

E. Rott, D. Gesierich, N. Binder  
Lebensraumtypen und Diversitätsgradienten  
lotischer Algen in einem Gletschereinzugsgebiet

Tab. A1:  
Gesamtartenliste der benthischen Algen an den untersuchten Probenstellen im Rotmoostal inkl. Einstufung der Arten; Rote Liste der Kieselalgen (RL) nach Lange-Bertalot (1996); Rote Liste der Zieralgen nach Lenzenweger (1999a); Trophiewerte (TW) nach Rott et al. (1999); 1 - vom Aussterben bedroht, 2 - stark gefährdet, 3 - gefährdet, G - Gefährdung anzunehmen, R - extrem selten, V - zurückgehend, \* - derzeit nicht als gefährdet anzusehen, \*\* - mit Sicherheit ungefährdet, • - im Gebiet zu erwarten, D - Daten mangelhaft (modifiziert aus: Gesierich, D. & E. Rott (2004) Benthic algae and mosses from aquatic habitats in the catchment of a glacial stream (Rotmoos, Ötztal, Austria). Ber. nat.-med. Ver. Innsbruck 91: 37-42.)

|                                  | RM lotic | RM Hydrurus | EKS | HSS | HFS | SKS | LGS | SW/S | SW/Sa | MUS | SBS | KKS | FEN pool | FEN sedge | FEN stream | FEN moss | FEN algae | TW   | RL |
|----------------------------------|----------|-------------|-----|-----|-----|-----|-----|------|-------|-----|-----|-----|----------|-----------|------------|----------|-----------|------|----|
| Cyanophyceae                     |          |             |     |     |     |     |     |      |       |     |     |     |          |           |            |          |           |      |    |
| <i>Ammatoidea normanni</i>       |          |             |     |     | X   |     |     |      |       |     | X   | X   |          |           | X          |          |           | 1,2  |    |
| <i>Ammatoidea simplex</i>        |          |             |     |     |     |     |     |      |       |     |     |     |          |           | X          |          |           | 1.2* |    |
| <i>Aphanocapsa</i> sp.           |          |             |     |     | X   |     |     | X    |       |     |     |     | X        |           |            |          |           |      |    |
| <i>Aphanothece saxicola</i>      |          |             |     |     |     |     |     |      |       |     |     | X   |          |           |            |          |           | 1,7  |    |
| <i>Aphanothece stagnina</i>      |          |             |     |     |     |     |     |      |       |     |     |     |          | X         |            |          |           |      |    |
| <i>Calothrix fusca</i>           |          |             |     | X   |     |     |     |      |       | X   | X   | X   |          |           | X          |          |           | 1,2  |    |
| <i>Calothrix</i> sp.             |          |             |     |     |     |     |     |      |       |     | X   |     |          |           |            |          |           |      |    |
| <i>Chamaesiphon fuscus</i>       |          |             |     |     |     |     |     | X    | X     |     | X   | X   |          |           |            |          |           | 0.7* |    |
| <i>Chamaesiphon incrustans</i>   |          |             |     | X   |     |     |     | X    |       |     |     | X   |          |           |            |          |           | 1.7* |    |
| <i>Chamaesiphon investiens</i>   |          |             |     |     |     |     |     | X    |       |     |     |     |          |           |            |          |           | 1.2* |    |
| <i>Chamaesiphon minutus</i>      |          | X           |     |     |     |     |     | X    | X     |     | X   |     |          |           |            |          |           | 0.6* |    |
| <i>Chamaesiphon polonicus</i>    |          |             |     |     | X   |     |     | X    | X     | X   | X   | X   |          |           | X          |          |           | 1.2* |    |
| <i>Chamaesiphon rostafinskii</i> |          |             |     |     |     |     |     |      |       | X   |     |     |          |           |            |          |           | 0.3* |    |
| <i>Chroococcus</i> sp.           |          |             |     |     |     |     |     |      |       |     |     |     | X        |           |            |          |           |      |    |
| <i>Clastidium rivulare</i>       |          |             |     |     |     |     |     | X    |       |     |     |     |          |           |            |          |           | 0.8* |    |
| <i>Clastidium setigerum</i>      |          |             |     |     |     |     |     | X    |       | X   |     | X   |          |           | X          |          |           | 0.4* |    |
| <i>Dichothrix gypsophila</i>     |          |             |     |     |     |     |     |      |       |     | X   |     |          |           |            |          |           | 1.2* |    |

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|---------------------------------|----------|-------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|----------|-----------|------------|----------|-----------|------|----|
| <i>Entophysalis</i> sp.         |          |             |     |     |     |     |     | X   |      |     |     |     |          |           |            |          |           |      |    |
| <i>Gloeocapsa alpina</i>        |          |             |     |     |     |     |     | X   |      | X   | X   |     |          |           |            |          | X         | 0,6  |    |
| <i>Gloeocapsa dermochroa</i>    |          |             |     |     |     |     |     | X   |      | X   | X   |     |          |           |            |          |           | 1.1* |    |
| <i>Gloeocapsa sanguinea</i>     |          |             |     |     | X   |     |     |     |      |     | X   |     |          |           |            |          | X         | 1,2  |    |
| <i>Homoeothrix fusca</i>        |          |             |     | X   |     |     |     |     |      | X   |     |     |          |           |            |          |           | 0,6  |    |
| <i>Homoeothrix gracilis</i>     |          |             |     |     |     |     |     | X   |      |     | X   | X   |          |           |            |          |           | 0.8* |    |
| <i>Homoeothrix janthina</i>     |          |             |     |     |     |     |     | X   | X    | X   |     |     |          |           |            |          |           | 1.5* |    |
| <i>Homoeothrix varians</i>      |          | X           |     | X   |     | X   | X   | X   | X    |     | X   | X   |          |           | X          |          |           | 1.4* |    |
| <i>Hydrococcus rivularis</i>    |          |             |     |     |     |     | X   |     |      |     |     |     |          |           |            |          |           | 1.7* |    |
| <i>Lyngbya martensiana</i>      |          |             |     |     |     |     |     |     |      |     | X   |     |          |           |            |          |           |      |    |
| <i>Nostoc</i> sp.               |          |             |     |     |     |     |     |     | X    |     | X   | X   | X        |           |            |          |           |      |    |
| <i>Oscillatoria sancta</i>      |          |             |     |     |     |     |     |     |      |     | X   |     |          |           |            |          |           | 3,5  |    |
