

# DUMF1043 Earth System Science

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

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

'Animation: Satellite Images of Surging Glaciers in Asia - Carbon Brief'. N.p., n.d. Web.  
<[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)>.

'Are Ice Sheet Losses Overestimated?' N.p., n.d. Web.  
<<http://www.skepticalscience.com/Are-ice-sheet-losses-overestimated.html>>.

Bamber, Jonathan. 'Ice Sheet Modelling Proves a Slippery Subject'. n. pag. Web.  
<<http://environmentalresearchweb.org/cws/article/opinion/30465>>.

Bell, Martin. Late Quaternary Environmental Change: Physical and Human Perspectives. 2nd ed. Prentice Hall, 2005. Web.  
<[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA2118149340003931&context=L&vid=44PAI\\_V1&search\\_scope=default\\_scope&tab=default\\_tab=en\\_US=en\\_US=en\\_US](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2118149340003931&context=L&vid=44PAI_V1&search_scope=default_scope&tab=default_tab=en_US=en_US=en_US)>.

---. Late Quaternary Environmental Change: Physical and Human Perspectives (Chapter 2). 2nd ed. Prentice Hall, 2005. Web.  
<[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA2118149340003931&context=L&vid=44PAI\\_V1&search\\_scope=default\\_scope&tab=default\\_tab=en\\_US=en\\_US=en\\_US](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2118149340003931&context=L&vid=44PAI_V1&search_scope=default_scope&tab=default_tab=en_US=en_US=en_US)>.

Bellamy, Pat H. et al. 'Carbon Losses from All Soils across England and Wales 1978-2003'. Nature 437.7056 (2005): 245-248. Web.

Benn, Douglas I. Glaciers and Glaciation. Arnold, 1998. Web.  
<[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA2119276150003931&context=L&vid=44PAI\\_V1&search\\_scope=default\\_scope&tab=default\\_tab=en\\_US=en\\_US](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2119276150003931&context=L&vid=44PAI_V1&search_scope=default_scope&tab=default_tab=en_US=en_US)>.

Brady, Nyle C. The Nature and Properties of Soils. Prentice Hall, 1998. Web.  
<[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA2124386220003931&context=L&vid=44PAI\\_V1&search\\_scope=default\\_scope&tab=default\\_tab=en\\_US=en\\_US=en\\_US](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2124386220003931&context=L&vid=44PAI_V1&search_scope=default_scope&tab=default_tab=en_US=en_US=en_US)>.

Brienen, R. J. W. et al. 'Long-Term Decline of the Amazon Carbon Sink'. *Nature* 519.7543 (2015): 344–348. Web.

Cai, Wenju et al. 'ENSO and Greenhouse Warming'. *Nature Climate Change* 5.9 (2015): 849–859. Web.

'Catalyst: Snowball Earth - ABC TV Science'. N.p., n.d. Web.  
<<http://www.abc.net.au/catalyst/stories/2377133.htm>>.

'CERES Brochure'. N.p., n.d. Web. <[http://ceres.larc.nasa.gov/ceres\\_brochure.php](http://ceres.larc.nasa.gov/ceres_brochure.php)>.

'Daisyworld Pt.1 : James Lovelock and Gaia'. 17 Nov. 2009. Web.  
<<https://www.youtube.com/watch?v=-gVERGAIeng>>.

'Daisyworld Pt.2: Gaia and Daisyworld'. 17 Nov. 2009. Web.  
<<https://www.youtube.com/watch?v=1glQShSrkl1>>.

'Daisyworld Pt.3: Self Regulation'. 17 Nov. 2009. Web.  
<[https://www.youtube.com/watch?v=4\\_lszR3B8xl](https://www.youtube.com/watch?v=4_lszR3B8xl)>.

'Daisyworld Pt.4: Gaia Theory and the Real World'. 17 Nov. 2009. Web.  
<[https://www.youtube.com/watch?v=4\\_lszR3B8xl](https://www.youtube.com/watch?v=4_lszR3B8xl)>.

Dessler, A. E. 'A Determination of the Cloud Feedback from Climate Variations over the Past Decade'. *Science* 330.6010 (2010): 1523–1527. Web.

