

TITLE

Authors

Supplementary Methods

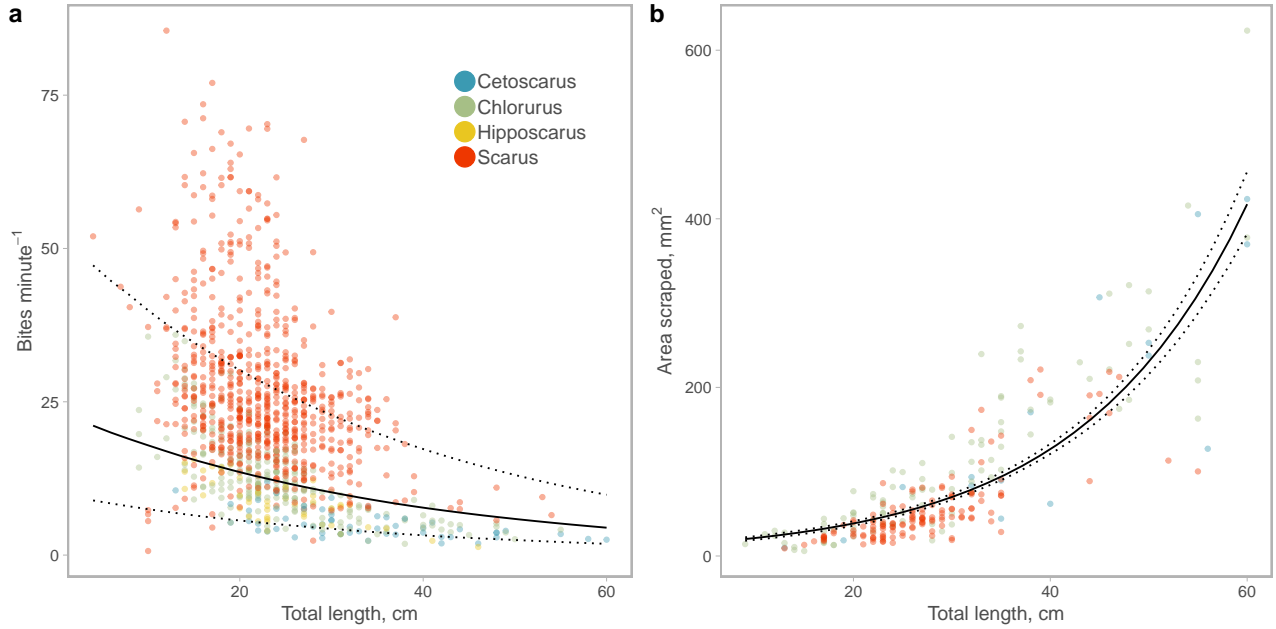


Figure S1 | Size effects on scraper bite rates (A) and bite area (B). Lines indicate median posterior predictions with 95% certainty intervals, excluding species and genera effects, across the range of observed body sizes (total length, cm). Points are observed bite rates or bite areas coloured by genera.

