

Table S1. Bayesian posterior means and 95% highest posterior density uncertainty intervals (UI) of the escape direction in radian for both components of the linear regression coefficients. An asterisk (*) indicates that the UI does not intersect with zero, i.e. strong evidence for an effect.

	Component 1			Component 2		
	Mean	Lower UI	Upper UI	Mean	Lower UI	Upper UI
0 dph (control)	-0.820	-1.213	-0.421	0.187	-0.215	0.588
3 dph at +2°C	0.223	-0.264	0.688	-0.339	-0.851	0.144
7 dph at +2°C	0.016	-0.409	0.485	-0.060	-0.544	0.429
30 dph at +2°C	-0.286	-0.788	0.162	-0.397	-0.871	0.081
108 dph at +2°C	-0.030	-0.484	0.470	-0.535	-1.036	-0.046*
Performance temp. 30.5°C	-0.161	-0.464	0.134	0.059	-0.244	0.376
Orientation stim. impact						
cosine	0.981	0.705	1.288*	0.011	-0.269	0.306
sine	0.171	-0.047	0.388	0.662	0.466	0.873*

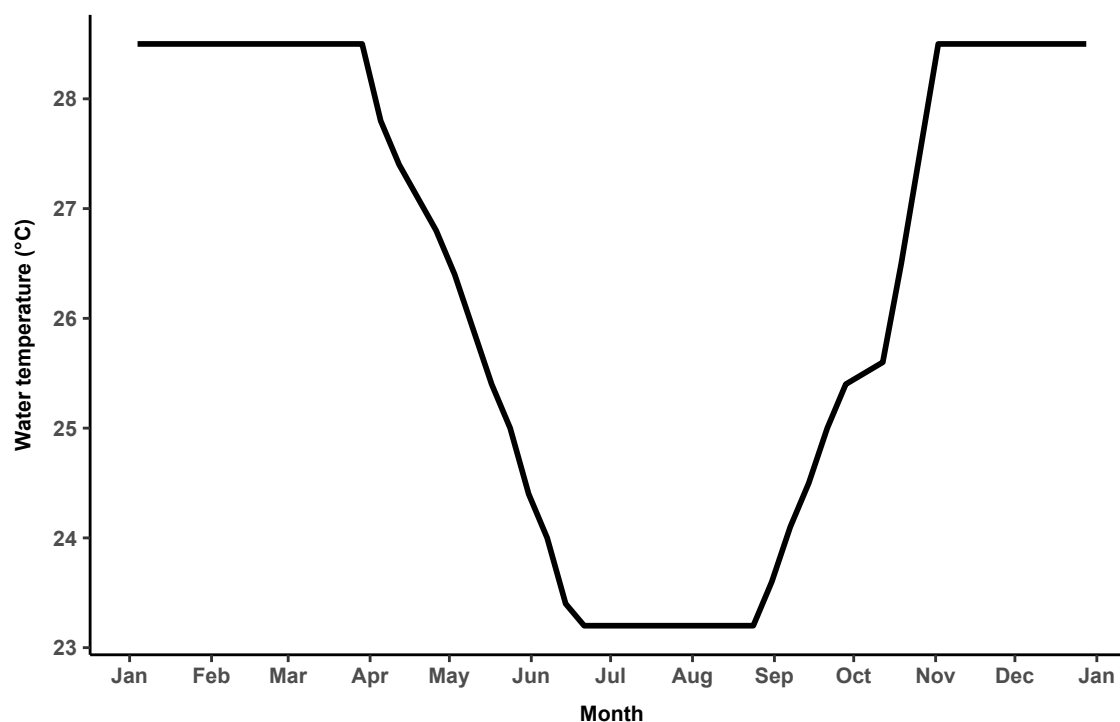


Figure S1. **Weekly mean water temperatures experienced by wild-caught parents once in captivity.** Approximately based on a mid-latitude reef on the Great Barrier Reef (AIMS, 2016).

