Supplement 3: Calculation of ‘Hedges’ *d*’, standard deviation σd2, ‘weighted Hedges’ *d*’ and standard deviation σd+2 for each compartment biomass of the same sampling event (PD0.1, PD0.5, PD3, PD7).

Abbreviations of the compartment names are: MacC = macrofauna carnivores, MacDF = macrofauna deposit feeders, MacFSF = macrofauna filter/ suspension feeders, MacO = macrofauna omnivores, MegC = megafauna carnivores, MegDF = megafauna deposit feeders, MegFSF = megafauna filter/ suspension feeders, MegOF = megafauna omnivores, PolC = polychaete carnivores, PolOF = polychaete omnivores, PolSDF = polychaete surface deposit feeders, PolSF = polychaete suspension feeders, PolSSDF = polychaete subsurface deposit feeders.

Table part A: PD0.1

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Compart-ment name** | **ndist. sediment** | **nundist. sediment** | **|d|** | **σd2** | **|d+|** | **σd+2** | **1/σd2** | **d/σd2** | **d2/σd2** |
| Fish | 4 | 5 | 1.54 | 0.58 |  |  | 1.72 | -2.64 | 4.06 |
| MacC | 7 | 21 | 0.05 | 0.19 |  |  | 5.25 | 0.28 | 0.01 |
| MacDF | 7 | 21 | 0.56 | 0.20 |  |  | 5.10 | -2.84 | 1.58 |
| MacFSF | 7 | 21 | 1.64 | 0.24 |  |  | 4.19 | -6.89 | 11.33 |
| MacOF | 7 | 21 | 0.87 | 0.20 |  |  | 4.90 | 4.25 | 3.69 |
| MegC | 4 | 5 | 2.77 | 0.88 |  |  | 1.14 | -3.16 | 8.75 |
| MegDF | 4 | 5 | 2.45 | 0.78 |  |  | 1.28 | -3.13 | 7.66 |
| MegFSF | 4 | 5 | 1.23 | 0.53 |  |  | 1.87 | -2.31 | 2.85 |
| MegOF | 4 | 5 | 0.49 | 0.46 |  |  | 2.16 | -1.05 | 0.51 |
| PolC | 7 | 21 | 0.16 | 0.19 |  |  | 5.24 | -0.83 | 0.13 |
| PolOF | 7 | 21 | 1.46 | 0.23 |  |  | 4.37 | -6.39 | 9.34 |
| PolSDF | 7 | 21 | 0.61 | 0.20 |  |  | 5.07 | -3.12 | 1.92 |
| PolSF | 7 | 21 | n.d. | n.d. |  |  | n.d. | n.d. | n.d. |
| PolSSDF | 7 | 21 | 1.47 | 0.23 |  |  | 4.37 | -6.41 | 9.41 |
|  |  |  |  |  | **0.73** | **0.02** | **46.66** | **-34.25** | **61.24** |

Table part B: PD0.5

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Compart-ment name** | **ndist. sediment** | **nundist. sediment** | **|d|** | **σd2** | **|d+|** | **σd+2** | **1/σd2** | **d/σd2** | **d2/σd2** |
| Fish | 3 | 4 | 1.50 | 0.74 |  |  | 1.34 | -2.01 | 3.02 |
| MacC | 8 | 22 | 0.02 | 0.17 |  |  | 5.87 | -0.15 | 0.00 |
| MacDF | 8 | 22 | 0.29 | 0.17 |  |  | 5.82 | -1.67 | 0.48 |
| MacFSF | 8 | 22 | 0.87 | 0.18 |  |  | 5.46 | -4.78 | 4.18 |
| MacOF | 8 | 22 | 0.14 | 0.17 |  |  | 5.86 | 0.80 | 0.11 |
| MegC | 3 | 4 | 2.46 | 1.02 |  |  | 0.98 | -2.42 | 5.96 |
| MegDF | 3 | 4 | 1.96 | 0.86 |  |  | 1.17 | -2.28 | 4.47 |
| MegFSF | 3 | 4 | 3.17 | 1.30 |  |  | 0.77 | -2.44 | 7.73 |
| MegOF | 8 | 4 | 0.78 | 0.40 |  |  | 2.50 | -1.95 | 1.52 |
| PolC | 8 | 22 | 0.24 | 0.17 |  |  | 5.83 | -1.42 | 0.35 |
| PolOF | 8 | 22 | 0.14 | 0.17 |  |  | 5.85 | -0.84 | 0.12 |
| PolSDF | 8 | 22 | 0.46 | 0.17 |  |  | 5.75 | -2.67 | 1.24 |
| PolSF | 8 | 22 | n.d. | n.d. |  |  | n.d. | n.d. | n.d. |
| PolSSDF | 8 | 22 | 1.17 | 0.19 |  |  | 5.18 | -6.04 | 7.04 |
|  |  |  |  |  | **0.53** | **0.02** | **52.37** | **-27.87** | **36.22** |

