

Importance of mismatch in a winter hatching species: evidence from lesser sandeel

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Marine Ecology Progress Series 567: 185–197 (2017)

Supplement. Data on *Calanus finmarchicus* and *C. helgolandicus* development at different temperatures were obtained from different sources summarised in Table S1. Data were available for either the entire development between the egg and the adult stage or specific developmental stages. When only data on a specific stage were available, the duration between the egg stage and cV stage was extrapolated using the stage durations as proportions of egg to adult development published in Cook et al. 2007. The relationship published by Cook et al. (2007) was judged relevant as no obvious pattern indicating a departure from it, was observed in the data gathered for lower temperatures (Fig. S1).

Table S1. Sources of data for temperature-dependent development in *Calanus*.

Species	Origin	Temperature	Stages	Reference
<i>C. finmarchicus</i>	North-East Atlantic	8	Egg to adult (all stages)	Cook et al. (2007)
		12	Egg to adult (all stages)	Cook et al. (2007)
		15	Egg to adult (all stages)	Cook et al. (2007)
	North Sea	5	Egg to adult	Diel & Klein Breteler (1986)
		10	Egg to adult	Diel & Klein Breteler (1986)
		10	Egg to adult	Diel & Klein Breteler (1986)
	North-West Atlantic	12	Egg to CV	Campbell et al. (2001)
		8	Egg to CV	Campbell et al. (2001)
		4	Egg to CV	Campbell et al. (2001)
	Norwegian Sea	5.7	Egg to CIV (all stages)	Hygum et al. (2000)
<i>C. helgolandicus</i>	North Sea	4.5	Egg to NV (all stages)	Thompson (1982)
		7.55	Egg to adult (all stages)	Thompson (1982)
		9.57	Egg to adult (all stages)	Thompson (1982)
		11.5	Egg to adult (all stages)	Thompson (1982)
		13.3	Egg to adult (all stages)	Thompson (1982)
		13.9	CI to CV (all stages)	Thompson (1982)
		15	Egg to adult (all stages)	Thompson (1982)
		8	Egg to adult (all stages)	Cook et al. (2007)
		12	Egg to adult (all stages)	Cook et al. (2007)
		15	Egg to adult (all stages)	Cook et al. (2007)
	English Channel	5	Egg to adult	Diel & Klein Breteler (1986)
		10	Egg to adult	Diel & Klein Breteler (1986)
		15	Egg to CI, CI to CV (all stages)	Rey Rassat et al. (2002)
		3.9	Egg	Corkett (1972)

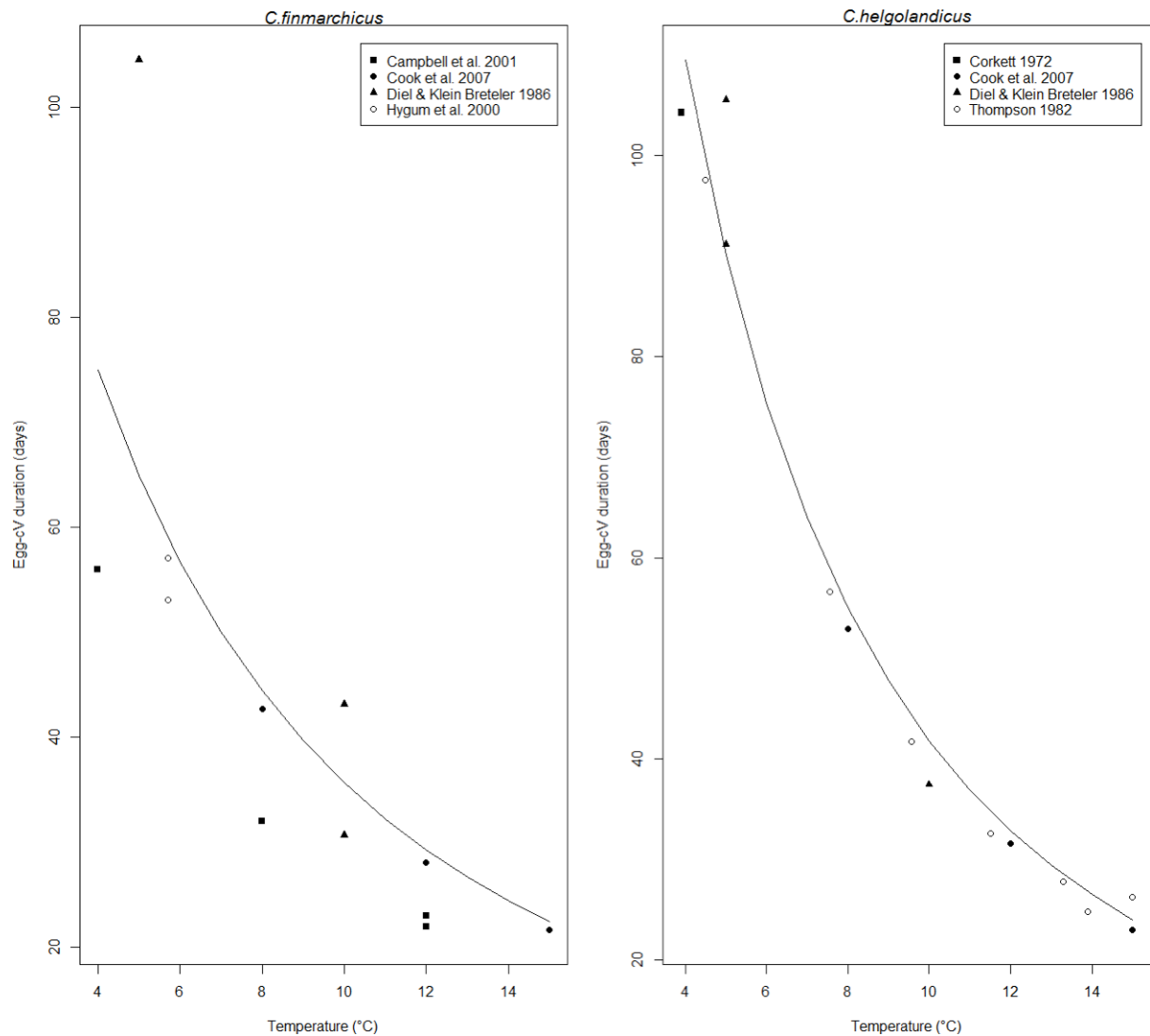


Fig. S1. Data for *Calanus* development at different temperatures; the solid line indicates the temperature dependent function published in Cook et al. (2007).

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