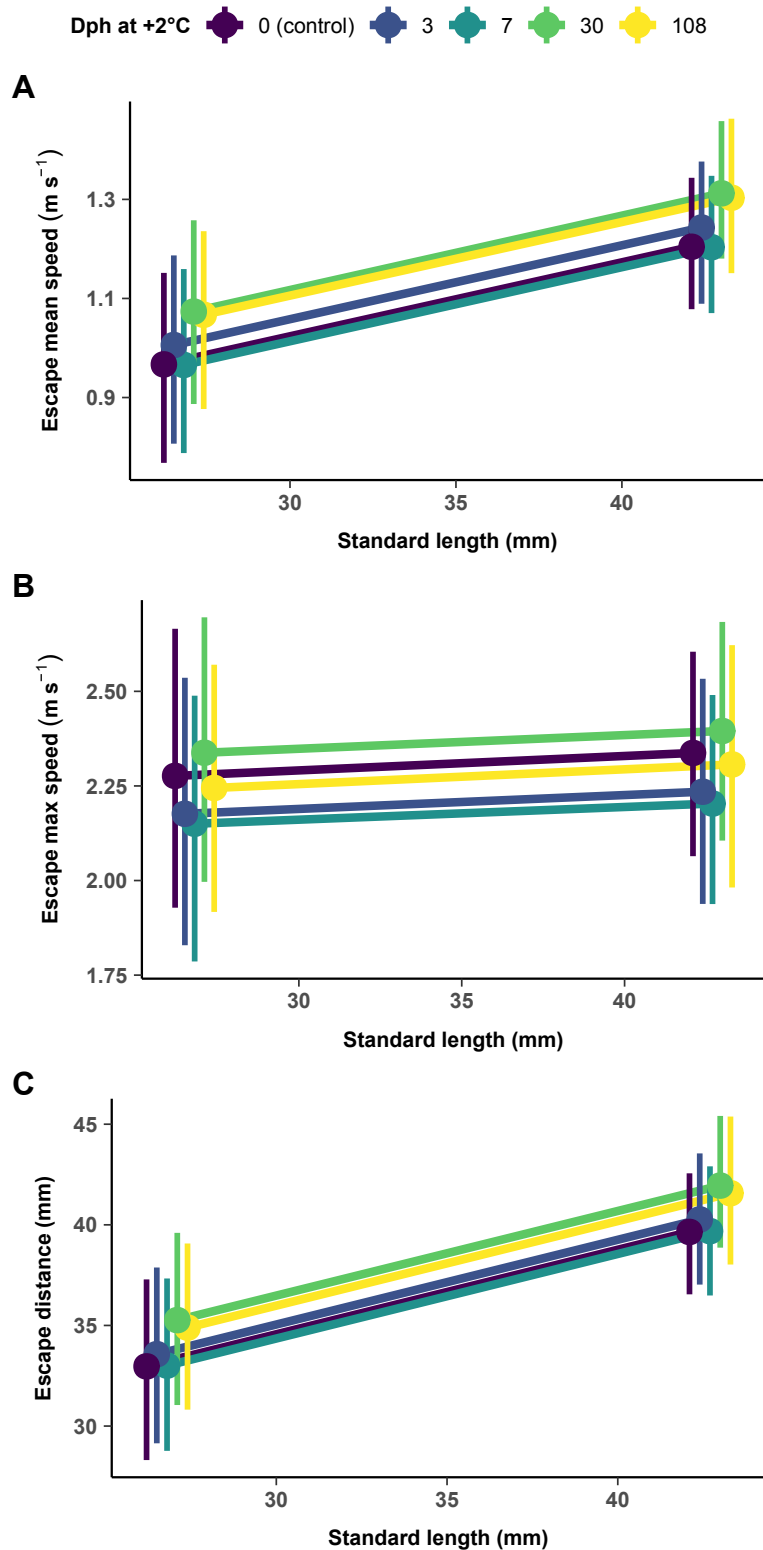


Figure S2. **Influence of standard length on escape speed and distance.** Bayesian posterior median values (circles) with 95% highest posterior density uncertainty intervals (vertical lines) of **A** escape mean speed, **B** escape maximum speed, and **C** escape distance in relation to the fish's minimum and maximum standard length, separated by exposure duration treatment. Dph – days' post hatching.

