GG2043: Biogeography

View Online

1.

Cox, C. B. & Moore, P. D. Biogeography: An Ecological and Evolutionary Approach. (Wiley, Hoboken, NJ, 2010).

2.

Whittaker, R. J. & Fernandez-Palacios, J. M. Island Biogeography: Ecology, Evolution, and Conservation. (Oxford University Press, Oxford, 2007).

3.

Whittaker, R. J. & Fernandez-Palacios, J. M. Island Biogeography: Ecology, Evolution, and Conservation. (Oxford University Press, Oxford, 2007).

4.

Balshine, S. Patterns of Parental Care in Vertebrates. in The Evolution of Parental Care 62–80 (Oxford University Press, Oxford, 2012).

5.

Balshine, S. Patterns of Parental Care in Vertebrates. in The Evolution of Parental Care 62–80 (Oxford University Press, Oxford, 2012). doi:10.1093/acprof:oso/9780199692576.003.0004.

6.

Begon, M. Extract. in Ecology: Individuals, Populations and Communities 166–173

(Blackwell Scientific, Boston, Mass, 1990).

7.

Cox, C. B. & Moore, P. D. Biogeography: An Ecological and Evolutionary Approach. (Wiley, Hoboken, NJ, 2010).

8.

Cox, C. B. & Moore, P. D. Patterns of Distribution. in Biogeography: An Ecological and Evolutionary Approach 73–118 (Blackwell, Malden, Mass, 2010).

9.

Crowther, T. W. et al. Mapping Tree Density at a Global Scale. Nature **525**, 201–205 (2015).

10.

Fisher, D. O., Dickman, C. R., Jones, M. E. & Blomberg, S. P. Sperm Competition Drives the Evolution of Suicidal Reproduction in Mammals. Proceedings of the National Academy of Sciences **110**, 17910–17914 (2013).

11.

Fleming, T. H. Numbers of Mammal Species in North and Central American Forest Communities. Ecology **54**, 555–563 (1973).

12.

Levine, J. M. & Murrell, D. J. The Community-Level Consequences of Seed Dispersal Patterns. https://www.annualreviews.org/doi/pdf/10.1146/annurev.ecolsys.34.011802.132400 (2003).

13.

McMahon, R. F. Evolutionary and Physiological Adaptations of Aquatic Invasive Animals: R

Selection Versus Resistance. http://www.nrcresearchpress.com/doi/pdf/10.1139/f02-105 (2002).

14.

Myers, N., Mittermeier, R. A., Mittermeier, C. G., da Fonseca, G. A. B. & Kent, J. Biodiversity Hotspots for Conservation Priorities. Nature **403**, 853–858 (2000).

15.

Parmesan, C. et al. Empirical Perspectives on Species Borders: From Traditional Biogeography to Global Change. Oikos **108**, 58–75 (2005).

16.

Pimm, S. L., Russell, G. J., Gittleman, J. L. & Brooks, T. M. The Future of Biodiversity. Science **269**, 347–350 (1995).

17.

Putnam, R. J. The Geography of Animal Communities. in Themes in Biogeography 163–190 (Croom Helm, London, 1984).

18.

Ricklefs, R. E. Extract. in Ecology 560–580 (Freeman, New York, 1990).

19.

Stork, N. & Gaston, K. Counting Species One by One. NewScientist (1990).

20.

Stork, N. E., McBroom, J., Gely, C. & Hamilton, A. J. New Approaches Narrow Global Species Estimates for Beetles, Insects, and Terrestrial Arthropods. Proceedings of the National Academy of Sciences **112**, 7519–7523 (2015).

21.

Wilbur, H. M. & Rudolf, V. H. W. Life-History Evolution in Uncertain Environments: Bet Hedging in Time. The American Naturalist **168**, 398–411 (2006).

22.

Wilson, J. R. U., Dormontt, E. E., Prentis, P. J., Lowe, A. J. & Richardson, D. M. Something in the Way You Move: Dispersal Pathways Affect Invasion Success. Trends in Ecology & Evolution **24**, 136–144 (2009).

23.

Brown, J. H. Mammals on Mountaintops: Nonequilibrium Insular Biogeography. The American Naturalist **105**, 467–478 (1971).

24.

Cox, C. B. & Moore, P. D. Living in the Past. in Biogeography: An Ecological and Evolutionary Approach 201–224 (Blackwell, Malden, Mass, 2005).

25.

Cox, C. B. & Moore, P. D. Biogeography: An Ecological and Evolutionary Approach. (Blackwell, Malden, Mass, 2005).

26.

Craw, D., Burridge, C. P., Upton, P., Rowe, D. L. & Waters, J. M. Evolution of Biological Dispersal Corridors Through a Tectonically Active Mountain Range in New Zealand. Journal of Biogeography **35**, 1790–1802 (2008).

