

SUPPLEMENTARY MATERIAL

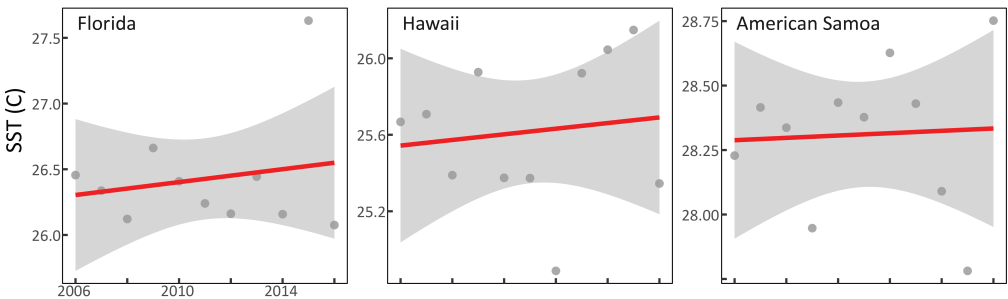
This supplement presents additional information on methods, figures, and tables that provide added data and clarification. Analysis code and data can be found at the public repository: osf.io/4s9ty

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Table S1. Quantile summary for main text Figure 1A of CSIA-AA estimated trophic position by location and species. Raw data from which distributions were drawn is available in the public repository.

location	spp	upper IQR*1.5	75%	median	mean	25%	lower IQR*1.5
American Samoa	SOTE	4.622	4.197	3.977	4.054	3.914	3.489
American Samoa	BRNO	4.440	4.084	4.031	3.991	3.847	3.491
Hawaii	SOTE	4.165	3.860	3.725	3.793	3.656	3.351
Hawaii	BRNO	4.002	3.732	3.630	3.642	3.552	3.282
Florida	SOTE	3.941	3.680	3.566	3.606	3.506	3.245
Florida	BRNO	3.916	3.678	3.613	3.600	3.519	3.281

A. time series of SST at sample locations



B. regional polygons of SST

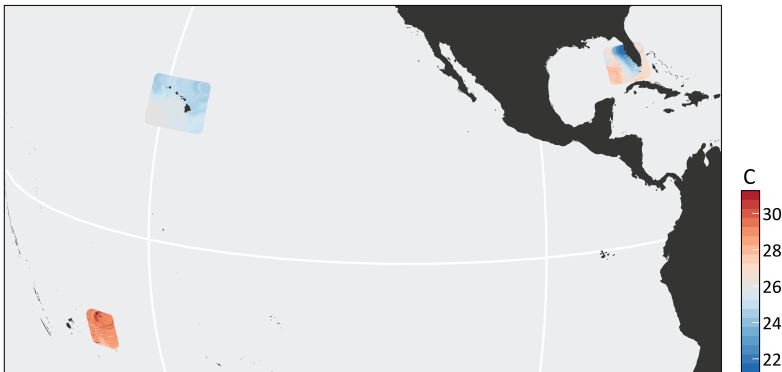


Figure S1. SST time series (A) and map regions (B) from which the 10-year rate of change was approximated with linear model fits of the annual median. Rates of change was calculated with sea surface temperature using the slope coefficient of a linear model on AVHRR SST data (POES 0.1°, 14-day composite, annual median) during the period 2006-2016.