

# GEOG1110 Earth systems, processes and landscapes (ESPL)

[View Online](#)

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261 items

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## Recommended for purchase (8 items)

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**An introduction to physical geography and the environment**, by Joseph Holden, 2012

[Book](#) | **Recommended for student purchase** | Print and ebook available.

Several soft bound copies of this book (3rd edition) are and the library also contains several hard copies of the 1st and 2nd edition. If you like to purchase the paper copy (on-line); have a look on Blackboard for a Pearson discount voucher.

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**An introduction to physical geography and the environment**, by Joseph Holden, 2012

[Book](#) | **Recommended for student purchase** | The ebook of Holden (2012)

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If your finances stretch to it, you may also consider it worth purchasing the 2008 edition of the following:

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**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K. Atkinson, 2008

[Book](#) | **Recommended for student purchase** | Ebook and print available

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**Fundamentals of the physical environment**, by Peter Smithson, 2008

[Book](#) | **Recommended for student purchase** | Ebook and print available

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Students with little or no background in physical geography may find this little book a useful read:

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**Physical geography: the basics**, by Joseph Holden, 2011

[Book](#) | Ebook (3 user licence)

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**Physical geography: the basics**, by Joseph Holden, 2011

[Book](#) | Print format

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## Reading for each week (205 items)

Below is suggested reading for each week, try to read at least the suggested chapter from one of the main textbooks. There are also helpful websites and journal articles which can be used to expand your knowledge. Remember the more you read the greater the depth of your understanding - this will pay off in your assignments and later in your degree.

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## Week 1 - Planet Earth and the Solar System (6 items)

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**Physical geography: the global environment**, by Harm J. De Blij; Peter O. Muller; Richard S. Williams, 2004

[Book](#) | Units 4 and 5

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**An introduction to physical geography and the environment**, by Joseph Holden, 2012

[Book](#) | Section 4.2, especially p80-81 and 84

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**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K Atkinson; David J. Briggs, 2002

[Book](#) | Chapter 2: Energy and Earth

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**NASA Earth Observatory** :, 2009

[Article](#) | Climate and the Earth's Energy Budget and Incoming Sunlight, NASA

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**Physical geography: science and systems of the human environment**, by Alan H. Strahler; Arthur N. Strahler, 2002

[Book](#) | Chapters 3 and 4

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**NASA's Eyes**

[Webpage](#) | For a tour of the solar system in detail and to see the data available on the surface of the Earth try the Eyes app from NASA.

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## Week 1 - Introduction to Physical Geography (4 items)

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**Physical geography: science and systems of the human environment**, by Alan H. Strahler; Arthur N. Strahler, 2002

[Book](#) | Chapter 1

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**Physical geography: the global environment**, by Harm J. De Blij; Peter O. Muller; Richard S. Williams, 2004

[Book](#) | Units 1 and 2

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**An introduction to physical geography and the environment**, by Joseph Holden, 2012

[Book](#) | Chapter 1

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**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K Atkinson; David J. Briggs, 2002

[Book](#) | Chapter 1

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## Week 2 - Tectonic Geomorphology (13 items)

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**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K Atkinson; David J. Briggs, 2002

[Book](#) | Chapter 10

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**An introduction to physical geography and the environment**, by Joseph Holden, 2012

[Book](#) | Chapter 2

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**Physical geography: science and systems of the human environment**, by Alan H. Strahler; Arthur N. Strahler, 2002

[Book](#) | Chapter 13

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**Physical geography: the global environment**, by Harm J. De Blij; Peter O. Muller; Richard S. Williams, 2004

[Book](#) | Units 29, 32 and 33

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**Earth's evolving systems: the history of planet Earth**, by Ronald Martin, 2013

[Book](#) | Chapter 6

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**Global tectonics**, by P. Kearey; F. J. Vine, 1996

[Book](#) | More advanced.

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**Global tectonics**, by P. Kearey; Keith A. Klepeis; F. J. Vine, 2009

[Book](#) | 3rd edition ebook. Earlier print edition also available.

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**An introduction to our dynamic planet**, by Nick Rogers, 2008

[Book](#) | Chapter 3

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**Global geomorphology: an introduction to the study of landforms**, by M. A. Summerfield; J. B. Whittow, 2000

[Book](#) | Chapter 2, Chapter 3 and from section 4.3 in Chapter 4

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**OpenLearn (Free learning from the Open University) - Plate Tectonics**

[Webpage](#)

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**Magnetic anomalies over oceanic ridges** - in Nature, by F. J. Vine; Dr. D. H. Matthews, September 7th 1963

[Article](#)

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**Assessment of existing and potential landslide hazards resulting from the April 25, 2015 Gorkha, Nepal Earthquake Sequence** - in Open-File Reports, by Brian D. Collins; Randall W. Jibson, First posted on the 28th July 2015. Revised on the 24th August 2015.

