

## Supplementary Information

### Epiblastic microhabitats for epibenthic organisms: a new inland water frontier for diatoms

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**Table S1** Species found on floating and dipped polystyrene (fPS, dPS), and of floating and dipped polyethylene (fPE, dPE), abundance, and relative frequency in bracket

| Species                           | fPS        | dPS        | fPE        | dPE        |
|-----------------------------------|------------|------------|------------|------------|
| <i>Achnanthes brevipes</i>        | 202 (0.70) | 4 (0.30)   | 68 (0.60)  | 39 (0.70)  |
| <i>Achnanthidium minutissimum</i> | 40 (0.20)  | 4 (0.10)   | 193 (0.20) |            |
| <i>Achnanthidium saprophilum</i>  | 83 (0.70)  | 37 (5)     | 36 (0.60)  | 35 (0.50)  |
| <i>Achnanthidium subatomus</i>    | 15 (0.10)  |            |            |            |
| <i>Achnanthidium exiguum</i>      | 1 (0.10)   |            |            |            |
| <i>Amphora coffeaeformis</i>      | 1 (0.10)   |            | 1 (0.10)   |            |
| <i>Amphora meridionalis</i>       |            |            | 1 (0.10)   |            |
| <i>Amphora vetula</i>             | 2 (0.10)   | 1 (0.10)   |            | 5 (0.10)   |
| <i>Anomoeneis sphaerophora</i>    | 38 (0.60)  | 14 (0.50)  | 78 (0.80)  | 77 (0.70)  |
| <i>Bacillaria paxillifera</i>     | 159 (0.90) | 537 (0.90) | 141 (0.70) | 512 (100)  |
| <i>Caloneis amphisbaena</i>       | 1 (0.10)   |            |            | 12 (0.20)  |
| <i>Caloneis bacillum</i>          | 2 (0.10)   |            |            |            |
| <i>Cocconeis neodiminuta</i>      |            |            |            | 1 (0.10)   |
| <i>Cocconeis pediculus</i>        |            |            | 2 (0.10)   |            |
| <i>Craticola buderi</i>           | 5 (0.30)   | 8 (0.30)   | 5 (0.30)   | 30 (0.30)  |
| <i>Craticula cuspidata</i>        |            |            |            | 2 (0.10)   |
| <i>Cyclotella comta</i>           | 148 (0.60) | 73 (0.30)  | 97 (0.50)  | 214 (0.70) |
| <i>Cyclotella meneghiniana</i>    | 61 (0.40)  | 45 (0.30)  | 51 (0.40)  | 74 (0.40)  |
| <i>Cymatopleura solea</i>         | 1 (0.10)   |            |            |            |
| <i>Cymbella compacta</i>          | 47 (0.20)  | 6 (0.20)   | 28 (0.30)  | 14 (0.10)  |
| <i>Cymbella excisa</i>            | 6 (0.30)   | 6 (0.20)   | 17 (0.20)  | 17 (0.40)  |
| <i>Cymbella parva</i>             | 15 (0.50)  | 6 (0.40)   | 13 (0.30)  | 6 (0.20)   |
| <i>Diatoma ehrenbergii</i>        |            | 1 (0.10)   | 4 (0.20)   |            |
| <i>Diatoma moniliformis</i>       | 1 (0.10)   |            |            | 1 (0.10)   |
| <i>Diatoma tenuis</i>             | 1 (0.10)   |            | 1 (0.10)   |            |
| <i>Diatoma vulgaris</i>           |            |            |            | 1 (0.10)   |
| <i>Diploneis parma</i>            | 2 (0.20)   |            | 1 (0.10)   | 7 (0.20)   |
| <i>Encyonema minutum</i>          | 37 (0.20)  | 32 (0.20)  | 12 (0.10)  | 8 (0.10)   |