| <i>Phormidium autumnale</i>     |          |             |     |     |     | X   |     | X   | X    | X   | X   | X   | X        |           |            |          |           | 1.7* |    |
| <i>Phormidium incrustatum</i>   |          |             |     |     |     |     |     |     |      |     | X   |     |          |           |            |          |           | 2.4* |    |
| <i>Phormidium subfuscum</i>     |          |             |     |     |     |     |     | X   |      |     | X   | X   |          |           |            |          |           | 1.6* |    |
| <i>Phormidium uncinatum</i>     |          |             |     |     |     |     |     |     |      |     | X   |     |          |           |            |          |           |      |    |
| <i>Pleurocapsa minor</i>        |          |             |     |     |     |     |     | X   |      |     | X   |     |          |           |            |          |           | 2.3* |    |
| <i>Pseudanabaena</i> sp.        |          |             |     | X   |     |     |     |     |      |     |     |     |          |           |            |          |           |      |    |
| <i>Schizothrix</i> sp.          |          |             |     |     |     |     |     | X   |      |     |     |     |          |           |            |          |           |      |    |
| <i>Siphononema polonicum</i>    |          |             |     |     |     |     |     |     |      |     | X   | X   |          |           |            |          |           | 0.6* |    |
| <i>Stigonema mamillosum</i>     |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          | X         | 0,3  |    |
| <i>Synechococcus</i> sp.        |          |             |     |     |     |     |     |     |      |     | X   |     |          |           |            |          |           |      |    |
| <i>Tolypothrix penicillata</i>  |          |             | X   |     |     |     |     |     | X    | X   | X   |     | X        | X         |            |          | X         | 0,6  |    |
| <i>Woronichinia</i> sp.         |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |      |    |
| <i>Xenococcus</i> sp.           |          |             |     |     |     |     |     |     |      | X   |     |     |          |           |            |          |           |      |    |
| <b>Chrysophyceae</b>            |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           |      |    |
| <i>Chrysocapsa</i> sp.          |          |             |     |     |     |     |     |     | X    |     |     |     |          |           |            |          |           |      |    |
| <i>Hydrurus foetidus</i>        | X        | X           |     | X   |     |     |     | X   |      |     |     | X   |          |           |            |          |           | 1.3* |    |
| <i>Phaeodermatium rivulare</i>  | X        | X           | X   |     |     | X   | X   | X   | X    | X   | X   | X   |          |           |            |          |           | 1.8* |    |
| <b>Diatomophyceae</b>           |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           |      |    |
| <i>Achmanthes altaica</i>       |          |             |     |     |     |     |     |     |      |     | X   |     |          |           |            | X        | X         | 1,7  | G  |
| <i>Achmanthes biasolettiana</i> | X        | X           | X   | X   |     |     |     |     |      | X   |     |     | X        | X         | X          |          |           | 1.3* | ** |
| <i>Achmanthes bioretii</i>      | X        | X           |     | X   |     |     |     | X   | X    |     |     |     | X        |           |            |          |           | 1,8  | V  |

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|--------------------------------------------------|----------|-------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|----------|-----------|------------|----------|-----------|------|----|
| <i>Achmanthes cf. grischuna</i>                  | X        |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           |      | *  |
| <i>Achmanthes cf. kryophila</i>                  |          | X           |     |     |     |     |     |     |      | X   |     |     | X        | X         | X          | X        | X         |      | 3  |
| <i>Achmanthes cf. saccula</i>                    | X        |             |     |     |     |     |     |     |      | X   |     |     | X        | X         | X          | X        | X         | 0,6  | .  |
| <i>Achmanthes cf. stewartii</i>                  |          |             | X   |     |     | X   |     | X   |      | X   |     |     |          |           |            |          |           |      | .  |
| <i>Achmanthes cf. subatomoides</i>               |          | X           | X   |     |     |     |     | X   |      |     |     |     | X        |           | X          | X        | X         | 2,1* | V  |
| <i>Achmanthes didyma</i>                         |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         | X          |          |           |      | 3  |
| <i>Achmanthes flexella</i>                       |          |             |     |     |     |     |     | X   |      |     |     |     | X        |           |            |          |           | 0,3  | 3  |
| <i>Achmanthes helvetica</i>                      | X        | X           | X   | X   | X   | X   |     | X   |      | X   |     | X   | X        | X         | X          | X        | X         | 0,6* | *  |
| <i>Achmanthes sp.</i>                            |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         | X          | X        | X         |      |    |
| <i>Achmanthes laevis</i>                         | X        | X           | X   |     | X   | X   | X   | X   |      | X   | X   |     |          |           |            |          | X         | 1,2  | *  |
| <i>Achmanthes lanceolata</i>                     | X        | X           |     | X   | X   |     |     |     |      |     | X   | X   |          |           |            |          |           | 3,3* | ** |
| <i>Achmanthes lanceolata ssp. frequentissima</i> | X        | X           |     | X   | X   |     |     |     |      |     |     |     |          |           |            |          |           | 2,8* | ** |
| <i>Achmanthes minutissima</i>                    | X        | X           | X   | X   | X   | X   | X   | X   | X    | X   | X   | X   | X        | X         | X          | X        | X         | 1,2* | ** |
| <i>Achmanthes minutissima var. jackii</i>        | X        |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           | 1,2  | D  |
| <i>Achmanthes petersenii</i>                     | X        | X           |     | X   |     | X   | X   | X   | X    | X   | X   |     |          | X         |            |          |           | 0,6  | 3  |
| <i>Achmanthes pusilla</i>                        |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           | 0,6  | 3  |
| <i>Achmanthes scotica</i>                        |          |             | X   | X   | X   | X   |     | X   |      | X   |     |     |          | X         | X          | X        | X         |      | R  |
| <i>Adlafia bryophila</i>                         | X        | X           |     |     | X   |     |     |     |      | X   |     |     | X        | X         | X          | X        | X         | 1,3  |    |