27.

de Queiroz, A. The Resurrection of Oceanic Dispersal in Historical Biogeography. Trends in Ecology & Evolution **20**, 68–73 (2005).

28.

Douady, C. J., Catzeflis, F., Raman, J., Springer, M. S. & Stanhope, M. J. The Sahara as a Vicariant Agent, and the Role of Miocene Climatic Events, in the Diversification of the Mammalian Order Macroscelidea (Elephant Shrews). Proceedings of the National Academy of Sciences **100**, 8325–8330 (2003).

29.

Hellgren, E. C., Onorato, D. P. & Skiles, J. R. Dynamics of a Black Bear Population Within a Desert Metapopulation. Biological Conservation **122**, 131–140 (2005).

30.

Herbert, T. D. et al. Late Miocene Global Cooling and the Rise of Modern Ecosystems. Nature Geoscience **9**, 843–847 (2016).

31.

Janis, C. M. & Wilhelm, P. B. Were There Mammalian Pursuit Predators in the Tertiary? Dances With Wolf Avatars. Journal of Mammalian Evolution **1**, 103–125 (1993).

32.

Krug, Andrew. Z., Jablonski, D. & Valentine, J. W. Signature of the End-Cretaceous Mass Extinction in the Modern Biota. Science **323**, 767–771 (2009).

33.

Miura, O., Torchin, M. E. & Bermingham, E. Molecular Phylogenetics Reveals Differential Divergence of Coastal Snails Separated by the Isthmus of Panama. Molecular Phylogenetics and Evolution **56**, 40–48 (2010).

34.

Poore, R. Z. Paleoclimate Reconstruction: Pliocene Environments. in Encyclopedia of Quaternary Science 1948–1958 (Elsevier, Amsterdam, Netherlands, 2007).

35.

Poore, R. Z. Paleoclimate Reconstruction: Pliocene Environments. Encyclopedia of Quaternary Science 1948–1958 (2007).

36.

Zachos, J., Pagani, M., Sloan, L., Thomas, E. & Billups, K. Trends, Rhythms, and Aberrations in Global Climate 65 Ma to Present. Science **292**, 686–693 (2001).

37.

Bodmer, R. E. Responses of Ungulates to Seasonal Inundations in the Amazon Floodplain. Journal of Tropical Ecology **6**, 191–201 (1990).

38.

Bond, W. J., Silander, J. A., Ranaivonasy, J. & Ratsirarson, J. The Antiquity of Madagascar's Grasslands and the Rise of C_4 Grassy Biomes. Journal of Biogeography **35**, 1743–1758 (2008).

39.

Burghouts, T. B. A., Campbell, E. J. F. & Kolderman, P. J. Effects of Tree Species Heterogeneity on Leaf Fall in Primary and Logged Dipterocarp Forest in the Ulu Segama Forest Reserve, Sabah, Malaysia. Journal of Tropical Ecology **10**, 1–26 (1994).

40.

Cerling, T. E. Development of Grasslands and Savannas in East Africa During the Neogene. Palaeogeography, Palaeoclimatology, Palaeoecology **97**, 241–247 (1992).

41.

Corlett, R. T. & Primack, R. B. Tropical Rainforests and the Need for Cross-Continental Comparisons. Trends in Ecology & Evolution **21**, 104–110 (2006).

42.

de Souza-Stevaux, M. C., Negrelle, R. R. B. & Citadini-Zanette, V. Seed Dispersal by the

Fish Pterodoras Granulosus in the Parana River Basin, Brazil. Journal of Tropical Ecology **10**, 621–626 (1994).

43.

Estrada, A. & Coates-Estrada, R. Howler Monkeys (Alouatta palliata), Dung Beetles (Scarabaeidae) and Seed Dispersal: Ecological Interactions in the Tropical rain Forest of Los Tuxtlas, Mexico. Journal of Tropical Ecology **7**, 459–474 (1991).

44.

Furley, P. A. The Nature and Diversity of Neotropical Savanna Vegetation With Particular Reference to the Brazilian Cerrados. Global Ecology and Biogeography **8**, 223–241 (1999).

45.

Janis, C. M. Tertiary Mammal Evolution in the Context of Changing Climates, Vegetation, and Tectonic Events. Annual Review of Ecology and Systematics **24**, 467–500 (1993).

46.

Kemper, C. & Bell, D. T. Small Mammals and Habitat Structure in Lowland Rain Forest of Peninsular Malaysia. Journal of Tropical Ecology **1**, 5–22 (1985).

47.

Mabberley, D. J. Tropical Rain Forest Ecology. (Blackie, Glasgow, 1992).

48.

Ohsawa, M., Nainggolan, P. H. J., Tanaka, N. & Anwar, C. Altitudinal Zonation of Forest Vegetation on Mount Kerinci, Sumatra: With Comparisons to Zonation in the Temperate Region of East Asia. Journal of Tropical Ecology **1**, 193–216 (1985).

49.

