Supplemental Table 3. Tiering, motility, and feeding categories used in this study are based on the categories described in Bush et al. (2007), Sessa et al. (2012), and the Neogene Marine biota of Tropical America (NMITA) molluscan life-habits database, with additional ecological data from the Paleobiology Database.

|  |  |  |  |
| --- | --- | --- | --- |
| This Study | Bush et al. 2007 | Sessa et al. 2012 | NMITA |
| Tier 1 | Pelagic | Nektonic and SWI |  |
| (Not observed) | Erect |  |  |
| Tier 2 | Surficial | Nektonic and SWI | Epifaunal recliner |
| Epifaunal |
| Tier 3 | Semi-infaunal | Semi-Infaunal | Semi- infaunal |
| Tier 4 | Shallow infaunal | Shallow infaunal | Infaunal siphonate |
| Infaunal a-siphonate (adaptive constraint) |
| Tier 5 | Deep infaunal | Deep infaunal and Boring |  |
| Tier 6 |  |  | Nestler on or within hard substrate |
| Boring |
| Nestler within burrow of another organism |
| Mob 1 | Free, fast (regularly moving and unencumbered) | Swimming | Swimming |
| Mob 2 | Free, slow (strong bond to substrate) | Creeping | Actively mobile |
| Mob 3 | Facultative, unattached | Facultative, mobile | Sedentary |
| Mob 4 | Facultative, attached | Facultative, attached | Sedentary |
| Mob 5 | Nonmobile, unattached | Immobile, unattached | Immobile |
| Mob 6 | Nonmobile, attached | Immobile, attached | Immobile |
| Feed 1 | Suspension; food from water | Suspension | Suspension |
| Feed 2 | Surface deposit; loose particles from substrate | Generalized deposit feeding | Surface deposit feeder |
| (Not observed) | Mining; recovering buried food |  | Subsurface deposit feeder |
| Feed 3 | Photo, Chemo, Parasites | Chemosymbiotic deposit feeding | Chemosymbiotic deposit feeder |
| Feed 4 | Grazing- scraping or nibbling from substrate | Herbivorous grazing | Herbivorous omnivore |
| Herbivore on fine grained substrate |
| Herbivores on rock or coral substrate |
| Herbivore on plant or algal substrate |
| Feed 5 | Predatory | Browsing predators (also parasites according to NMITA) | Browsing on immobile prey, also parasites |
| Feed 6 | Carnivorous predators | Predatory Carnivore (also scavengers) |
|  | Microcarnivore (foraminiferivores) |