| <i>Adlafia minuscula</i>                         | X        | X           |     |     |     |     |     | X   |      |     | X   |     | X        |           |            |          |           | 1,1  |    |
| <i>Adlafia suchlandtii</i>                       |          |             | X   |     |     |     |     | X   |      |     | X   |     | X        | X         | X          | X        | X         | 0,6  | V  |
| <i>Amphipleura pellucida</i>                     |          |             |     |     |     |     | X   | X   |      |     |     |     |          |           |            |          |           | 2,1  | *  |
| <i>Amphora cf. veneta</i>                        |          |             |     |     |     |     |     |     |      |     | X   |     |          |           |            |          |           | 3,8  | ** |
| <i>Amphora inariensis</i>                        | X        | X           |     |     |     |     |     |     |      | X   | X   |     |          |           |            |          |           | 2,1* | 3  |
| <i>Amphora libyca</i>                            |          |             |     |     |     |     |     | X   |      |     |     |     |          |           |            |          |           | 3,5* | ** |
| <i>Amphora pediculus</i>                         | X        |             | X   | X   | X   |     |     | X   |      |     | X   | X   |          |           |            |          |           | 2,8* | ** |
| <i>Aulacosira sp.</i>                            |          |             |     |     |     |     |     |     |      | X   |     |     | X        | X         | X          | X        | X         |      |    |
| <i>Brachysira brebissonii</i>                    | X        | X           |     | X   | X   |     |     | X   |      |     |     |     | X        | X         | X          | X        | X         | 1,1  | *  |
| <i>Caloneis hyalina</i>                          |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |      |    |
| <i>Caloneis silicula</i>                         |          |             |     |     | X   | X   |     |     |      | X   |     |     | X        |           |            |          |           | 2,5  | *  |
| <i>Caloneis tenuis</i>                           |          | X           |     |     |     |     |     |     |      | X   | X   |     | X        | X         | X          | X        | X         | 1,1  | G  |
| <i>Cavinula cf. intractata</i>                   |          |             |     | X   | X   |     |     |     |      |     |     |     |          |           |            |          |           |      |    |
| <i>Chamaepinnularia mediocris</i>                |          |             |     |     |     |     |     |     |      |     |     | X   | X        | X         | X          | X        | X         | 0,6  | V  |

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|--------------------------------------------------------|----------|-------------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|----------|-----------|------------|----------|-----------|------|----|
| <i>Chamaepinnularia schauppiana</i>                    |          |             |     |     | X   |     |     |     |       |     |     |     | X        |           |            | X        | X         |      |    |
| <i>Cocconeis pediculus</i>                             | X        | X           | X   |     |     |     | X   | X   |       |     |     |     |          |           |            |          |           | 2,6* | ** |
| <i>Cocconeis placentula</i>                            |          |             |     | X   | X   | X   |     | X   |       | X   |     | X   |          |           | X          |          |           | 2,6* | ** |
| <i>Cyclotella</i> sp.                                  | X        | X           | X   |     | X   |     |     |     |       |     |     |     |          |           |            |          |           |      |    |
| <i>Cymbella affinis</i>                                | X        | X           |     | X   | X   |     |     | X   |       |     | X   |     |          |           | X          |          |           | 0,7* | *  |
| <i>Cymbella amphicephala</i>                           |          |             |     |     |     |     |     |     |       |     | X   |     |          |           |            |          |           | 1,1  | V  |
| <i>Cymbella aspera</i>                                 |          |             |     |     |     |     |     |     |       |     |     |     | X        |           |            |          |           | 1,7  | V  |
| <i>Cymbella cistula</i>                                |          |             |     |     | X   |     |     |     |       |     |     |     |          |           |            |          |           | 2,3  | V  |
| <i>Cymbella delicatula</i>                             | X        | X           |     |     |     |     |     |     |       |     |     |     |          |           | X          |          |           | 0,3* | G  |
| <i>Cymbella ehrenbergii</i>                            |          | X           |     |     |     |     |     |     |       |     |     |     |          |           |            |          |           | 2,2  | V  |
| <i>Cymbella naviculacea</i>                            |          |             |     |     |     |     |     |     |       |     |     |     | X        |           | X          | X        | X         |      | 3  |
| <i>Cymbella naviculiformis</i>                         | X        | X           |     |     |     |     |     |     |       |     |     |     | X        | X         | X          | X        |           | 1,8  | *  |
| <i>Cymbella subaequalis</i>                            | X        | X           |     |     | X   |     |     | X   | X     | X   | X   |     | X        | X         | X          | X        | X         | 1,0  | G  |
| <i>Cymbella subcuspidata</i>                           |          |             |     |     |     |     |     |     |       |     |     |     | X        | X         |            |          |           |      |    |
| <i>Denticula tenuis</i>                                | X        | X           |     | X   | X   | X   |     | X   |       |     | X   |     | X        |           | X          | X        |           | 1,4* | *  |
| <i>Diademes gallica</i> var. <i>perpusilla</i>         |          |             | X   | X   | X   | X   |     | X   |       | X   | X   | X   |          | X         | X          | X        | X         | 1,2  | ** |
| <i>Diatoma ehrenbergii</i>                             | X        |             |     |     |     |     |     | X   |       |     |     |     |          |           |            |          |           | 1,6* | ** |
| <i>Diatoma hyemalis</i>                                |          |             |     |     |     |     |     |     | X     |     |     |     |          |           |            |          |           | 1,0* | *  |
| <i>Diatoma mesodon</i>                                 | X        | X           | X   | X   | X   | X   | X   | X   | X     | X   | X   | X   |          | X         | X          | X        |           | 0,7* | *  |
| <i>Diatoma vulgaris</i>                                |          |             |     |     |     |     |     | X   |       |     | X   |     |          |           |            |          |           | 2,0  | D  |