Peres, C. A. Structure and Spatial Organization of an Amazonian Terra Firme Forest

Primate Community. Journal of Tropical Ecology **9**, 259–276 (1993).

50.

Ratter, J. A., Ribeiro, J. F. & Bridgewater, S. The Brazilian Cerrado Vegetation and Threats to its Biodiversity. Annals of Botany **80**, 223–230 (1997).

51.

Stork, N. E. The Composition of the Arthropod Fauna of Bornean Lowland Rain Forest Trees. Journal of Tropical Ecology **7**, 161–180 (1991).

52.

Williams, R. J., Duff, G. A., Bowman, D. M. J. S. & Cook, G. D. Variation in the Composition and Structure of Tropical Savannas as a Function of Rainfall and Soil Texture Along a Large-Scale Climatic Gradient in the Northern Territory, Australia. Journal of Biogeography **23**, 747–756 (1996).

53.

Cox, C. B. & Moore, P. D. Biogeography: An Ecological and Evolutionary Approach. (Wiley, Hoboken, NJ, 2010).

54.

Cox, C. B. & Moore, P. D. Biogeography: An Ecological and Evolutionary Approach. (Blackwell, Malden, Mass, 2005).

55.

Crowther, T. W., Todd-Brown, K. E. O., Rowe, C. W. & Wieder, W. R. Quantifying Global Soil Carbon Losses in Response to Warming. Nature **540**, 104–108 (2016).

56.

Davidson, E. A. & Reich, P. B. Permafrost and Wetland Carbon Stocks [with Response]. Science **330**, 1176–1177 (2010).

57.

Froese, D. G., Westgate, J. A., Reyes, A. V., Enkin, R. J. & Preece, S. J. Ancient Permafrost and a Future, Warmer Arctic. Science **321**, 1648–1648 (2008).

58.

Gauthier, S., Bernier, P., Kuuluvainen, T., Shvidenko, A. Z. & Schepaschenko, D. G. Boreal Forest Health and Global Change. Science **349**, 819–822 (2015).

59.

Krebs, C. J., Boonstra, R., Boutin, S. & Sinclair, A. R. E. What Drives the 10-year Cycle of Snowshoe Hares? BioScience **51**, 25–35 (2001).

60.

Mack, M. C. et al. Carbon Loss From an Unprecedented Arctic Tundra Wildfire. Nature **475**, 489–492 (2011).

61.

Nolan, C. et al. Past and Future Global Transformation of Terrestrial Ecosystems Under Climate Change. Science **361**, 920–923 (2018).

62.

Randerson, J. T. et al. The Impact of Boreal Forest Fire on Climate Warming. Science **314**, 1130–1132 (2006).

63.

Viereck, L. A. Wildfire in the Taiga of Alaska. https://ac.els-cdn.com/0033589473900094/1-s2.0-0033589473900094-main.pdf?_tid=12de7db0-d8a8-419b-bfab-44c70e2123fe&acdnat=1542816441_54ab8d16b990b204d092df40fb9d6384.

64.

Zimov, S. A., Schuur, E. A. G. & Chapin, F. S. Permafrost and the Global Carbon Budget. Science **312**, 1612–1613 (2006).

65.

Bond, W. J., Woodward, F. I. & Midgley, G. F. The Global Distribution of Ecosystems in a World Without Fire. New Phytologist **165**, 525–538 (2004).

66.

Fire in the Earth System. (2009).

67.

Gavin, D. G. et al. Forest Fire and Climate Change in Western North America: Insights From Sediment Charcoal Records. Frontiers in Ecology and the Environment **5**, 499–506 (2007).

68.

Learning to Coexist With Wildfires. (2014).

69.

The Burning Issue. (2010).

70.

Stephens, S. L. et al. Managing Forests and Fire in Changing Climates. Science **342**, 41–42 (2013).

71.

Forests, Fires and Climate. (2004).

72.

Aguirre, L. F., Herrel, A., van Damme, R. & Matthysen, E. Ecomorphological Analysis of Trophic Niche Partitioning in a Tropical Savannah Bat Community. Proceedings: Biological Sciences **269**, 1271–1278 (2002).

73.

Colinvaux, P. Chapter 8 and Chapter 9. in Ecology (Wiley, New York, 1986).

74.

Connell, J. H. The Influence of Interspecific Competition and Other Factors on the Distribution of the Barnacle Chthamalus Stellatus. Ecology **42**, 710–723 (1961).

75.

Cox, C. B. & Moore, P. D. Biogeography: An Ecological and Evolutionary Approach. (Wiley, Hoboken, NJ, 2010).

76.

Estes, J. E., Smith, N. S. & Palmisano, J. F. Sea Otter Predation and Community Organization in the Western Aleutian Islands, Alaska. Ecology **59**, 822–833 (1978).

77.

Estes, J. A., Tinker, M. T., Williams, T. M. & Doak, D. F. Killer Whale Predation on Sea Otters Linking Oceanic and Nearshore Ecosystems. Science **282**, 473–476 (1998).