[Article](#)

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**Stern (2010) The anatomy and ontology of modern intra-oceanic arc systems**

[Article](#)

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## Week 3 - Mountain Building (5 items)

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**Physical geography: the global environment**, by Harm J. De Blij; Peter O. Muller; Richard S. Williams, 2004

[Book](#) | Unit 36

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**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K Atkinson; David J. Briggs, 2002

[Book](#) | See pages 248-250

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**Global geomorphology: an introduction to the study of landforms**, by M. A. Summerfield; J. B. Whittow, 2000

[Book](#) | Chapters 3 and 4 and Appendix F.

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**Physical geography: science and systems of the human environment**, by Alan H. Strahler;

Arthur N. Strahler, 2002  
[Book](#) | Chapters 14 and 18.

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**Tectonic geomorphology**, by Douglas West Burbank; Robert S. Anderson, c2012  
[Book](#) | Chapter 4: Stress, faults and folds, more advanced.

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## Week 3 - Volcanism (15 items)

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**Physical geography: science and systems of the human environment**, by Alan H. Strahler; Arthur N. Strahler, 2002  
[Book](#) | Chapter 14

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**Global geomorphology: an introduction to the study of landforms**, by M. A. Summerfield; J. B. Whittow, 2000  
[Book](#) | Chapters 2, 4 and 5

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**Physical geography: the global environment**, by Harm J. De Blij; Peter O. Muller; Richard S. Williams, 2004  
[Book](#) | Unit 34

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**An introduction to our dynamic planet**, by Nick Rogers, 2008  
[Book](#) | Chapter 3 section 3.3.2 Hot-spot dynamics and true plate motion

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**Volcanoes**, by Peter Francis; Clive Oppenheimer, 2004  
[Book](#) | More advanced.

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**USGS Photo Glossary of volcanic terms**  
[Webpage](#)

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**HVO Mauna Loa Status**  
[Webpage](#)

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**SwissEduc - Stromboli online - Volcanoes of the World**  
[Webpage](#)

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**SwissEduc - Stromboli online - Photoglossary**  
[Webpage](#) | A great photoglossary on volcanic terms.

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**IMO Aviation colour code map | Volcanic eruptions | Earthquakes | Icelandic Meteorological office**  
[Webpage](#) | Icelandic Met Office detailed accounts of past eruptions.

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**BGS Research. Volcanology.**  
[Article](#) | Details of the Eyafallajökull eruption from the British Geological Society.

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**Welcome to Volcano World!**  
[Webpage](#) | Volcano World from Oregon State University is an excellent resource.

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**Okeanos Explorer | Expeditions | Mid-Cayman Rise Expedition 2011 | Ultra Slow Spreading Ridges and Oceanic Core Complexes: Big Mountains and Bigger Faults**

[Webpage](#) | NOAA is great for anything submarine.

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**MacDonald (2001) Mid-ocean ridge tectonics, volcanism and geomorphology**

[Article](#)

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**The role of seamount volcanism in crustal construction at the Mid-Atlantic Ridge (24°–30°N)** - in Journal of Geophysical Research: Solid Earth, by Deborah K. Smith; Johnson R. Cann, 1992-02-10

[Article](#) | Only abstract available.

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## Week 4 - Weather and Climate 1 (17 items)

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**Meteorology: understanding the atmosphere**, by Steven A. Ackerman; John Knox, 2012

[Book](#) | Chapters 1, 2, 6, 7, 14 and 15

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**Physical geography: the global environment**, by Harm J. De Blij; Peter O. Muller; Richard S. Williams, 2004

[Book](#) | Units 6, 7, 9, 10 and 20.

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**The climate crisis: an introductory guide to climate change**, by David Archer; Stefan Rahmstorf, 2009

[Book](#)

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**Atmosphere, weather, and climate**, by Roger Graham Barry; Richard J. Chorley, c2010

[Book](#) | Chapters, 2, 6, 7 and 13

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**Atmosphere, weather and climate**, by Roger Graham Barry; Richard J. Chorley; MyiLibrary, 2003

[Book](#) | Chapters, 2, 6, 7 and 13

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**An introduction to physical geography and the environment**, by Joseph Holden, 2012

[Book](#) | Chapters 4 and 24

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**Dundee Satellite Station Ltd (formerly Dundee Satellite Receiving Station)**

[Website](#)

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**Global Climate Change. Vital Signs of the Planet.**

[Website](#)

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**National Snow and Ice Data Center**

[Website](#)

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**NEEM - The North Greenland Eemian Ice Drilling**, 2006

