

# Typical diatom assemblages

Jonathan Jupke

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## RT01 Very large rivers

*Achnanthydium eutrophilum*, *Achnanthydium minutissimum*, *Amphora pediculus inariensis* Complex, *Anomoeoneis sphaerophora*, *Cocconeis euglypta*, *Cocconeis pediculus*, *Cyclotella wuethrichiana*, *Cymbella excisa*, *Diatoma vulgare*, *Encyonema silesiacum minutum lange bertalotii*, *Eolimna comperei*, *Eolimna minima seminulum atomoides*, *Gomphonema olivaceum olivaceoides*, *Gomphonema parvulum* Complex, *Gomphonema pumilum* complex, *Halamphora montana*, *Luticola ventricifusa*, *Mayamaea permitis*, *Navicula capitatoradiata*, *Navicula cryptotenella cryptotenelloides*, *Navicula gregaria*, *Navicula margalithii tripunctata*, *Navicula meniscus antonii*, *Navicula reichardtiana caterva*, *Navicula rotunda*, *Nitzschia dissipata recta* Complex, *Nitzschia fonticola* Complex, *Nitzschia inconspicua* Complex, *Nitzschia palea paleacea*, *Nitzschia sociabilis*, *Reimeria sinuata*, *Reimeria uniseriata*, *Sellaphora submuralis* Complex, *Gomphonema*, *Rhoicosphenia*

## RT02 - Lowland, siliceous, medium-large

*Achnanthydium minutissimum*, *Amphora pediculus inariensis* Complex, *Brachysira styriaca*, *Cocconeis euglypta*, *Cocconeis pediculus*, *Cocconeis placentula*, *Conticribra guillardii*, *Delphineis surirella*, *Diatoma vulgare*, *Discostella* complex, *Encyonema silesiacum minutum lange bertalotii*, *Entomoneis paludosa*, *Eolimna minima seminulum atomoides*, *Eunotia subarcuatoidea*, *Eunotia subtilissima*, *Fallacia subhamulata helensis*, *Gomphonema parvulum* Complex, *Gomphonema saprophilum*, *Halamphora montana*, *Mayamaea permitis*, *Melosira varians* Complex, *Navicula capitatoradiata*, *Navicula cryptotenella cryptotenelloides*, *Navicula gregaria*, *Navicula lanceolata* complex, *Navicula margalithii tripunctata*, *Navicula meniscus antonii*, *Navicula reichardtiana caterva*, *Neidium dubium* Complex, *Nitzschia amphibia* Complex, *Nitzschia angustiforaminata*, *Nitzschia dissipata recta* Complex, *Nitzschia fonticola* Complex, *Nitzschia labella*, *Nitzschia palea paleacea*, *Nitzschia pura linearis* Complex, *Nitzschia sociabilis*, *Nitzschia subcapitellata*, *Pinnularia divergens* complex, *Plagiogramma laeve*, *Planothidium lanceolatum*, *Rhaphoneis amphiceros*, *Sellaphora submuralis* Complex, *Skeletonema subsalsum*, *Thalassiosira bramaputrae*, *Thalassiosira proschkiniae*, *Rhoicosphenia*

## RT03 - Lowland siliceous, very small-small

*Achnanthydium minutissimum*, *Amphora pediculus inariensis* Complex, *Campylosira cymbelliformis*, *Cocconeis placentula*, *Cyclostephanos* Complex, *Cyclostephanos tholiformis*, *Cyclotella hakanssoniae*, *Cyclotella meneghiniana*, *Dimeregramma minor*, *Discostella* complex, *Encyonema triangulum*, *Eolimna minima seminulum atomoides*, *Fallacia crassicostata*, *Gomphonema parvulum* Complex, *Gomphonema pumilum* complex, *Halamphora coffeaeformis*, *Halamphora montana*, *Melosira varians* Complex, *Navicula cryptotenella cryptotenelloides*, *Navicula gottlandica*, *Navicula gregaria*, *Navicula lanceolata* complex, *Navicula margalithii tripunctata*, *Nitzschia amphibia* Complex, *Nitzschia dissipata recta* Complex, *Nitzschia inconspicua* Complex, *Nitzschia lacuum alpina bryophila*, *Nitzschia palea paleacea*, *Nitzschia perspicua*, *Nitzschia pura linearis* Complex, *Nitzschia sociabilis*, *Planothidium lanceolatum*, *Platessa bahlsii*, *Rossithidium linearis*, *Staurosira punctiformis*, *Stephanodiscus hantzschii*, *Surirella brebissonii*, *Thalassiosira decipiens*, *Rhoicosphenia*

