

Species Affected by Changes in the Environment

Snails

Original Article

Silvertown J, Cook L, Cameron R, Dodd M, McConway K, et al. (2011) [Citizen Science Reveals Unexpected Continental-Scale Evolutionary Change in a Model Organism](#). PLOS ONE 6(4): e18927.

Original Article

Kerstes, N.A.G., Breeschoten, T., Kalkman, V.J. *et al.* [Snail shell colour evolution in urban heat islands detected via citizen science](#). *Commun Biol* 2, 264 (2019).

Lower Reading Level Articles

Discover: [Crowdsourced Project Shows Some Snail Shells Lightening in Warming World](#)

The Atlantic: [Cities Are Turning Snails Yellow](#)

Lady Bugs

Original article

Brakefield, P., de Jong, P. [A steep cline in ladybird melanism has decayed over 25 years: a genetic response to climate change?](#). *Heredity* 107, 574–578 (2011).

Lower reading level Article

Science: [Ladybugs Changed Color in Response to Climate Change](#)

Sheep

Original article

Ozgul A, Tuljapurkar S, Benton TG, Pemberton JM, Clutton-Brock TH, Coulson T. [The dynamics of phenotypic change and the shrinking sheep of St. Kilda](#). *Science*. 2009 Jul 24;325(5939):464-7. doi: 10.1126/science.1173668. Epub 2009 Jul 2. PMID: 19574350; PMCID: PMC5652310.

Lower reading level Articles

NBC News: [Shrinking of Scottish sheep tied to warming](#)

AAAS: [Wild Sheep Show How Environmental Change Can Override Natural Selection](#)

Coral Reefs

NOAA: <https://oceanservice.noaa.gov/news/dec13/corals.html>

Proceedings of the National Academy of Sciences of the United States of America”

van Oppen MJH, Oakeshott JG. [A breakthrough in understanding the molecular basis of coral heat tolerance](#). Proc Natl Acad Sci U S A. 2020 Nov 17;117(46):28546-28548. doi: 10.1073/pnas.2020201117. Epub 2020 Nov 9. PMID: 33168724; PMCID: PMC7682398.

Rainbowfish

Brauer, C. J., Gates, K., Hammer, M. P., Unmack, P. J., Bernatchez, L., & Beheregaray, L. B. (2023). [Natural hybridization reduces vulnerability to climate change](#). *Nature Climate Change*, 13(3), 282-289.

Plants

Shaw, R.G. and Etterson, J.R. (2012), [Rapid climate change and the rate of adaptation: insight from experimental quantitative genetics](#). *New Phytologist*, 195: 752-765.