

DUMF1043 Earth System Science

Full reading list for Earth System Science on University of Glasgow
Dumfries campus

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1.
Kump, L. R., Kasting, J. F. & Crane, R. G. The Earth System. (Pearson, Harlow, Essex, 2014).
 2.
Holden, J. & Dawson Books. An Introduction to Physical Geography and the Environment. (Pearson, Harlow, Essex, 2012).
 3.
Diamond, J. M. Collapse: How Societies Choose to Fail or Survive. (Allen Lane, 2005).
 4.
Benn, D. I. & Evans, D. J. A. Glaciers & Glaciation. (Routledge, London, 2013).
 5.
Bell, M. & Walker, M. J. C. Late Quaternary Environmental Change: Physical and Human Perspectives. (Routledge, an imprint of the Taylor & Francis Group, Abingdon, Oxon, 2013).
 6.
Kump, L. R. The Earth System: Chapter 2 Daisyworld An Introduction to Systems. (Prentice Hall, 2009).

7.

Swindles, G. T. et al. The long-term fate of permafrost peatlands under rapid climate warming. Scientific Reports **5**, (2015).

8.

NASA - Daisyworld - This World Is Black and White. (18 AD).

9.

Daisyworld pt.1 : James Lovelock and Gaia. (2009).

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Daisyworld pt.2: Gaia and Daisyworld. (2009).

11.

Daisyworld pt.3: Self regulation. (2009).

12.

Daisyworld Pt.4: Gaia theory and the real world. (2009).

13.

Lovelock, J. Gaia: A New Look at Life on Earth. (Oxford University Press, Oxford, 1982).

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Lovelock, J. The Revenge of Gaia: Why the Earth Is Fighting Back - and How We Can Still Save Humanity. vol. Penguin celebrations (Penguin, London, 2007).

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Lovelock, J. The Vanishing Face of Gaia: A Final Warning. (Allen Lane, London, 2009).

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NASA - Daisyworld - This World Is Black and White. (18 AD).

17.

Monastersky, R. & Sousanis, N. The fragile framework. Nature **527**, 427–435 (2015).

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The explosive science of volcanoes and peat bogs | Bogology.

<http://bogology.org/2014/08/28/the-explosive-science-of-volcanoes-and-peat-bogs/>.

19.

A Robust Response of the East Asian Monsoon Rainband to Solar Variability | Musings on Quantitative Palaeoecology.

<https://quantpalaeo.wordpress.com/2015/02/01/a-robust-response-of-the-east-asian-monsoon-rainband-to-solar-variability/>.

20.

Animation: Satellite images of surging glaciers in Asia - Carbon Brief.

http://www.carbonbrief.org/animation-satellite-images-of-surging-glaciers-in-asia?utm_content=buffer98022&utm_medium=social&utm_source=twitter.com&utm_campaign=buffer.

21.

How A Simple Truth Can Be A Most Effective Lie - Dan's Wild Wild Science Journal - AGU Blogosphere.

<http://blogs.agu.org/wildwildscience/2015/12/06/half-the-truth-can-be-a-most-effective-lie/>.

22.

The Nitrogen Cascade. (19 AD).

23.

The most influential climate change papers of all time - Carbon Brief.

<http://www.carbonbrief.org/the-most-influential-climate-change-papers-of-all-time>.

24.

Dessler, A. E. A Determination of the Cloud Feedback from Climate Variations over the Past Decade. *Science* **330**, 1523–1527 (2010).

25.

Kump, L. R. The Earth System (Chapter 3). (Prentice Hall, 2009).

26.

James Hansen: Why I must speak out about climate change | TED Talk | TED.com.

http://www.ted.com/talks/james_hansen_why_i_must_speak_out_about_climate_change.

27.

CERES Brochure. http://ceres.larc.nasa.gov/ceres_brochure.php.

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Brienen, R. J. W. et al. Long-term decline of the Amazon carbon sink. *Nature* **519**, 344–348 (2015).

29.

Lisiecki, L. E. & Raymo, M. E. A Pliocene-Pleistocene stack of 57 globally distributed benthic δ O records. *Paleoceanography* **20**, n/a-n/a (2005).

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Bell, M. Late Quaternary Environmental Change: Physical and Human Perspectives (Chapter 2). (Prentice Hall, 2005).

31.

Roberts, N. Holocene: An Environmental History. (Wiley Blackwell, Chichester, England, 2014).

32.

Mann, M. E. et al. Proxy-based reconstructions of hemispheric and global surface temperature variations over the past two millennia. *Proceedings of the National Academy of Sciences* **105**, 13252–13257 (2008).

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Catalyst: Snowball Earth - ABC TV Science.
<http://www.abc.net.au/catalyst/stories/2377133.htm>.

34.

Plant macrofossils.

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Oxygen Isotopes and the Paleoclimate Record. (16 AD).

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Oxygen Isotopes and the Paleoclimate Record. (16 AD).

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Chapter 14. Pliocene Glaciations. *The Earth System* (Third Edition). Kump, Kasting,

Crane.

38.

Milankovitch Tutorial.

<http://www.sciencecourseware.org/eec/GlobalWarming/Tutorials/Milankovitch/>.

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Swindles, G. T. et al. Spheroidal carbonaceous particles are a defining stratigraphic marker for the Anthropocene. *Scientific Reports* **5**, (2015).

40.

James Balog: Time-lapse proof of extreme ice loss | TED Talk | TED.com.

http://www.ted.com/talks/james_balog_time_lapse_proof_of_extreme_ice_loss.

41.

Kjeldsen, K. K. et al. Spatial and temporal distribution of mass loss from the Greenland Ice Sheet since AD 1900. *Nature* **528**, 396–400 (2015).

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Are ice sheet losses overestimated?

<http://www.skepticalscience.com/Are-ice-sheet-losses-overestimated.html>.

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Bamber, J. Ice sheet modelling proves a slippery subject.

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GEF - Bhutan: Silent Tsunami. (25 AD).

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MacGregor, J. A. et al. Holocene deceleration of the Greenland Ice Sheet. *Science* **351**, 590–593 (2016).

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Holden, J. Chapter 7: Soil and the Environment. in *An introduction to Physical geography and the Environment* (Pearson Prentice Hall, 2010).

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Brady, N. C. *The Nature and Properties of Soils*. (Prentice Hall, 1998).

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<http://soils.org.uk/>.

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Bellamy, P. H., Loveland, P. J., Bradley, R. I., Lark, R. M. & Kirk, G. J. D. Carbon losses from all soils across England and Wales 1978–2003. *Nature* **437**, 245–248 (2005).

51.

Chapter 5 The Ocean Circulation. *The Earth System* (Third Edition). Kump, Kasting, Crane.

52.

Cai, W. et al. ENSO and greenhouse warming. *Nature Climate Change* **5**, 849–859 (2015).

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Chapter 4. The Atmospheric Circulation System. The Earth System (Third Edition). Kump, Kasting and Crane.