#### **RT04 - Lowland calcareous, medium-large**

Achnanthidium minutissimum, Amphora ocellata, Amphora pediculus inariensis Complex, Caloneis bacillum Complex, Cocconeis euglypta, Cocconeis pediculus, Cocconeis placentula, Cyclotella striata, Encyonema silesicacum minutum lange bertalotii, Eolimna minima seminulum atomoides, Gomphonema hebridense, Gomphonema olivaceum olivaceoides, Gomphonema parvulum Complex, Halamphora montana, Navicula capitoradiata, Navicula cryptotenella cryptotenelloides, Navicula margalithii tripunctata, Navicula meniscus antonii, Navicula reichardtiana caterva, Nitzschia amphibia Complex, Nitzschia dissipata recta Complex, Nitzschia fonticola Complex, Nitzschia palea paleacea, Nitzschia sociabilis, Planothidium lanceolatum, Stephanodiscus niagarae complex, Thalassiosira gessneri

#### **RT05 - Lowland calcareous, very small-small**

Achnanthes coarctata, Achnanthidium lauenburgianum, Achnanthidium minutissimum, Amphora pediculus inariensis Complex, Caloneis bacillum Complex, Cocconeis euglypta, Cocconeis placentula, Encyonema silesicacum minutum lange bertalotii, Eolimna minima seminulum atomoides, Fallacia subhamulata helensis, Gomphonema dichotomum, Gomphonema parvulum Complex, Gomphonema pumilum complex, Halamphora montana, Hantzschia abundans, Mayamaea Complex, Melosira varians Complex, Navicula cryptocephala, Navicula cryptotenella cryptotenelloides, Navicula gregaria, Navicula margalithii tripunctata, Navicula meniscus antonii, Navicula reichardtiana caterva, Neidiomorpha binodeformis, Neidium iridis Complex, Nitzschia dissipata recta Complex, Nitzschia palea paleacea, Nitzschia sociabilis, Planothidium lanceolatum, Reimeria sinuata, Tabellaria fenestrata Complex, Rhoicosphenia

#### **RT06 - Lowland, organic and siliceous, very small-large**

Achnanthes rupestoides kryophila broenlundense, Achnanthidium minutissimum, Aneumastus stroesei, Cav-inula scutelloides pseudoscutiformis, Diatoma anceps, Encyonema silesicacum minutum lange bertalotii, Eunotia exigua elegans Complex, Eunotia arcus mucophila bilunaris Complex, Eunotia Complex, Eunotia implicata Complex, Eunotia incisa Complex, Eunotia parallela Complex, Eunotia pectinalis Complex, Eunotia septentrionalis, Fragilaria capucina complex, Frustulia rhomboides Complex, Gomphonema angustatum Complex, Gomphonema parvulum Complex, Humidophila schmassmannii, Karayevia amoena nitidiformis, Meridion circulare Complex, Navicula cryptocephala, Navicula rhynchocephala, Nitzschia dissipata recta Complex, Nitzschia flexa, Nitzschia palea paleacea, Nitzschia perminuta Complex, Nitzschia pura linearis Complex, Odontidium mesodon, Pinnularia appenticulata perirrorata silvatica, Pinnularia interrupta Complex, Pinnularia mesolepta Complex, Pinnularia sinistra, Pinnularia subcapitata Complex, Pinnularia viridis complex, Planothidium lanceolatum, Platessa oblongella, Psammothidium curtissimum, Psammothidium helveticum chlidanos daonense, Psammothidium subatomoides, Psammothidium ventrale Complex, Rossithidium petersennii, Rossithidium pusillum anastasiae, Stauroneis complex small, Stauroneis phoenicenteron Complex, Tabellaria flocculosa Complex, Ulnaria ulna complex