| <i>Diploneis boldtiana</i>                             |          | X           |     |     |     |     |     |     |       |     |     |     |          |           |            |          |           |      | .  |
| <i>Diploneis</i> cf. <i>elliptica</i>                  |          |             |     |     |     |     |     |     |       |     | X   |     |          |           |            |          |           | 1,7  | *  |
| <i>Diploneis</i> cf. <i>petersenii</i>                 |          |             |     |     |     |     |     |     |       | X   |     |     |          | X         |            |          |           | 1,3  | 3  |
| <i>Diploneis marginestriata</i>                        |          |             |     |     |     |     |     |     |       |     | X   |     |          |           |            |          |           |      | 3  |
| <i>Diploneis marginulata</i>                           |          |             |     |     |     |     |     |     |       |     |     |     | X        |           |            |          |           |      |    |
| <i>Diploneis oblongella</i>                            |          |             |     |     |     |     |     |     |       |     | X   |     |          |           |            |          |           | 1,0  | V  |
| <i>Encyonema neogracile</i> var. <i>tenuipunctatum</i> |          |             |     |     |     |     |     |     |       |     |     |     |          |           |            |          | X         | 0,6  | 3  |
| <i>Encyonema alpina</i>                                | X        |             |     | X   |     |     |     |     |       |     | X   |     |          |           |            |          |           | 0,6  | G  |
| <i>Encyonema caespitosa</i>                            |          |             |     | X   | X   |     |     |     |       |     |     |     | X        |           |            |          |           | 2,1  | ** |
| <i>Encyonema</i> cf. <i>vulgare</i>                    |          |             |     |     |     |     |     |     |       |     |     |     | X        |           |            |          |           |      |    |
| <i>Encyonema falaisensis</i>                           | X        | X           |     | X   | X   | X   | X   |     |       | X   | X   |     | X        | X         | X          | X        | X         | 0,4* | G  |

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|                                                   | RM lotic | RM Hydrurus | EKS | HSS | HFS | SKS | LGS | SWS | SW'Sa | MUS | SBS | KKS | FEN pool | FEN sedge | FEN stream | FEN moss | FEN algae | TW   | RL |
|---------------------------------------------------|----------|-------------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|----------|-----------|------------|----------|-----------|------|----|
| <i>Encyonema fogedii</i>                          | X        | X           |     |     |     |     |     | X   |       |     |     |     |          |           |            |          |           |      |    |
| <i>Encyonema gaumannii</i>                        |          |             |     |     |     |     |     |     |       |     | X   |     | X        | X         | X          | X        | X         | 0,6  |    |
| <i>Encyonema minutum</i>                          | X        | X           | X   | X   | X   | X   | X   | X   |       |     |     | X   |          |           | X          |          |           | 2,0* | *  |
| <i>Encyonema neogracile</i>                       | X        | X           |     |     |     |     |     |     |       |     |     |     | X        | X         | X          | X        | X         |      |    |
| <i>Encyonema perpusilla</i>                       |          |             |     |     |     |     |     |     |       |     |     |     | X        | X         | X          | X        | X         | 0,5  |    |
| <i>Encyonema silesiacum</i>                       | X        | X           |     |     |     |     | X   | X   |       | X   | X   | X   | X        | X         | X          | X        | X         | 2,0  | *  |
| <i>Encyonopsis cesatii</i>                        |          |             |     | X   |     |     |     | X   |       | X   |     |     |          | X         | X          | X        | X         | 0,6  | *  |
| <i>Encyonopsis microcephala</i>                   |          |             |     | X   | X   |     | X   |     |       |     |     |     | X        |           |            |          | X         | 1,2* | *  |
| <i>Encyonema lange-bertalotii</i>                 | X        | X           |     |     |     |     |     |     |       |     |     |     |          | X         |            |          |           |      |    |
| <i>Epithemia</i> sp.                              |          |             |     |     | X   |     |     |     |       | X   | X   |     |          |           |            |          |           |      |    |
| <i>Eunotia</i> #3 JÖ                              |          |             |     |     |     |     |     |     |       |     |     |     |          | X         | X          | X        | X         |      |    |
| <i>Eunotia arcus</i>                              |          |             |     |     |     |     |     | X   |       | X   |     |     |          |           |            |          |           | 1,1  |    |
| <i>Eunotia bilunaris</i>                          |          |             |     |     |     |     |     |     |       |     |     |     | X        | X         | X          | X        | X         | 0,7  | 2  |
| <i>Eunotia</i> cf. <i>groenlandica</i>            |          |             |     |     |     |     |     |     |       |     |     |     | X        |           |            | X        |           |      | .  |
| <i>Eunotia</i> cf. <i>pseudoparalleloides</i>     |          |             |     |     |     |     |     |     |       | X   |     |     |          |           |            |          |           |      | .  |
| <i>Eunotia curtagrunowii</i>                      |          |             | X   |     |     | X   |     |     |       |     |     |     | X        |           | X          | X        |           |      |    |
| <i>Eunotia exigua</i>                             | X        | X           | X   | X   | X   |     |     |     |       | X   |     |     | X        | X         | X          | X        | X         | 0,5* | ** |
| <i>Eunotia incisa</i> „borealis“                  | X        | X           | X   |     |     | X   |     |     |       | X   |     |     | X        | X         | X          | X        | X         |      | *  |
| <i>Eunotia inflata</i>                            |          |             |     |     |     |     |     |     |       |     |     |     | X        |           | X          |          |           |      |    |
| <i>Eunotia islandica</i>                          |          |             |     |     |     |     |     |     |       |     |     |     | X        |           |            |          |           |      | D  |
| <i>Eunotia pectinalis</i>                         |          |             |     |     |     |     |     |     |       |     |     |     |          | X         | X          | X        |           | 1,1  | V  |