[Webpage](#)

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**COP21 - United Nations Conference on Climate Change**[Webpage](#)**Understanding weather and climate**, by Edward Aguado; James E. Burt, 2015[Book](#) | Chapters 1, 3, 4, 8 and 16**Physical geography: science and systems of the human environment**, by Alan H. Strahler; Arthur N. Strahler, 2002[Book](#) | Chapters 4 and 7**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K Atkinson; David J. Briggs, 2002[Book](#) | Chapters 3, 6 and 9**Meteorology today: an introduction to weather, climate, and the environment**, by C. Donald Ahrens, 2013[Book](#) | Chapters 1, 2, 8, 10 and 16**Boundary layer climates**, by T. R. Oke, 1987[Book](#) | Chapter 1**Boundary layer climates**, by T. R. Oke, 1987[Book](#) | Chapter 1**Week 5 - Weather and Climate 2** (15 items)**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K Atkinson; David J. Briggs, 2002[Book](#) | Chapters 6 and 8**Physical geography: science and systems of the human environment**, by Alan H. Strahler; Arthur N. Strahler, 2002[Book](#) | Chapters 6 and 8**Physical geography: the global environment**, by Harm J. De Blij; Peter O. Muller; Richard S. Williams, 2004[Book](#) | Units 13, 14 and 21**An introduction to physical geography and the environment**, by Joseph Holden, 2012[Book](#) | Chapters 5 and 6**Understanding weather and climate**, by Edward Aguado; James E. Burt, 2015[Book](#) | Chapters 6, 7, 9, 10 and 14**Meteorology today: an introduction to weather, climate, and the environment**, by C.

Donald Ahrens, 2013

[Book](#) | Other editions are available. Chapters 5, 6, 7, 9, 11 and 12

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**Boundary layer climates**, by T. R. Oke, 1987

[Book](#) | Chapter 8, Appendix A1

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**Boundary layer climates**, by T. R. Oke, 1987

[Book](#) | Chapter 8, Appendix A1

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**Dundee Satellite Station Ltd (formerly Dundee Satellite Receiving Station)**

[Website](#)

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**Atmosphere, weather and climate**, by Roger Graham Barry; Richard J. Chorley; MyiLibrary, 2003

[Book](#)

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**Atmosphere, weather, and climate**, by Roger Graham Barry; Richard J. Chorley, c2010

[Book](#) | Chapter 5, 6C, 9, 12D

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**Meteorology: understanding the atmosphere**, by Steven A. Ackerman; John Knox, 2012

[Book](#) | Chapters 9, 10, 12 and 15

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**Fact\_sheet\_No.\_1\_Clouds.pdf**, by Met Office

[Document](#)

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**Fact\_sheet\_No.\_10.pdf**, by Met Office

[Document](#)

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**Clouds.... find out what clouds are made of, how they form and all the names for the many and magnificent types.**

[Webpage](#)

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## Resources for Climate Impacts Presentations (11 items)

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**What is climate change?**

[Webpage](#) | These are a series of documents for a number of countries that sets out the physical impacts of climate change.

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**An introduction to physical geography and the environment**, by Joseph Holden, 2012

[Book](#) | Chapter 24

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**CCRA2: Updated projections for water availability for the UK Final Report**, edited by Kathryn Humphrey; Eleanor Hall; Chris Counsell, August 2015

[Document](#)

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**Fifth Assessment Report - Impacts, Adaptation and Vulnerability**, by IPCC, First published 2014

[Document](#) | Note that this document is very large so each chapter can be downloaded individually. You may wish to start with the Summary for Policymakers and then concentrate on the chapter for your sector. A key resource for this exercise.

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**EEA report: Climate change, impacts and vulnerability in Europe 2012: An indicator-based report**, by European Environment Agency, 2012

[Document](#) | Also has chapters related to each sector.

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**The UK Climate Change Risk Assessment 2012: Evidence Report**, by HR Wallingford et al., 2012

[Document](#) | A report for the UK Government on climate change impacts, chapters on different sectors are available via the link.

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**Climate Change Impacts in the United States: The Third National Climate Assessment**, by J. M. Melillo et al., 2014

[Document](#) | This document sets out climate change impacts from a US perspective. Impacts are also grouped into chapters which can be downloaded individually.

