



Development of the marine planktonic copepod *Temora longicornis*

L. Dzierzbicka-Głowacka (1), A. Lemieszek (2), and I. M. Zmijewska (2)

(1) Institute of Oceanology, PAS, Sopot, Poland (dzierzb@iopan.gda.pl), (2) Institute of Oceanography, University of Gdansk, Gdynia, Poland (anna_lemieszek@wp.pl, ocemiz@univ.gda.pl)

The paper presents an empirical model describing the coefficient of daily exponential growth and weight increment for different developmental periods of *Temora longicornis*.

The quantitative expressions describing the effects of food concentration and temperature on the above parameters were developed. The calculations were made on the basis of experimental data. In the work also obtained the stage duration of specific size-classes of *Temora longicornis* as a function of food concentration and temperature. Expressions computed here may be used with good precision in mathematical models of pelagic communities.