| <i>Eunotia tetraodon</i>                          |          |             |     |     |     |     |     |     |       |     |     |     |          |           | X          |          | X         |      | 2  |
| <i>Eunotia valida</i>                             |          |             |     |     |     |     |     |     |       |     |     |     | X        |           |            |          |           |      |    |
| <i>Fragilaria arcus</i>                           | X        | X           | X   | X   | X   | X   | X   | X   |       | X   | X   | X   |          |           | X          |          |           | 1,0* | ** |
| <i>Fragilaria brevistriata</i>                    | X        | X           |     |     |     |     |     |     |       |     |     |     |          |           |            |          |           | 3,0* | ** |
| <i>Fragilaria capucina</i> var. <i>austriaca</i>  |          | X           |     | X   | X   |     | X   | X   |       | X   | X   |     | X        |           | X          | X        |           | 0,5* | G  |
| <i>Fragilaria capucina</i> var. <i>capucina</i>   | X        | X           |     |     |     |     |     |     |       | X   |     |     |          |           |            |          |           | 1,8  | ** |
| <i>Fragilaria capucina</i> var. <i>vaucheriae</i> | X        | X           |     |     |     |     |     | X   |       | X   |     |     |          |           |            |          |           | 1,8* | ** |
| <i>Fragilaria construens</i> f. <i>binodis</i>    |          |             |     |     |     |     |     | X   |       |     |     |     |          |           |            |          |           | 2,3  | *  |
| <i>Fragilaria construens</i> f. <i>venter</i>     |          |             |     |     |     |     |     | X   |       | X   |     |     | X        | X         | X          | X        | X         | 2,3  | ** |

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|                                                      | RM lotic | RM Hydrurus | EKS | HSS | HFS | SKS | LGS | SWS | SWSa | MUS | SBS | KKS | FEN pool | FEN sedge | FEN stream | FEN moss | FEN algae | TW   | RL |
|------------------------------------------------------|----------|-------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|----------|-----------|------------|----------|-----------|------|----|
| <i>Fragilaria exigua</i>                             |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         |            |          |           | 0,6  |    |
| <i>Fragilaria gracilis</i>                           | X        | X           | X   |     | X   |     |     | X   |      | X   | X   |     | X        | X         | X          | X        | X         |      |    |
| <i>Fragilaria oldenburgiana</i>                      |          |             |     |     |     |     |     | X   |      |     |     |     |          | X         |            |          |           |      | D  |
| <i>Fragilaria pinnata</i>                            | X        | X           |     | X   | X   |     |     | X   |      |     | X   |     | X        | X         |            |          |           | 2,2* | ** |
| <i>Fragilaria tenera</i>                             |          |             |     |     | X   |     |     |     |      |     |     |     |          |           |            |          |           | 1,0  | V  |
| <i>Fragilaria ulna</i>                               | X        |             |     |     | X   |     |     | X   |      |     | X   |     |          |           |            |          |           | 3,5* | *  |
| <i>Fragilaria virescens</i>                          |          |             |     |     |     |     |     | X   |      |     |     |     |          |           | X          |          |           | 1,4  | V  |
| <i>Frustulia crassinervia</i>                        |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          | X         | 0,4  | V  |
| <i>Frustulia saxonica</i>                            |          |             | X   | X   | X   | X   |     |     |      | X   |     |     | X        | X         | X          | X        | X         | 0,4  | V  |
| <i>Frustulia</i> sp.                                 | X        | X           |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           |      |    |
| <i>Gomphonema</i> #4 JÖ                              |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         | X          | X        | X         |      |    |
| <i>Gomphonema amoenum</i>                            | X        | X           |     |     |     |     |     | X   |      |     |     |     | X        |           | X          | X        | X         | 0,4  | 3  |
| <i>Gomphonema anglicum</i>                           |          |             |     |     |     |     |     |     |      | X   |     |     |          |           |            |          |           |      |    |
| <i>Gomphonema angustum</i>                           | X        | X           |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           | 1,0* | V  |
| <i>Gomphonema clavatum</i>                           | X        | X           |     |     |     |     |     |     |      | X   |     |     | X        | X         | X          | X        |           |      | *  |
| <i>Gomphonema coronatum</i>                          |          |             |     |     | X   |     |     |     |      |     | X   |     |          |           |            |          |           |      | 3  |
| <i>Gomphonema exilis</i>                             |          |             |     |     |     |     |     |     |      |     |     |     | X        |           | X          | X        |           |      |    |
| <i>Gomphonema hebridense</i>                         |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         | X          | X        | X         | 0,9  | V  |
| <i>Gomphonema micropus</i>                           | X        | X           | X   | X   | X   | X   |     |     |      |     | X   | X   |          |           |            |          |           | 2,0  | *  |
| <i>Gomphonema olivaceum</i> var. <i>minutissimum</i> | X        | X           |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           | 1,2* | *  |
| <i>Gomphonema pala</i>                               |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         |            |          |           |      |    |
| <i>Gomphonema parvulus</i>                           |          |             | X   |     | X   | X   |     |     |      | X   |     |     | X        | X         | X          | X        |           |      |    |
| <i>Gomphonema</i> sp.                                |          |             |     |     |     |     |     | X   |      |     |     |     | X        | X         | X          |          |           |      |    |
| <i>Gomphonema sphaenovertex</i>                      |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          | X         |      |    |
| <i>Gomphonema tergestinum</i>                        |          | X           | X   | X   | X   | X   | X   |     |      |     | X   | X   |          |           |            |          |           | 1,4* | G  |
| <i>Gomphonema truncatum</i>                          |          |             |     |     |     |     |     |     |      |     |     |     |          |           | X          |          |           | 1,9  | *  |
