

Managing River Catchments

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- Alfieri, L., Bisselink, B., Dottori, F., Naumann, G., de Roo, A., Salamon, P., Wyser, K., & Feyen, L. (2017). Global projections of river flood risk in a warmer world. *Earth's Future*. <https://doi.org/10.1002/2016EF000485>
- Arnell, N. W., Halliday, S. J., Battarbee, R. W., Skeffington, R. A., & Wade, A. J. (2015). The implications of climate change for the water environment in England. *Progress in Physical Geography*, 39(1), 93–120. <https://doi.org/10.1177/0309133314560369>
- Ashmore, P. (2015). Towards a sociogeomorphology of rivers. *Geomorphology*, 251, 149–156. <https://doi.org/10.1016/j.geomorph.2015.02.020>
- Beechie, T., & Imaki, H. (2014). Predicting natural channel patterns based on landscape and geomorphic controls in the Columbia River basin, USA. *Water Resources Research*, 50(1), 39–57. <https://doi.org/10.1002/2013WR013629>
- Beechie, T. J., Sear, D. A., Olden, J. D., Pess, G. R., Buffington, J. M., Moir, H., Roni, P., & Pollock, M. M. (2010a). Process-based Principles for Restoring River Ecosystems. *BioScience*, 60(3), 209–222. <https://doi.org/10.1525/bio.2010.60.3.7>
- Beechie, T. J., Sear, D. A., Olden, J. D., Pess, G. R., Buffington, J. M., Moir, H., Roni, P., & Pollock, M. M. (2010b). Process-based Principles for Restoring River Ecosystems. *BioScience*, 60(3), 209–222. <https://doi.org/10.1525/bio.2010.60.3.7>
- Belletti, B., Rinaldi, M., Buijse, A. D., Gurnell, A. M., & Mosselman, E. (2015). A review of assessment methods for river hydromorphology. *Environmental Earth Sciences*, 73(5), 2079–2100. <https://doi.org/10.1007/s12665-014-3558-1>
- Belletti, B., Rinaldi, M., Bussettini, M., Comiti, F., Gurnell, A. M., Mao, L., Nardi, L., & Vezza, P. (2017). Characterising physical habitats and fluvial hydromorphology: A new system for the survey and classification of river geomorphic units. *Geomorphology*, 283, 143–157. <https://doi.org/10.1016/j.geomorph.2017.01.032>
- Bernhardt, E. S. (2005). Ecology: Synthesizing U.S. River Restoration Efforts. *Science*, 308(5722), 636–637. <https://doi.org/10.1126/science.1109769>
- Beven, K. J. (2012). *Rainfall-runoff modelling: the primer* (2nd ed). Wiley-Blackwell.
- Beven, K. J., Chappell, N., Lamb, R., & Shaw, E. M. (2011a). *Hydrology in practice* (4th ed). Spon Press.
- Beven, K. J., Chappell, N., Lamb, R., & Shaw, E. M. (2011b). *Hydrology in practice* (4th ed).

Spon Press.

Brierley, G., Fryirs, K., Cullum, C., Tadaki, M., Huang, H. Q., & Blue, B. (2013). Reading the landscape: Integrating the theory and practice of geomorphology to develop place-based understandings of river systems. *Progress in Physical Geography*, 37(5), 601–621. <https://doi.org/10.1177/0309133313490007>

Brierley, G., & Hooke, J. (2015a). Emerging geomorphic approaches to guide river management practices. *Geomorphology*, 251, 1–5. <https://doi.org/10.1016/j.geomorph.2015.08.019>

Brierley, G., & Hooke, J. (2015b). Emerging geomorphic approaches to guide river management practices. *Geomorphology*, 251, 1–5. <https://doi.org/10.1016/j.geomorph.2015.08.019>

Brierley, G., & Hooke, J. (2015c). Emerging geomorphic approaches to guide river management practices. *Geomorphology*, 251, 1–5. <https://doi.org/10.1016/j.geomorph.2015.08.019>

Brierley, G. J. (2000). River Styles, a Geomorphic Approach to Catchment Characterization: Implications for River Rehabilitation in Bega Catchment, New South Wales, Australia. *Environmental Management*, 25(6), 661–679. <https://doi.org/10.1007/s002670010052>

Brierley, G. J., & Fryirs, K. A. (2005). *Geomorphology and river management: applications of the river styles framework*. Blackwell Pub.

