

# DUMF1043 Earth System Science

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

[View Online](#)



Anon. 16ADa. 'Oxygen Isotopes and the Paleoclimate Record'.

Anon. 16ADb. 'Oxygen Isotopes and the Paleoclimate Record'.

Anon. 18ADa. 'NASA - Daisyworld - This World Is Black and White'.

Anon. 18ADb. 'NASA - Daisyworld - This World Is Black and White'.

Anon. 19AD. 'The Nitrogen Cascade'.

Anon. 25AD. 'GEF - Bhutan: Silent Tsunami'.

Anon. 2009a. 'Daisyworld Pt.1 : James Lovelock and Gaia'.

Anon. 2009b. 'Daisyworld Pt.2: Gaia and Daisyworld'.

Anon. 2009c. 'Daisyworld Pt.3: Self Regulation'.

Anon. 2009d. 'Daisyworld Pt.4: Gaia Theory and the Real World'.

Anon. n.d.-a. 'A Robust Response of the East Asian Monsoon Rainband to Solar Variability | Musings on Quantitative Palaeoecology'. Retrieved (<https://quantpalaeo.wordpress.com/2015/02/01/a-robust-response-of-the-east-asian-monsoon-rainband-to-solar-variability/>).

Anon. n.d.-b. 'Animation: Satellite Images of Surging Glaciers in Asia - Carbon Brief'. Retrieved ([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](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)).

Anon. n.d.-c. 'Are Ice Sheet Losses Overestimated?' Retrieved (<http://www.skepticalscience.com/Are-ice-sheet-losses-overestimated.html>).

Anon. n.d.-d. 'Catalyst: Snowball Earth - ABC TV Science'. Retrieved (<http://www.abc.net.au/catalyst/stories/2377133.htm>).

Anon. n.d.-e. 'CERES Brochure'. Retrieved ([http://ceres.larc.nasa.gov/ceres\\_brochure.php](http://ceres.larc.nasa.gov/ceres_brochure.php)).

Anon. n.d.-f. 'How A Simple Truth Can Be A Most Effective Lie - Dan's Wild Wild Science

Journal - AGU Blogosphere'. Retrieved (<http://blogs.agu.org/wildwildscience/2015/12/06/half-the-truth-can-be-a-most-effective-lie/>).

Anon. n.d.-g. 'James Balog: Time-Lapse Proof of Extreme Ice Loss | TED Talk | TED.Com'. Retrieved ([http://www.ted.com/talks/james\\_balog\\_time\\_lapse\\_proof\\_of\\_extreme\\_ice\\_loss](http://www.ted.com/talks/james_balog_time_lapse_proof_of_extreme_ice_loss)).

Anon. n.d.-h. 'James Hansen: Why I Must Speak out about Climate Change | TED Talk | TED.Com'. Retrieved ([http://www.ted.com/talks/james\\_hansen\\_why\\_i\\_must\\_speak\\_out\\_about\\_climate\\_change](http://www.ted.com/talks/james_hansen_why_i_must_speak_out_about_climate_change)).

Anon. n.d.-i. 'Milankovitch Tutorial'. Retrieved (<http://www.sciencecourseware.org/eec/GlobalWarming/Tutorials/Milankovitch/>).

Anon. n.d.-j. 'Plant Macrofossils'.

Anon. n.d.-k. 'The Explosive Science of Volcanoes and Peat Bogs | Bogology'. Retrieved (<http://bogology.org/2014/08/28/the-explosive-science-of-volcanoes-and-peat-bogs/>).

Anon. n.d.-l. 'The Most Influential Climate Change Papers of All Time - Carbon Brief'. Retrieved (<http://www.carbonbrief.org/the-most-influential-climate-change-papers-of-all-time>).

Anon. n.d.-m. 'Welcome to the British Society of Soil Science | British Society of Soil Science'. Retrieved (<http://soils.org.uk/>).