| <i>Hantzschia amphioxys</i>                          | X        |             |     |     |     |     |     |     |      |     | X   |     |          |           |            |          |           | 3,6* | ** |
| <i>Hygropetra balfouriana</i>                        |          |             |     |     |     |     |     |     |      | X   |     |     | X        | X         |            |          |           | 0,6  | R  |
| <i>Luticola acidoclinata</i>                         |          |             |     | X   |     |     |     |     |      |     |     |     |          |           |            |          |           | 2,9  |    |
| <i>Meridion circulare</i>                            | X        | X           |     | X   |     |     |     |     |      |     | X   | X   |          |           | X          |          |           | 2,5* | ** |
| <i>Navicula angusta</i>                              |          |             |     |     |     | X   |     | X   |      | X   |     |     |          |           |            | X        | X         | 0,6  | 3  |
| <i>Navicula cari</i>                                 |          | X           |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           | 2,6  | ** |
| <i>Navicula</i> cf. <i>scutelloides</i>              |          |             |     |     |     |     |     |     |      |     |     |     |          |           | X          |          |           | 2,7  |    |

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|                                                     | RM lotic | RM Hydrurus | EKS | HSS | HFS | SKS | LGS | SWS | SWSa | MUS | SBS | KKS | FEN pool | FEN sedge | FEN stream | FEN moss | FEN algae | TW   | RL |
|-----------------------------------------------------|----------|-------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|----------|-----------|------------|----------|-----------|------|----|
| <i>Navicula cryptocephala</i>                       |          | X           |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           | 3,5* | ** |
| <i>Navicula cryptotenella</i>                       | X        | X           |     |     |     |     | X   |     |      |     | X   |     |          |           |            |          |           | 2,3* |    |
| <i>Navicula exilis</i>                              |          |             | X   | X   | X   |     |     |     |      | X   | X   |     | X        | X         |            | X        |           | 2,0  | G  |
| <i>Navicula heimansoides</i>                        |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |      | 3  |
| <i>Navicula radiosa</i>                             |          |             |     | X   |     |     |     |     |      | X   | X   |     | X        |           |            |          |           | 0,6  | ** |
| <i>Navicula tripunctata</i>                         |          |             |     |     |     | X   |     |     |      |     |     |     |          |           |            |          |           | 3,1* | ** |
| <i>Navicula trivialis</i>                           | X        | X           |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           | 3,3  | ** |
| <i>Naviculadicta bremensisformis</i>                |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         | X          | X        |           |      | 3  |
| <i>Neidium affine</i>                               | X        | X           |     |     |     |     |     |     |      |     |     |     | X        | X         | X          |          |           | 0,6  | V  |
| <i>Neidium affine</i> var. <i>linearis</i>          |          |             |     |     |     |     |     |     |      |     |     |     |          |           | X          |          |           |      |    |
| <i>Neidium affine</i> var. <i>longiceps</i>         |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           | 0,6  | G  |
| <i>Neidium bisulcatum</i>                           |          |             |     |     |     |     |     |     |      |     |     |     | X        |           | X          |          |           | 0,6  | 3  |
| <i>Nitzschia acidoclinata</i>                       |          |             |     |     | X   | X   |     |     |      |     | X   |     | X        | X         | X          |          | X         | 2,3  | *  |
| <i>Nitzschia alpina</i>                             |          |             |     |     |     |     |     | X   |      |     | X   |     | X        |           | X          |          | X         | 0,6  | G  |
| <i>Nitzschia</i> cf. <i>tubicola</i>                | X        | X           |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           | 3,4  | *  |
| <i>Nitzschia fonticola</i>                          | X        |             |     | X   |     |     |     |     |      |     |     |     |          |           |            |          |           | 1,9  | ** |
| <i>Nitzschia gracilis</i>                           |          |             |     |     |     |     |     | X   |      |     | X   | X   | X        | X         |            |          | X         | 2,5* | *  |
| <i>Nitzschia hantzschiana</i>                       |          |             |     | X   |     | X   |     | X   |      |     | X   |     | X        | X         |            | X        | X         | 2,0  | *  |
| <i>Nitzschia perminuta</i>                          | X        | X           |     | X   |     |     |     | X   |      |     | X   | X   | X        | X         | X          | X        | X         | 2,3  | *  |
| <i>Nitzschia pura</i>                               | X        | X           |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           | 1,9* | *  |
| <i>Nitzschia subacicularis</i>                      | X        |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           | 2,9  | R  |
| <i>Pinnularia acidoclinata</i>                      |          |             | X   |     |     |     |     |     |      |     |     |     |          |           |            |          |           |      |    |
| <i>Pinnularia biceps</i>                            |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         |            |          |           |      |    |
| <i>Pinnularia borealis</i>                          | X        | X           |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           | 1,9  | ** |
| <i>Pinnularia borealis</i> var. <i>sublinearis</i>  |          |             | X   |     |     |     |     |     |      |     |     |     |          |           |            |          | X         |      |    |
| <i>Pinnularia divergentissima</i> var. <i>minor</i> |          |             |     |     |     |     |     |     |      |     |     |     |          | X         |            | X        | X         |      | D  |
| <i>Pinnularia flexuosa</i>                          |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |      | .  |
| <i>Pinnularia irronata</i>                          |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |      |    |
| <i>Pinnularia microstauron</i>                      | X        | X           |     |     |     |     |     |     |      |     |     |     | X        | X         | X          |          |           | 1,0  | V  |
