Supporting Table S1. Literature conversion values and sources for wet weight to % organic carbon .The conversion from g organic carbon to energy units, as required in the production model used was 46 kj/g organic carbon [3],[2],[8].

|  |  |  |
| --- | --- | --- |
| **General faunal groups** | **% organic carbon (from wet weight)** | **Reference** |
|  Actinaria | 6.3 | [1] |
| Anthozoa (general) | 6.9 | [2] |
| Octocorals | 5.87 | [3] |
| Anemones | 7.46 | [3] |
| *Cerianthiopsis americanus* | 5.24 | [4] |
|  Brachiopoda | 5.43 | [3] |
|  Bryozoa | 3.65 | [5], [6], [2] |
|  Bivalvia | 2.75 | [7], [8], [2] |
| *Clinocardium ciliatum* | 1.5 | [5],[6] |
| Opisthobranch - shelled | 6.9 | [5],[6] |
| Opisthobranch-non shelled | 8.58 | [5] |
| Prosobranchia | 3.4 | [9] |
| Crustacea (general) | 8 | [2] |
| Amphipoda | 4.5 | [9], [4] |
| *Ampelisca abdita* | 6.48 | [4] |
| *Corophium sp* | 2.03 | [4] |
| *Jassa pelagica* | 7.14 | [4] |
| *Leptocheirus pinguis* | 4.08 | [4] |
|  Cirripedia | 1.95 | [2] |
|  Cumacea | 3.75 | [2] |
|  Decapoda | 9 | [2] |
|  Isopoda | 7.1 | [5], [6], [2] |
|  Leptostraca | 7.5 | [7] |
|  Mysidacea | 7.75 | [5], [6] |
|  Ostracoda | 6 | [10] |
|  Tanaidacea | 2.9 | [9] |
|  Miscellaneous crustacea | 8.45 | [2] |
|  Hirudinea | 6.5 | [11] |
|  Hydrozoa | 2.3 | [9] |
| **Echinodermata** |   |   |
|  Asteroidea | 6.2 | [2] |
|  Echinoidea | 2.45 | [2] |
|  Holothuroidea | 5.6 | [2] |
|  Ophiuroidea | 4.5 | [2] |
| Echiura  | 5.1 | [9] |
| Entoprocta | 3.65 | [5], [6], [2] |
|  Hemichordata | 3.8 | [12] |
|  Kinorhyncha | 11.6 | [2] |
|  Aplacophora | 5.7 | [9] |
|  Nemertea | 10 | [5], [6], [2] |
| Phoronida | 5.1 | [9] |
|  Platyhelminthes | 12.6 | [5], [6] |
|  Oligochaeta | 16.15 | [5], [6] |
| Polychaetes (general) | 5.1 | [9] |
|  Errantiate polychaetes | 8.5 | [5],[6], [8], [2] |
| *Nephtys incise* | 7.49 | [4] |
|  Sedentariate polychaetes | 7.25 | [5], [6], [8], [2] |
| *Mediomastus ambiseta* | 4.76 | [4] |
| *Streblospio benedicti* | 4.8 | [4] |
| *Polydora ligni* | 7.53 | [4] |
| *Chaetozone sp.* | 10.76 | [4] |
| *Ampharetidae* | 6.54 | [4] |
|  Polyplacophora | 13.6 | [5],[6] |
|  Pycnogonida | 10.4 | [1] |
|  Pogonophora | 5.1 | [9] |
|  Porifera | 3.75 | [2] |
|  Priapula | 3.25 | [5], [6], [2] |
|  Scaphopoda | 4 | [9] |
|  Sipuncula | 5.2 | [9], [2] |
|  Urochordata | 1.5 | [1], [2] |
| **Permanent meiofauna** |   |   |
|  Foraminifera | 2 | [10] |
|  Harpacticoida | 8 | [10] |
|  Nematoda | 9 | [10] |

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