

Unit 149 Biogeography

Extended reading list

Chapter 2 Properties of species, genera and families

Books

- Allaby, M. *A Dictionary of Ecology*. (Oxford: Oxford University Press, 2006) 3rd ed. [ISBN 0192800787].
- Cherrett, J.M. (ed.) *Ecological Concepts: the contribution of ecology to an understanding of the natural world*. (Oxford: Blackwell Scientific Publications, 1989) [ISBN 0632025719 (pbk)].
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- Clabby, G. and B.A. Osborn. 'Biological Flora of the British Isles *Mycelis muralis* (L.) Dumort.(*Lactuca muralis* (L.) Gaertner.)', *Journal of Ecology* 87, 1999, pp.156–172.
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- Silvertown, J. 'Plant coexistence and the niche.' *TRENDS in Ecology and Evolution*, 19, 2004, pp.605–611.
- Thompson, R.S., K.H. Anderson and P.J. Bartlein. *Atlas of relations between climatic parameters and distributions of important trees and shrubs in North America. US Geological Survey Professional Paper 1650 A,B*. (Reston: US Geological Survey, 1990) (<http://pubs.usgs.gov/pp/p1650-a>)
- Whittaker, R.H. 'Gradient analysis of vegetation', *Biological Reviews* 42, 1967, pp.201–264.

Chapter 3 Patterns in space

Books

- Archibold, O.W. *Ecology of World Vegetation*. (London: Chapman and Hall, 1995) [ISBN 0412443007].
- Baillie, J.E.M., C. Hilton-Taylor and S.N. Stuart (eds.) *2004 IUCN Red List of Threatened Species: A Global Species Assessment*. (Gland, Switzerland and Cambridge, UK, IUCN, 2004) PDF from http://www.iucn.org/themes/ssc/red_list_2004/main_EN.htm
- Cox, C.B. and P.D. Moore. *Biogeography: An ecological and evolutionary approach*. (Oxford: Blackwell Scientific Publications, 1993) 5th ed. [ISBN 0632029676]. Chapters 3, 7 and 8–11. There is a 6th ed., 2000, [ISBN 086542778X].

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Krebs, C.J. *Ecology: The experimental analysis of distribution and Abundance*. (New York: Harper Collins, 1994) [ISBN 0065004108 (pbk)]. A 5th edition is available. 2000 [ISBN 0321042891].

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Kutzbach, J., R. Gallimore, S. Harrison, P. Behling, R. Selin and F. Laarif. 'Climate and biome simulations for the past 21,000 years', *Quaternary Science Reviews* 17, 1998, pp.473–506.

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Books and Book chapters

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Benton, M.J. and P.C.J. Donoghue. Paleontological Evidence to Date the Tree of Life. *Molecular Biology and Evolution* 24(1) 2006, pp.26–53. PDF from <http://palaeo.gly.bris.ac.uk/Benton/reprints/2007mbe.pdf>.

Benton, M.J. and F.J. Ayala. 'Dating the Tree of Life'. *Science* 300, 2003, pp.1698–1700. PDF from <http://palaeo.gly.bris.ac.uk/Benton/reprints/2003Ayala.pdf>.

Berner, R.A. and Z. Kothavala. 'GEOCARB III: A revised model of atmospheric CO₂ over Phanerozoic time', *American Journal of Science* 301, 2001, pp.182–204. (<http://www.geology.yale.edu/~ajs/2001/Feb/qn020100182.pdf>).

Birks, H.J.B. 'Late-quaternary biotic change in terrestrial and lacustrine environments, with particular reference to north-west Europe', in Berglund, B.E. (ed.). *Handbook of Holocene Palaeoecology and Palaeohydrology*. (Chichester: John Wiley and Sons, 1986) [ISBN 0471906913] pp.3–66.

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- Williams, J.W. *et al.*, 'Late Quaternary vegetation dynamics in North America: scaling from taxa to biomes.' *Ecological Monographs*, 74, 2004, pp.309-334. Interactive iso-pollen maps from this publication can be viewed at <http://www.ncdc.noaa.gov/paleo/pollen/viewer/webviewer.html>.
- Williams, J.W. *et al.*, Atlas of Pollen-Vegetation-Climate Relationships for the United States and Canada *American Association of Stratigraphic Palynologists*, December 2006 Contribution Series No. 43 <http://www.ncdc.noaa.gov/paleo/pubs/williams2006/williams2006.html>.

Chapter 5 Vegetation growth and climate

Books

- Chapin, F.S.I., P.A. Matson and H.A. Mooney. *Principles of Terrestrial Ecosystem Ecology*. (Berlin: Springer-Verlag, 2004) [ISBN 0387954430]. Chapters 4-6.
- Long, S.P., M.B. Jones and M.J. Roberts. *Primary Productivity of Grass Ecosystems of the Tropics*. (London: Chapman and Hall, 1992) [ISBN 0412410206].
- Robinson, P.J. and A. Henderson-Sellers. *Contemporary Climatology*. (London: Longman Higher Education, 1999) 2nd ed. [ISBN 0582276314]. Chapters 2, 3, 10.

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- Baldocchi, D.D., L. Xu and N. Kiang. 'How plants functional type, weather, seasonal drought, and soil physical properties alter water and energy fluxes of an oak-grass savanna and an annual grassland', *Agricultural and Forest Meteorology* 123, 2004, pp.13-39. PDF from <http://www.osti.gov/energycitations/servlets/purl/824570-Pu45up/native/824570.pdf>.
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Chapter 6 Limiting factors at the local scale I: Light and temperature

Books

- Chapin, F.S.I., P.A. Matson and H. A. Mooney. *Principles of Terrestrial Ecosystem Ecology.* (Berlin: Springer-Verlag, 2004) [ISBN 0387954430]. Chapters 4-6.
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- Badeck, F-W., *et al.*, 'Response of spring phenology to climate change', *New Phytologist* 162, 2004, pp.295-309. A very useful review of changes in Europe.
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Chapter 7 Limiting factors at the local scale II: soil water and soil nutrients

Books

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Chapter 8 Limiting factors at the local scale III: plants and water

Books

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Chapter 9 Biogeochemical cycling through ecosystems

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ⁱ See the reviews by Furley (1994 and 1997), especially for species diversity of savannas and the ecology of fire.