**Supplement Table 1.** List of 139 copepod species and assigned traits with notes. References in numbers are in alphabet.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **No** | **SCIENTIFIC NAME** | **TROPHIC** | **FEEDING** | **SPAWNING** | **MAXIMUM Size (mm) [6][43][56]** | **TROPHIC Ref.** | **FEEDING Ref.** | **SPAWNING Ref.** |
| 1 | *Acartia (Acartia) danae* | Omnivore - Carnivore | Mixed | Broadcaster | 1.34 | [7];[43] | [5];[7];[22];[44];[53] | [7];[19];[32] |
| 2 | *Acartia (Acartia) negligens* | Herbivore - Omnivore | Mixed | Broadcaster | 2.7 | [7];[43] | [5];[7];[22];[53] | [7];[19];[12] |
| 3 | *Acartia (Odontacartia) amboinensis* | NA | Mixed (Current & Ambush) | Broadcaster | 1.47 | NA | [11] | [14];[9] |
| 4 | *Acartia (Odontacartia) erythraea* | Omnivore | Mixed (Current & Ambush) | Broadcaster | 1.5 | [42] | [11] | [14];[9] |
| 5 | *Acartia (Odontacartia) pacifica* | NA | Mixed (Current & Ambush) | Broadcaster | 1.35 | NA | [11] | [14];[9] |
| 6 | *Acrocalanus gibber* | NA | Active ambush | Broadcaster | 1.4 | NA | [11] | [47] |
| 7 | *Acrocalanus gracilis* | Herbivore - Omnivore | Active ambush | Broadcaster | 1.8 | [30];[42];[52] | [11];[52] | [18];[29] |
| 8 | *Acrocalanus longicornis* | Herbivore | Current feeding | Broadcaster | 1.55 | [52] | [52] | [13] |
| 9 | *Acrocalanus monachus* | Herbivore | Current feeding | NA | 1.1 | [52] | [52] | NA |
| 10 | *Aetideus giesbrechti* | Carnivore | Active ambush | Broadcaster | 2.2 | [6];[26] | [3];[6] | [32] |
| 11 | *Aetideus* sp | Carnivore | Active ambush | Broadcaster; uncertain | 2.2 | [6] | [6] | [6] NA |
| 12 | *Agetus flaccus* | Carnivore | Active ambush | Sac spawner | 1.67 | [6];[13];[26][44];[54] | [6];[12];[27] | [22];[6] |
| 13 | *Agetus limbatus* | Carnivore | Active ambush | Sac spawner | 1.89 | [6];[13];[26][44];[54] | [6];[12];[27] | [22];[6] |
| 14 | *Bestiolina* sp | NA | NA | NA |  | NA | NA | NA |
| 15 | *Calanopia elliptica* | Omnivore | Current feeding | Broadcaster; uncertain | 2.1 | [6] | [6] | [6] NA |
| 16 | *Calanopia minor* | NA | Active (current feeding) | NA | 1.4 | NA | [18];[35] | NA |
| 17 | *Calanus sinicus* | NA | Current feeding | Broadcaster | 3.6 | NA | [5] | [9] |
| 18 | *Calocalanus pavo* | Herbivore - Omnivore | Current feeding | Broadcaster | 1.4 | [26];[44] | [43];[40] | [13] |
| 19 | *Calocalanus pavoninus* | Herbivore - Omnivore | Current feeding | Broadcaster | 0.97 | [26] | [40] | [7] |
| 20 | *Calocalanus plumulosus* | Herbivore - Omnivore | Current feeding | NA | 1.34 | [26] | [43];[40] | NA |
| 21 | *Calocalanus styliremis* | Herbivore - Omnivore | Current feeding | Broadcaster | 0.95 | [26] | [40] | [7] |
| 22 | *Candacia bradyi* | Carnivore | Active ambush | NA | 2.1 | [6] | [11] | NA |
| 23 | *Candacia catula* | Carnivore | Piercing - Sucking | Broadcaster | 1.7 | [52] | [52] | [9] |
| 24 | *Candacia curta* | Carnivore | Piercing - Sucking | Broadcaster | 2.9 | [52] | [52] | [9] |
| 25 | *Candacia discaudata* | Carnivore | Active ambush | NA | 1.94 | [6] | [11] | NA |
