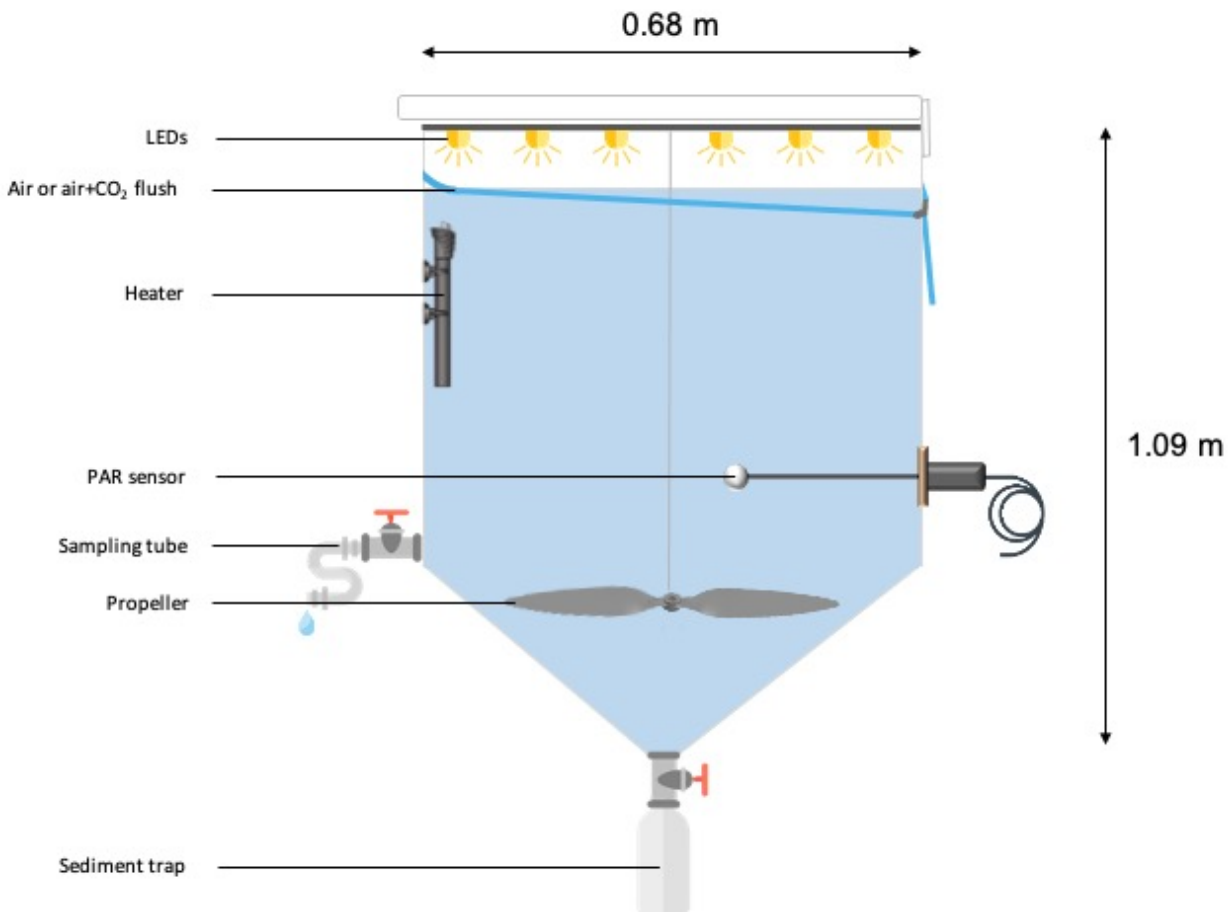
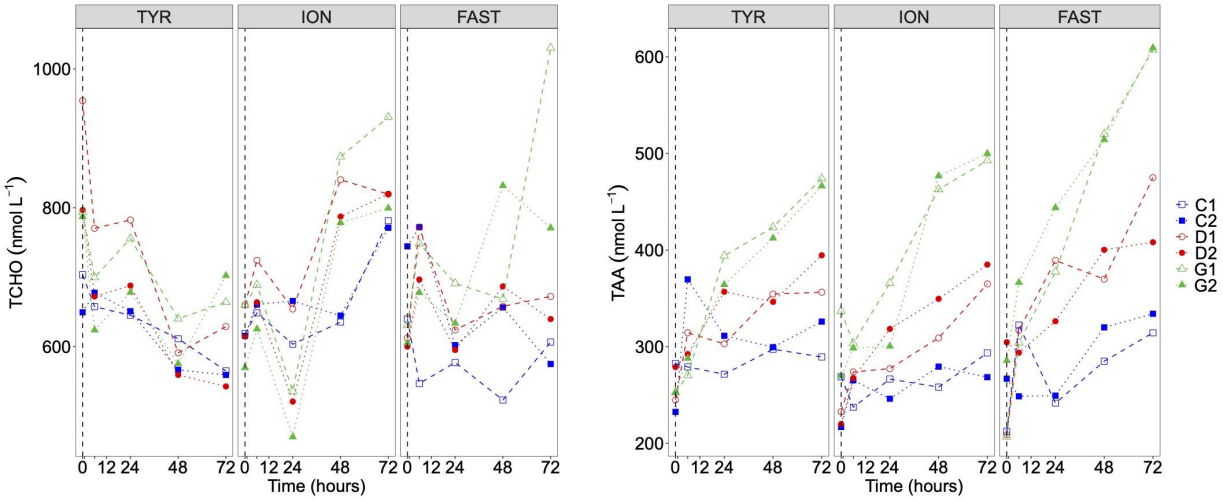



Fig. S1. Scheme of an experimental tank.