Burt, S., McCarthy, M., Kendon, M., & Hannaford, J. (2016). Cumbrian floods, 5/6 December 2015. *Weather*, 71(2), 36–37. <https://doi.org/10.1002/wea.2704>

Burt, T. P., & Allison, R. J. (2010). *Sediment cascades: an integrated approach*. Wiley-Blackwell.

Cabinet office. (n.d.-a). The Pitt Review: Lessons learned from the 2007 floods. http://webarchive.nationalarchives.gov.uk/20100807034701/http://archive.cabinetoffice.gov.uk/pittreview/thepittreview/final_report.html

Cabinet Office. (2016a). National Flood Resilience Review. <https://www.gov.uk/government/publications/national-flood-resilience-review>

Church, M. A., Biron, P., Roy, A. G., & Ashmore, P. (2012). *Gravel-bed rivers: processes, tools, environments*. Wiley-Blackwell.

CIRIA. (2016b). River weirs - Design, maintenance, modification and removal. [http://www.cpwf.co.uk/C763%20River%20weirs.%20Design,%20maintenance,%20modification%20and%20removal%20\(web\)%20\(1\).pdf](http://www.cpwf.co.uk/C763%20River%20weirs.%20Design,%20maintenance,%20modification%20and%20removal%20(web)%20(1).pdf)

CIWEM. (2011a). Integrated Water Management. <http://www.ciwem.org/wp-content/uploads/2016/02/Integrated-Water-Managment-Report.pdf>

CIWEM. (2014a). Floods and dredging: a reality check. <http://www.ciwem.org/wp-content/uploads/2016/02/Floods-and-Dredging-a-reality-check.pdf>

f

Coaker, T. H. (1981). *Advances in applied biology: Vol. 6: edited by T.H. Coaker*. Academic Press.

Cox et al, S. C. (n.d.). GNS Science report 2014/07 : Activity of the landslide Te Horo and Te Koroka fan, Dart River, New Zealand during January 2014.
https://shop.gns.cri.nz/sr_2014-007-pdf/

Davies, T. R. H., & Lee, A. L. (n.d.). Physical hydraulic modelling of width reduction and bed level change in braided rivers. *Journal of Hydrology (New Zealand)*, 27(2), 113–127.
<https://ezproxy.lib.gla.ac.uk/login?url=https://www.jstor.org/stable/43944615>

Davies, T. R. H., McSaveney, M. J., & Clarkson, P. J. (2003). Anthropogenic aggradation of the Waiho River, Westland, New Zealand: microscale modelling. *Earth Surface Processes and Landforms*, 28(2), 209–218. <https://doi.org/10.1002/esp.449>

defra. (2005a). Making space for water: Taking forward a new Government strategy for flood and coastal erosion risk management in England.
<http://webarchive.nationalarchives.gov.uk/20130402151656/http://archive.defra.gov.uk/environment/flooding/documents/policy/strategy/strategy-response1.pdf>

Diamond, J. M. (2006). *Collapse: how societies choose to fail or survive: Vol. Penguin history*. Penguin Books.

Dixon, S. J., Sear, D. A., Odoni, N. A., Sykes, T., & Lane, S. N. (2016). The effects of river restoration on catchment scale flood risk and flood hydrology. *Earth Surface Processes and Landforms*, 41(7), 997–1008. <https://doi.org/10.1002/esp.3919>

Downs, P., & Kondolf, G. M. (2002). Post-Project Appraisals in Adaptive Management of River Channel Restoration. *Environmental Management*, 29(4), 477–496.
<https://doi.org/10.1007/s00267-001-0035-X>

Dufour, S., & Piégay, H. (2009). From the myth of a lost paradise to targeted river restoration: forget natural references and focus on human benefits. *River Research and Applications*, 25(5), 568–581. <https://doi.org/10.1002/rra.1239>