| 26 | *Candacia pachydactyla* | Carnivore | Active ambush | Broadcaster | 3.4 | [52] | [11] | [13] |
| 27 | *Candacia truncata* | Carnivore | Piercing - Sucking | Broadcaster | 2.3 | [52] | [52] | [9] |
| 28 | *Canthocalanus pauper* | Herbivore | Current feeding | NA | 2.04 | [52] | [11] | NA |
| 29 | *Centropages furcatus* | Omnivore - Carnivore | Mixed | Broadcaster | 1.92 | [12];[43];[44] | [5];[12] | [19];[32] |
| 30 | *Centropages gracilis* | Omnivore | Mixed | Broadcaster | 2.16 | [52] | [11] | [19] |
| 31 | *Centropages longicornis* | Omnivore | Mixed | Broadcaster | 2 | [6] | [11] | [19] |
| 32 | *Centropages orsinii* | Omnivore | Mixed | Broadcaster | 1.17 | [2] | [11] | [19] |
| 33 | *Centropages sinensis* | Omnivore | Mixed | Broadcaster | 1.5 | [6] | [11] | [19] |
| 34 | *Centropages tenuiremis* | Omnivore | Mixed | Broadcaster | 2 | [42] | [11] | [19] |
| 35 | *Chiridius gracilis* | NA | Active ~~ambush~~ | Sac spawner | 3.1 | NA | [11] | [25] |
| 36 | *Chiridius poppei* | Omnivore | Cruise | Broadcaster | 2.45 | [8];[38] | [38] | [8] |
| 37 | *Clausocalanus arcuicornis* | Herbivore - Omnivore | Current feeding | Sac spawner | 1.62 | [26];[43];[44] | [41] | [46] |
| 38 | *Clausocalanus furcatus* | Herbivore - Omnivore | Current feeding | Sac spawner | 1.75 | [26];[45] | [41] | [32];[46] |
| 39 | *Clausocalanus pergens* | Herbivore - Omnivore | Cruise | Sac spawner | 1.1 | [26] | [41];[45] | [46] |
| 40 | *Clytemnestra scutellata* | NA | NA | Sac spawner | 1.12 | NA | NA | [14] |
| 41 | *Copilia mirabilis* | Carnivore | Active ambush | NA | 6.61 | [42] | [11] | NA |
| 42 | *Corycaeus crassiusculus* | NA | Active ambush | Sac spawner | 2 | NA | [11] | [14] |
| 43 | *Corycaeus* sp | Carnivore | Active ambush | Sac spawner; uncertain |  | [52] | [11] | [14] |
| 44 | *Corycaeus speciosus* | Carnivore | Active ambush | Sac spawner | 2.55 | [26];[45];[54] | [12];[27] | [22] |
| 45 | *Cosmocalanus darwinii* | Herbivore | Current feeding | NA | 2.58 | [52] | [52] | NA |
| 46 | *Ctenocalanus vanus* | Herbivore | Current feeding | Broadcaster | 1.95 | [6];[44] | [6] | [32] |
| 47 | *Dioithona rigida* | Omnivore - Detritivore | Active ambush | Sac spawner | 1 | [6] | [11] | [14] |
| 48 | *Distioculus minor* | Omnivore | Active ambush | Sac spawner | 1.74 | [30] | [30] | [22];[30] |
| 49 | *Ditrichocorycaeus andrewsi* | Carnivore | Active ambush | Sac spawner | 1.07 | [52] | [11] | [14];This study |
| 50 | *Ditrichocorycaeus asiaticus* | Carnivore | Active ambush | Sac spawner | 1.4 | [52] | [11] | [14] |
| 51 | *Ditrichocorycaeus dahli* | Carnivore | Active ambush | Sac spawner | 1.21 | [52] | [11] | [14] |
| 52 | *Ditrichocorycaeus erythraeus* | Carnivore | Active ambush | Sac spawner | 1.12 | [52] | [11] | [14] |
| 53 | *Ditrichocorycaeus lubbocki* | Carnivore | Active ambush | Sac spawner | 1.03 | [52] | [11] | [14] |
| 54 | *Euchaeta concinna* | Carnivore | Siezing- Masticating | Sac spawner | 3.75 | [52] | [52] | [29] |
| 55 | *Euchaeta indica* | Carnivore | Siezing- Masticating | Sac spawner | 3 | [52] | [11];[52] | [29] |