78.

Genner, M. J., Turner, G. F. & Hawkins, S. J. Foraging of Rocky Habitat Cichlid Fishes in Lake Malawi: Coexistence Through Niche Partitioning? Oecologia **121**, 283–292 (1999).

79.

Kauffman, M. J., Brodie, J. F. & Jules, E. S. Are Wolves Saving Yellowstone's Aspen? A

Landscape-Level Test of a Behaviorally Mediated Trophic Cascade. Ecology **91**, 2742–2755 (2010).

80.

Lawton, J. H. L. & Strong, D. R. Community Patterns and Competition in Folivorous Insects. The American Naturalist **118**, 317–338 (1981).

81.

MacArthur, R. H. Population Ecology of Some Warblers of Northeastern Coniferous Forests. Ecology **39**, 599–619 (1958).

82.

Paine, R. T. Food Web Complexity and Species Diversity. The American Naturalist **100**, 65–75 (1966).

83.

Schoener, T. W. The Anolis Lizards of Bimini: Resource Partitioning in a Complex Fauna. Ecology **49**, 704–726 (1968).

84.

Schoener, T. W. Resource Partitioning in Ecological Communities. Science **185**, 27–39 (1974).

85.

Pol, M. van de et al. Oystercatchers' Bill Shapes as a Proxy for Diet Specialization: More Differentiation Than Meets the Eye. Ardea **97**, 335–347 (2009).

86.

Young, T. P., Stubblefield, C. H. & Isbell, L. A. Ants on Swollen-Thorn Acacias: Species Coexistence in a Simple System. Oecologia **109**, 98–107 (1997).

87.

Abrahams, M. V., Pink, M. & Klassen, C. Predator Avoidance. in Encyclopedia of Life Sciences (Wiley Interscience, 2001). doi:10.1002/9780470015902.a0003660.

88.

Blumenthal, D. & Augustine, D. Plant Interactions with Herbivores. in Encyclopedia of Life Sciences (Wiley Interscience, 2001). doi:10.1002/9780470015902.a0003203.pub2.

89.

Castellano, S. & Cermelli, P. Preys' Exploitation of Predators' Fear: When the Caterpillar Plays the Gruffalo. Proceedings of the Royal Society B: Biological Sciences **282**, (2015).

90.

Curio, E. The Ethology of Predation. vol. Zoophysiology (Springer, Berlin, 1976).

91.

Dobson, A., Lafferty, K. D., Kuris, A. M., Hechinger, R. F. & Jetz, W. Homage to Linnaeus: How Many Parasites? How Many Hosts? Proceedings of the National Academy of Sciences of the United States of America **105**, 11482–11489 (2008).

92.

Dugatkin, L. A. & Godin, J.-G. J. Prey Approaching Predators: A Cost-Benefit Perspective. Annales Zoologici Fennici **29**, 233–252 (1992).

93.

Prudic, K. L. Predation on Animals. in Encyclopedia of Life Sciences (Wiley Interscience, 2001). doi:10.1002/9780470015902.a0003284.

94.

Krebs, C. J., Boonstra, R., Boutin, S. & Sinclair, A. R. E. What Drives the 10-year Cycle of Snowshoe Hares? BioScience **51**, 25–35 (2001).

95.

Schardl, C. L. & Chen, F. Plant Defences Against Herbivore Attack. in Encyclopedia of Life Sciences (Wiley Interscience, 2010). doi:10.1002/9780470015902.a0001324.pub2.

96.

Stevens, M. Predator Perception and the Interrelation Between Different Forms of Protective Coloration. Proceedings: Biological Sciences **274**, 1457–1464 (2007).

97.

Vucetich, J. A., Peterson, R. O. & Schaefer, C. L. The Effect of Prey and Predator Densities on Wolf Predation. Ecology **83**, 3003–3013 (2002).

98.

Cox, X. C. B. & Moore, P. D. Communities and Ecosystems. in Biogeography: An Ecological and Evolutionary Approach 119–142 (Blackwell, Malden, Mass, 2005).

99.

Cox, C. B. & Moore, P. D. Biogeography: An Ecological and Evolutionary Approach. (Blackwell, Malden, Mass, 2005).

100.

Eloy de Amorim, M. et al. Lizards on Newly Created Islands Independently and Rapidly Adapt in Morphology and Diet. Proceedings of the National Academy of Sciences **114**, 8812–8816 (2017).

101.

Godin, J.-G. J. & McDonough, H. E. Predator Preference for Brightly Colored Males in the Guppy: A Viability Cost for a Sexually Selected Trait. Behavioral Ecology **14**, 194–200

(2003).

102.

Grant, P. R. & Boag, P. T. Rainfall on the Galápagos and the Demography of Darwin's Finches. The Auk **97**, 227–244 (1980).

103.