Diamond, Jared M. *Collapse: How Societies Choose to Fail or Survive*. Allen Lane, 2005. Web.  
<[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA2121617340003931&context=L&vid=44PAI\\_V1&search\\_scope=default\\_scope&tab=default\\_tab&lang=en\\_US](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2121617340003931&context=L&vid=44PAI_V1&search_scope=default_scope&tab=default_tab&lang=en_US)>.

'GEF - Bhutan: Silent Tsunami'. 25AD. Web.  
<<https://www.youtube.com/watch?v=BexXgQakves>>.

Holden, Joseph. *An Introduction to Physical Geography and the Environment*. 3rd ed. Harlow, Essex: Pearson, 2012. Web.  
<<https://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9780273740872>>.

---. 'Chapter 7: Soil and the Environment'. *An Introduction to Physical Geography and the Environment*. Pearson Prentice Hall, 2010. Web.  
<[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA211862980003931&context=L&vid=44PAI\\_V1&search\\_scope=default\\_scope&isFrbr=true&tab=default\\_tab&lang=en\\_US](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA211862980003931&context=L&vid=44PAI_V1&search_scope=default_scope&isFrbr=true&tab=default_tab&lang=en_US)>.

Holden, Joseph and Dawson Books. *An Introduction to Physical Geography and the Environment*. 3rd ed. Harlow, Essex: Pearson, 2012. Web.  
<<https://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9780273740872>>.

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

Blogosphere'. N.p., n.d. Web.

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

'James Balog: Time-Lapse Proof of Extreme Ice Loss | TED Talk | TED.Com'. N.p., n.d. Web.

<[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)>.

'James Hansen: Why I Must Speak out about Climate Change | TED Talk | TED.Com'. N.p., n.d. Web.

<[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)>.

Kjeldsen, Kristian K. et al. 'Spatial and Temporal Distribution of Mass Loss from the Greenland Ice Sheet since AD 1900'. *Nature* 528.7582 (2015): 396-400. Web.

Kump, Lee R. 'Chapter 2, Daisyworld An Introduction to Systems'. *The Earth System*. 4th ed. Pearson, 2014. Web.

<[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA2119128100003931&context=L&vid=44PAI\\_V1&search\\_scope=default\\_scope&isFrbr=true&tab=default\\_tab\[\]=en\\_US\[\]=en\\_US\[\]=en\\_US](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2119128100003931&context=L&vid=44PAI_V1&search_scope=default_scope&isFrbr=true&tab=default_tab[]=en_US[]=en_US[]=en_US)>.

---. *The Earth System*. Third edition. Harlow, Essex: Pearson, 2014. Web.

<<http://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9781292034867>>.

Kump, Lee R., James F. Kasting, and Robert G. Crane. 'Chapter 4. The Atmospheric Circulation System.' *The Earth System*. 3rd ed. Pearson, 2014. Web.

<[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA2119128100003931&context=L&vid=44PAI\\_V1\[\]=en\\_US&search\\_scope=default\\_scope&adaptor=Local%20Search%20Engine&isFrbr=true&tab=default\\_tab&query=any,contains,The%20Earth%20System&sortby=date&facet=frbrgroupid,include,2195378439&offset=0](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2119128100003931&context=L&vid=44PAI_V1[]=en_US&search_scope=default_scope&adaptor=Local%20Search%20Engine&isFrbr=true&tab=default_tab&query=any,contains,The%20Earth%20System&sortby=date&facet=frbrgroupid,include,2195378439&offset=0)>.

---. 'Chapter 14, Pliocene Glaciations.' *The Earth System (Third Edition)*. Kump, Kasting, Crane. 3rd ed. Pearson, 2014. Web.

<[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA2119128100003931&context=L&vid=44PAI\\_V1&search\\_scope=default\\_scope&isFrbr=true&tab=default\\_tab\[\]=en\\_US\[\]=en\\_US\[\]=en\\_US\[\]=en\\_US](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2119128100003931&context=L&vid=44PAI_V1&search_scope=default_scope&isFrbr=true&tab=default_tab[]=en_US[]=en_US[]=en_US[]=en_US)>.

---. *The Earth System*. Third edition. Harlow, Essex: Pearson, 2014. Web.

<<https://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9781292034867>>.

Kump, Lee R., James R. Kasting, and Robert G. Crane. 'Chapter 5, The Ocean Circulation.' *The Earth System*. 3rd ed. Pearson, 2014. Web.

