

DUMF1043 Earth System Science

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

View Online



1.

Kump LR, Kasting JF, Crane RG. The earth system [Internet]. Third edition. Harlow, Essex: Pearson; 2014. Available from:
<https://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9781292034867>
2.

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

Diamond JM. Collapse: how societies choose to fail or survive [Internet]. Allen Lane; 2005. Available from:
[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.

Benn DI. Glaciers and Glaciation [Internet]. Arnold; 1998. Available from:
[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)
- 5.

Bell M. Late Quaternary Environmental Change: physical and human perspectives [Internet]. 2nd ed. Prentice Hall; 2005. Available from: [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)

6.

Kump LR. Chapter 2, Daisyworld An Introduction to Systems. In: The Earth System [Internet]. 4th ed. Pearson; 2014. Available from: [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)

7.

Swindles GT, Morris PJ, Mullan D, Watson EJ, Turner TE, Roland TP, et al. The long-term fate of permafrost peatlands under rapid climate warming. Scientific Reports. 2015 Dec 9;5.

8.

NASA - Daisyworld - This World Is Black and White [Internet]. 18AD. Available from: <https://www.youtube.com/watch?v=sCxIqgZA7ag>

9.

Daisyworld pt.1 : James Lovelock and Gaia [Internet]. 2009. Available from: <https://www.youtube.com/watch?v=-gVERGAieng>

10.

Daisyworld pt.2: Gaia and Daisyworld [Internet]. 2009. Available from: <https://www.youtube.com/watch?v=1glQShSrK1I>

11.

Daisyworld pt.3: Self regulation [Internet]. 2009. Available from: https://www.youtube.com/watch?v=4_IszR3B8xl

12.

Daisyworld Pt.4: Gaia theory and the real world [Internet]. 2009. Available from: https://www.youtube.com/watch?v=4_lszR3B8xl

13.

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

14.

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

15.

Lovelock J. The vanishing face of Gaia: a final warning [Internet]. London: Allen Lane; 2009. Available from: 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 [Internet]. 18AD. Available from: <https://www.youtube.com/watch?v=sCxlqgZA7ag>

17.

Monastersky R, Sousanis N. The fragile framework. Nature. 2015 Nov 24;527(7579):427–35.

18.

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

22.

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

23.

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

24.

Dessler AE. A Determination of the Cloud Feedback from Climate Variations over the Past Decade. *Science*. 2010 Dec 10;330(6010):1523–7.

25.

Kump LR, Kasting JF, Crane RG, ProQuest (Firm). The earth system [Internet]. Third edition. Harlow, Essex: Pearson; 2014. Available from:
<http://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9781292034867>

26.

James Hansen: Why I must speak out about climate change | TED Talk | TED.com [Internet]. Available from:
http://www.ted.com/talks/james_hansen_why_i_must_speak_out_about_climate_change

27.

CERES Brochure [Internet]. Available from: http://ceres.larc.nasa.gov/ceres_brochure.php

28.

Brienen RJW, Phillips OL, Feldpausch TR, Gloor E, Baker TR, Lloyd J, et al. Long-term decline of the Amazon carbon sink. *Nature*. 2015 Mar 18;519(7543):344–8.

29.

Lisiecki LE, Raymo ME. A Pliocene-Pleistocene stack of 57 globally distributed benthic δ O records. *Paleoceanography*. 2005 Mar;20(1):n/a-n/a.

30.

Bell M. Late Quaternary environmental change: physical and human perspectives (Chapter 2) [Internet]. 2nd ed. Prentice Hall; 2005. Available from:
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

31.

Roberts N. Holocene: an environmental history [Internet]. Third edition. Chichester, England: Wiley Blackwell; 2014. Available from:
<https://ebookcentral.proquest.com/lib/gla/detail.action?docID=1568771>

32.

Mann ME, Zhang Z, Hughes MK, Bradley RS, Miller SK, Rutherford S, et al. Proxy-based reconstructions of hemispheric and global surface temperature variations over the past two millennia. *Proceedings of the National Academy of Sciences*. 2008 Sep 9;105(36):13252–7.

33.

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

34.

Plant macrofossils [Internet]. Available from: <http://mires-and-peat.net/pages/volumes/map07/map0706.php>

35.

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

36.

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

37.

Kump LR, Kasting JF, Crane RG. Chapter 14, Pliocene Glaciations. In: *The Earth System (Third Edition)* Kump, Kasting, Crane [Internet]. 3rd ed. Pearson; 2014. Available from: [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)

38.

Milankovitch Tutorial [Internet]. Available from:

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

39.

Swindles GT, Watson E, Turner TE, Galloway JM, Hadlari T, Wheeler J, et al. Spheroidal carbonaceous particles are a defining stratigraphic marker for the Anthropocene. *Scientific Reports*. 2015 May 28;5.

40.

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

41.

Kjeldsen KK, Korsgaard NJ, Bjørk AA, Khan SA, Box JE, Funder S, et al. Spatial and temporal distribution of mass loss from the Greenland Ice Sheet since AD 1900. *Nature*. 2015 Dec 16;528(7582):396–400.

42.

Are ice sheet losses overestimated? [Internet]. Available from:
<http://www.skepticalscience.com/Are-ice-sheet-losses-overestimated.html>

43.

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

44.

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

45.

Holden J. An introduction to physical geography and the environment [Internet]. 3rd ed.

Harlow, Essex: Pearson; 2012. Available from:

<https://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9780273740872>

46.

MacGregor JA, Colgan WT, Fahnestock MA, Morlighem M, Catania GA, Paden JD, et al. Holocene deceleration of the Greenland Ice Sheet. *Science*. 2016 Feb 5;351(6273):590–3.

47.

Holden J. Chapter 7: Soil and the Environment. In: *An introduction to Physical geography and the Environment* [Internet]. Pearson Prentice Hall; 2010. Available from: [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\[\]=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[]=en_US)

48.

Brady NC. *The nature and properties of soils* [Internet]. Prentice Hall; 1998. Available from: [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)

49.

Welcome to the British Society of Soil Science | British Society of Soil Science [Internet]. Available from: <http://soils.org.uk/>

50.

Bellamy PH, Loveland PJ, Bradley RI, Lark RM, Kirk GJD. Carbon losses from all soils across England and Wales 1978–2003. *Nature*. 2005 Sep 8;437(7056):245–8.

51.

Kump LR, Kasting JR, Crane RG. Chapter 5, The Ocean Circulation. In: *The Earth System* [Internet]. 3rd ed. Pearson; 2014. Available from: https://uws-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=44PAI_ALMA2

119128100003931&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.

Cai W, Santoso A, Wang G, Yeh SW, An SI, Cobb KM, et al. ENSO and greenhouse warming. *Nature Climate Change*. 2015 Aug 17;5(9):849–59.

53.

Kump LR, Kasting JF, Crane RG. Chapter 4. The Atmospheric Circulation System. In: *The Earth System* [Internet]. 3rd ed. Pearson; 2014. Available from: 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