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**Meteorology: understanding the atmosphere**, by Steven A. Ackerman; John Knox, 2012

[Book](#) | Chapter 16

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**The climate crisis: an introductory guide to climate change**, by David Archer; Stefan Rahmstorf, 2009

[Book](#)

---

**Atmosphere, weather, and climate**, by Roger Graham Barry; Richard J. Chorley, c2010

[Book](#) | Chapter 13

---

**Atmosphere, weather and climate**, by Roger Graham Barry; Richard J. Chorley; MyiLibrary, 2003

[Book](#)

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## Week 6 - Oceans and Climate (13 items)

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**Oceanography: an earth science perspective**, by Steve Kershaw, 2000

[Book](#)

---

**Invitation to oceanography**, by Paul R. Pinet, 2019

[Book](#)

---

**Physical geography: science and systems of the human environment**, by Alan H. Strahler; Arthur N. Strahler, 2002

[Book](#) | Chapter 7 p192 onwards

---

**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K Atkinson; David J. Briggs, 2002

[Book](#) | Chapter 11 and p118

---

**An introduction to physical geography and the environment**, by Joseph Holden, 2012

[Book](#) | Chapters 3 and 4.8

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**Physical geography: the global environment**, by Harm J. De Blij; Peter O. Muller; Richard S. Williams, 2004

[Book](#) | Unit 11

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**Exceptional twentieth-century slowdown in Atlantic Ocean overturning circulation** - in Nature Climate Change, by Stefan Rahmstorf; Jason E. Box; Georg Feulner; Michael E. Mann; Alexander Robinson; Scott Rutherford; Erik J. Schaffernicht, 2015-3-23

[Article](#) | See link below for the paper

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**Evidence for an Exceptional 20th-Century Slowdown in Atlantic Ocean Overturning**, by Rahmstorf et al, 2015

[Document](#)

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**The role of the North Atlantic Drift in the millennial timescale glacial climate fluctuations** - in Palaeogeography, Palaeoclimatology, Palaeoecology, by Tine L Rasmussen; Erik Thomsen, 2004-7

[Article](#)

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**Gallery (NASA)**

[Webpage](#)

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**EL NIÑO/SOUTHERN OSCILLATION (ENSO) DIAGNOSTIC DISCUSSION**, by NOAA/National Weather Service, 8th October 2020

[Document](#)

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**Ocean Surface Topography from Space**, by NASA

[Website](#)

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**NOAA: Strong El Nino sets the stage for 2015-2016 winter weather**, by NOAA

[Webpage](#)

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## **Week 7 and 9 - Fluvial geomorphology 1 and 2** (12 items)

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**Global geomorphology: an introduction to the study of landforms**, by M. A. Summerfield; J. B. Whittow, 2000

[Book](#) | Chapters 8 and 9

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**Physical geography: science and systems of the human environment**, by Alan H. Strahler; Arthur N. Strahler, 2002

[Book](#) | Chapter 17

---

**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K Atkinson; David J. Briggs, 2002

[Book](#) | Chapter 14.

---

**An introduction to physical geography and the environment**, by Joseph Holden, 2012

[Book](#) | Chapter 12

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**Fundamentals of fluvial geomorphology**, by Ro Charlton, 2008

[Book](#) | Chapter 8.

---

**Fluvial forms and processes: a new perspective**, by David Knighton, 1998

[Book](#) | Chapters 2, 4 and 5.

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**Fundamentals of geomorphology**, by Richard J. Huggett, 2016

[Book](#) | Chapter 9.

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**River processes: an introduction to fluvial dynamics**, by André Robert, 2003

[Book](#) | Chapters 1, 4 and 5.

---

**River processes: an introduction to fluvial dynamics**, by Andr.

Robert, 2003

[Book](#) | Chapters 1, 4 and 5.

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**Tributaries, sediment sources, and the longitudinal organisation of macroinvertebrate fauna along river systems** - in Canadian Journal of Fisheries and Aquatic Sciences, by S P Rice; M T Greenwood; C B Joyce, 2001-04

[Article](#)

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**Tributary control of physical heterogeneity and biological diversity at river confluences** - in Canadian Journal of Fisheries and Aquatic Sciences, by Stephen P Rice; Robert I Ferguson; Trevor B Hoey, 2006-11

[Article](#)

---

**Channel-reach morphology in mountain drainage basins** - in GSA Bulletin, by David R. Montgomery; John M. Buffington, 1997

[Article](#)

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## Week 19 and 20 - Glaciology and Glacial geomorphology (16 items)

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Coire a ' Cheud-chnoic, the 'hummocky moraine ' of Glen Torridon

[Journal](#)

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**Fundamentals of geomorphology**, by Richard J. Huggett, 2016

[Book](#)

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**Fundamentals of geomorphology**, by Richard J. Huggett; MyiLibrary, 2003

[Book](#)

---

**Glaciers & glaciation**, by Douglas I. Benn; David J. A. Evans, 1998

[Book](#)

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**Glaciers & glaciation**, by Douglas I. Benn; David J. A. Evans, 2010

[Book](#)

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**Glacial geology: ice sheets and landforms**, by Matthew Bennett; Neil F. Glasser, 2009