Howlett, R. J. & Majerus, M. E. N. The Understanding of Industrial Melanism in the Peppered Moth (Biston Betularia) (Lepidoptera: Geometridae). Biological Journal of the Linnean Society **30**, 31–44 (1987).

104.

Wake, D. B. & Yanev, K. P. Geographic Variation in Allozymes in a 'Ring Species,' the Plethodontid Salamander Ensatina eschscholtzii of Western North America. Evolution **40**, 702–715 (1986).

105.

Alcover, J. A., Sans, A. & Palmer, M. The Extent of Extinctions of Mammals on Islands. Journal of Biogeography **25**, 913–918 (1998).

106.

Baker, A. J. et al. Reconstructing the Tempo and Mode of Evolution in an Extinct Clade of Birds with Ancient DNA: The Giant Moas of New Zealand. Proceedings of the National Academy of Sciences of the United States of America **102**, 8257–8262 (2005).

107.

Bunce, M. et al. Ancient DNA Provides New Insights Into the Evolutionary History of New Zealand's Extinct Giant Eagle. PLoS Biology **3**, (2005).

108.

Clauss, M. et al. The Maximum Attainable Body Size of Herbivorous Mammals:

Morphophysiological Constraints on Foregut, and Adaptations of Hindgut Fermenters. Oecologia **136**, 14–27 (2003).

109.

Courchamp, F., Hoffmann, B. D., Russell, J. C., Leclerc, C. & Bellard, C. Climate Change, Sea-Level Rise, and Conservation: Keeping Island Biodiversity Afloat. Trends in Ecology & Evolution **29**, 127–130 (2014).

110.

Cox, C. B. & Moore, P. D. Biogeography: An Ecological and Evolutionary Approach. (Wiley, Hoboken, NJ, 2010).

111.

Diamond, J. M. The Island Dilemma: Lessons of Modern Biogeographic Studies for the Design of Natural Reserves. Biological Conservation **7**, 129–146 (1975).

112.

Diamon, J. M. & Mayr, E. Species-Area Relation for Birds of the Solomon Archipelago. Proceedings of the National Academy of Sciences of the United States of America **73**, 262–266 (1976).

113.

Heaney, L. R. Guest Editorial: Is a New Paradigm Emerging for Oceanic Island Biogeography? Journal of Biogeography **34**, 753–757 (2007).

114.

Hocknull, S. A. et al. Dragon's Paradise Lost: Palaeobiogeography, Evolution and Extinction of the Largest-Ever Terrestrial Lizards (Varanidae). PLoS ONE **4**, (2009).

115.

Laurance, W. F., Lovejoy, T. E., Vasconcelos, H. L. & Bruna, E. M. Ecosystem Decay of

Amazonian Forest Fragments: A 22-Year Investigation. Conservation Biology **16**, 605–618 (2002).

116.

Millien-Parra, V. & Jaeger, J.-J. Island Biogeography of the Japanese Terrestrial Mammal Assemblages: An Example of a Relict Fauna. Journal of Biogeography **26**, 959–972 (1999).

117.

Morwood, M. J. et al. Archaeology and Age of a New Hominin From Flores in Eastern Indonesia. Nature **431**, 1087–1091 (2004).

118.

Palombo, M. R. How Can Endemic Proboscideans Help Us Understand the "Island Rule"? a Case Study of Mediterranean Islands. Quaternary International **169–170**, 105–124 (2007).

119.

Palombo, M. R. & Rozzi, R. Vertebrate Studies | Dwarfing and Gigantism in Quaternary Vertebrates. in Encyclopedia of Quaternary Science (eds Elias, S. A. & Mock, C. J.) 733–747 (Elsevier, Amsterdam, 2013). doi:10.1016/B978-0-444-53643-3.00257-0.

120.

Quammen, D. The Song of the Dodo: Island Biogeography in an Age of Extinctions. (Pimlico, London, 1997).

121.

Simberloff, D. Species Turnover and Equilibrium Island Biogeography. Science **194**, 572–278 (1976).

122.

Steadman, D. W. Prehistoric Extinctions of Pacific Island Birds: Biodiversity Meets Zooarchaeology. Science **267**, 1123–1131 (1995).

123.

Whittaker, R. J., Triantis, K. A. & Ladle, R. J. A General Dynamic Theory of Oceanic Island Biogeography. Journal of Biogeography **35**, 977–994 (2008).

124.

Arribas, A. & Palmqvist, P. On the Ecological Connection Between Sabre-tooths and Hominids: Faunal Dispersal Events in the Lower Pleistocene and a Review of the Evidence for the First Human Arrival in Europe. Journal of Archaeological Science **26**, 571–585 (1999).

125.

Baquero, R. A. & Tellería, J. L. Species Richness, Rarity and Endemicity of European Mammals: A Biogeographical Approach. Biodiversity and Conservation **10**, 29–44 (2001).

126.

