

Model Name	ERGOM
Model Description	Biogeochemical model to describe explicitly the nitrogen cycle, truncated at the level of zooplankton
State Variables	Nutrients: phosphorous, nitrate and ammonium, Phytoplankton: diatoms, flagellate, cyanobacteria Detritus, bulk-zooplankton, oxygen, sediment-detritus
On a scale between 1 and 10	5
dimension	3D
Modelled area	Marine
Coupled to hydrological component	Freshwater fluxes externally prescribed
Suited for climate sensitivity studies	yes
publications	Neumann, T., 2000. Towards a 3d-ecosystem model of the Baltic Sea. <i>Journal of Marine Systems</i> 25 (3-4), 405–419. Neumann, T., W. Fennel, and C. Kremp 2002: "Experimental simulations with an ecosystem model of the Baltic Sea: a nutrient load reduction experiment" <i>Global Biogeochemical Cycles</i> , <b>16</b> , 7_1 -7_19.
Institute	Institut für Ostseeforschung
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Model Name	ERGOM – GLOBEC
Model Description	Biogeochemical model to describe explicitly the nitrogen cycle, truncated at the level of zooplankton but with explicit description of stage resolving zooplankton
State Variables	Nutrients: phosphorous, nitrate and ammonium, Phytoplankton: diatoms, flagellate, cyanobacteria Detritus, oxygen, sediment-detritus Two aggregated zooplankton groups (Arctia and Temora, Pseudocalanus)
On a scale between 1 and 10	8
dimension	3D
Modelled area	Marine
Coupled to hydrological component	Freshwater fluxes externally prescribed
Suited for climate sensitivity studies	yes
publications	Neumann,T., and W. Fennel 2006: "A method to represent vertical migration of Zooplankton in 3D-Eulerian Models", Ocean Modelling, <b>12</b> , 188-204. Fennel, W. and T. Neumann 2003: "Variability of copepods as seen in a coupled physical biological model of the Baltic Sea" ICES Marine Science Symposia, <b>219</b> , 208-219. Fennel, W. 2001: " Modeling of copepods with links to circulation model" Journal of Plankton Research, <b>23</b> , 1217-1232.
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