Bamber, Jonathan. n.d. 'Ice Sheet Modelling Proves a Slippery Subject'.

Bell, Martin. 2005a. Late Quaternary Environmental Change: Physical and Human Perspectives. 2nd ed. Prentice Hall.

Bell, Martin. 2005b. Late Quaternary Environmental Change: Physical and Human Perspectives (Chapter 2). 2nd ed. Prentice Hall.

Bellamy, Pat H., Peter J. Loveland, R. Ian Bradley, R. Murray Lark, and Guy J. D. Kirk. 2005. 'Carbon Losses from All Soils across England and Wales 1978–2003'. *Nature* 437(7056):245–48. doi: 10.1038/nature04038.

Benn, Douglas I. 1998. Glaciers and Glaciation. Arnold.

Brady, Nyle C. 1998. The Nature and Properties of Soils. Prentice Hall.

Brienen, R. J. W., O. L. Phillips, T. R. Feldpausch, E. Gloor, T. R. Baker, J. Lloyd, G. Lopez-Gonzalez, A. Monteagudo-Mendoza, Y. Malhi, S. L. Lewis, R. Vásquez Martínez, M. Alexiades, E. Álvarez Dávila, P. Alvarez-Loayza, A. Andrade, L. E. O. C. Aragão, A. Araujo-Murakami, E. J. M. M. Arets, L. Arroyo, G. A. Aymard C., O. S. Bánki, C. Baraloto, J. Barroso, D. Bonal, R. G. A. Boot, J. L. C. Camargo, C. V. Castilho, V. Chama, K. J. Chao, J. Chave, J. A. Comiskey, F. Cornejo Valverde, L. da Costa, E. A. de Oliveira, A. Di Fiore, T. L. Erwin, S. Fauset, M. Forsthofer, D. R. Galbraith, E. S. Grahame, N. Groot, B. Hérault, N. Higuchi, E. N. Honorio Coronado, H. Keeling, T. J. Killeen, W. F. Laurance, S. Laurance, J. Licona, and W. E. Magnusson. 2015. 'Long-Term Decline of the Amazon Carbon Sink'. *Nature* 519(7543):344–48. doi: 10.1038/nature14283.

Cai, Wenju, Agus Santoso, Guojian Wang, Sang-Wook Yeh, Soon-Il An, Kim M. Cobb, Mat Collins, Eric Guilyardi, Fei-Fei Jin, Jong-Seong Kug, Matthieu Lengaigne, Michael J. McPhaden, Ken Takahashi, Axel Timmermann, Gabriel Vecchi, Masahiro Watanabe, and Lixin Wu. 2015. 'ENSO and Greenhouse Warming'. *Nature Climate Change* 5(9):849–59. doi: 10.1038/nclimate2743.

Dessler, A. E. 2010. 'A Determination of the Cloud Feedback from Climate Variations over the Past Decade'. *Science* 330(6010):1523–27. doi: 10.1126/science.1192546.

Diamond, Jared M. 2005. *Collapse: How Societies Choose to Fail or Survive*. Allen Lane.

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

Holden, Joseph. 2012. *An Introduction to Physical Geography and the Environment*. 3rd ed. Harlow, Essex: Pearson.

Holden, Joseph and Dawson Books. 2012. *An Introduction to Physical Geography and the Environment*. 3rd ed. Harlow, Essex: Pearson.

Kjeldsen, Kristian K., Niels J. Korsgaard, Anders A. Bjørk, Shfaqat A. Khan, Jason E. Box, Svend Funder, Nicolaj K. Larsen, Jonathan L. Bamber, William Colgan, Michiel van den Broeke, Marie-Louise Siggaard-Andersen, Christopher Nuth, Anders Schomacker, Camilla S. Andresen, Eske Willerslev, and Kurt H. Kjær. 2015. 'Spatial and Temporal Distribution of Mass Loss from the Greenland Ice Sheet since AD 1900'. *Nature* 528(7582):396–400. doi: 10.1038/nature16183.

