

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. Harlow, Essex: Pearson 2014.

2

Holden J, Dawson Books. An introduction to physical geography and the environment. 3rd ed. Harlow, Essex: Pearson 2012.

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Kump LR. The Earth System: Chapter 2 Daisyworld An Introduction to Systems. 3rd ed. Prentice Hall 2009.

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Daisyworld pt.2: Gaia and Daisyworld. 2009.

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Daisyworld pt.3: Self regulation. 2009.

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

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Lovelock J. The revenge of Gaia: why the earth is fighting back - and how we can still save humanity. London: Penguin 2007.

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Lovelock J. The vanishing face of Gaia: a final warning. London: Allen Lane 2009.

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<https://quantpalaeo.wordpress.com/2015/02/01/a-robust-response-of-the-east-asian-monsoon-rainband-to-solar-variability/>

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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

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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/>

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The Nitrogen Cascade. 19 AD.

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

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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

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Brienen RJW, Phillips OL, Feldpausch TR, et al. Long-term decline of the Amazon carbon sink. Nature. 2015;519:344–8. doi: 10.1038/nature14283

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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;105:13252–7. doi: 10.1073/pnas.0805721105

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<http://www.abc.net.au/catalyst/stories/2377133.htm>

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Plant macrofossils.

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

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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;528:396–400. doi: 10.1038/nature16183

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Are ice sheet losses overestimated?

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

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

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Cai W, Santoso A, Wang G, et al. ENSO and greenhouse warming. *Nature Climate Change*. 2015;5:849–59. doi: 10.1038/nclimate2743

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