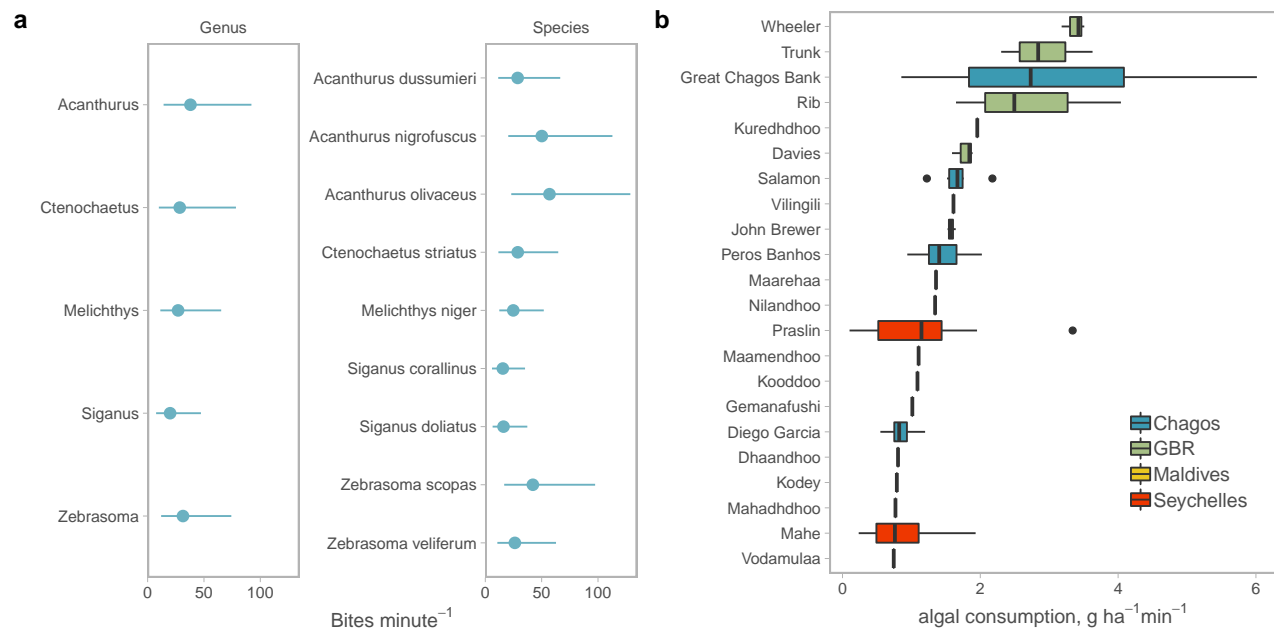


Figure S2 | Cropper bite rate predictions (A) and observed cropper function in UVC (B) Predicted bite rates are median posterior predictions with 95% certainty intervals (A), and boxplots are site-level observed cropping function for each reef, coloured by UVC region.

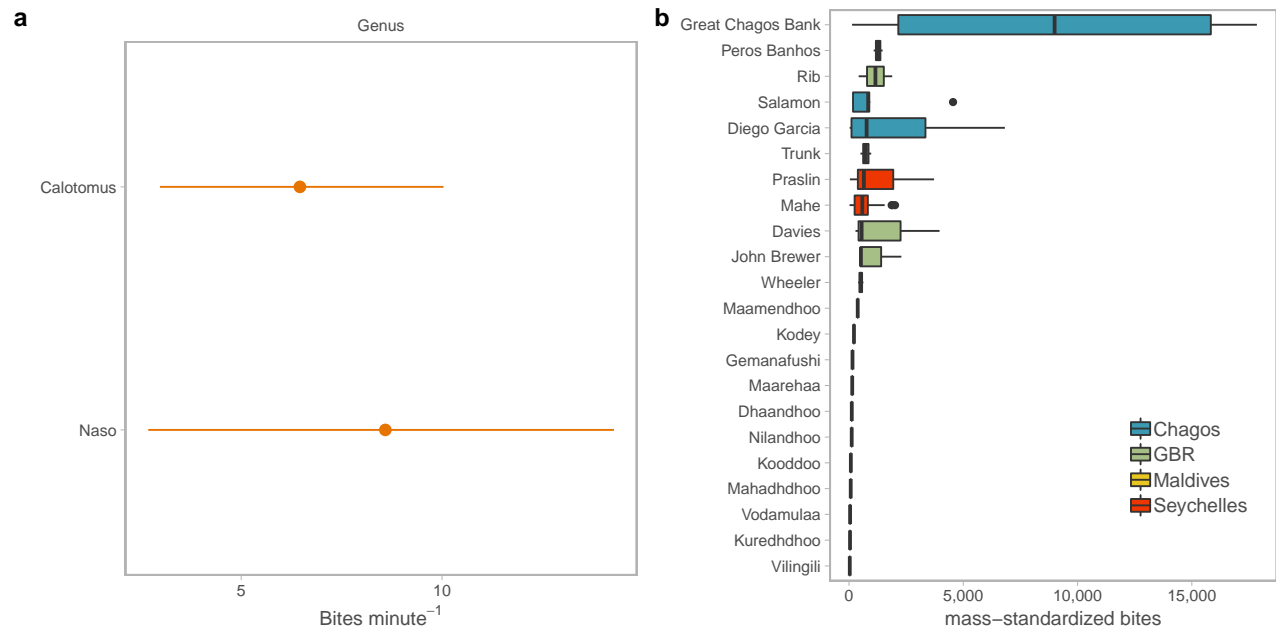


Figure S3 | Browser bite rate predictions (A) and observed browser function in UVC (B) Predicted bite rates are median posterior predictions with 95% certainty intervals (A), and boxplots are site-level observed browsing function for each reef, coloured by UVC region.