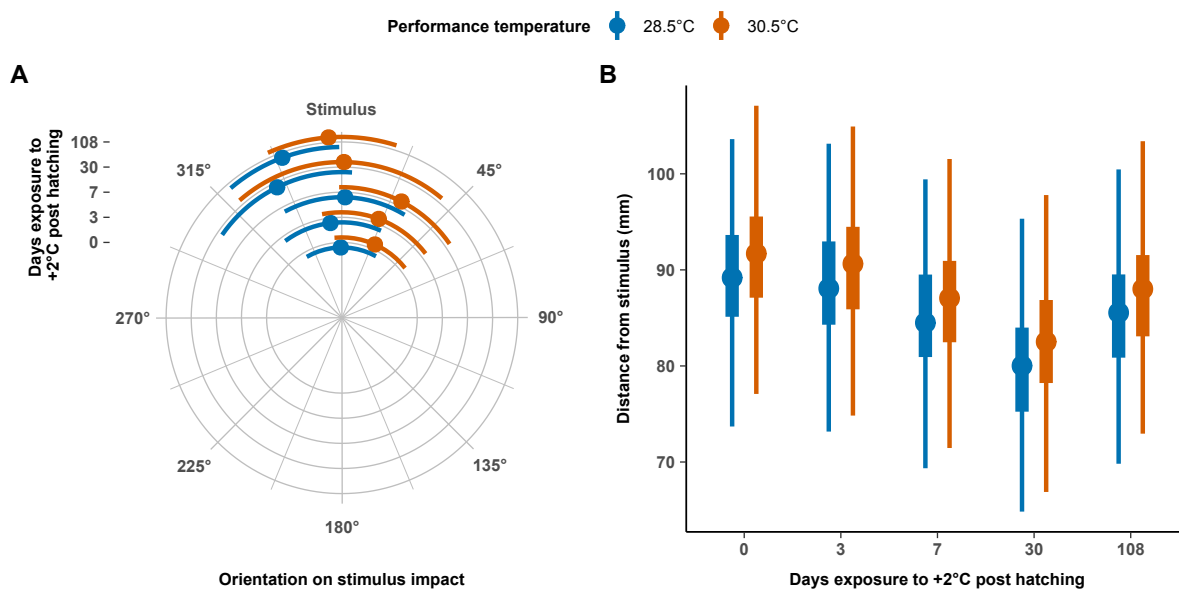


Figure S3. **Orientation and distance from stimulus on impact in escape performance trials.**

A Bayesian posterior mean values (circles) and 95% highest posterior density uncertainty intervals (thin lines) of the fish's orientation on stimulus impact and **B** Bayesian posterior median values (circles) and 95% highest posterior density uncertainty intervals (thin lines) and 50% uncertainty intervals (thick lines) of the fish's distance from the stimulus on impact.

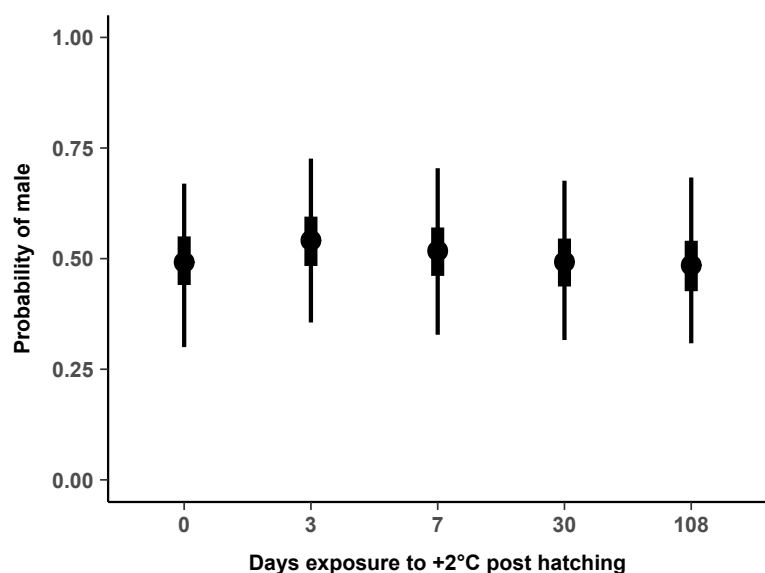


Figure S4. **Sex ratio.** Bayesian posterior median values (circles) with 95% highest posterior density uncertainty intervals (thin lines) and 50% uncertainty intervals (thick lines) of the probability of male sex.

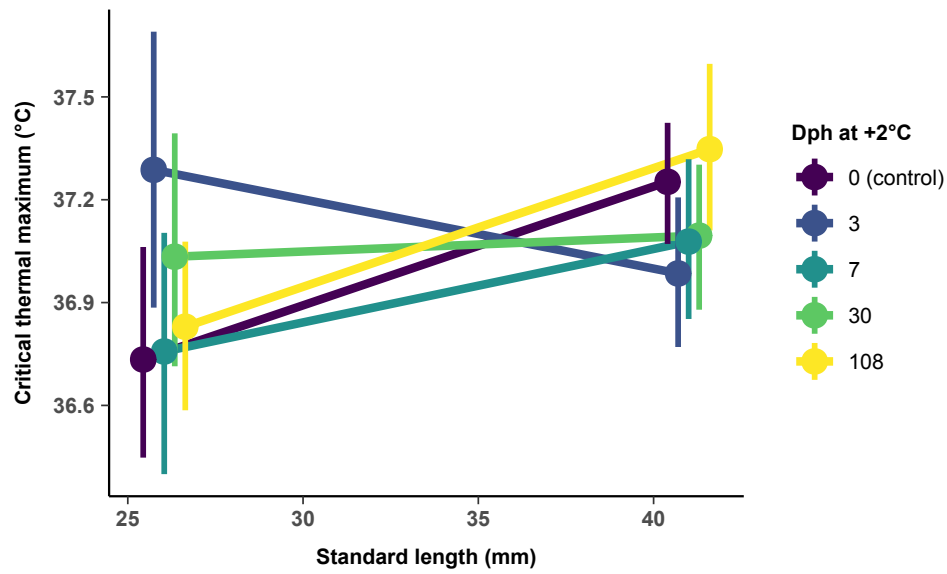


Figure S5. **Influence of standard length on CT_{max}**. Bayesian posterior median values (circles) with 95% highest posterior density uncertainty intervals of the CT_{max} in relation to the fish's minimum and maximum standard length. Dph – days' post hatching.

Script 1. R script

[Click here to download Script 1](#)