<[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA2119128100003931&context=L&vid=44PAI\\_V1\[\]=en\\_US&search\\_scope=default\\_scope&adaptor=Local%20Search%20Engine&isFrbr=true&tab=default\\_tab&query=any,contains,The%20Earth%20System&sortby=date&facet=frbrgroupid,include,2195378439&offset=0](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2119128100003931&context=L&vid=44PAI_V1[]=en_US&search_scope=default_scope&adaptor=Local%20Search%20Engine&isFrbr=true&tab=default_tab&query=any,contains,The%20Earth%20System&sortby=date&facet=frbrgroupid,include,2195378439&offset=0)>.

Lisiecki, Lorraine E., and Maureen E. Raymo. 'A Pliocene-Pleistocene Stack of 57 Globally

Distributed Benthic  $\delta$  O Records'. *Paleoceanography* 20.1 (2005): n/a-n/a. Web.

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

---. *The Revenge of Gaia: Why the Earth Is Fighting Back - and How We Can Still Save Humanity*. Penguin celebrations. London: Penguin, 2007. Web. <[https://uws-primo.hosted.exlibrisgroup.com/permalink/f/1a10t95/44PAI\\_ALMA2144190980003931](https://uws-primo.hosted.exlibrisgroup.com/permalink/f/1a10t95/44PAI_ALMA2144190980003931)>.

---. *The Vanishing Face of Gaia: A Final Warning*. London: Allen Lane, 2009. Web. <[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI\\_ALMA2117582640003931&context=L&vid=44PAI\\_V1&search\\_scope=default\\_scope&tab=default\\_tab&en\\_US=en\\_US](https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2117582640003931&context=L&vid=44PAI_V1&search_scope=default_scope&tab=default_tab&en_US=en_US)>.

MacGregor, J. A. et al. 'Holocene Deceleration of the Greenland Ice Sheet'. *Science* 351.6273 (2016): 590-593. Web.

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* 105.36 (2008): 13252-13257. Web.

'Milankovitch Tutorial'. N.p., n.d. Web. <<http://www.sciencecourseware.org/eec/GlobalWarming/Tutorials/Milankovitch/>>.

Monastersky, Richard, and Nick Sousanis. 'The Fragile Framework'. *Nature* 527.7579 (2015): 427-435. Web.

'NASA - Daisyworld - This World Is Black and White'. 18AD. Web. <<https://www.youtube.com/watch?v=sCxIqgZA7ag>>.

'---'. 18AD. Web. <<https://www.youtube.com/watch?v=sCxIqgZA7ag>>.

'Oxygen Isotopes and the Paleoclimate Record'. 16AD. Web. <<https://www.youtube.com/watch?v=YfRDNYB1XOY>>.

'---'. 16AD. Web. <<https://www.youtube.com/watch?v=YfRDNYB1XOY>>.

'Plant Macrofossils'. Web. <<http://mires-and-peat.net/pages/volumes/map07/map0706.php>>.

Roberts, Neil. *Holocene: An Environmental History*. Third edition. Chichester, England: Wiley Blackwell, 2014. Web. <<https://ebookcentral.proquest.com/lib/gla/detail.action?docID=1568771>>.

Swindles, Graeme T., Elizabeth Watson, et al. 'Spheroidal Carbonaceous Particles Are a Defining Stratigraphic Marker for the Anthropocene'. *Scientific Reports* 5 (2015): n. pag. Web.

Swindles, Graeme T., Paul J. Morris, et al. 'The Long-Term Fate of Permafrost Peatlands under Rapid Climate Warming'. *Scientific Reports* 5 (2015): n. pag. Web.

'The Explosive Science of Volcanoes and Peat Bogs | Bogology'. N.p., n.d. Web. <<http://bogology.org/2014/08/28/the-explosive-science-of-volcanoes-and-peat-bogs/>>.

'The Most Influential Climate Change Papers of All Time - Carbon Brief'. N.p., n.d. Web. <<http://www.carbonbrief.org/the-most-influential-climate-change-papers-of-all-time>>.

'The Nitrogen Cascade'. 19AD. Web. <<https://www.youtube.com/watch?v=FCuuibZR6NQ>>.

'Welcome to the British Society of Soil Science | British Society of Soil Science'. N.p., n.d. Web. <<http://soils.org.uk/>>.