| 56 | *Euchaeta longicornis* | Carnivore | Siezing-Masticating Cruise / Current | Sac spawner | 3.32 | [52]; [26] | [26];[43]; [52] | [29] |
| 57 | *Euchaeta marina* | Carnivore | Cruise / Current | Sac spawner | 3.9 | [6];[8];[26];[43] | [6] | [8];[10] |
| 58 | *Euchirella amoena* | NA | NA | Sac spawner | 4 | NA | NA | [29] |
| 59 | *Euterpina acutifrons* | Herbivore - Omnivore | Passive | Sac spawner | 0.86 | [10];[26];[45] | [11] | [22] |
| 60 | *Farranula carinata* | Carnivore | Cruise | Sac spawner | 0.98 | [9] | [16] | [22] |
| 61 | *Farranula concinna* | NA | Passive | Sac spawner | 1.04 | NA | [11] | [14] |
| 62 | *Farranula gibbula* | NA | Passive | Sac spawner | 1.1 | NA | [11] | [14] |
| 63 | *Farranula rostrata* | Carnivore | Cruise | Sac spawner | 0.9 | [9] | [16] | [22] |
| 64 | *Haloptilus longicornis* | Omnivore - Carnivore | Cruise | NA | 2.63 |  [6];[8];[26] | [6] | NA |
| 65 | *Haloptilus ornatus* | Omnivore - Carnivore | Cruise | Sac spawner | 5.33 | [6];[8];[26] | [6] | [7] |
| 66 | *Heterorhabdus papilliger* | Carnivore | Current feeding | Broadcaster | 2.65 | [8];[26];[33] | [11] | [9] |
| 67 | *Kelleria* sp | NA | Passive | Sac spawner; uncertain |  | NA | [11] | [14] |
| 68 | *Labidocera acuta* | Carnivore | Active (current feeding) | Broadcaster | 3.6 | [42] | [11] | [11] |
| 69 | *Labidocera detruncata* | NA | Active (current feeding) | Broadcaster | 2.8 | NA | [35] | [11] |
| 70 | *Labidocera laevidentata* | NA | Active (current feeding) | Broadcaster | 2.36 | NA | [35] | [11] |
| 71 | *Labidocera minuta* | NA | Active (current feeding) | Broadcaster | 2.26 | NA | [35] | [11] |
| 72 | *Longipedia weberi* | NA | NA | Sac spawner; uncertain | 1 | NA | NA | This study |
| 73 | *Lubbockia squillimana* | Carnivore | Active ambush | Sac spawner | 2.5 | [6] | [6] | [22] |
| 74 | *Lucicutia flavicornis* | Herbivore - Omnivore | Current feeding | NA | 2.5 | [8];[26];[43];[57] | [43] | This study |
| 75 | *Lucicutia ovalis* | Herbivore - Omnivore | Current feeding | NA | 2 | [8];[43];[57] | [43] | This study |
| 76 | *Macrosetella gracilis* | Herbivore - Omnivore | Passive | Sac spawner | 1.8 | [26] | [6] | [22] |
| 77 | *Mecynocera clausi* | Herbivore - Omnivore | Active (cruise) | Sac spawner; uncertain | 1.3 | [6];[26];[43];[45] | [6];[11] | [6] NA |
| 78 | *Mesocalanus tenuicornis* | Herbivore - Omnivore | Current feeding | Broadcaster | 3.4 | [26];[57] | [4] | [32] |
| 79 | *Metacalanus aurivillii* | NA | NA | NA | 0.69 | NA | NA | NA |
| 80 | *Microsetella norvegica* | Omnivore - Detritivore | Cruise | Sac spawner | 0.76 | [1];[28];[36] | [28] | [22] |
| 81 | *Nannocalanus minor* | Herbivore - Omnivore | Current feeding | Broadcaster | 2.45 | [4];[26] | [4];[26];[43] | [32] |
| 82 | *Neocalanus gracilis* | Herbivore - Omnivore | Current feeding | Broadcaster | 4.4 | [4];[26] | [4];[26];[43] | [32] |
| 83 | *Oithona attenuata* | Omnivore - Detritivore | Active ambush | Sac spawner | 1.78 | [6] | [11] | [14] |
| 84 | *Oithona brevicornis* | Omnivore - Detritivore | Active ambush | Sac spawner | 0.79 | [17];[54] | [23];[24];[39];[41] | [22] |