| <i>Pinnularia neglectiformis</i>                    |          |             |     |     |     |     |     |     |      |     |     |     |          | X         |            |          |           |      |    |
| <i>Pinnularia notabilis</i>                         |          |             |     |     |     |     |     |     |      |     |     |     |          | X         |            |          |           |      | G  |

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|----------------------------------------------------------|----------|-------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|----------|-----------|------------|----------|-----------|------|----|
| <i>Pinnularia obscura</i>                                |          |             |     |     | X   | X   |     | X   |      |     |     |     | X        | X         | X          | X        | X         | 2,0  | ** |
| <i>Pinnularia ovata</i>                                  |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |      |    |
| <i>Pinnularia permicrostauron</i>                        |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |      |    |
| <i>Pinnularia pisciculus</i>                             |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            | X        |           |      |    |
| <i>Pinnularia stidolphii</i>                             |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          | X         |      |    |
| <i>Pinnularia subcapitata</i>                            |          | X           |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           |      | *  |
| <i>Pinnularia subcapitata</i> var.<br><i>subrostrata</i> |          |             | X   |     | X   |     |     |     |      |     |     |     | X        | X         |            | X        | X         |      | *  |
| <i>Pinnularia submicrostauron</i>                        |          |             |     | X   |     |     |     |     |      |     |     |     |          |           |            |          |           |      | D  |
| <i>Pinnularia tirolensis</i> var.<br><i>julma</i>        |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         |            |          |           |      |    |
| <i>Pinnularia viridiformis</i>                           |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          | X         |      | G  |
| <i>Pinnularia viridis</i>                                |          |             |     |     |     |     |     |     |      |     |     |     | X        |           | X          |          |           | 1,3  | *  |
| <i>Reimeri sinuata</i>                                   | X        | X           |     | X   | X   | X   |     | X   |      | X   |     | X   |          |           |            |          |           | 2.1* | ** |
| <i>Sellaphora laevissima</i>                             |          |             |     |     |     |     |     |     |      |     |     |     |          | X         |            |          |           | 1,1  | V  |
| <i>Sellaphora pupula</i>                                 |          |             |     | X   | X   |     |     |     |      |     |     |     | X        | X         | X          | X        |           | 3.7* | ** |
| <i>Stauroneis prominula</i>                              |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          | X         |      |    |
| <i>Surirella</i> sp.                                     |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          | X         |      |    |
| <i>Tabellaria flocculosa</i>                             | X        | X           |     | X   | X   |     |     | X   |      |     |     | X   | X        | X         | X          | X        | X         | 0.8* | ** |
| <b>Chlorophyceae</b>                                     |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           |      |    |
| <i>Gongrosira debaryana</i>                              |          |             |     |     |     |     |     | X   |      |     |     |     |          |           |            |          |           | 2.1* |    |
| <i>Gongrosira incrustans</i>                             |          |             |     |     |     |     |     |     |      |     | X   |     |          |           |            |          |           | 1.8* |    |
| <i>Haematococcus pluviialis</i>                          |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |      |    |
| <i>Microspora</i> sp.                                    |          |             |     | X   |     |     |     |     |      |     |     |     |          |           | X          |          | X         |      |    |
| <i>Oedogonium</i> sp.                                    |          |             |     |     |     |     |     | X   |      | X   |     |     |          |           | X          |          | X         |      |    |
| <i>Oocystis solitaria</i>                                |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |      |    |
| <i>Pediastrum tetras</i>                                 |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |      |    |
| <i>Sphaerobotrys fluvialilis</i>                         |          |             |     |     |     |     |     | X   |      |     |     |     |          |           |            |          |           | 3.1* |    |
| <i>Stigeoclonium</i> sp.                                 |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          | X         |      |    |
| <b>Zygnematophyceae</b>                                  |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          |           |      |    |
| <i>Closterium closterioides</i>                          |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |      | 3  |
| <i>Closterium lunula</i>                                 |          |             |     |     |     |     |     |     | X    |     | X   |     |          |           |            |          |           |      |    |
| <i>Closterium striolatum</i>                             |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         |            |          |           |      | 3  |
| <i>Cosmarium botrytis</i>                                |          |             |     |     |     |     |     |     |      |     | X   |     |          |           | X          |          |           |      | 3  |



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|                                                         | RM lotic | RM Hydrurus | EKS | HSS | HFS | SKS | LGS | SWS | SWSa | MUS | SBS | KKS | FEN pool | FEN sedge | FEN stream | FEN moss | FEN algae | TW | RL |
|---------------------------------------------------------|----------|-------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|----------|-----------|------------|----------|-----------|----|----|
| <i>Cosmarium difficile</i>                              |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            | X        |           |    | *  |
| <i>Cosmarium impressulum</i><br>var. <i>alpicolum</i>   |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    |    |
| <i>Cosmarium margaritiferrum</i>                        |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         |            |          |           |    | 3  |
