

Supplementary table 1: Samples sizes of fish that were used from each population over the course of the experiment. $N_{all \text{ measurements}}$ refers to fish that completed aerobic physiology and immunocompetence experiments at all testing temperatures (i.e., 27°C, 28.5°C, 30°C, 31.5°C), in addition to having tissue and blood samples collected at the conclusion of the experiment.

<i>Population</i>	<i>Latitude</i>	<i>N</i>	<i>N_{all measurements}</i>
Sudbury Reef	Low-latitude	11	9
Tongue Reef	Low-latitude	8	6
Vlassof Cay	Low-latitude	10	6
Cockermouth Island	High-latitude	10	8
Keswick Island	High-latitude	6	4
Chauvel Reef	High-latitude	10	5
<i>Total</i>		<i>55</i>	<i>38</i>