#### **RT08 - Mid-altitude, siliceous, medium-large**

Achnanthidium minutissimum, Amphora pediculus inariensis Complex, Cocconeis euglypta, Cocconeis placentula, Encyonema silesicacum minutum lange bertalotii, Eolimna minima seminulum atomoides, Gomphoneis erienne, Gomphonema bavaricum, Gomphonema parvulum Complex, Gomphonema pumilum complex, Humidophila perpusilla, Mayamaea alcimonia, Mayamaea permitis, Melosira varians Complex, Navicula cryptotenella cryptotenelloides, Navicula gregaria, Navicula lanceolata complex, Navicula margalithii tripunctata, Navicula reichardtiana caterva, Nitzschia costei, Nitzschia dissipata recta Complex, Nitzschia fonticola Complex, Nitzschia inconspicua Complex, Nitzschia palea paleacea, Planothidium lanceolatum, Reimeria sinuata, Sellaphora submuralis Complex, Rhoicosphenia

#### **RT09 - Mid-altitude siliceous, very small-small**

Achnanthidium minutissimum, Amphora micra, Amphora pediculus inariensis Complex, Chamaepinnularia submuscicola, Cocconeis euglypta, Cocconeis placentula, Encyonema silesicacum minutum lange bertalotii,

*Eolimna minima* seminulum atomoides, *Eolimna neocaledonica*, *Fragilaria heidenii*, *Gomphonema parvulum* Complex, *Navicula cryptocephala*, *Navicula cryptotenella* cryptotenelloides, *Navicula gregaria*, *Navicula lanceolata* complex, *Navicula venezuelensis*, *Naviculadieta cosmopolitana*, *Nitzschia dissipata* recta Complex, *Nitzschia frequens*, *Nitzschia inducta*, *Nitzschia palea* paleacea, *Nitzschia valdecostata*, *Planothidium lanceolatum*, *Reimeria sinuata*, *Tabellaria quadrisepata* Complex

## **RT12 – Mid-altitude, organic and siliceous**

*Achnanthidium linearioide*, *Achnanthidium minutissimum*, *Brachysira neoexilis*, *Brachysira zellensis*, *Caloneis tenuis* Complex, *Cavinula scutelloides pseudoscutiformis*, *Chamaepinnularia begeri mediocris*, *Diatoma mesodon*, *Discostella* complex, *Encyonema gaeumannii perpusillum*, *Encyonema gracile luna*, *Encyonema silesicacum minutum lange bertalotii*, *Encyonopsis descripta falaisensis microcephala*, *Eucoconeis laevis alpestris*, *Eunotia exigua elegans* Complex, *Eunotia arcus mucophila bilunaris* Complex, *Eunotia implicata* Complex, *Eunotia incisa* Complex, *Eunotia naegeli*, *Eunotia pectinalis* Complex, *Eunotia praerupta* Complex, *Fragilaria arcus*, *Fragilaria capucina* complex, *Fragilaria construens pseudoconstruens*, *Fragilaria tenera* complex, *Frustulia rhomboides* Complex, *Gomphonema acuminatum* Complex, *Gomphonema parvulum* Complex, *Lindavia rossii* complex, *Navicula angusta*, *Navicula notha leptostriata*, *Neidium affine* Complex, *Nitzschia bavarica* Complex, *Nitzschia perminuta* Complex, *Pinnularia subcapitata* Complex, *Planothidium lanceolatum*, *Psammothidium marginulatum scoticum lacus vulcani levenderi*, *Psammothidium rossii altaica*, *Psammothidium ventrale* Complex, *Rossithidium nodosum*, *Rossithidium pusillum anastasiae*, *Tabellaria flocculosa* Complex, *Ulnaria ulna* complex, *Stenopterobia*