[Book](#)

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**Glaciers**, by Peter Knight, 1999

[Book](#)

---

**Global geomorphology: an introduction to the study of landforms**, by M. A. Summerfield,

1991

[Book](#)

---

**Modern and past glacial environments: a revised student edition**, by John Menzies, 2001

[Book](#)

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**Lateral Moraines of Glacier De Tsidjiore Nouve: Form, Development, and Implications** - in Journal of Glaciology, by R. J. Small, 1983

[Article](#)

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**The sedimentary and structural evolution of a recent push moraine complex: Holmstrombreen, Spitsbergen**, by Boulton et al., 1999

[Article](#)

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**SwissEduc - Glaciers online**

[Webpage](#)

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**World Glacier Monitoring Service. Under the auspices of: ICSU (WDS), IUGG (IACS), UNEP, UNESCO, WMO.**

[Website](#)

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**Ice Flows. A game about ice flow in the antarctic**

[Website](#)

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Welcome to AntarcticGlaciers.org. Glaciers and ice sheets are beautiful and awe-inspiring. The world's glaciers, ice sheets, ice shelves and sea ice affect us through their connections with the ocean and sea level, and availability of water resources. Environmental change is having rapid consequences in Antarctica, Greenland and on global mountain glaciers.

[Website](#)

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**Programme for Monitoring of the Greenland Ice Sheet (PROMICE)**

[Webpage](#)

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## Week 22 - Weathering and Landforms (8 items)

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**Fundamentals of geomorphology**, by Richard J. Huggett, 2016

[Book](#) | See chapters 5 and 6

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**Global geomorphology: an introduction to the study of landforms**, by M. A. Summerfield; J. B. Whittow, 2000

[Book](#) | Chapter 6

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**Weathering**, by Cliff Ollier, 1984

[Book](#) | This is a detailed book about weathering.

---

**An introduction to physical geography and the environment**, by Joseph Holden, 2012

[Book](#) | Chapter 7

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**Weathering and landforms**, by Cliff Ollier, 1974

[Book](#) | A little book all about weathering.

**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K. Atkinson, 2008

[Book](#) | Chapter 13

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**Tors, rock platforms and debris slopes at Stiperstones, Shropshire, England** - in Field Studies Journal, by Richard Clark

[Article](#)

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GeoScenic | Browse

[Webpage](#)

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## Week 23 - Soils and the Environment (10 items)

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**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K. Atkinson, 2008

[Book](#) | Chapter 18 and 19

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**An introduction to physical geography and the environment**, by Joseph Holden, 2012

[Book](#) | Chapter 10

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**The James Hutton Institute - Introduction to Soils - Poster resources**

[Webpage](#)

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**Cranfield Soil and Agrifood Institute - Soilscales**

[Webpage](#)

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**Home | NRCS Soils**

[Webpage](#)

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**Soils in Scotland - Scotland's Soils**

[Webpage](#)

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**Principles and practice of soil science: the soil as a natural resource**, by R. E. White, 2006

[Book](#)

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**Principles and practice of soil science: the soil as a natural resource**, by R. E. White, 2006

[Book](#)

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**Soils and environment**, by S. Ellis; A. Mellor, 1995

[Book](#) | A detailed book but written in an accessible way. Older editions also available.

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**The nature and properties of soils**, by Nyle C. Brady; Ray R. Weil, 2014

[Book](#) | More advanced but useful on the factors of soil formation.

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## Week 24 - Slopes and Mass movement (60 items)

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**Landslides in Chile 4: The Punta Cola rock avalanche in Aysén Fjord** - in The LANDSLIDE Blog (Blogosphere), by Posted by Dave Petley, 27th January 2016

[Article](#)

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**The LANDSLIDE Blog**, by Dave Petley

[Webpage](#)

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**Landslides: BGS Research**

[Webpage](#)

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**Landslides: causes, consequences & environment**, by Michael J. Crozier, 1986

[Book](#)

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**Landslides: analysis and control**, edited by Robert L. Schuster; Raymond J. Krizek, 1978

[Book](#)

---

**An introduction to physical geography and the environment**, by Joseph Holden, 2012

[Book](#) | Chapter 8

---

**Global geomorphology: an introduction to the study of landforms**, by M. A. Summerfield; J. B. Whittow, 2000

[Book](#) | Chapter 7

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**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K. Atkinson, 2008

[Book](#) | Chapter 13

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## Resources for mass movements exercise (23 items)

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**Landslide management in the UK—the problem of managing hazards in a ‘low-risk’ environment** - in Landslides, by A. D. Gibson; M. G. Culshaw; C. Dashwood; C. V. L. Pennington, 2013-10

