



## Development time of *Mysis mixta* in the southern Baltic Sea

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The development time of specific size-classes of *Mysis mixta* in the southern Baltic Sea (Gdansk Basin) is presented. Witek determined the growth rate and periods of high abundance on the basis of experiments (Witek, 1995). According to these data, the stage durations of *Mysis mixta* were obtained by the numerical solution of polynomials of the appropriate degrees. The polynomials were described by:

$$(W_i + W_i g_i) (1 + g_i + g_i^2 + \dots + g_i^{n-1} + g_i^n + g_i^d) = W_{i+1}$$

where  $W_i$  is the mean body weight of specific size-classes,  $n+d$  is the stage duration (e.g. when  $D = 5.36$  days,  $n = 5$  and  $d = 0.36$ ) and  $D$  is an unknown quantity and  $g_i$  is the growth rate. Empirical model computed here may be used with good precision in mathematical models of pelagic communities.