Baquero, R. A. & Telleria, J. L. Exceptional Record of Mid-Pleistocene Vertebrates Helps Differentiate Climatic From Anthropogenic Ecosystem Perturbations.

127.

Boeskorov, G. G. et al. Woolly Rhino Discovery in the Lower Kolyma River. Quaternary Science Reviews **30**, 2262–2272 (2011).

128.

Brace, S. et al. Serial Population Extinctions in a Small Mammal Indicate Late Pleistocene Ecosystem Instability. Proceedings of the National Academy of Sciences of the United States of America **109**, 20532–20536 (2012).

129.

Currant, A. P. & Jacobi, R. The Mammal Faunas of the British Late Pleistocene. in The Ancient Human Occupation of Britain vol. 14 165–180 (Elsevier, Amsterdam, 2010).

130.

Graham, R. W., Lundelius, E. L., Graham, M. A. & Schroeder, E. K. Spatial Response of Mammals to Late Quaternary Environmental Fluctuations. Science **272**, 1601–1606 (1996).

131.

Grayson, D. K. The Late Quaternary Biogeographic Histories of Some Great Basin Mammals (Western USA). Quaternary Science Reviews **25**, 2964–2991 (2006).

132.

Grayson, D. K. The Late Quaternary Biogeographic Histories of Some Great Basin Mammals (Western Usa). Quaternary Science Reviews **25**, 2964–2991 (2006).

133.

Hewitt, G. The Genetic Legacy of the Quaternary Ice Ages. Nature **405**, 907–913 (2000).

134.

Lessa, E. P., Cook, J. A. & Patton, J. L. Genetic Footprints of Demographic Expansion in North America, but Not Amazonia, During the Late Quaternary. Proceedings of the National Academy of Sciences of the United States of America **100**, 10331–10334 (2003).

135.

Lister, A. M. The Impact of Quaternary Ice Ages on Mammalian Evolution. Philosophical Transactions: Biological Sciences **359**, 221–241 (2004).

136.

Meiri, S. & Dayan, T. On the Validity of Bergmann's Rule. Journal of Biogeography **30**,

331–351 (2003).

137.

Ritz, M. S. et al. Phylogeography of the Southern Skua Complex—rapid Colonization of the Southern Hemisphere During a Glacial Period and Reticulate Evolution. Molecular Phylogenetics and Evolution **49**, 292–303 (2008).

138.

Rodgers, W. A., Owen, C. F. & Homewood, K. M. Biogeography of East African Forest Mammals. Journal of Biogeography **9**, 41–54 (1982).

139.

Schreve, D. C. Differentiation of the British Late Middle Pleistocene Interglacials: The Evidence From Mammalian Biostratigraphy. Quaternary Science Reviews **20**, 1693–1705 (2001).

140.

Stewart, J. R. The Ecology and Adaptation of Neanderthals During the Non-Analogue Environment of Oxygen Isotope Stage 3. Quaternary International **137**, 35–46 (2005).

141.

van den Bergh, G. D., de Vos, J. & Sondaar, P. Y. The Late Quaternary Palaeogeography of Mammal Evolution in the Indonesian Archipelago. Palaeogeography, Palaeoclimatology, Palaeoecology **171**, 385–408 (2001).

142.

Bennett, K. D. Continuing the Debate on the Role of Quaternary Environmental Change for Macroevolution. Philosophical Transactions: Biological Sciences **359**, 295–303 (2004).

143.

Brubaker, L. B., Anderson, P. M., Edwards, M. E. & Lozhkin, A. V. Beringia as a Glacial

Refugium for Boreal Trees and Shrubs: New Perspectives from Mapped Pollen Data. Journal of Biogeography **32**, 833–848 (2005).

144.

Erkens, R. H. J., Chatrou, L. W., Maas, J. W., van der Niet, T. & Savolainen, V. A Rapid Diversification of Rainforest Trees (Guatteria; Annonaceae) Following Dispersal From Central Into South America. Molecular Phylogenetics and Evolution **44**, 399–411 (2007).

145.

Hooghiemstra, H. & Berrio, J. C. Pollen Records, Late Pleistocene | South America. in Encyclopedia of Quaternary Science (eds Elias, S. A. & Mock, C. J.) 52–62 (Elsevier, Amsterdam, 2013). doi:10.1016/B978-0-444-53643-3.00188-6.

146.

Huntley, B. How Plants Respond to Climate Change: Migration Rates, Individualism and the Consequences for Plant Communities. Annals of Botany **67**, 15–22 (1991).

147.

Pennington, R. T. & Dick, C. W. The Role of Immigrants in the Assembly of the South American Rainforest Tree Flora. Philosophical Transactions: Biological Sciences **359**, 1611–1622 (2004).

148.

Tzedakis, C. Pollen Records, Last Interglacial of Europe. in Encyclopedia of Quaternary Science (eds Elias, S. A. & Mock, C. J.) 1–8 (Elsevier, Amsterdam, 2013). doi:10.1016/B978-0-444-53643-3.00183-7.