| <i>Cosmarium novae-semliae</i><br>var. <i>sibiricum</i> |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    |    |
| <i>Cosmarium ochthodes</i>                              |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    | 3  |
| <i>Cosmarium portianum</i>                              |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    | *  |
| <i>Cosmarium speciosissimum</i>                         |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    |    |
| <i>Cosmarium subcostatum</i><br>var. <i>minus</i>       |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    | 3  |
| <i>Cosmarium vexatum</i> var.<br><i>concavum</i>        |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          | X         |    | D  |
| <i>Euastrum aboense</i>                                 |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         |            |          |           |    | 3  |
| <i>Euastrum ansatum</i> var.<br><i>pyxidatum</i>        |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         |            |          | X         |    | 3  |
| <i>Euastrum bidentatum</i>                              |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    | 3  |
| <i>Euastrum denticulatum</i>                            |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    | 3  |
| <i>Euastrum inerme</i>                                  |          |             |     |     |     |     |     |     |      |     |     |     |          | X         |            |          |           |    | 1  |
| <i>Euastrum verrucosum</i> var.<br><i>alatum</i>        |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    | 3  |
| <i>Micrasterias denticulata</i>                         |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         |            |          |           |    | 3  |
| <i>Micrasterias denticulata</i> var.<br><i>angulosa</i> |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         |            |          |           |    | 3  |
| <i>Micrasterias papillifera</i>                         |          |             |     |     |     |     |     |     |      |     |     |     | X        | X         |            |          |           |    | 3  |
| <i>Mougeotia ovalis</i>                                 |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            | X        | X         |    |    |
| <i>Mougeotia</i> sp.                                    |          |             |     |     |     |     |     | X   |      |     |     |     |          |           | X          |          | X         |    |    |
| <i>Penium cylindrus</i>                                 |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    | 3  |
| <i>Penium</i> sp.                                       |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    |    |
| <i>Penium spirostriolatum</i>                           |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    | 2  |
| <i>Sphaerzosma</i> sp.                                  |          |             |     |     |     |     |     |     |      |     |     |     |          |           |            |          | X         |    |    |
| <i>Spirogyra</i> sp.                                    |          |             |     |     |     |     |     | X   | X    |     |     |     |          |           |            | X        |           |    |    |
| <i>Staurostrum crenulatum</i>                           |          |             |     |     |     |     |     | X   |      |     |     |     | X        |           |            |          |           |    | 3  |
| <i>Staurostrum monticulosum</i>                         |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    | 2  |
| <i>Staurostrum orbiculare</i> var.<br><i>ralfsii</i>    |          |             |     |     |     |     |     |     |      |     |     |     | X        |           |            |          |           |    |    |

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|                                                       | RM lotic |    | RM Hydrurus |    | EKS | HSS | HFS | SKS | LGS | SWS | SW/Sa | MUS | SBS | KKS | FEN pool | FEN sedge | FEN stream | FEN moss | FEN algae | TW | RL |
|-------------------------------------------------------|----------|----|-------------|----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|----------|-----------|------------|----------|-----------|----|----|
| <i>Staurostrum pyramidatum</i>                        |          |    |             |    |     |     |     |     |     |     |       |     |     |     |          |           |            | X        |           |    | 2  |
| <i>Staurostrum teliferum</i> var.<br><i>ordinatum</i> |          |    |             |    |     |     |     |     |     |     |       |     |     |     | X        |           |            |          |           |    |    |
| <i>Tetmemorus granulatus</i>                          |          |    |             |    |     |     |     |     |     |     |       |     |     |     | X        |           |            |          |           |    | 3  |
| <i>Zygnema</i> sp.                                    |          |    |             |    |     |     |     |     |     | X   | X     |     |     |     |          |           | X          | X        | X         |    |    |
| <b>Dinophyceae</b>                                    |          |    |             |    |     |     |     |     |     |     |       |     |     |     |          |           |            |          |           |    |    |
| <i>Gloeodinium montanum</i>                           |          |    |             |    |     |     |     |     |     | X   | X     |     |     |     |          |           |            |          |           |    |    |
| <b>Rhodophyceae</b>                                   |          |    |             |    |     |     |     |     |     |     |       |     |     |     |          |           |            |          |           |    |    |
| <i>Chantransia</i> sp.                                |          |    |             |    |     |     |     |     |     | X   |       | X   |     |     |          |           |            |          |           |    |    |
| <b>Xanthophyceae</b>                                  |          |    |             |    |     |     |     |     |     |     |       |     |     |     |          |           |            |          |           |    |    |
| <i>Vaucheria</i> sp.                                  |          |    |             |    |     |     |     |     |     |     | X     |     |     |     |          |           |            |          |           |    |    |
| Artenzahl Kieselalgen                                 | 63       | 61 | 27          | 38 | 48  | 27  | 14  | 50  | 6   | 41  | 46    | 19  | 89  | 65  | 68       | 60        | 57         |          |           |    |    |
| Artenzahl Nicht-Kieselalgen                           | 2        | 4  | 2           | 3  | 8   | 2   | 3   | 29  | 15  | 12  | 26    | 18  | 35  | 10  | 11       | 5         | 13         |          |           |    |    |
| Gesamtartenzahl                                       | 65       | 65 | 29          | 41 | 56  | 29  | 17  | 79  | 21  | 53  | 72    | 37  | 124 | 75  | 79       | 65        | 70         |          |           |    |    |

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