

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. Third edition. Pearson; 2014.
<https://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9781292034867>

2.

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

3.

Diamond JM. Collapse: How Societies Choose to Fail or Survive. Allen Lane; 2005.
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, Evans DJA. Glaciers & Glaciation. Second edition. Routledge; 2013.
<https://ezproxy.lib.gla.ac.uk/login?url=https://www.taylorfrancis.com/books/9781444128390>

5.

Bell M, Walker MJC. Late Quaternary Environmental Change: Physical and Human Perspectives. Second edition. Routledge, an imprint of the Taylor & Francis Group; 2013.
<https://ezproxy.lib.gla.ac.uk/login?url=https://www.taylorfrancis.com/books/978131584774>

0

6.

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

7.

Swindles GT, Morris PJ, Mullan D, et al. The long-term fate of permafrost peatlands under rapid climate warming. Scientific Reports. 2015;5. doi:10.1038/srep17951

8.

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

9.

Daisyworld pt.1 : James Lovelock and Gaia. Published online 17 November 2009. <https://www.youtube.com/watch?v=-gVERGAieng>

10.

Daisyworld pt.2: Gaia and Daisyworld. Published online 17 November 2009. <https://www.youtube.com/watch?v=1glQShSrklI>

11.

Daisyworld pt.3: Self regulation. Published online 17 November 2009. https://www.youtube.com/watch?v=4_IszR3B8xl

12.

Daisyworld Pt.4: Gaia theory and the real world. Published online 17 November 2009. https://www.youtube.com/watch?v=4_IszR3B8xl

13.

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

14.

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

https://uws-primo.hosted.exlibrisgroup.com/permalink/f/1a10t95/44PAI_ALMA2144190980003931

15.

Lovelock J. The Vanishing Face of Gaia: A Final Warning. Allen Lane; 2009.

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=en_US

16.

NASA - Daisyworld - This World Is Black and White. Published online 18 AD.

<https://www.youtube.com/watch?v=sCxlqgZA7ag>

17.

Monastersky R, Sousanis N. The fragile framework. Nature. 2015;527(7579):427-435.
doi:10.1038/527427a

18.

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. Published online 19 AD.

<https://www.youtube.com/watch?v=FCuuibZR6NQ>

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 AE. A Determination of the Cloud Feedback from Climate Variations over the Past Decade. Science. 2010;330(6010):1523-1527. doi:10.1126/science.1192546

25.

Kump LR. The Earth System (Chapter 3). 3rd ed. Prentice Hall; 2009.

<http://libcat.uhi.ac.uk/record=b1493196~S26>

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

28.

Brienen RJW, Phillips OL, Feldpausch TR, et al. Long-term decline of the Amazon carbon sink. *Nature*. 2015;519(7543):344-348. doi:10.1038/nature14283

29.

Lisiecki LE, Raymo ME. A Pliocene-Pleistocene stack of 57 globally distributed benthic δ O records. *Paleoceanography*. 2005;20(1):n/a-n/a. doi:10.1029/2004PA001071

30.

Bell M. Late Quaternary Environmental Change: Physical and Human Perspectives (Chapter 2). 2nd ed. Prentice Hall; 2005. <http://libcat.uhi.ac.uk/record=b1493184~S18>

31.

Roberts N. Holocene: An Environmental History. Third edition. Wiley Blackwell; 2014. <https://ebookcentral.proquest.com/lib/gla/detail.action?docID=1568771>

32.

Mann ME, Zhang Z, Hughes MK, 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;105(36):13252-13257. doi:10.1073/pnas.0805721105

33.

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

34.

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

35.

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

36.

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

37.

Chapter 14. Plietocene Glaciations. The Earth System (Third Edition). Kump, Kasting, Crane.
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=frbgroupid,include,2195378439&offset=0

38.

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

39.

Swindles GT, Watson E, Turner TE, et al. Spheroidal carbonaceous particles are a defining stratigraphic marker for the Anthropocene. Scientific Reports. 2015;5.
doi:10.1038/srep10264

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 KK, Korsgaard NJ, Bjørk AA, et al. Spatial and temporal distribution of mass loss from the Greenland Ice Sheet since AD 1900. *Nature*. 2015;528(7582):396-400. doi:10.1038/nature16183

42.

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

43.

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

44.

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

45.

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

46.

MacGregor JA, Colgan WT, Fahnestock MA, et al. Holocene deceleration of the Greenland Ice Sheet. *Science*. 2016;351(6273):590-593. doi:10.1126/science.aab1702

47.

Holden J. Chapter 7: Soil and the Environment. In: An Introduction to Physical Geography and the Environment. Pearson Prentice Hall; 2010.
<http://libcat.uhi.ac.uk/record=b1533410~S18>

48.

Brady NC. The Nature and Properties of Soils. Prentice Hall; 1998.

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.

<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;437(7056):245-248.

doi:10.1038/nature04038

51.

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

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.

Cai W, Santoso A, Wang G, et al. ENSO and greenhouse warming. *Nature Climate Change*.

2015;5(9):849-859. doi:10.1038/nclimate2743

53.

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

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