149.

Thompson, R. S. Pollen Records, Late Pleistocene | Western North America. in Encyclopedia of Quaternary Science (eds Elias, S. A. & Mock, C. J.) 72–83 (Elsevier, Amsterdam, 2013). doi:10.1016/B978-0-444-53643-3.00190-4.

150.

Willis, K. J. & Niklas, K. J. The Role of Quaternary Environmental Change in Plant Macroevolution: The Exception or the Rule? Philosophical Transactions: Biological Sciences **359**, 159–172 (2004).

151.

Aguirre, M. L., Richiano, S. & Negro Sirch, Y. Palaeoenvironments and Palaeoclimates of the Quaternary Molluscan Faunas From the Coastal Area of Bahía Vera-Camarones (Chubut, Patagonia). Palaeogeography, Palaeoclimatology, Palaeoecology **229**, 251–286 (2006).

152.

Limondin-Lozouet, N. & Preece, R. C. Molluscan Successions From the Holocene Tufa of St Germain-Le-Vasson, Normandy(france) and Their Biogeographical Significance. Journal of Quaternary Science **19**, 55–71 (2004).

153.

Meijer, T. & Preece, R. C. Malacological Evidence Relating to the Insularity of the British Isles During the Quaternary. in Island Britain: A Quaternary perspective vol. 96 89–110 (Geological Society, London, 1995).

154.

Meijer, T. & Preece, R. C. A Review of the Occurrence of Corbicula in the Pleistocene of North-West Europe. Netherlands Journal of Geosciences **79**, 241–255 (2000).

155.

Meyrick, R. A. & Preece, R. C. Molluscan Successions from Two Holocene Tufas Near Northampton, English Midlands. Journal of Biogeography **28**, 77–93 (2001).

156.

Quinn, T. M. & Schöne, B. R. Paleoceanography, Biological Proxies | Corals, Sclerosponges and Mollusks. in Encyclopedia of Quaternary Science (eds Elias, S. A. & Mock, C. J.) 795–799 (Elsevier, Amsterdam, 2013). doi:10.1016/B978-0-444-53643-3.00282-X.

157.

Rousseau, D.-D., Puisségur, J.-J. & Lécolle, F. West-European Terrestrial Molluscs Assemblages of Isotopic Stage 11 (Middle Pleistocene): Climatic Implications. Palaeogeography, Palaeoclimatology, Palaeoecology **92**, 15–29 (1992).

158.

Balbo, A., Madella, M., Godino, I. B. & Álvarez, M. Shell Midden Research: An Interdisciplinary Agenda for the Quaternary and Social Sciences. Quaternary International **239**, 147–152 (2011).

159.

Alvarez, W. et al. Impact Theory of Mass Extinctions and the Invertebrate Fossil Record. Science **223**, 1135–1141 (1984).

160.

Elias, S. A. & Schreve, D. C. Vertebrate Records | Late Pleistocene Megafaunal Extinctions. in Encyclopedia of Quaternary Science (eds Elias, S. A. & Mock, C. J.) 700–712 (Elsevier, Amsterdam, 2013). doi:10.1016/B978-0-444-53643-3.00245-4.

161.

Grayson, D. K. & Meltzer, D. J. A Requiem for North American Overkill. Journal of Archaeological Science **30**, 585–593 (2003).

162.

Lister, A. M. & Stuart, A. J. The Impact of Climate Change on Large Mammal Distribution and Extinction: Evidence From the Last Glacial/interglacial Transition. Comptes Rendus Geoscience **340**, 615–620 (2008).

163.

McLean, D. M. Deccan Traps Mantle Degassing in the Terminal Cretaceous Marine Extinctions. Cretaceous Research **6**, 235–259 (1985).

164.

Miller, G. H. et al. Pleistocene Extinction of Genyornis Newtoni: Human Impact on Australian Megafauna. Science **283**, 205–208 (1999).

165.

Pimm, S. L. & Raven, P. Extinction by Numbers. Nature **403**, 843–845 (2000).

166.

Primack, R. B. Essentials of Conservation Biology. (Sinauer Associates, Inc., Publishers, Sunderland, Massachusetts, 2014).

167.

Roberts, R. G. et al. New Ages for the Last Australian Megafauna: Continent-Wide Extinction about 46,000 Years Ago. Science **292**, 1888–1892 (2001).

168.

Sahney, S. & Benton, M. J. Recovery from the Most Profound Mass Extinction of All Time. Proceedings: Biological Sciences **275**, 759–765 (2008).

169.

Wroe, S. & Field, J. A Review of the Evidence for a Human Role in the Extinction of Australian Megafauna and an Alternative Interpretation. Quaternary Science Reviews **25**, 2692–2703 (2006).

170.

