

|                                | Aboveground                         |               |       | Belowground                         |             |      | Shoot density                       |               |       | Aboveground/Belowground             |               |       | Second node distance                |               |       | Epiphyte Load                       |               |       | Grazer Load                         |               |       | Crab biomass                        |               |       |
|--------------------------------|-------------------------------------|---------------|-------|-------------------------------------|-------------|------|-------------------------------------|---------------|-------|-------------------------------------|---------------|-------|-------------------------------------|---------------|-------|-------------------------------------|---------------|-------|-------------------------------------|---------------|-------|-------------------------------------|---------------|-------|
|                                | Estimate                            | CI            | p     | Estimate                            | CI          | p    | Estimate                            | CI            | p     | Estimate                            | CI            | p     | Estimate                            | CI            | p     | Estimate                            | CI            | p     | Estimate                            | CI            | p     | Estimate                            | CI            | p     |
| (Intercept)                    | 3.93                                | 3.76 – 4.10   | <.001 | 1.42                                | 0.35 – 2.50 | .017 | 5.51                                | 5.40 – 5.62   | <.001 | 0.93                                | 0.79 – 1.06   | <.001 | 0.40                                | 0.00 – 0.80   | .067  | -6.00                               | -8.00 – -4.00 | <.001 | -5.23                               | -6.48 – -3.97 | <.001 | 3.64                                | 3.08 – 4.20   | <.001 |
| poly(date_julian, 2)1          | 2.98                                | 2.19 – 3.78   | <.001 |                                     |             |      | 0.74                                | 0.22 – 1.26   | .004  | 1.53                                | 0.93 – 2.14   | <.001 | 0.71                                | 0.23 – 1.20   | .011  |                                     |               |       |                                     |               |       |                                     |               |       |
| poly(date_julian, 2)2          | -0.94                               | -1.73 – -0.14 | .035  |                                     |             |      | 0.48                                | -0.02 – 1.00  | .065  | -1.05                               | -1.66 – -0.45 | .003  | -1.31                               | -1.77 – -0.84 | <.001 |                                     |               |       |                                     |               |       |                                     |               |       |
| poly(sea_otter_index, 2)1      | 0.92                                | 0.13 – 1.72   | .036  |                                     |             |      | 0.00                                | -0.51 – 0.52  | .994  |                                     |               |       |                                     |               |       |                                     |               |       |                                     |               |       |                                     |               |       |
| poly(sea_otter_index, 2)2      | -0.72                               | -1.52 – 0.08  | .097  |                                     |             |      | -0.81                               | -1.32 – -0.29 | .002  |                                     |               |       |                                     |               |       |                                     |               |       |                                     |               |       |                                     |               |       |
| date_julian                    |                                     |               |       | 0.01                                | 0.00 – 0.01 | .008 |                                     |               |       |                                     |               |       |                                     |               |       |                                     |               |       |                                     |               |       |                                     |               |       |
| sea_otter_index                |                                     |               |       |                                     |             |      |                                     |               |       | 0.35                                | 0.14 – 0.55   | .004  | 0.07                                | -0.08 – 0.23  | .366  |                                     |               |       |                                     |               |       | -1.25                               | -2.11 – -0.39 | .010  |
| light_atten                    |                                     |               |       |                                     |             |      |                                     |               |       |                                     |               |       | -0.80                               | -1.57 – -0.03 | .060  |                                     |               |       |                                     |               |       |                                     |               |       |
| Ntotal_site                    |                                     |               |       |                                     |             |      |                                     |               |       |                                     |               |       | 0.06                                | -0.02 – 0.14  | .171  |                                     |               |       |                                     |               |       |                                     |               |       |
| log(dat\$grazermass_shootmass) |                                     |               |       |                                     |             |      |                                     |               |       |                                     |               |       |                                     |               |       | -0.48                               | -0.94 – -0.02 | .057  |                                     |               |       |                                     |               |       |
| dat\$sed_inside_prim           |                                     |               |       |                                     |             |      |                                     |               |       |                                     |               |       |                                     |               |       | -0.38                               | -0.69 – -0.08 | .025  |                                     |               |       |                                     |               |       |
| dat\$light_atten               |                                     |               |       |                                     |             |      |                                     |               |       |                                     |               |       |                                     |               |       | 2.60                                | -0.37 – 5.57  | .105  |                                     |               |       |                                     |               |       |
| log(epiphmass_shootmass)       |                                     |               |       |                                     |             |      |                                     |               |       |                                     |               |       |                                     |               |       |                                     |               |       | -0.39                               | -0.71 – -0.08 | .023  |                                     |               |       |
| Observations                   | 21                                  |               |       | 21                                  |             |      | 21                                  |               |       | 21                                  |               |       | 21                                  |               |       | 21                                  |               |       | 21                                  |               |       | 21                                  |               |       |
| Pseudo-R <sup>2</sup>          | R <sup>2</sup> <sub>CS</sub> = .803 |               |       | R <sup>2</sup> <sub>CS</sub> = .312 |             |      | R <sup>2</sup> <sub>CS</sub> = .475 |               |       | R <sup>2</sup> <sub>CS</sub> = .731 |               |       | R <sup>2</sup> <sub>CS</sub> = .789 |               |       | R <sup>2</sup> <sub>CS</sub> = .480 |               |       | R <sup>2</sup> <sub>CS</sub> = .244 |               |       | R <sup>2</sup> <sub>CS</sub> = .299 |               |       |
|                                | R <sup>2</sup> <sub>N</sub> = .885  |               |       | R <sup>2</sup> <sub>N</sub> = .390  |             |      | R <sup>2</sup> <sub>N</sub> = .475  |               |       | R <sup>2</sup> <sub>N</sub> = .919  |               |       | R <sup>2</sup> <sub>N</sub> = 1.195 |               |       | R <sup>2</sup> <sub>N</sub> = .501  |               |       | R <sup>2</sup> <sub>N</sub> = .261  |               |       | R <sup>2</sup> <sub>N</sub> = .307  |               |       |
|                                | D = 1.137                           |               |       | D = .265                            |             |      | D = 24.780                          |               |       | D = .718                            |               |       | D = .590                            |               |       | D = .189                            |               |       | D = .317                            |               |       | D = .324                            |               |       |