



## Further Reading List for London Lecture: Groundwater and its Global Significance

Kevin Hiscock, Professor of Environmental Sciences, University of East Anglia

Wednesday 15 June

The reading list can be found at <http://www.geolsoc.org.uk/GlobalGroundwater16>

### Popular Articles and Resources

1. Background Information and Resources
  - a. The Geological Society 2016 Year of Water  
<https://www.geolsoc.org.uk/water16>
  - b. The Geological Society – Geology for Society – Water  
<https://www.geolsoc.org.uk/water>
2. Groundwater
  - a. USGS – Groundwater  
<http://pubs.usgs.gov/gip/gw/>
  - b. The UK Groundwater Forum – good online resource for information about UK groundwater  
<http://www.groundwateruk.org/>
  - c. International Groundwater Resources Assessment Centre – Global Groundwater Maps  
<http://www.un-igrac.org/global-groundwater-information-system-ggis>
  - d. International Year of Planet Earth (2005) *Groundwater – reservoir for a thirsty planet?* Earth Sciences for Society Foundation, Leiden, The Netherlands.  
<http://www.yearofplanetearth.org/content/downloads/Groundwater.pdf>
  - e. Environment Agency – Groundwater protection: Principles and practice  
<https://www.gov.uk/government/publications/groundwater-protection-principles-and-practice-gp3>
3. Ecosystem Services and Pressure on Groundwater
  - a. Geological Society Blog – Groundwater Dependent Ecosystems

<https://blog.geolsoc.org.uk/2013/05/10/groundwater-dependent-ecosystems-event-summary/>

- b. Freshwater Science – Groundwater ecosystem services: a review

<http://www.journals.uchicago.edu/doi/full/10.1086/679903>

- c. CGIAR Report on Groundwater and Ecosystem Services

[http://www.iwmi.cgiar.org/Publications/wle/corporate/groundwater\\_and\\_ecosystem\\_services\\_framework.pdf](http://www.iwmi.cgiar.org/Publications/wle/corporate/groundwater_and_ecosystem_services_framework.pdf)

- d. Groundwater Protection Council - Groundwater and Land Use

<http://www.gwpc.org/programs/water-quality/land-use>

- e. Nature Climate Change – Groundwater and climate change (£)

<http://www.nature.com/nclimate/journal/v3/n4/full/nclimate1744.html>

### **Books and reports**

Downing, R.A. (1998) *Groundwater – our hidden asset*. Earthwise. ISBN 0852723040. Available from: [http://shop.bgs.ac.uk/Bookshop/product.cfm?p\\_id=GRHA](http://shop.bgs.ac.uk/Bookshop/product.cfm?p_id=GRHA).

Hiscock, K.M. (2011) Groundwater in the 21<sup>st</sup> Century: meeting the challenges. In: J.A.A. Jones (ed.), *Sustaining Groundwater Resources: a critical element in the global water crisis*. Springer, Dordrecht. ISBN 978-90-481-3425-0.

Hiscock, K.M. & Bense, V.F., 2014. *Hydrogeology: principles and practice (2<sup>nd</sup> edn)*. John Wiley & Sons, Chichester. ISBN 978-0-470-65663-1.

Holger, T., Martin-Bordes, J.-L. & Gurdak, J. (2011) *Climate change effects on groundwater resources: a global synthesis of findings and recommendations*. IAH International Contributions to Hydrogeology, 27, 351-365. CRC Press, Baton Rouge, FL. ISBN 978-0-415-68936-6.

Margat, J. & van der Gun, J. (2013) *Groundwater around the world – a geographic synopsis*. Taylor & Francis Group, London. ISBN 978-1-138-00034-6.

### **Journal articles**

Gleeson, T., Wada, Y., Bierkens, M.F.P. & van Beek, L.P.H. (2012) Water balance of global aquifers revealed by groundwater footprint. *Nature* 488, 197-200. doi:10.1038/nature11295.

Gleeson, T., Befus, K.M., Jasechko, S., Luijendijk, E. & Cardenas, M.B. (2015) The global volume and distribution of modern groundwater. *Nature Geoscience* doi: 10.1038/NGEO2590.

Gorelick, S. M. & C. Zheng (2015) Global change and the groundwater management challenge, *Water Resources Research*, 51, 3031–3051, doi:10.1002/2014WR016825.