**Appendix 2**. Length weight conversation relationship using power curves (*y=a\*xb*) of algae associated fauna. Fauna was ranked according to their overall percentage abundance (%Ab.) References used are given in the bibliography below (Açik, 2008; Anderson et al., 1998; Azeiteiro et al., 2001; Baumgärtner and Rothhaupt, 2003; Clark, 1975; Eklöf et al., 2017; Emam et al., 1992; Goodman, 1980; Herman and Heip, 1982; Kneib, 1992; Lasker et al., 1970; Robinson et al., 2010; Rosati et al., 2012; Vassilenko, 1991; Widbom, 1984). The original data and formulas on which the relationships were based on are provided in the associated excel spreadsheet.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Species** | **% Ab.** | **a** | **b** | **Adopted or modified from** | **Based on species/Taxa** | **Length measured** |
| Harpacticoida | 44.5 | 0.0047 | 2.1780 | Lasker et al. (1970) and Goodman (1980) | Grouped data & *Asellopsis intermedia* | Total length mm |
| Gastropoda | 11.6 | 0.0264 | 2.2950 | Rosati et al. (2012) | *Ecrobia ventrosa* & *Hydrobia* spp. | Total length mm |
| Amphipoda | 10.7 | 0.0056 | 2.4530 | Rosati et al. (2012) & Elkof et al (2016) | *Echinogammarus* spp., *Gammarus insensibilis* & *Gammarus* spp. | Total length mm |
| Bivalvia | 8.3 | 0.0049 | 2.9810 | Rosati et al. (2012) & Elkof et al (2016) | *Dreissena* sp., *Mytilus edulis* & *Limicola balthica* | Total length mm |
| Polychaeta | 6.5 | 0.0125 | 1.6400 | Rosati et al. (2012) | *Hediste diversicolor, Ficopomatus enigmaticus* & Nereididae | Total length mm |
| Ostracoda | 5.0 | 0.0166 | 1.9280 | Anderson et al (1998) & Herman & Heip (1982) | *Physocypria pustulosa*, *Cypridopsis vidua* & *Cyprideis torosa* | Total length mm |
| Caprellidae | 3.3 | 0.0039 | 2.4747 | Vassilenko (1991) | *Caprella cristibrachium, C. kroyeri, C. penantis* & *C. bispinosa* | Total length mm |
| Acari | 2.5 | 0.0829 | 1.7467 | Baumgartner &Rothhaupt (2003) | Hydracarina | Total length mm |
| Nematoda | 1.8 | 0.0056 | 1.1985 | Widbom (1984) | Nematoda | Total length mm |
| Isopoda | 1.3 | 0.0088 | 2.5960 | Rosati et al. (2012) | *Asellus sp., Lekanesphaera hookeri, Lekanesphaeran monodi* | Total length mm |
| Diptera | 1.1 | 0.0010 | 2.6671 | Rosati et al. (2012) | Ceratopogonidae, *Chironomus plumosus, Chironomus sp., Diamesinae, Stratiomyidae, Tabanidae & Tanypodinae* | Total length mm |
| Tanaidacea | 0.9 | 0.0027 | 2.8890 | Kneib et al. (1992) | *Hargeria rapax* | Total length mm |
| Amphiura | 0.8 | 0.1186 | 2.2760 | Robinson et al. (2010) | *Amphiura chiajei* | Disc diameter mm |
| Cumacea | 0.3 | 0.0022 | 2.4200 | Rosati et al. (2012) | Cumacea | Total length mm |
| Natantia | 0.3 | 0.0019 | 3.0330 | Robinson et al. (2010) | *Processa noveli holthusisi* | Total length mm |
| Galathea | 0.2 | 0.0896 | 2.6000 | Robinson et al. (2010) | *Galathe nexa* | Total length mm |
| Pantopoda | 0.2 | 0.0039 | 2.4747 | Non found | Used conversion of Caprellidae | Total length mm |
| Opisthobranchia | 0.1 | 0.0404 | 2.1937 | Clark et al. (1975) | *Alderia modesta, Polycera dubia & Polyerella emertoni* | Total length mm |
| Nudibranchia | 0.1 | 0.0404 | 2.1937 | Clark et al. (1975) | *Alderia modesta, Polycera dubia & Polyerella emertoni* | Total length mm |
| Sipunculidae | 0.1 | 0.0118 | 2.2300 | Acik (2008) | *Golfingia vulgaris, Aspidosiphon misakiensis & Phascolosoma agassizii* | Total length mm |
| Asteroidae | 0.0 | 0.0283 | 2.1930 | Robinson et al. (2010) | *Leptasterias muelleri* | Total length mm (arm tip to opposite arm tip) |
| Paguridae | 0.0 | 0.0155 | 2.6110 | Robinson et al. (2010) | *Pagurus bernhardus* | Total length mm |
| Alpheidae | 0.0 | 0.0319 | 2.1756 | Robinson et al. (2010) | *Calocaris macandreae* | Total length mm |
| Pisa | 0.0 | 0.1157 | 2.9140 | Robinson et al. (2010) | *Eurynome aspersa* | Width carapace |
| Portunidae | 0.0 | 0.0576 | 2.8750 | Robinson et al. (2010) | *Liocarcinus holsatus* | Width carapace |
| Macropodia | 0.0 | 0.2921 | 2.2900 | Robinson et al (2010) | *Macropida rostrata* | Width carapace |
| Echinoidea | 0.0 | 0.0700 | 2.1470 | Robinson et al (2010) | *Echinocyamus pusillus* | Total length |
| Decapoda | 0.0 | 0.0019 | 3.0330 | Robinson et al. (2010) | *Processa noveli holthusisi* | Total length |
| Polyplacophora | 0.0 | 0.1949 | 2.5244 | Emam et al. (1992) | *Acanthopleura spiniger* | Total length |
| Ethusidae | 0.0 | 0.1157 | 2.9140 | Robinson et al. (2010) | *Eurynome aspersa* | Width carapace |
| Majidae | 0.0 | 0.1157 | 2.9140 | Robinson et al. (2010) | *Eurynome aspersa* | Width carapace |
| Mysidacea | 0.0 | 0.0020 | 3.0298 | Azeiteiro et al. (2001) | *Mesopodopsis slabberi* | Total length |
| Platyhelminthes | 0.0 | 0.0404 | 2.1937 | Non found | Used conversion of Nudibranchia | Total length |
| Inachidae | 0.0 | 0.2658 | 2.5410 | Robinson et al. (2010) | *Inachus dosettensis* | Width carapace |
| Holothurioidea | 0.0 | 0.0118 | 2.2300 | Non found | Used conversion of Sipunculids | Total length |

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