Supplementary Material

Manipulation of non-random species loss in natural phytoplankton: qualitative and quantitative evaluation of different approaches

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**Supplementary Table 1.** Cell abundances (i.e. total number of cells counted) of the different species in the initial samples (100 mL sample analyzed). Co = control, S = heat stressed treatment, F1 = coarse filtration, F2 = fine filtration, D1 = weak dilution, D2 = strong dilution. SxD1 = weak dilution of heat stressed, SxD2 = strong dilution of heat stressed.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Species | Abbr. | Co | S | F1 | F2 | D1 | D2 | SxD1 | SxD2 |
| *Thalassiosira spp.* | THA | 6388 | 4217 | 5832 | 2485 | 835 | 104 | 928 | 41 |
| *Skeletonema costatum* | SKE | 3023 | 6961 | 2563 | 665 | 269 | 19 | 1037 | 118 |
| *Detonula confervaceae* | DET | 1995 | 854 | 1896 | 237 | 263 | 73 | 133 | 27 |
| *Plagioselmis sp.* | PLA | 852 | 737 | 520 | 663 | 22 | 2 | 201 | 0 |
| *Heterocapsa rotundata* | HET | 801 | 1070 | 850 | 814 | 3 | 9 | 201 | 6 |
| *Chaetoceros spp.* | CHA | 418 | 333 | 357 | 7 | 15 | 2 | 95 | 11 |
| *Brockmaniella brockmanii* | BRO | 158 | 0 | 78 | 0 | 0 | 0 | 0 | 0 |
| *Thalassionema nitzschioides* | THAN | 155 | 150 | 51 | 9 | 15 | 8 | 22 | 5 |
| *Asterionella formosa* | AST | 76 | 38 | 49 | 8 | 29 | 0 | 14 | 0 |
| *Navicula spp.* | NAV | 39 | 34 | 4 | 12 | 2 | 2 | 9 | 1 |
| *Gymnodinium sp.* | GYM | 25 | 56 | 23 | 32 | 1 | 0 | 1 | 0 |
| *Cylindrotheca closterium* | CYL | 18 | 15 | 13 | 17 | 2 | 1 | 1 | 1 |
| *Ebria tripatita* | EBR | 16 | 4 | 1 | 2 | 7 | 1 | 3 | 1 |
| *Fragilaria sp.* | FRA | 6 | 4 | 10 | 2 | 0 | 0 | 0 | 0 |
| *Licmophora sp.* | LIC | 4 | 0 | 0 | 4 | 1 | 0 | 0 | 1 |
| *Scenedesmus sp.* | SCE | 3 | 8 | 1 | 0 | 1 | 0 | 0 | 0 |
| *Coelastrum sp.* | COE | 3 | 0 | 0 | 4 | 0 | 1 | 1 | 0 |
| *Teleaulax sp.* | TEL | 2 | 31 | 2 | 1 | 0 | 0 | 1 | 0 |
| *Dictyocha speculum* | DIC | 2 | 1 | 1 | 2 | 1 | 0 | 0 | 0 |
| *Nitzschia microcephala* | NIT | 9 | 6 | 14 | 12 | 6 | 0 | 7 | 1 |
| *Thalassiosira rotula* | THAR | 2 | 23 | 9 | 1 | 0 | 1 | 1 | 0 |
| *Gyrodinium sp.* | GYR | 0 | 5 | 1 | 2 | 0 | 1 | 1 | 1 |
| *Eutreptiella sp.* | EUT | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| *Ditylum brightwelli* | DIT | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| *Pseudo-Nitzschia pungens* | PSEN | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| *Ceratium fusus* | CER | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| *Dinobryon divergens* | DIND | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| *Snowella sp.* | SNO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| *Tetraedron minimum* | TET | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| *Centric Diatom sp. 1* | CEN | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |