## Computational Marine Ecological Modelling report: NPD model

This report should document the NPD model that you have developed during the first half of the course. The report should contain:

- 1. Description of the governing equations and the different terms in the equations, together with an illustration of state variables
- 2. Description of the parameters and their units
- 3. Description of the numerical scheme including boundary conditions
- 4. Show that the solution is converged and independent of the grid size.
- 5. Description (with suitable figures) of the steady-state solutions of the model.
- 6. Discussion of the factors limiting phytoplankton growth
- 7. A sensitivity analysis of selected parameters entering the model, with interpretation of why a change in the parameters leads to the observed effects
- 8. A description of the seasonal succession of plankton
- 9. Matlab code on GitHub

The report should be in the form of a pdf document.