1337

1338 Fig. S2. Total hydrolysable carbohydrate (TCHO) and amino acids (TAA) concentrations in the
1339 six tanks (controls: C1, C2; dust addition under present conditions of temperature and pH: D1,
1340 D2; dust addition under future conditions of temperature and pH: G1 and G2) during the three
1341 experiments (TYR, ION and FAST). The dashed vertical line indicates the time of seeding (after
1342 t0).

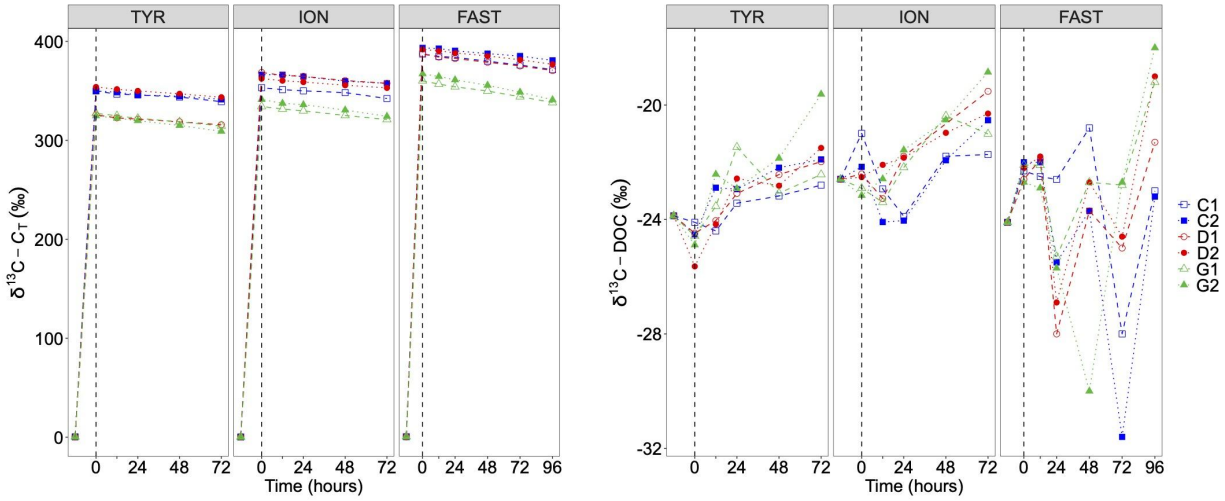
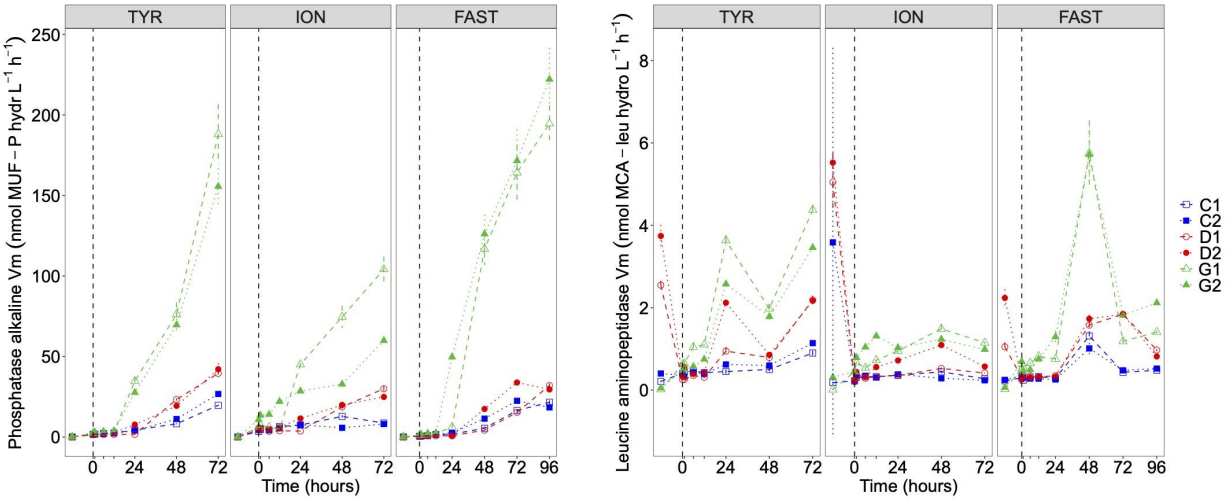



Fig. S3. Isotopic signature of dissolved inorganic carbon ($\delta^{13}$C-$C_T$) and incorporation of $^{13}$C into dissolved organic carbon ($\delta^{13}$C-DOC) in the six tanks (controls: C1, C2; dust addition under present conditions of temperature and pH: D1, D2; dust addition under future conditions of temperature and pH: G1 and G2) during the three experiments (TYR, ION and FAST). The dashed vertical line indicates the time of seeding (after t0).




1349

1350 Fig. S4. Maximum hydrolysis velocity (Vm) of the phosphatase alkaline and leucine

1351 aminopeptidase (over 1-2 h incubations) on samples taken in the six tanks (controls: C1, C2; dust

1352 addition under present conditions of temperature and pH: D1, D2; dust addition under future

1353 conditions of temperature and pH: G1 and G2) during the three experiments (TYR, ION and

1354 FAST).