| 85 | *Oithona fallax* | Omnivore - Detritivore | Active ambush | Sac spawner | 1.01 | [6] | [11] | [14] |
| 86 | *Oithona nana* | Omnivore - Detritivore | Active ambush | Sac spawner | 0.95 | [17];[54] | [23];[24];[39];[41] | [22] |
| 87 | *Oithona plumifera* | Omnivore - Detritivore | Active ambush | Sac spawner | 1.54 | [17];[54] | [23];[24];[39];[41] | [22] |
| 88 | *Oithona robusta* | Omnivore - Detritivore | Active ambush | Sac spawner | 1.65 | [6] | [11] | [14] |
| 89 | *Oithona setigera* | Omnivore - Detritivore | Active ambush | Sac spawner | 2 | [17];[54] | [23];[24];[39];[41] | [22] |
| 90 | *Oithona simplex* | Omnivore - Detritivore | Active ambush | Sac spawner | 0.47 | [6] | [11] | [14] |
| 91 | *Oithona tenuis* | Omnivore - Detritivore | Active ambush | Sac spawner | 1.37 | [17];[54] | [23];[24];[39];[41] | [22] |
| 92 | *Oncaea clevei* | Omnivore (Detritus mainly) | Cruise | Sac spawner; uncertain | 0.76 | [6] | [6] | [6] NA |
| 93 | *Oncaea media* | Omnivore - Detritivore | Cruise | Sac spawner | 1 | [1];[36];[50];[54] | [15];[39] | [22] |
| 94 | *Oncaea mediterranea* | Omnivore - Detritivore | Cruise | Sac spawner | 1.6 | [1];[36];[50];[54] | [15];[39] | [22] |
| 95 | *Oncaea* sp | Omnivore | Cruise | Sac spawner; uncertain |  | [6] | [6] | [14] |
| 96 | *Oncaea venusta* | Omnivore - Detritivore | Cruise | Sac spawner | 1.7 | [1];[36];[50];[54] | [15];[39] | [22] |
| 97 | *Onychocorycaeus agilis* | NA | Active ambush | Sac spawner | 1.4 | NA | [11] | [14] |
| 98 | *Onychocorycaeus catus* | Carnivore | Active ambush | Sac spawner | 1.18 | [2] | [11] | [14] |
| 99 | *Onychocorycaeus pacificus* | NA | Active ambush | Sac spawner | 1.22 | NA | [11] | [14] |
| 100 | *Paracalanus aculeatus* | Herbivore | Current feeding | Broadcaster | 1.45 | [52] | [11];[52] | [13] |
| 101 | *Paracalanus denudatus* | Herbivore - Omnivore | Current feeding | Broadcaster | 0.96 | [8] | [26];[40];[43];[53] | [25] |
| 102 | *Paracalanus gracilis* | Herbivore - Omnivore | Current feeding | Broadcaster | 1.01 | [8];[26] | [26];[40];[43];[52];[53] | [20];[21];[22];[25] |
| 103 | *Paracalanus parvus* | Herbivore - Omnivore | Current feeding | Broadcaster | 1.4 | [6];[7] | [6] | [6];[7] |
| 104 | *Paraeuchaeta russelli* | Carnivore | Active [cruise] | Sac spawner | 4.38 | [48];[52] | [11];[52] | [29] |
| 105 | *Pareucalanus attenuatus* | Herbivore | Current feeding | Broadcaster; uncertain | 7.3 | [4];[6] | [4];[6];[43] | [6] NA |
| 106 | *Pareucalanus parki* | NA | NA | NA | 7.17 | NA | NA | NA |
| 107 | *Parvocalanus crassirostris* | Omnivore | Current feeding | Broadcaster | 0.82 | [30] | [5] | [8] |
| 108 | *Phaenna* sp | NA | Active ambush | Broadcaster; uncertain |  | NA | [11] | [9] |
| 109 | *Pleuromamma abdominalis* | Omnivore | Current feeding | Broadcaster | 4.5 | [8];[26];[55] | [31] | [32] |
| 110 | *Pleuromamma borealis* | Omnivore | Current feeding | Broadcaster | 2.5 | [8] | [31] | [32] |
| 111 | *Pleuromamma gracilis* | Omnivore | Current feeding | Broadcaster | 2.55 | [8];[43];[45] | [31] | [20];[32] |