Table part C: PD3

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Compart-ment name** | **ndist. sediment** | **nundist. sediment** | **|d|** | **σd2** | **|d+|** | **σd+2** | **1/σd2** | **d/σd2** | **d2/σd2** |
| Fish | 4 | 4 | 2.07 | 0.77 |  |  | 1.30 | -2.70 | 5.60 |
| MacC | 9 | 20 | 0.70 | 0.17 |  |  | 5.90 | -4.11 | 2.86 |
| MacDF | 9 | 20 | 2.20 | 0.24 |  |  | 4.09 | -8.99 | 19.74 |
| MacFSF | 9 | 20 | 0.96 | 0.18 |  |  | 5.65 | -5.43 | 5.22 |
| MacOF | 9 | 20 | 0.13 | 0.16 |  |  | 6.20 | -0.81 | 0.11 |
| MegC | 4 | 4 | 2.44 | 0.87 |  |  | 1.15 | -2.80 | 6.81 |
| MegDF | 4 | 4 | 1.00 | 0.56 |  |  | 1.78 | -1.78 | 1.79 |
| MegFSF | 4 | 4 | 0.32 | 0.51 |  |  | 1.97 | -0.63 | 0.20 |
| MegOF | 4 | 4 | 0.57 | 0.52 |  |  | 1.92 | -1.09 | 0.62 |
| PolC | 9 | 20 | 0.64 | 0.17 |  |  | 5.95 | -3.80 | 2.42 |
| PolOF | 9 | 20 | 0.95 | 0.18 |  |  | 5.66 | -5.38 | 5.12 |
| PolSDF | 9 | 20 | 1.18 | 0.19 |  |  | 5.40 | -6.39 | 7.57 |
| PolSF | 9 | 20 | n.d. | n.d. |  |  | n.d. | n.d. | n.d. |
| PolSSDF | 9 | 20 | 0.75 | 0.17 |  |  | 5.85 | 4.41 | 3.32 |
|  |  |  |  |  | **0.75** | **0.02** | **52.81** | **-39.51** | **61.39** |

Table part D: PD7

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Compart-ment name** | **ndist. sediment** | **nundist. sediment** | **|d|** | **σd2** | **|d+|** | **σd+2** | **1/σd2** | **d/σd2** | **d2/σd2** |
| Fish | 4 | 4 | 1.58 | 0.66 |  |  | 1.53 | -2.40 | 3.79 |
| MacC | 8 | 8 | 0.30 | 0.25 |  |  | 3.95 | -1.20 | 0.37 |
| MacDF | 8 | 8 | 0.85 | 0.27 |  |  | 3.67 | -3.13 | 2.68 |
| MacFSF | 8 | 8 | 2.67 | 0.47 |  |  | 2.12 | -5.65 | 15.08 |
| MacOF | 8 | 8 | 0.05 | 0.25 |  |  | 4.00 | 0.19 | 0.01 |
| MegC | 4 | 4 | 2.21 | 0.80 |  |  | 1.24 | -2.74 | 6.05 |
| MegDF | 4 | 4 | 1.23 | 0.59 |  |  | 1.68 | -2.06 | 2.53 |
| MegFSF | 4 | 4 | 1.37 | 0.62 |  |  | 1.62 | -2.22 | 3.03 |
| MegOF | 4 | 4 | 0.52 | 0.52 |  |  | 1.93 | 1.01 | 0.52 |
| PolC | 5 | 5 | 0.44 | 0.41 |  |  | 2.44 | -1.07 | 0.47 |
| PolOF | 5 | 5 | 0.84 | 0.44 |  |  | 2.30 | -1.94 | 1.64 |
| PolSDF | 5 | 5 | 0.77 | 0.43 |  |  | 2.33 | -1.79 | 1.38 |
| PolSF | 5 | 5 | n.d. | n.d. |  |  | n.d. | n.d. | n.d. |
| PolSSDF | 5 | 5 | 0.66 | 0.42 |  |  | 2.37 | 1.57 | 1.04 |
|  |  |  |  |  | **0.69** | **0.03** | **31.18** | **-21.45** | **38.58** |