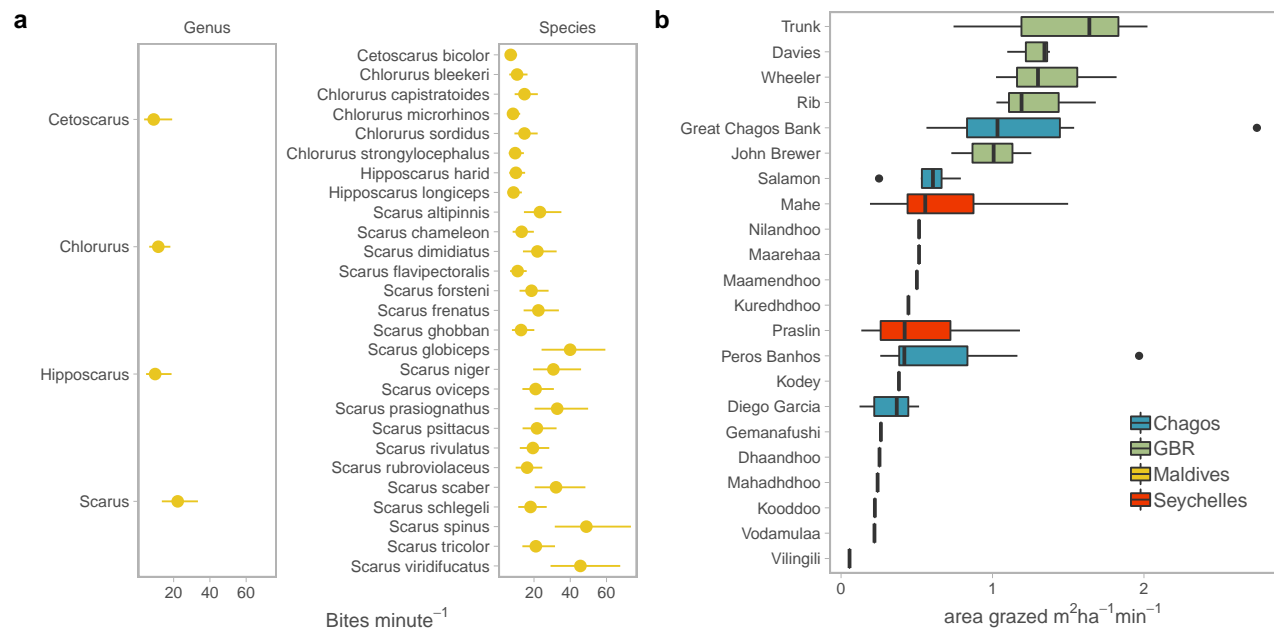


Figure S4 | Scrapper bite rate predictions (A) and observed scraping function in UVC (B) Predicted bite rates are median posterior predictions with 95% certainty intervals (A), and boxplots are site-level observed scraping function for each reef, coloured by UVC region.

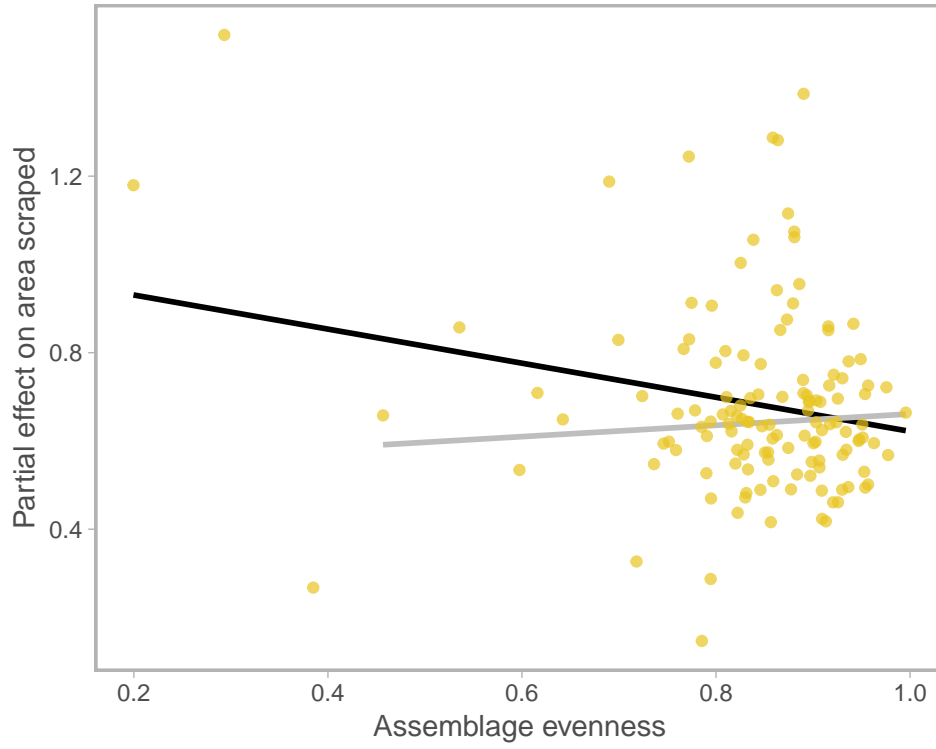


Figure S5 | Evenness effect on scraping function. Points are partial residuals from linear mixed effects model for predicted evenness effect while excluding effects from other explanatory covariates (e.g. biomass, size, richness). Black line is fitted to full dataset and grey line is fitted to evenness values > 0.4 , with 95% bootstrapped confidence intervals.