| 112 | *Pleuromamma robusta* | Omnivore | Current feeding | NA | 4.7 | [52] | [11] | NA |
| 113 | *Pontellina plumata* | Carnivore | Active ambush | Broadcaster | 1.94 | [6];[35] | [6];[35] | [9] |
| 114 | *Pontellopsis macronyx* | NA | Active | NA | 2.1 | NA | [35] | NA |
| 115 | *Rhincalanus cornutus* | Herbivore - Omnivore | Current feeding | Broadcaster | 4.16 | [3];[43];[55] | [43] | [32] |
| 116 | *Rhincalanus nasutus* | Herbivore - Omnivore | Current feeding | Broadcaster | 6.1 | [3];[4];[43] | [4] | [20] |
| 117 | *Sapphirina metallina* | Carnivore | Cruise | Sac spawner | 3 | [6];[51] | [6];[51] | [21] |
| 118 | *Sapphirina nigromaculata* | Carnivore | Cruise | Sac spawner | 4.15 | [6];[51] | [6];[51] | [21] |
| 119 | *Scolecithricella longispinosa* | Omnivore - Detritivore | Current feeding | NA | 1.2 | [52] | [6];[11] | This study |
| 120 | *Scolecithricella nicobarica* | Omnivore - Detritivore | Current feeding | NA | 1.5 | [52] | [6];[11] | This study |
| 121 | *Scolecithrix bradyi* | Omnivore - Detritivore | Cruise | Broadcaster | 1.6 | [8];[34];[36];[43] | [6] | [32] |
| 122 | *Scolecithrix danae* | Omnivore - Detritivore | Cruise | Sac/Broad; uncertain | 2.52 | [6];[8];[34];[36];[43] | [6] | [6];[49] |
| 123 | *Scolecitrichopsis ctenopus* | NA | Active ambush | Broadcaster | 1.9 | NA | [11] | [9] |
| 124 | *Subeucalanus crassus* | Herbivore - Omnivore | Current feeding | Broadcaster; uncertain | 4.6 | [4];[43] | [4];[6];[43] | [14] |
| 125 | *Subeucalanus subcrassus* | NA | Current feeding | NA | 2.92 | NA | [11] | NA |
| 126 | *Subeucalanus subtenuis* | Herbivore | Current feeding | NA | 3.7 | [52] | [11] | NA |
| 127 | *Temora discaudata* | Omnivore | Current feeding | Broadcaster | 2.05 | [42] | [11] | [47] |
| 128 | *Temora turbinata* | Herbivore - Omnivore | NA | Broadcaster | 1.71 | [2];[42] | NA | [14] |
| 129 | *Temoropia mayumbaensis* | NA | NA | NA | 1.17 | NA | NA | NA |
| 130 | *Tortanus (Tortanus) gracilis* | Carnivore | NA | NA | 2.1 | [42] | NA | NA |
| 131 | *Triconia conifera* | Omnivore - Detritivore | Cruise | Sac spawner | 1.5 | [6];[37] | [6] | [6];[21] |
| 132 | *Triconia dentipes* | Omnivore - Detritivore | Cruise | Sac spawner | 0.57 | [6];[37] | [6] | [6];[21] |
| 133 | *Triconia minuta* | Omnivore - Detritivore | Cruise | Sac spawner | 0.76 | [6];[37] | [6] | [6];[21] |
| 134 | *Triconia similis* | Omnivore | Cruise | Sac spawner | 1.2 | [6];[37] | [6] | [6];[21] |
| 135 | *Undeuchaeta plumosa* | Carnivore | Current feeding | Sac spawner | 4.65 | [44] | [11] | [29] |
| 136 | *Undinula vulgaris* | Omnivore | Current feeding | Broadcaster | 3.25 | [2] | [11] | [29] |
| 137 | *Urocorycaeus furcifer* | Carnivore | Active ambush | Sac spawner; uncertain | 2.1 | [6];[57] | [6] | This study |
| 138 | *Urocorycaeus lautus* | Carnivore | Active ambush | Sac spawner; uncertain | 1.18 | [6] | [11] | This study |
| 139 | *Urocorycaeus longistylis* | Carnivore | Active ambush | Sac spawner | 3.04 | [44] | [11] | [14] |

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