**Table 1**. Functional groups, species, classification criteria and input parameters sources for the kelp forest ecosystem model for Isla Natividad, Mexico. Inputs parameters are Biomass (B), production-Biomass ratio (P/B) and consumption-biomass ratio (Q/B) whist Trophic level (TL), Ecotrophic Efficiency (EE) and the Consumption Production Ratio (PQ) were calculated by the program. The classification criteria is: 1. FG formed by species of fishing importance, 2. FG of a single species to give better resolution to the model, 3. FG of species of the same genus, 4. FG of species with similar behavior and / or similar feeding, 5. FG added to have a more representative model.

| Group name | Classification | Trophic level | Biomass (t·km-²) | P/B (y-1) | Q/B (y-1) | EE | P/Q (y-1) |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sea birds | 5 | 3.39 | 0.01 | 0.31 | 4.50 | 0.02 | 0.07 |
| Marine mammals | 5 | 3.72 | 0.04 | 0.16 | 9.00 | 0.00 | 0.02 |
| Lingcod | 2 | 3.49 | 0.13 | 0.31 | 1.70 | 0.01 | 0.18 |
| Giant sea bass | 2 | 3.74 | 0.51 | 0.31 | 1.70 | 0.05 | 0.18 |
| Elasmobranchia | 4 | 3.46 | 0.22 | 0.20 | 2.10 | 0.01 | 0.10 |
| Sheepheads | 2 | 2.89 | 12.36 | 0.57 | 3.20 | 0.06 | 0.18 |
| Ocean whitefish | 2 | 2.81 | 1.82 | 0.18 | 6.50 | 0.30 | 0.03 |
| Cabezon | 2 | 3.10 | 0.02 | 0.54 | 4.50 | 0.46 | 0.12 |
| Rockfishe | 3 | 3.12 | 0.11 | 0.25 | 4.15 | 0.63 | 0.06 |
| Kelp bass | 3 | 3.13 | 0.99 | 0.19 | 3.70 | 0.57 | 0.05 |
| Garibaldi | 2 | 2.44 | 2.99 | 0.47 | 6.20 | 0.26 | 0.08 |
| Blacksmith | 2 | 2.92 | 1.64 | 1.07 | 7.30 | 0.26 | 0.15 |
| Surfperch/Sargos | 4 | 2.68 | 1.48 | 0.57 | 4.10 | 0.16 | 0.14 |
| Opaleye | 2 | 2.32 | 2.91 | 0.43 | 9.70 | 0.17 | 0.04 |
| Señoritas | 4 | 2.71 | 0.66 | 0.65 | 5.56 | 0.00 | 0.12 |
| Macrocrustaceans | 2 | 2.31 | 0.43 | 2.89 | 9.78 | 0.54 | 0.30 |
| Sessile invertebrates | 5 | 2.00 | 6.87 | 2.23 | 8.86 | 0.82 | 0.25 |
| Pink abalone | 1 | 2.00 | 13.43 | 0.31 | 3.50 | 0.89 | 0.09 |
| Green abalone | 1 | 2.00 | 6.50 | 0.19 | 3.50 | 0.89 | 0.05 |
| Other abalone | 3 | 2.00 | 0.27 | 0.31 | 3.50 | 0.48 | 0.09 |
| Sea snails | 1 | 2.00 | 9.60 | 1.48 | 5.00 | 0.48 | 0.30 |
| Mobile invertebrates | 5 | 2.22 | 5.28 | 1.69 | 9.51 | 0.70 | 0.18 |
| Octopus | 3 | 3.03 | 0.03 | 1.39 | 6.76 | 0.87 | 0.21 |
| Lobster | 1 | 2.86 | 2.58 | 0.99 | 4.20 | 0.78 | 0.24 |
| Sea cucumber | 1 | 2.00 | 2.66 | 0.70 | 4.50 | 0.81 | 0.16 |
| Sea star | 4 | 2.72 | 0.11 | 0.52 | 3.24 | 0.66 | 0.16 |
| Purple sea urchin | 2 | 2.46 | 1.26 | 3.75 | 12.50 | 0.68 | 0.30 |
| Black sea urchin | 2 | 2.22 | 1.24 | 3.75 | 12.50 | 0.84 | 0.30 |
| Red sea urchin | 1 | 2.05 | 1.50 | 3.75 | 12.50 | 0.76 | 0.30 |
| Small invertebrates | 5 | 2.08 | 9.88 | 3.41 | 14.00 | 0.88 | 0.24 |
| Coralline incrusted algae | 4 | 1.00 | 6.60 | 5.90 | 0.00 | 0.90 |  |
| Brown algae | 4 | 1.00 | 2.32 | 17.63 | 0.00 | 0.90 |  |
| Sargassum | 3 | 1.00 | 0.80 | 12.00 | 0.00 | 0.90 |  |
| Green algae | 4 | 1.00 | 0.05 | 16.70 | 0.00 | 0.90 |  |
| Red algae | 3 | 1.00 | 2.93 | 17.63 | 0.00 | 0.90 |  |
| M.pyrifera | 1 | 1.00 | 85.12 | 4.71 | 0.00 | 0.24 |  |
| Eklonia arborea | 2 | 1.00 | 8.80 | 7.18 | 0.00 | 0.90 |  |
| Zooplancton | 5 | 2.00 | 20.00 | 9.50 | 42.50 | 0.20 | 0.22 |
| Fitopláncton | 5 | 1.00 | 35.00 | 52.00 | 0.00 | 0.48 |  |