|                                  |            |             |            |            |
|----------------------------------|------------|-------------|------------|------------|
| <i>Encyonema prostratum</i>      |            |             |            | 1 (0.10)   |
| <i>Encyonema silesiacum</i>      |            |             |            | 4 (0.10)   |
| <i>Epithemia adnata</i>          | 4 (0.30)   |             |            | 4 (0.40)   |
| <i>Epithemia sores</i>           |            |             |            | 1 (0.10)   |
| <i>Eucocconeis flexella</i>      | 1 (0.10)   | 2 (0.20)    |            | 2 (0.20)   |
| <i>Eunotia minor</i>             | 4 (0.30)   | 1 (0.10)    |            | 10 (0.30)  |
| <i>Eunotia pectinalis</i>        |            |             | 1 (0.10)   | 1 (0.10)   |
| <i>Fallacia pygmaea</i>          | 9 (0.50)   | 4 (0.30)    | 4 (0.20)   | 40 (0.60)  |
| <i>Fragilaria gracilis</i>       |            | 10 (0.10)   | 5 (0.20)   | 9 (0.10)   |
| <i>Fragillaria pectinalis</i>    |            | 4 (0.20)    |            |            |
| <i>Fragillaria pinnata</i>       | 1 (0.10)   | 2 (0.10)    |            |            |
| <i>Fragillaria rumpens</i>       | 37 (0.50)  | 21 (0.30)   | 22 (0.40)  | 109 (0.80) |
| <i>Gomphonema augur</i>          |            |             | 1 (0.10)   |            |
| <i>Gomphonema elegantissimum</i> |            | 2 (0.10)    | 3 (0.10)   |            |
| <i>Gomphonema italicum</i>       |            |             | 1 (0.10)   | 1 (0.10)   |
| <i>Gomphonema micropus</i>       |            |             | 1 (0.10)   |            |
| <i>Gomphonema minutum</i>        | 59 (0.30)  | 15 (0.60)   | 162 (0.50) | 10 (0.40)  |
| <i>Gomphonema pumilum</i>        | 21 (0.40)  | 17 (0.30)   | 11 (0.40)  | 67 (0.50)  |
| <i>Gomphonema subclavatum</i>    |            |             | 3 (0.10)   | 2 (0.10)   |
| <i>Gomphonema zellense</i>       | 110 (100)  | 154 (0.70)  | 174 (0.90) | 536 (100)  |
| <i>Gyrosigma sciotoense</i>      | 3 (0.30)   | 2 (0.20)    |            | 5 (0.40)   |
| <i>Halamphora normanii</i>       | 1 (0.10)   |             |            |            |
| <i>Halamphora veneta</i>         | 74 (0.40)  | 113 (0.40)  | 71 (0.40)  | 40 (0.40)  |
| <i>Hantzschia amhilepta</i>      | 1 (0.10)   | 1 (0.10)    | 1 (0.10)   |            |
| <i>Navicula antonii</i>          | 5 (0.20)   | 8 (0.10)    | 4 (0.20)   |            |
| <i>Navicula cari</i>             |            |             |            | 3 (0.10)   |
| <i>Navicula communis</i>         | 2 (0.10)   |             |            |            |
| <i>Navicula cryptocephala</i>    | 137 (0.90) | 59 (0.70)   | 178 (0.90) | 69 (100)   |
| <i>Navicula cryptotenella</i>    | 1 (0.10)   |             | 3 (0.10)   | 4 (0.10)   |
| <i>Navicula gregaria</i>         |            | 10 (0.20)   |            | 4 (0.10)   |
| <i>Navicula recens</i>           | 5 (0.10)   |             |            | 2 (0.10)   |
| <i>Navicula rostellata</i>       |            |             | 1 (0.10)   |            |
| <i>Navicula simulata</i>         |            | 2 (0.10)    |            |            |
| <i>Navicula tripunctata</i>      | 1002 (100) | 1116 (0.90) | 932 (100)  | 488 (100)  |
| <i>Navicula veneta</i>           | 29 (0.60)  | 9 (0.30)    | 5 (0.10)   | 19 (0.50)  |
| <i>Nitzschia amphibia</i>        | 2 (0.10)   | 1 (0.10)    | 2 (0.20)   | 2 (0.20)   |
| <i>Nitzschia angustatula</i>     | 10 (0.30)  | 32 (0.50)   | 27 (0.30)  | 13 (0.40)  |
| <i>Nitzschia capitellata</i>     | 2 (0.20)   |             | 6 (0.40)   | 2 (0.20)   |
| <i>Nitzschia communis</i>        | 11 (0.30)  | 5 (0.40)    | 5 (0.20)   | 9 (0.30)   |
| <i>Nitzschia constricta</i>      | 267 (0.90) | 271 (0.90)  | 274 (0.90) | 156 (100)  |

