**Multi-trophic marker analysis of a Marquesan food web highlights how reef ecosystems might respond to a warmer and nutrient-rich ocean future**

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**Supplementary figure S1.** Comparison of the source polygons for the mixing models obtained with different trophic enrichment factors (TEF). For filter-feeders and zooplankton: fractionation factors of Post (2002) (A) and specific TEF (B). For herbivores and detritivores: fractionation factors of Post (2002) (C) and specific TEF (D). Cold season on the left, warm season on the right.



**Supplementary figure S2.** Trophic positions estimates for consumers by trophic group calculated with the Post equation (Post 2002) with the average δ15N of the source amino acids (glycine and phenylalanine) as baseline. Baseline value depending on the season: Winter δ15Nphe-gly = 12.8 ‰, Summer δ15Nphe-gly = 10.5 ‰.