[Article](#)

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## Sanxicun catastrophic landslide, China (3 items)

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**The 170 km/h Sanxicun landslide in Sichuan Province, China** - in The LANDSLIDE Blog (Blogsphere), by Posted by Dave Petley, 22nd February 2017

[Article](#)

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**Heavy-rainfall-induced catastrophic rockslide-debris flow at Sanxicun, Dujiangyan, after the Wenchuan Ms 8.0 earthquake** - in Landslides, by Yueping Yin; Yuliang Cheng; Jingtao Liang; Wenpei Wang, 2016-2

[Article](#)

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**Heavy-rainfall-induced catastrophic rockslide-debris flow at Sanxicun, Duji...** - in Landslides, 2016

[Article](#)

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## Holbeck Hall landslide, Scarborough (4 items)

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**Photographic Feature The Scarborough Landslide** - in Quarterly Journal of Engineering Geology and Hydrogeology, 1994-02

[Article](#)

**Slope monitoring and early warning systems: Application to coastal landslides on the south and east coast of England, UK.** - in Landslides/glislements De Terrain: 17th International Congress: Proceedings of the 7th International Symposium on Landslides, Trondheim, Norway, 17-21 June 1996, by A.R. Clark; R. Moore; J.S. Palmer, edited by K. Senneset, 1996

[Chapter](#)

**Appraisal guidance supporting documents: Guidance to support an appraisal of a flood or coastal erosion risk management project.**, by Environment Agency; Department for Environment, Food & Rural Affairs, Published on the 17th April 2020. Last updated on the 24th September 2020.

[Document](#)

**Holbeck Hall, Scarborough: Landslide case study**, by Landslide Response Team

[Article](#)

## Aberfan landslide disaster (2 items)

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**Remembering the Aberfan disaster – 45 years ago today** - in The LANDSLIDE Blog (Blogosphere), by Posted by Dave Petley, 21st October 2011

[Article](#)

**The report of the tribunal appointed to inquire into the disaster at Aberfan on October 21st 1966**, by The Tribunal appointed, 19th July 1967

[Document](#)

## Ahwivah rockfall, Half Dome, Yosemite National Park, 2009 (3 items)

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**Rock fall dynamics and deposition: an integrated analysis of the 2009 Ahwiyah Point rock fall, Yosemite National Park, USA** - in Earth Surface Processes and Landforms, by Valerie L. Zimmer; Brian D. Collins; Greg M. Stock; Nicholas Sitar, 2012-05

[Article](#)

**Detection and location of rock falls using seismic and infrasound sensors** - in Engineering Geology, by Valerie L. Zimmer; Nicholas Sitar, 2015-07

[Article](#)

**Ahwiyah Point Rockfall Size Estimated** - in Yosemite National Park California, by Yosemite National Park, Published on the 8th April 2009. Last updated on the 01st March 2015.

[Article](#)

## Porthkerry rockfall, near Barry, south Wales (2 items)

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**Lavernock Point to St Ann's Head Shoreline Management Plan (SMP2)**, by West of Wales SMP, ID: 58 Revised: 04/09/2013

[Document](#) | See especially section 3.2.4 p40

**Porthkerry rock fall, Barry, South Wales Landslide case study** - in British Geological Survey, by Landslide Response Team, 2011

Article

## A83 Rest and Be Thankful and A85 Glen Ogle Landslides (5 items)

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**A recent debris flow event and implications for hazard management** - in Quarterly Journal of Engineering Geology and Hydrogeology, by F. D. Milne; A. Werritty; M. C. R. Davies; M. J. Brown, 2009-02-01

Article

**Scottish debris flow events of August 2004** - in Quarterly Journal of Engineering Geology and Hydrogeology, by M.G. Winter; A.P. Heald; J.A. Parsons; L. Shackman; F. Macgregor, 2006-02-01

Article

**Scottish debris flow events of August 2004** - in Quarterly Journal of Engineering Geology and Hydrogeology, by M.G. Winter; A.P. Heald; J.A. Parsons; L. Shackman; F. Macgregor, 2006-02

Article

Transport Scotland - Projects

Webpage

Landslides BGS Research

Webpage

## Langtang Debris Avalanche 2015 (3 items)

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**Geotechnical Field Reconnaissance: Gorkha (Nepal) Earthquake of April 25 2015 and Related Shaking Sequence** - in Geotechnical Extreme Event Reconnaissance GEER Association, by Youssef M.A. Hashash; Binod Tiwari; Robb E.S. Moss; Domniki Asimaki; Kevin B. Clahan; D. Scott Kieffer; Doug S. Dreger; Amy Macdonald; Chris M. Madugo; H. Benjamin Mason; Menzer Pehlivan; Deepak Rayamajhi; Indra Acharya; Basanta Adhikari, August 7, 2015

Article | This is a large document but see section 9.3.

