

DUMF1043 Earth System Science

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

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[1]

L. R. Kump, J. F. Kasting, and R. G. Crane, *The earth system*, Third edition. Harlow, Essex: Pearson, 2014. Available:
<https://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9781292034867>

[2]

J. Holden and Dawson Books, *An introduction to physical geography and the environment*, 3rd ed. Harlow, Essex: Pearson, 2012. Available:
<https://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9780273740872>

[3]

J. M. Diamond, *Collapse: how societies choose to fail or survive*. Allen Lane, 2005.
Available:
[https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2121617340003931&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_ALMA2121617340003931&context=L&vid=44PAI_V1&search_scope=default_scope&tab=default_tab[]=en_US[]=en_US)

[4]

D. I. Benn and D. J. A. Evans, *Glaciers & glaciation*, Second edition. London: Routledge, 2013. Available:
<https://ezproxy.lib.gla.ac.uk/login?url=https://www.taylorfrancis.com/books/9781444128390>

[5]

M. Bell and M. J. C. Walker, Late quaternary environmental change: physical and human perspectives, Second edition. Abingdon, Oxon: Routledge, an imprint of the Taylor & Francis Group, 2013. Available: <https://ezproxy.lib.gla.ac.uk/login?url=https://www.taylorfrancis.com/books/9781315847740>

[6]

L. R. Kump, The Earth System: Chapter 2 Daisyworld An Introduction to Systems, 3rd ed. Prentice Hall, 2009. Available: <http://libcat.uhi.ac.uk/record=b1493196~S26>

[7]

G. T. Swindles et al., 'The long-term fate of permafrost peatlands under rapid climate warming', Scientific Reports, vol. 5, Dec. 2015, doi: 10.1038/srep17951

[8]

'NASA - Daisyworld - This World Is Black and White'. 18 AD. Available: <https://www.youtube.com/watch?v=sCxlqgZA7ag>

[9]

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

[10]

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

[11]

'Daisyworld pt.3: Self regulation'. Nov. 17, 2009. Available: https://www.youtube.com/watch?v=4_lszR3B8xl

[12]

'Daisyworld Pt.4: Gaia theory and the real world'. Nov. 17, 2009. Available:
https://www.youtube.com/watch?v=4_lszR3B8xl

[13]

J. Lovelock, *Gaia: a new look at life on earth*. Oxford: Oxford University Press, 1982.

[14]

J. Lovelock, *The revenge of Gaia: why the earth is fighting back - and how we can still save humanity*, vol. Penguin celebrations. London: Penguin, 2007. Available:
https://uws-primo.hosted.exlibrisgroup.com/permalink/f/1a10t95/44PAI_ALMA2144190980003931

[15]

J. Lovelock, *The vanishing face of Gaia: a final warning*. London: Allen Lane, 2009.
Available:
[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\[\]=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[]=en_US)

[16]

'NASA - Daisyworld - This World Is Black and White'. 18 AD. Available:
<https://www.youtube.com/watch?v=sCxlqgZA7ag>

[17]

R. Monastersky and N. Sousanis, 'The fragile framework', *Nature*, vol. 527, no. 7579, pp. 427-435, Nov. 2015, doi: 10.1038/527427a

[18]

'The explosive science of volcanoes and peat bogs | Bogology'. Available:
<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'. Available:
<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'. Available:
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'. Available:
<http://blogs.agu.org/wildwildscience/2015/12/06/half-the-truth-can-be-a-most-effective-lie/>

[22]

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

[23]

'The most influential climate change papers of all time - Carbon Brief'. Available:
<http://www.carbonbrief.org/the-most-influential-climate-change-papers-of-all-time>

[24]

A. E. Dessler, 'A Determination of the Cloud Feedback from Climate Variations over the Past Decade', *Science*, vol. 330, no. 6010, pp. 1523-1527, Dec. 2010, doi:
10.1126/science.1192546

[25]

L. R. Kump, *The Earth System* (Chapter 3), 3rd ed. Prentice Hall, 2009. Available:
<http://libcat.uhi.ac.uk/record=b1493196~S26>

[26]

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

Available:

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

[27]

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

[28]