Kump, Lee R. 2014. 'Chapter 2, Daisyworld An Introduction to Systems'. in *The Earth System*. Pearson.

Kump, Lee R., James F. Kasting, and Robert G. Crane. 2014a. 'Chapter 4. The Atmospheric Circulation System.' in *The Earth System*. Pearson.

Kump, Lee R., James F. Kasting, and Robert G. Crane. 2014b. 'Chapter 14, Pliestocene Glaciations.' in *The Earth System (Third Edition)*. Kump, Kasting, Crane. Pearson.

Kump, Lee R., James F. Kasting, and Robert G. Crane. 2014c. *The Earth System*. Third edition. Harlow, Essex: Pearson.

Kump, Lee R., James F. Kasting, Robert G. Crane, and ProQuest (Firm). 2014. *The Earth System*. Third edition. Harlow, Essex: Pearson.

Kump, Lee R., James R. Kasting, and Robert G. Crane. 2014. 'Chapter 5, The Ocean Circulation.' in *The Earth System*. Pearson.

Lisiecki, Lorraine E., and Maureen E. Raymo. 2005. 'A Pliocene-Pleistocene Stack of 57 Globally Distributed Benthic  $\delta^{18}\text{O}$  Records'. *Paleoceanography* 20(1):n/a-n/a. doi: 10.1029/2004PA001071.

Lovelock, James. 1982. *Gaia: A New Look at Life on Earth*. Oxford: Oxford University Press.

Lovelock, James. 2007. *The Revenge of Gaia: Why the Earth Is Fighting Back - and How We Can Still Save Humanity*. Vol. Penguin celebrations. London: Penguin.

Lovelock, James. 2009. *The Vanishing Face of Gaia: A Final Warning*. London: Allen Lane.

MacGregor, J. A., W. T. Colgan, M. A. Fahnestock, M. Morlighem, G. A. Catania, J. D. Paden, and S. P. Gogineni. 2016. 'Holocene Deceleration of the Greenland Ice Sheet'. *Science* 351(6273):590–93. doi: 10.1126/science.aab1702.

Mann, M. E., Z. Zhang, M. K. Hughes, R. S. Bradley, S. K. Miller, S. Rutherford, and F. Ni. 2008. 'Proxy-Based Reconstructions of Hemispheric and Global Surface Temperature Variations over the Past Two Millennia'. *Proceedings of the National Academy of Sciences* 105(36):13252–57. doi: 10.1073/pnas.0805721105.

Monastersky, Richard, and Nick Soubani. 2015. 'The Fragile Framework'. *Nature* 527(7579):427–35. doi: 10.1038/527427a.

Roberts, Neil. 2014. *Holocene: An Environmental History*. Third edition. Chichester, England: Wiley Blackwell.

Swindles, Graeme T., Paul J. Morris, Donal Mullan, Elizabeth J. Watson, T. Edward Turner, Thomas P. Roland, Matthew J. Amesbury, Ulla Kokfelt, Kristian Schoning, Steve Pratte, Angela Gallego-Sala, Dan J. Charman, Nicole Sanderson, Michelle Garneau, Jonathan L. Carrivick, Clare Woulds, Joseph Holden, Lauren Parry, and Jennifer M. Galloway. 2015. 'The Long-Term Fate of Permafrost Peatlands under Rapid Climate Warming'. *Scientific Reports* 5. doi: 10.1038/srep17951.

Swindles, Graeme T., Elizabeth Watson, T. Edward Turner, Jennifer M. Galloway, Thomas Hadlari, Jane Wheeler, and Karen L. Bacon. 2015. 'Spheroidal Carbonaceous Particles Are a Defining Stratigraphic Marker for the Anthropocene'. *Scientific Reports* 5. doi: 10.1038/srep10264.