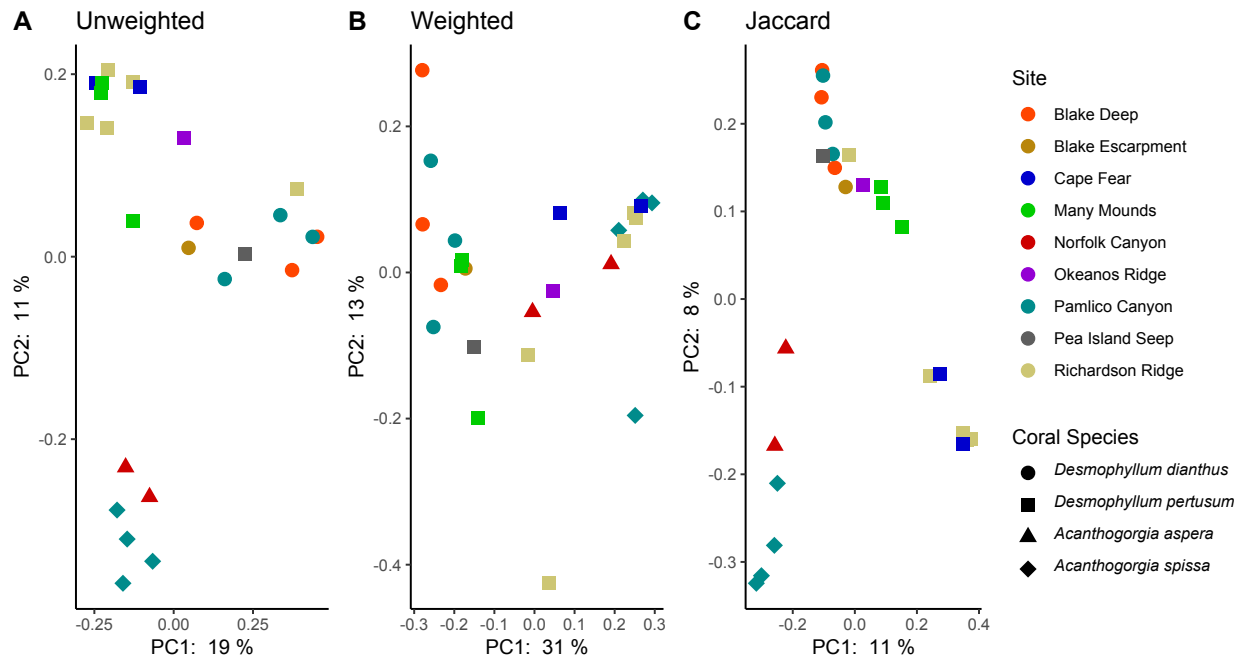


Figure S2. Principal Coordinates Analysis (PCoA) based upon unweighted (A) and weighted (B) Unifrac distances and Jaccard similarity indices (C) for four deep water coral species collected from nine different sites.

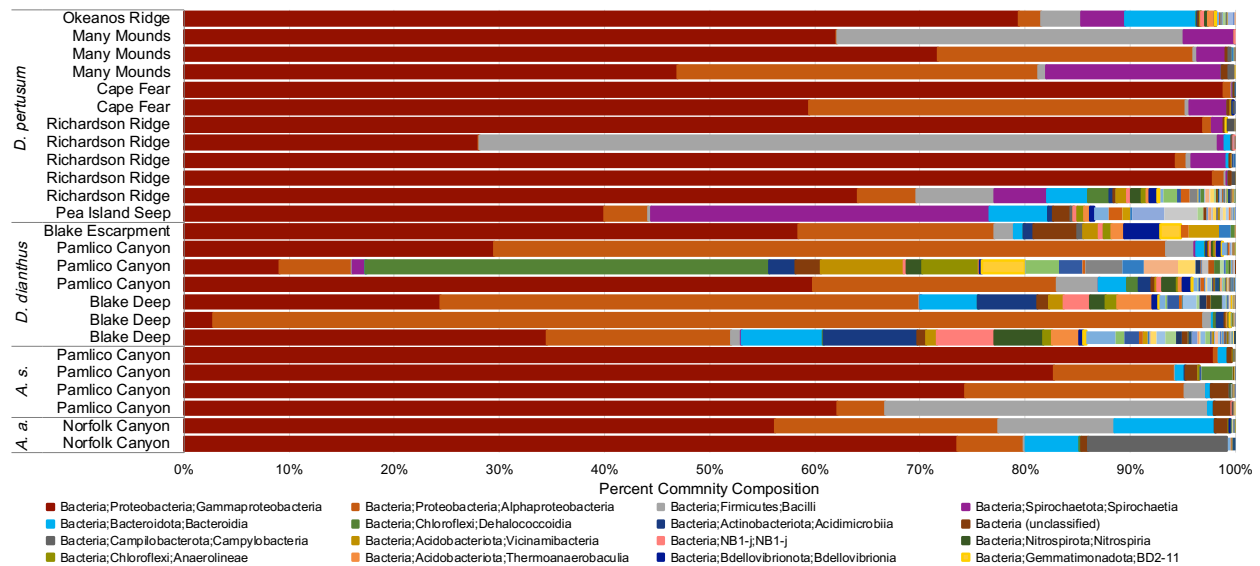


Figure S3. Microbial community composition at the class level for four corals, *Acanthogorgia aspera* (abbreviated *A.a.*), *Acanthogorgia spissa* (abbreviated *A.s.*), *Desmophyllum dianthus*, and *Desmophyllum pertusum* collected from various deep-water sites. Only the top 16 Classes are listed in the legend (thickened bars).