**Assessment of existing and potential landslide hazards resulting from the April 25, 2015 Gorkha, Nepal Earthquake Sequence** - in Open-File Reports, by Brian D. Collins; Randall W. Jibbison, First posted on the 28th July 2015. Revised on the 24th August 2015.

Article

Landslide in Langtang Valley, 2014

Webpage

## Week 25 - Coastal geomorphology (1 items)

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**Spurn Head: Its History and Evolution** - in Transactions and Papers (Institute of British Geographers), by G. de Boer, 1964-06

Article

## Week 31 - Earth Systems and Humans (15 items)

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**An introduction to physical geography and the environment**, by Joseph Holden, 2012

Book | Chapter 23

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**Collapse: how societies choose to fail or succeed**, by Jared M. Diamond, 2011

Book

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**The challenges facing landlocked developing countries**, by Faye et al, 2013

Article

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**Deforestation and Reforestation of Latin America and the Caribbean (2001-2010)** - in Biotropica, by T. Mitchell Aide; Matthew L. Clark; H. Ricardo Grau; David López-Carr; Marc A. Levy; Daniel Redo; Martha Bonilla-Moheno; George Riner; María J. Andrade-Núñez; María Muñiz, 2013-03

Article

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**Climate, Water Navigability, and Economic Development** - in CID Working Papers, by Andrew D. Mellinger; Jeffrey D. Sachs; John L. Gallup, September 1999

Article

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**Millennium Ecosystem Assessment**

Webpage

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**UK Environmental Accounts - Office for National Statistics**

Webpage

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**The human impact on the natural environment: past, present, and future**, by Andrew Goudie, 2006

Book

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**Late Quaternary environmental change: physical and human perspectives**, by Martin Bell; M. J. C. Walker, 2005

Book

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**Geography: a global synthesis**, by Peter Haggett, 2001

Book

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**Microplastics in freshwater systems: A review of the emerging threats, identification of knowledge gaps and prioritisation of research needs** - in Water Research, by Dafne Eerkes-Medrano; Richard C. Thompson; David C. Aldridge, 2015-05

Article

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**Nature-society interactions in the pacific islands** - in Geografiska Annaler: Series B, Human Geography, by Patrick D. Nunn, 2003-12

Article

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**Global Forest Watch - Interactive Map**[Webpage](#)**NASA Ozone Watch - Images, data, and information for atmospheric ozone**[Website](#)**IPCC - Intergovernmental Panel on Climate Change**[Website](#)**Week 32 - Applied geomorphology (13 items)**

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**An introduction to physical geography and the environment**, by Joseph Holden, 2012[Book](#) | Chapter 12

**Clay lined river** - in Manual of River Restoration Techniques, edited by David Gilvear, University of Sterling; Charles Perfect, University of Sterling, Date of Construction - April - September 2000

[Document](#)

**Flood-induced embankment failures on the River Tay: implications of climatically induced hydrological change in Scotland** - in Hydrological Sciences Journal, by D. J. GILVEAR; A. R. BLACK, 1999-06

[Article](#)**RESTORE (Restoring Europe's Rivers River Wiki)**[Webpage](#)

**CUMBRIA RIVER RESTORATION STRATEGY FIELD VISIT: EDEN, DERWENT AND KENT SSSI/SAC CATCHMENTS**, by Dr. Helen Reid, September 2014

[Document](#)

**CUMBRIA RIVER RESTORATION STRATEGY FIELD VISIT: EDEN, DERWENT AND KENT SSSI/SAC CATCHMENTS**, by Dr. Helen Reid, September 2014

[Document](#)**The River Restoration Centre - River advice, consultation, projects, the RRC**[Website](#)**Fundamentals of fluvial geomorphology**, by Ro Charlton, 2008[Book](#) | See especially Chapter 10.

**Geomorphology and river management: applications of the river styles framework**, by Gary J. Brierley; Kirstie A. Fryirs, 2005

[Book](#)

**Engineering in the Water Environment Good Practice Guide: Bank Protection - Rivers and Lochs**, by Scottish Environment Protection Agency, April 2008

[Document](#)

**Managing bank erosion**, by PINPOINT, 2017

[Document](#)

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**Guidebook of Applied Geomorphology: R&D Technical Report FD1914**, by Environment Agency; DEFRA, December 2003

[Document](#)

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**Physical restoration options for priority catchments – phase 1 River South Esk catchment restoration scoping study**, by SNIFFER, 2011

[Document](#)

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## Recommended Reading (30 items)

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As well as the reading suggested for each week there are a large range of other books and journals available which cover parts of the course. The list below is not exhaustive and you are encouraged to use Library Search to find additional materials.