## **RT16 – Glacial Rivers**

*Achnanthidium atomoides*, *Achnanthidium minutissimum*, *Achnanthidium subatomus*, *Amphora pediculus inariensis* Complex, *Cocconeis euglypta*, *Cocconeis placentula*, *Cocconeis pseudolineata*, *Cymbella tridentina*, *Diadismis gallica*, *Diatoma moniliformis tenuis*, *Distirionella incognita*, *Encyonema silesicacum minutum lange bertalotii*, *Fragilaria incognita*, *Fragilaria virescens* complex, *Gomphonema olivaceum olivaceoides*, *Gomphonema parvulum* Complex, *Gomphonema pumilum* complex, *Navicula cryptotenella cryptotenelloides*, *Navicula margalithii tripunctata*, *Nitzschia dissipata* recta Complex, *Nitzschia fonticola* Complex, *Odontidium hyemale*, *Reimeria sinuata*

## **RT17 - Mediterranean, lowland, medium-Large, perennial**

*Achnanthidium minutissimum*, *Amphora pediculus inariensis* Complex, *Aneumastus tusculus*, *Brachysira garrensis*, *Cocconeis euglypta*, *Cocconeis pediculus*, *Cocconeis placentula*, *Cymbella excisa*, *Cymbella kappii*, *Diatoma vulgaris*, *Encyonema silesicacum minutum lange bertalotii*, *Encyonema simile*, *Eolimna minima* seminulum atomoides, *Fallacia muraloides*, *Gomphonema parvulum* Complex, *Gomphonema pumilum* complex, *Luticola kotschy*, *Navicula cryptotenella cryptotenelloides*, *Navicula margalithii tripunctata*, *Navicula reichardtiana caterva*, *Nitzschia dissipata* recta Complex, *Nitzschia fonticola* Complex, *Nitzschia inconspicua* Complex, *Nitzschia palea* paleacea, *Planothidium holstii*, *Planothidium reichardtii*, *Pseudostaurosira neoelliptica*

## **RT18 - Mediterranean, mid altitude, medium-large, perennial**

*Achnanthidium minutissimum*, *Amphora pediculus inariensis* Complex, *Cocconeis pediculus*, *Cocconeis placentula*, *Cosmioneis pusilla*, *Cymbella excisa*, *Diatoma moniliformis tenuis*, *Encyonema silesicacum minutum lange bertalotii*, *Encyonopsis descripta falaisensis microcephala*, *Gomphonema olivaceum olivaceoides*, *Gomphonema parvulum* Complex, *Gomphonema pumilum* complex, *Halamphora thumensis*, *Navicula cryptotenella cryptotenelloides*, *Navicula margalithii tripunctata*, *Navicula reichardtiana caterva*, *Nitzschia dissipata* recta Complex, *Nitzschia fonticola* Complex, *Pinnularia alpina lata borealis* complex, *Reimeria sinuata*, *Gomphonema*

## **RT19 - Mediterranean, very small-small, perennial**

Achnanthidium minutissimum, Amphora pediculus inariensis Complex, Cocconeis euglypta, Cocconeis pediculus, Cocconeis placentula, Cymbella excisa, Cymbella tumidula, Encyonema geisslerae, Encyonema silesiacum minutum lange bertalotii, Eolimna minima seminulum atomoides, Epithemia goeppertiana, Epithemia turgida, Gomphonema pumilum complex, Gomphonema rosenstockianum, Navicula cryptotenella cryptotenelloides, Navicula margalithii tripunctata, Nitzschia dissipata recta Complex, Nitzschia fonticola Complex, Stauroneis separanda