R. J. W. Brienen et al., 'Long-term decline of the Amazon carbon sink', *Nature*, vol. 519, no. 7543, pp. 344–348, Mar. 2015, doi: 10.1038/nature14283

[29]

L. E. Lisiecki and M. E. Raymo, 'A Pliocene-Pleistocene stack of 57 globally distributed benthic $\delta^{18}\text{O}$ records', *Paleoceanography*, vol. 20, no. 1, p. n/a-n/a, Mar. 2005, doi: 10.1029/2004PA001071

[30]

M. Bell, *Late Quaternary environmental change: physical and human perspectives* (Chapter 2), 2nd ed. Prentice Hall, 2005. Available:

<http://libcat.uhi.ac.uk/record=b1493184~S18>

[31]

N. Roberts, *Holocene: an environmental history*, Third edition. Chichester, England: Wiley Blackwell, 2014. Available:

<https://ebookcentral.proquest.com/lib/gla/detail.action?docID=1568771>

[32]

M. E. Mann et al., 'Proxy-based reconstructions of hemispheric and global surface temperature variations over the past two millennia', *Proceedings of the National Academy of Sciences*, vol. 105, no. 36, pp. 13252–13257, Sept. 2008, doi: 10.1073/pnas.0805721105

[33]

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

[34]

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

[35]

'Oxygen Isotopes and the Paleoclimate Record'. 16 AD. Available:
<https://www.youtube.com/watch?v=YfRDNyB1XOY>

[36]

'Oxygen Isotopes and the Paleoclimate Record'. 16 AD. Available:
<https://www.youtube.com/watch?v=YfRDNyB1XOY>

[37]

Chapter 14. Pliestocene Glaciations. The Earth System (Third Edition). Kump, Kasting, Crane. Available:
https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA211912810003931&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

[38]

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

[39]

G. T. Swindles et al., 'Spheroidal carbonaceous particles are a defining stratigraphic

marker for the Anthropocene', Scientific Reports, vol. 5, May 2015, doi: 10.1038/srep10264

[40]

'James Balog: Time-lapse proof of extreme ice loss | TED Talk | TED.com'. Available: http://www.ted.com/talks/james_balog_time_lapse_proof_of_extreme_ice_loss

[41]

K. K. Kjeldsen et al., 'Spatial and temporal distribution of mass loss from the Greenland Ice Sheet since AD 1900', Nature, vol. 528, no. 7582, pp. 396–400, Dec. 2015, doi: 10.1038/nature16183

[42]

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

[43]

J. Bamber, 'Ice sheet modelling proves a slippery subject', Available: <http://environmentalresearchweb.org/cws/article/opinion/30465>

[44]

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

[45]

J. Holden, An introduction to physical geography and the environment, 3rd ed. Harlow, Essex: Pearson, 2012. Available: <https://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9780273740872>

[46]

J. A. MacGregor et al., 'Holocene deceleration of the Greenland Ice Sheet', *Science*, vol. 351, no. 6273, pp. 590–593, Feb. 2016, doi: 10.1126/science.aab1702

[47]

J. Holden, 'Chapter 7: Soil and the Environment', in *An introduction to Physical geography and the Environment*, Pearson Prentice Hall, 2010. Available: <http://libcat.uhi.ac.uk/record=b1533410~S18>

[48]

N. C. Brady, *The nature and properties of soils*. Prentice Hall, 1998. Available: 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

[49]

'Welcome to the British Society of Soil Science | British Society of Soil Science'. Available: <http://soils.org.uk/>

[50]

P. H. Bellamy, P. J. Loveland, R. I. Bradley, R. M. Lark, and G. J. D. Kirk, 'Carbon losses from all soils across England and Wales 1978–2003', *Nature*, vol. 437, no. 7056, pp. 245–248, Sept. 2005, doi: 10.1038/nature04038

[51]

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

[52]

W. Cai et al., 'ENSO and greenhouse warming', *Nature Climate Change*, vol. 5, no. 9, pp.

849–859, Aug. 2015, doi: 10.1038/nclimate2743

[53]

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

https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2119128100003931&context=L&vid=44PAI_V1&lang=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