East, A. E., Pess, G. R., Bountry, J. A., Magirl, C. S., Ritchie, A. C., Logan, J. B., Randle, T. J., Mastin, M. C., Minear, J. T., Duda, J. J., Liermann, M. C., McHenry, M. L., Beechie, T. J., & Shafroth, P. B. (2015). Large-scale dam removal on the Elwha River, Washington, USA: River channel and floodplain geomorphic change. *Geomorphology*, 228, 765–786.
<https://doi.org/10.1016/j.geomorph.2014.08.028>

Ebooks Corporation Limited. (2016a). *Tools in fluvial geomorphology: Vol. Applied legal philosophy* (G. M. Kondolf & H. Piégay, Eds.; Second edition). John Wiley & Sons.
<https://ebookcentral.proquest.com/lib/gla/detail.action?docID=4517652>

Ebooks Corporation Limited. (2016b). *Tools in fluvial geomorphology: Vol. Applied legal philosophy* (G. M. Kondolf & H. Piégay, Eds.; Second edition). John Wiley & Sons.
<https://ebookcentral.proquest.com/lib/gla/detail.action?docID=4517652>

ECRR website. (n.d.). <http://www.ecrr.org/>

Elwha River following dam removal. (2 C.E.).
<https://www.youtube.com/watch?v=VipVo8zPH0U>

Elwha River Restoration Project - videos. (n.d.).
<https://walrus.wr.usgs.gov/elwha/products.html#videos>

Engineering geology for society and territory: Volume 3: River basins, reservoir sedimentation and water resources. (2015). Springer International Publishing.
<https://ezproxy.lib.gla.ac.uk/login?url=https://link.springer.com/10.1007/978-3-319-09054-2>

Environment Agency. (2014b). Working with natural processes to reduce flood risk: science report.
https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/338437/SC130004_R2.pdf

Environment Agency. (2016c). How to model and map catchment processes when flood risk management planning.
https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/523456/How_to_model_and_map_catchment_processes_-_report.pdf

Ferranti, E., Chapman, L., & Whyatt, D. (2017). A Perfect Storm? The collapse of Lancaster's critical infrastructure networks following intense rainfall on 4/5 December 2015. *Weather*, 72(1), 3–7. <https://doi.org/10.1002/wea.2907>

Fryirs, K. A., & Brierley, G. J. (2013). *Geomorphic analysis of river systems: an approach to reading the landscape*. Wiley.

Future flooding. (n.d.). <https://www.gov.uk/government/publications/future-flooding>

Gao, J., Holden, J., & Kirkby, M. (2016). The impact of land-cover change on flood peaks in peatland basins. *Water Resources Research*, 52(5), 3477–3492.
<https://doi.org/10.1002/2015WR017667>

Gartner, J. D., Magilligan, F. J., & Renshaw, C. E. (2015). Predicting the type, location and magnitude of geomorphic responses to dam removal: Role of hydrologic and geomorphic constraints. *Geomorphology*, 251, 20–30. <https://doi.org/10.1016/j.geomorph.2015.02.023>

Gilvear, D. J., Casas-Mulet, R., & Spray, C. J. (2012). Trends and issues in delivery of integrated catchment scale river restoration: Lessons learned from a national river restoration survey within Scotland. *River Research and Applications*, 28(2), 234–246.
<https://doi.org/10.1002/rra.1437>

Gilvear, D. J., Heal, K. V., & Stephen, A. (2002). Hydrology and the ecological quality of Scottish river ecosystems. *Science of The Total Environment*, 294(1–3), 131–159.
[https://doi.org/10.1016/S0048-9697\(02\)00060-8](https://doi.org/10.1016/S0048-9697(02)00060-8)

Gregory, K. J., & Goudie, A. (2011). *The SAGE handbook of geomorphology*. SAGE.

Grill, G., Lehner, B., Lumsdon, A. E., MacDonald, G. K., Zarfl, C., & Reidy Liermann, C. (2015). An index-based framework for assessing patterns and trends in river fragmentation

and flow regulation by global dams at multiple scales. *Environmental Research Letters*, 10 (1). <https://doi.org/10.1088/1748-9326/10/1/015001>

Gurnell, A. M., Rinaldi, M., Belletti, B., Bizzi, S., Blamauer, B., Braca, G., Buijse, A. D., Bussettini, M., Camenen, B., Comiti, F., Demarchi, L., García de Jalón, D., González del Tánago, M., Grabowski, R. C., Gunn, I. D. M., Habersack, H., Hendriks, D., Henshaw, A. J., Klösch, M., ... Ziliani, L. (2016). A multi-scale hierarchical framework for developing understanding of river behaviour to support river management. *Aquatic Sciences*, 78(1), 1–16. <https://doi.org/10.1007/s00027-015-0424-5>

Hawley, S. (2012). *Recovering a lost river: removing dams, rewilding salmon, revitalizing communities*. Beacon Press.