Baker, B. J., Armelagos, G. J., Becker, M. J. & Brothwell, D. The Origin and Antiquity of Syphilis: Paleopathological Diagnosis and Interpretation [and Comments and Reply]. Current Anthropology **29**, 703–737 (1988).

171.

de Castro, M. C. & Singer, B. H. Was Malaria Present in the Amazon Before the European Conquest? Available Evidence and Future Research Agenda. Journal of Archaeological Science **32**, 337–340 (2005).

172.

Cleaveland, S., Laurenson, M. K. & Taylor, L. H. Diseases of Humans and Their Domestic Mammals: Pathogen Characteristics, Host Range and the Risk of Emergence. Philosophical Transactions: Biological Sciences **356**, 991–999 (2001).

173.

Girling, M. A. & Greig, J. A First Fossil Record for Scolytus Scolytus (f.) (Elm Bark Beetle): Its Occurrence in Elm Decline Deposits From London and the Implications for Neolithic Elm Disease. Journal of Archaeological Science **12**, 347–351 (1985).

174.

Harvell, C. D., Mitchell, C. E., Ward, J. R. & Altizer, S. Climate Warming and Disease Risks for Terrestrial and Marine Biota. Science **296**, 2158–2162 (2002).

175.

Kathleen Lyons, S., Smith, F. A., Wagner, P. J., White, E. P. & Brown, J. H. Was a 'Hyperdisease' Responsible for the Late Pleistocene Megafaunal Extinction? Ecology Letters **7**, 859–868 (2004).

176.

Patz, J. A. & Olson, S. H. Climate Change and Health: Global to Local Influences on Disease Risk. Annals of Tropical Medicine & Parasitology **100**, 535–549 (2006).

177.

Santini, A. et al. Biogeographical Patterns and Determinants of Invasion by Forest Pathogens in Europe. The New Phytologist **197**, 238–250 (2013).

178.

Buckland, P. C. & Sadler, Jon. P. A Biogeography of the Human Flea, Pulex irritans L. (Siphonaptera: Pulicidae). Journal of Biogeography **16**, 115–120 (1989).

179.

Russell Coope, G. Insect Faunas Associated with Palaeolithic Industries from Five Sites of Pre-Anglian Age in Central England. Quaternary Science Reviews **25**, 1738–1754 (2006).

180.

Coope, G. R. Coleopteran Faunas as Indicators of Interglacial Climates in Central and Southern England. Quaternary Science Reviews **29**, 1507–1514 (2010).

181.

Elias, S. A. Late Quaternary Zoogeography of the Chihuahuan Desert Insect Fauna, Based on Fossil Records from Packrat Middens. Journal of Biogeography **19**, 285–297 (1992).

182.

Elias, S. A. Insect Zoogeography in the Quaternary. in Advances in Quaternary Entomology vol. Developments in Quaternary Science 79–87 (Elsevier, Amsterdam, 2010).

183.

Elias, S. A. Insect Zoogeography in the Quaternary. in Advances in Quaternary Entomology vol. Developments in Quaternary Sciences 79–87 (Elsevier, Amsterdam, 2009).

184.

Elias, S. A., Berman, D. & Alfimov, A. Late Pleistocene Beetle Faunas of Beringia: Where East Met West. Journal of Biogeography **27**, 1349–1363 (2000).

185.

Elias, S. A. & Crocker, B. The Bering Land Bridge: A Moisture Barrier to the Dispersal of Steppe–Tundra Biota? Quaternary Science Reviews **27**, 2473–2483 (2008).

186.

Paleo Records as a Guide for Ecosystem Management and Biodiversity Conservation. (2017).

187.

Jackson, S. T. & Hobbs, R. J. Ecological Restoration in the Light of Ecological History. Science **325**, 567–569 (2009).

188.

Hanewinkel, M., Cullmann, D. A., Schelhaas, M.-J., Nabuurs, G.-J. & Zimmermann, N. E. Climate Change May Cause Severe Loss in the Economic Value of European Forest Land. Nature Climate Change **3**, 203–207 (2013).

189.

Seddon, P. J., Griffiths, C. J., Soorae, P. S. & Armstrong, D. P. Reversing Defaunation: Restoring Species in a Changing World. Science **345**, 406–412 (2014).

190.

Willis, K. J. & Birks, H. J. B. What Is Natural? The Need for a Long-Term Perspective in Biodiversity Conservation. Science **314**, 1261–1265 (2006).

191.

Willis, K. J., Bailey, R. M., Bhagwat, S. A. & Birks, H. J. B. Biodiversity Baselines, Thresholds and Resilience: Testing Predictions and Assumptions Using Palaeoecological Data. Trends in Ecology & Evolution **25**, 583–591 (2010).

192.

Whitlock, C., Colombaroli, D., Conedera, M. & Tinner, W. Land-Use History as a Guide for

Forest Conservation and Management. Conservation Biology **32**, 84–97 (2018).