|                                     |            |            |            |            |
|-------------------------------------|------------|------------|------------|------------|
| <i>Navicula cuspidata</i>           | 1 (0.10)   |            |            |            |
| <i>Nitzschia dissipata</i>          | 7 (0.20)   | 13 (0.30)  | 15 (0.20)  | 3 (0.20)   |
| <i>Nitzschia dubia</i>              | 13 (0.40)  | 20 (0.60)  | 12 (0.30)  | 84 (0.80)  |
| <i>Nitzschia filiformis</i>         | 119 (0.60) | 135 (0.40) | 224 (0.50) | 132 (0.40) |
| <i>Nitzschia frustulum</i>          | 809 (0.90) | 456 (0.70) | 541 (0.90) | 529 (0.90) |
| <i>Nitzschia hungarica</i>          | 52 (0.50)  | 9 (0.40)   | 49 (0.70)  | 21 (0.60)  |
| <i>Nitzschia levidensis</i>         | 1 (0.10)   | 1 (0.10)   |            | 5 (0.20)   |
| <i>Nitzschia linearis</i>           | 27 (0.40)  | 93 (0.30)  | 18 (0.40)  | 117 (0.50) |
| <i>Nitzschia microcephala</i>       | 8 (0.30)   | 5 (0.10)   | 17 (0.20)  |            |
| <i>Nitzschia palea</i>              |            | 2 (0.20)   | 1 (0.10)   | 2 (0.10)   |
| <i>Nitzschia pusilla</i>            |            |            |            | 1 (0.10)   |
| <i>Nitzschia recta</i>              | 4 (0.10)   |            | 1 (0.10)   | 7 (0.30)   |
| <i>Nitzschia scalpelliformis</i>    | 2 (0.10)   |            | 2 (0.20)   |            |
| <i>Nitzschia sigma</i>              | 10 (0.10)  |            | 3 (0.20)   | 1 (0.10)   |
| <i>Nitzschia umbonata</i>           |            |            | 1 (0.10)   | 8 (0.10)   |
| <i>Planothidium frequentissimum</i> | 20 (0.20)  | 31 (0.40)  | 28 (0.30)  | 38 (0.50)  |
| <i>Planothidium rostratum</i>       | 1 (0.10)   | 1 (0.10)   | 1 (0.10)   | 3 (0.30)   |
| <i>Platessa hustedtii</i>           | 3 (0.10)   | 3 (0.10)   | 1 (0.10)   | 165 (0.10) |
| <i>Reimeria sinuata</i>             |            |            |            | 2 (0.10)   |
| <i>Rophalodia gibba</i>             |            |            | 1 (0.10)   | 1 (0.10)   |
| <i>Rophalodia musculus</i>          |            |            | 121 (0.10) |            |
| <i>Sellaphora bacillum</i>          |            |            |            | 5 (0.10)   |
| <i>Surirella brebissonii</i>        |            |            | 1 (0.10)   |            |
| <i>Surirella brightvelli</i>        | 3 (0.10)   | 1 (0.10)   |            | 1 (0.10)   |
| <i>Surirella ovalis</i>             | 1 (0.10)   | 4 (0.10)   | 3 (0.20)   | 2 (0.20)   |
| <i>Tabularia fasciculata</i>        | 4 (0.10)   |            |            |            |
| <i>Ulnaria acus</i>                 | 1 (0.10)   |            | 1 (0.10)   | 11 (0.30)  |
| <i>Ulnaria biceps</i>               |            |            | 1 (0.10)   |            |
| <i>Ulnaria ulna</i>                 | 24 (0.50)  | 8 (0.20)   | 29 (0.40)  | 25 (0.20)  |