Hirabayashi, Y., Mahendran, R., Koirala, S., Konoshima, L., Yamazaki, D., Watanabe, S., Kim, H., & Kanae, S. (2013). Global flood risk under climate change. *Nature Climate Change*, 3(9), 816–821. <https://doi.org/10.1038/nclimate1911>

Institute for European Environmental Policy. (2016d). The potential policy and environmental consequences for the UK of a departure from the European Union. <http://www.ieep.eu/news/2016/08/the-uk-referendum-what-it-means-for-the-environment-and-for-ieep>

J. M. Buffington. (n.d.). Geomorphic classification of rivers (pp. 730–767). <https://www.treesearch.fs.fed.us/pubs/43354>

James, L. A. (2015). Designing forward with an eye to the past: Morphogenesis of the lower Yuba River. *Geomorphology*, 251, 31–49. <https://doi.org/10.1016/j.geomorph.2015.07.009>

JBA. (2015a). Nature-based approaches for catchment flood management: an online catalogue. http://www.jbatrust.org/wp-content/uploads/2016/02/W15-0603-Nature-Based-approaches-to-Catchment-Improvements-Sept-2015-FINAL_v0.1.pdf

Jenkins, G. J. (2007). The climate of the United Kingdom and recent trends. http://www.ukcip.org.uk/wp-content/PDFs/UKCP09_Trends.pdf

Jongman, B., Hochrainer-Stigler, S., Feyen, L., Aerts, J. C. J. H., Mechler, R., Botzen, W. J. W., Bouwer, L. M., Pflug, G., Rojas, R., & Ward, P. J. (2014). Increasing stress on disaster-risk finance due to large floods. *Nature Climate Change*, 4(4), 264–268. <https://doi.org/10.1038/nclimate2124>

Jongman, B., Ward, P. J., & Aerts, J. C. J. H. (2012). Global exposure to river and coastal flooding: Long term trends and changes. *Global Environmental Change*, 22(4), 823–835. <https://doi.org/10.1016/j.gloenvcha.2012.07.004>

Journal of Hydrology (New Zealand). (n.d.). <https://eleanor.lib.gla.ac.uk/record=b2647865>

Kallis, G. (2001). The EU water framework directive: measures and implications. *Water Policy*, 3(2), 125–142. [https://doi.org/10.1016/S1366-7017\(01\)00007-1](https://doi.org/10.1016/S1366-7017(01)00007-1)

Kasprak, A., Hough-Snee, N., Beechie, T., Bouwes, N., Brierley, G., Camp, R., Fryirs, K., Imaki, H., Jensen, M., O'Brien, G., Rosgen, D., & Wheaton, J. (2016). The Blurred Line between Form and Process: A Comparison of Stream Channel Classification Frameworks. *PLOS ONE*, 11(3). <https://doi.org/10.1371/journal.pone.0150293>

Koebel, J. W., & Bousquin, S. G. (2014). The Kissimmee River Restoration Project and Evaluation Program, Florida, U.S.A. *Restoration Ecology*, 22(3), 345–352. <https://doi.org/10.1111/rec.12063>

Kondolf, G. M. (1997). Hungry Water: Effects of Dams and Gravel Mining on River Channels. *Environmental Management*, 21(4), 533–551. <https://doi.org/10.1007/s002679900048>

Kondolf, G. M., Rubin, Z. K., & Minear, J. T. (2014). Dams on the Mekong: Cumulative sediment starvation. *Water Resources Research*, 50(6), 5158–5169. <https://doi.org/10.1002/2013WR014651>

Korup, O. (2005). Geomorphic imprint of landslides on alpine river systems, southwest New Zealand. *Earth Surface Processes and Landforms*, 30(7), 783–800. <https://doi.org/10.1002/esp.1171>

