**S3 Table.** Abundance of individual plankton groups during peak chl*a* concentrations in phase III. For the community-based analysis we generally included functional groups rather than species. For copepods, we only included *Pseudocalanus* sp*.* here since this species strongly dominated the copepod community both, numerically and in terms of biomass. (Note, however, that “nauplii” includes copepod nauplii from all species since they were not distinguished taxonomically). This data was used for ANOSIM/NMDS analysis (Fig 8C).

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | low CO2 | | | | | | | high CO2 | | | | | | |  |
| parameter | M1 | M3 | M5 | M9 | M10 | mean low CO2 | S.D. low CO2 | M2 | M4 | M6 | M7 | M8 | mean high CO2 | S.D. high CO2 | SIMPER (%) |
| days of peak bloom | t53, t55, t57 | t45, t47, t51 | t51, t57, t59 | t49, t51, t53 | t55, t57, t59 |  |  | t49, t51, t57 | t53, t55, t57 | t49, t51, t57 | t53, t55, t57 | t51, t53, t55 |  |  |  |
| *Coscinodiscus* (cells L-1) | 326 | 340 | 166 | 232 | 288 | 270 | 72 | 274 | 404 | 378 | 309 | 281 | 329 | 58 | 7.94 |
| Pico (cells mL-1) | 25598 | 8959 | 57203 | 39190 | 24157 | 31021 | 18135 | 55414 | 53286 | 64270 | 44692 | 81831 | 59899 | 14100 | 9.4 |
| Nano (cells mL-1) | 43471 | 3806 | 20179 | 12407 | 42332 | 24439 | 17826 | 10413 | 41176 | 16193 | 36655 | 74016 | 35691 | 25095 | 7.65 |
| Crypto (cells mL-1) | 96 | 139 | 79 | 94 | 97 | 101 | 23 | 252 | 62 | 202 | 36 | 62 | 123 | 97 | 8.34 |
| Synecho (cells mL-1) | 3225 | 550 | 637 | 605 | 4382 | 1880 | 1804 | 630 | 728 | 861 | 407 | 272 | 580 | 239 | 7.3 |
| Bacteria (cells mL-1) | 2458899 | 2002754 | 2701034 | 2829063 | 2728058 | 2543961 | 331658 | 2002754 | 1706444 | 2392019 | 2136357 | 1820039 | 2011523 | 269340 | 11.69 |
| Virus like particles (ind mL-1) | 36976667 | 40331905 | 44008095 | 27969048 | 37880952 | 37433333 | 5950017 | 40080952 | 32978095 | 38426190 | 37207143 | 43698571 | 38478190 | 3927166 | 7.05 |
| *Pseudocalanus* (male) (ind m-3) | 2684 | 2222 | 1328 | 2771 | 3175 | 2436 | 706 | 2251 | 2771 | 4214 | 2078 | 1674 | 2597 | 985 | 6.84 |
| *Pseudocalanus* (female) (ind m-3) | 6003 | 5224 | 2867 | 5051 | 5772 | 4983 | 1245 | 4329 | 6061 | 7504 | 6234 | 4541 | 5734 | 1312 | 7.11 |
| *Pseud*. Copepodites (ind m-3) | 50178 | 16662 | 21953 | 27956 | 31881 | 29726 | 12817 | 27860 | 66224 | 32189 | 44695 | 30438 | 40281 | 15884 | 7.53 |
| Nauplii (ind m-3) | 77884 | 60087 | 72862 | 96546 | 80635 | 77603 | 13204 | 107571 | 109110 | 115094 | 97278 | 80241 | 101859 | 13681 | 10.59 |
| Ciliates (cells mL-1) | 16840 | 9720 | 4320 | 2100 | 11400 | 8876 | 5856 | 1240 | 2900 | 2160 | 6340 | 9280 | 4384 | 3348 | 8.54 |