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**Using remotely sensed data** - in Key methods in geography, by Paul Aplin, 2003

[Chapter](#) | Essential

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**Physical geography: an introduction to earth environments**, by Michael Bradshaw; Ruth Weaver, 1992

[Book](#) | Essential

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**Tectonic geomorphology**, by Douglas West Burbank; Robert S. Anderson, c2012

[Book](#) | Essential

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**Ice Age earth: late Quaternary geology and climate**, by A. G. Dawson, 1992

[Book](#) | Essential

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**Physical geography: the global environment**, by Harm J. De Blij; Peter O. Muller; Richard S. Williams, 2004

[Book](#) | Essential

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**Collapse: how societies choose to fail or succeed**, by Jared M. Diamond, 2011

[Book](#) | Essential

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**The nature of the environment**, by Andrew Goudie, 2001

[Book](#) | Essential

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**The dictionary of physical geography**, edited by David S. G. Thomas, 2016

[Book](#) | Essential | 4th edition. Earlier editions are available.

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**The dictionary of physical geography**, edited by David S. G. Thomas, 2016

[Book](#) | Essential | Print and ebook available

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**The dictionary of physical geography**, by David S. G. Thomas; Andrew Goudie, 2000

[Book](#) | Essential | Print and ebook available

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**The changing nature of physical geography**, by K. J. Gregory, 2000

[Book](#) | Essential

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**Introducing geomorphology: a guide to landforms and processes**, by A. M. Harvey, c2012

[Book](#) | Essential

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**Fundamentals of geomorphology**, by Richard J. Huggett, 2011

[Book](#) | Essential

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**Fluvial forms and processes: a new perspective**, by David Knighton, 1998

[Book](#) | Essential | Ebook and print available

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**Fluvial forms and processes: a new perspective**, by David Knighton, 1998

[Book](#) | Essential | Ebook and print available

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**Earth's evolving systems: the history of planet Earth**, by Ronald Martin, 2013

[Book](#) | Essential

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**Environmental science: systems and solutions**, by Michael L. McKinney; Robert M. Schoch; Logan Yonavjak; Stacy Zell, 2013

[Book](#) | Essential

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**Basic biogeography**, by Nigel Pears, 1985

[Book](#) | Essential

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**Invitation to oceanography**, by Paul R. Pinet, 2019

[Book](#) | Essential

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**Philip's university atlas**, by Royal Geographical Society (with the Institute of British Geographers), 2000

[Book](#) | Essential

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**Climatology**, by Robert V. Rohli; Anthony J. Vega, 2015

[Book](#) | Essential

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**The dynamic earth: an introduction to physical geology**, by Brian J. Skinner; Stephen C. Porter; Jeffrey Park, 2004

[Book](#) | Essential

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**The dynamic earth: an introduction to physical geology**, by Brian J. Skinner; Stephen C. Porter; Jeffrey Park, 2004

[Book](#) | Essential

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**Fundamentals of the physical environment**, by Peter Smithson; Kenneth Addison; K Atkinson; David J. Briggs, 2002

[Book](#)

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**Fundamentals of the physical environment**, by Peter Smithson, 2008

[Book](#)

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**Physical geography: science and systems of the human environment**, by Alan H. Strahler; Arthur N. Strahler, 2002

**Book** | Essential

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**Modern physical geography**, by Alan H. Strahler; Arthur N. Strahler, 1992

**Book** | Essential

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**Introducing physical geography**, by Alan H. Strahler, 2013

**Book** | Essential

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**Global geomorphology: an introduction to the study of landforms**, by M. A. Summerfield; J. B. Whittow, 2000

**Book** | Essential

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## Journals (18 items)

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You will be expected to demonstrate that you have read widely and in particular made use of journal articles when writing up practicals and answering essay questions. The journals that are most likely to contain articles of relevance to River Science and that we have full text access online include:

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**Advances in meteorology**

**Journal**

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**Earth surface processes and landforms**

**Journal**

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**Ecohydrology**

**Journal**

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**Freshwater biology**

**Journal**

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**Geology today**

**Journal**

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**Geomorphology (Amsterdam, Netherlands)**

**Journal**

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**Journal of applied meteorology and climatology**

**Journal**

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**Journal of environmental management**

**Journal**

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**Journal of environmental sciences (China)**

**Journal**

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**The Journal of geology**

**Journal**

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**Journal of hydrology (Amsterdam)**

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Journal

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Remote sensing of environment

Journal

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River research and applications

Journal

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The Science of the total environment

Journal

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GSA today

Journal

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Water and environment journal : WEJ

Journal

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Water research (Oxford)

Journal