1; 2; 3; 4; 5; 6; 7; 8; 9; 10; 11;

1. **Somero, G. N**. The physiology of climate change: How potentials for acclimatization and genetic adaptation will determine ‘winners’ and ‘losers’. *J. Exp. Biol.* **213**, 912–920 (2010).

2. **Pereira, R. J.**, Sasaki, M. C. & Burton, R. S. Adaptation to a latitudinal thermal gradient within a widespread copepod species: The contributions of genetic divergence and phenotypic plasticity. *Proc. R. Soc. B Biol. Sci.* **284**, 2017023 (2017).

3. **Rummer, J.** L. *et al.* Life on the edge: Thermal optima for aerobic scope of equatorial reef fishes are close to current day temperatures. *Glob. Chang. Biol.* **20**, 1055–1066 (2014).

4. **Yampolsky, L. Y**., Schaer, T. M. M. & Ebert, D. Adaptive phenotypic plasticity and local adaptation for temperature tolerance in freshwater zooplankton. *Proc. R. Soc. B Biol. Sci.* **281**, 20132744 (2014).

5. **Nilsson, G. E**., Crawley, N., Lunde, I. G. & Munday, P. L. Elevated temperature reduces the respiratory scope of coral reef fishes. *Glob. Chang. Biol.* **15**, 1405–1412 (2009).

6. **Hereford, J**. A quantitative survey of local adaptation and fitness trade-offs. *Am. Nat.* **173**, 579–588 (2009).

7. **Sasaki, M. C**. & Dam, H. G. Integrating patterns of thermal tolerance and phenotypic plasticity with population genetics to improve understanding of vulnerability to warming in a widespread copepod. *Glob. Chang. Biol.* **25**, 4147–4164 (2019).

8. **Moran, E. V**. & Alexander, J. M. Evolutionary responses to global change: Lessons from invasive species. *Ecol. Lett.* **17**, 637–649 (2014).

9. **Valladares, F**. *et al.* The effects of phenotypic plasticity and local adaptation on forecasts of species range shifts under climate change. *Ecol. Lett.* **17**, 1351–1364 (2014).

10. **Hampe, A.** & Petit, R. J. Conserving biodiversity under climate change: The rear edge matters. *Ecol. Lett.* **8**, 461–467 (2005).

11. **Kawecki, T. J**. & Ebert, D. Conceptual issues in local adaptation. *Ecol. Lett.* **7**, 1225–1241 (2004).