Instructions for compiling and running the models in 'Trophic model closure influences ecosystem response to enrichment'

Anne Willem Omta

Below, there are brief technical instructions for compiling and running the linear- and hyperbolic-closure models used in 'Trophic model closure influences ecosystem response to enrichment'. Please send an e-mail to omta@mit.edu, in case you encounter any problems.

The model code and main output have been compressed into the file Code.tar.bz2. When working under Linux or Unix, this file can be unzipped into a directory named Code through the commands bunzip2 Code.tar.bz2 and tar -xvf Code.tar. The FORTRAN code for the linear-closure is in StandLin.f; the code for the hyperbolic-closure models with $\gamma = 1$ and $\gamma = 0.7$ is in StandHyper.f and StandFract.f, respectively.

Under Unix, code is compiled with

f95 -o SH StandHyper.f

and the executable SH is run as a background process with

./SH &

For all three models, output of P and Z as a function of time is written to fort.70 and fort.80, respectively. For the hyperbolic model with $\gamma = 1$ (StandHyper.f), these should correspond with Fig. 2a of the article.