Korup, O., Densmore, A. L., & Schlunegger, F. (2010). The role of landslides in mountain range evolution. *Geomorphology*, 120(1–2), 77–90. <https://doi.org/10.1016/j.geomorph.2009.09.017>

Kummu, M. (2009). Water management in Angkor: Human impacts on hydrology and sediment transportation. *Journal of Environmental Management*, 90(3), 1413–1421. <https://doi.org/10.1016/j.jenvman.2008.08.007>

Lave, R., Doyle, M., & Robertson, M. (2010). Privatizing stream restoration in the US. *Social Studies of Science*, 40(5), 677–703. <https://doi.org/10.1177/0306312710379671>

Lehner, B., Reidy Liermann, C., Revenga, C., Vörösmarty, C., Fekete, B., Crouzet, P., Döll, P., Endejan, M., Frenken, K., Magome, J., Nilsson, C., Robertson, J. C., Rödel, R., Sindorf, N., & Wisser, D. (2011). High-resolution mapping of the world's reservoirs and dams for sustainable river-flow management. *Frontiers in Ecology and the Environment*, 9(9), 494–502. <https://ezproxy.lib.gla.ac.uk/login?url=https://www.jstor.org/stable/23034466>

Lessard, J., Murray Hicks, D., Snelder, T. H., Arscott, D. B., Larned, S. T., Booker, D., & Suren, A. M. (2013). Dam Design can Impede Adaptive Management of Environmental Flows: A Case Study from the Opuha Dam, New Zealand. *Environmental Management*, 51(2), 459–473. <https://doi.org/10.1007/s00267-012-9971-x>

Lewin, J. (2013). Enlightenment and the GM floodplain. *Earth Surface Processes and Landforms*, 38(1), 17–29. <https://doi.org/10.1002/esp.3230>

Lichatowich, J. (1999). *Salmon without rivers: a history of the Pacific salmon crisis*. Island Press.

Luo, X. X., Yang, S. L., Wang, R. S., Zhang, C. Y., & Li, P. (2017). New evidence of Yangtze delta recession after closing of the Three Gorges Dam. *Scientific Reports*, 7. <https://doi.org/10.1038/srep41735>

- Maddock, I., Harby, A., Kemp, P., & Wood, P. J. (Eds.). (2013). *Ecohydraulics: an integrated approach*. Wiley Blackwell.
- Magilligan, F. J., & Nislow, K. H. (2005a). Changes in hydrologic regime by dams. *Geomorphology*, 71(1-2), 61-78. <https://doi.org/10.1016/j.geomorph.2004.08.017>
- Magilligan, F. J., & Nislow, K. H. (2005b). Changes in hydrologic regime by dams. *Geomorphology*, 71(1-2), 61-78. <https://doi.org/10.1016/j.geomorph.2004.08.017>
- Magilligan, F. J., Nislow, K. H., Kynard, B. E., & Hackman, A. M. (2016). Immediate changes in stream channel geomorphology, aquatic habitat, and fish assemblages following dam removal in a small upland catchment. *Geomorphology*, 252, 158-170. <https://doi.org/10.1016/j.geomorph.2015.07.027>
- Major, J. J., O'Connor, J. E., Podolak, C. J., Keith, M. K., Grant, G. E., Spicer, K. R., Pittman, S., Bragg, H. M., Wallick, J. R., Tanner, D. Q., Rhode, A., & Wilcock, P. R. (2012). *Geomorphic Response of the Sandy River, Oregon, to Removal of Marmot Dam: U.S. Geological Survey Professional Paper 1792*. <https://pubs.usgs.gov/pp/1792/>
- Mapes, L., & Ringman, S. (2013). *Elwha: a river reborn* (First edition). The Mountaineers Books.
- Marmot Dam Removal. (30 C.E.). <https://www.youtube.com/watch?v=i1NI2ia3nDw>
- Marsh et al, T. (n.d.). The winter floods of 2015/2016 in the UK. <https://nora.nerc.ac.uk/515303/>
- Modular River Survey. (n.d.). <http://modularriversurvey.org/>
- Moir, H. J., Gibbins, C. N., Soulsby, C., & Webb, J. (2004). Linking channel geomorphic characteristics to spatial patterns of spawning activity and discharge use by Atlantic salmon (*Salmo salar* L.). *Geomorphology*, 60(1-2), 21-35. <https://doi.org/10.1016/j.geomorph.2003.07.014>
- Moir, H. J., Gibbins, C. N., Soulsby, C., & Youngson, A. F. (2005). PHABSIM modelling of Atlantic salmon spawning habitat in an upland stream: testing the influence of habitat suitability indices on model output. *River Research and Applications*, 21(9), 1021-1034. <https://doi.org/10.1002/rra.869>
- Moir, H. J., & Pasternack, G. B. (2008). Relationships between mesoscale morphological units, stream hydraulics and Chinook salmon (*Oncorhynchus tshawytscha*) spawning habitat on the Lower Yuba River, California. *Geomorphology*, 100(3-4), 527-548. <https://doi.org/10.1016/j.geomorph.2008.02.001>
- Montgomery, D. R. (1997). Channel-reach morphology in mountain drainage basins. *GSA Bulletin*, 109(5), 596-611. <https://ezproxy.lib.gla.ac.uk/login?url=https://pubs.geoscienceworld.org/gsa/gsabulletin/article/109/5/596/183255/channel-reach-morphology-in-mountain-drainage>
- Morandi, B., Piégay, H., Lamouroux, N., & Vaudor, L. (2014). How is success or failure in river restoration projects evaluated? Feedback from French restoration projects. *Journal of Environmental Management*, 137, 178-188. <https://doi.org/10.1016/j.jenvman.2014.02.010>

National River Flow Archive: Occasional Reports. (n.d.).
<http://nrfa.ceh.ac.uk/occasional-reports>

Natural Water Retention Measures. (n.d.). <http://nwrn.eu/>

Newson, Malcolm. D., & Large, A. R. G. (2006). 'Natural' rivers, 'hydromorphological quality' and river restoration: a challenging new agenda for applied fluvial geomorphology. *Earth Surface Processes and Landforms*, 31(13), 1606–1624.
<https://doi.org/10.1002/esp.1430>

O'Connell, P. E., Ewen, J., O'Donnell, G., & Quinn, P. (2007). Is there a link between agricultural land-use management and flooding? *Hydrology and Earth System Sciences*, 11(1), 96–107. <https://doi.org/10.5194/hess-11-96-2007>

O'Connor, J. E., Duda, J. J., & Grant, G. E. (2015). 1000 dams down and counting. *Science*, 348(6234), 496–497. <https://doi.org/10.1126/science.aaa9204>

Olsen, J. R. (2006). Climate Change and Floodplain Management in the United States. *Climatic Change*, 76(3–4), 407–426. <https://doi.org/10.1007/s10584-005-9020-3>

Pall, P., Aina, T., Stone, D. A., Stott, P. A., Nozawa, T., Hilberts, A. G. J., Lohmann, D., & Allen, M. R. (2011). Anthropogenic greenhouse gas contribution to flood risk in England and Wales in autumn 2000. *Nature*, 470(7334), 382–385. <https://doi.org/10.1038/nature09762>

Palmer, M. A., Menninger, H. L., & Bernhardt, E. (2010). River restoration, habitat heterogeneity and biodiversity: a failure of theory or practice? *Freshwater Biology*, 55, 205–222. <https://doi.org/10.1111/j.1365-2427.2009.02372.x>

Pender, G., & Faulkner, H. (2011). *Flood risk science and management*. Wiley-Blackwell.

Perfect, C., Addy, S., & Gilvear, D. (2013). *The Scottish Rivers Handbook*.
<https://www.crew.ac.uk/publication/scottish-rivers-handbook>

Pizzuto, J. (n.d.). Effects of dam removal on river form and process. *BioScience*, 52(8), 683–691.
<https://ezproxy.lib.gla.ac.uk/login?url=https://go.galegroup.com/ps/i.do?p=AONE&u=gilasuni&id=GALE|A90317048&v=2.1&it=r&sid=summon&authCount=1>

Podolak, C. J. P. (2014). A visual framework for displaying, communicating and coordinating a river restoration monitoring project. *River Research and Applications*, 30(4), 527–535.
<https://doi.org/10.1002/rra.2651>

Raven, E. K., Lane, S. N., & Bracken, L. J. (2010). Understanding sediment transfer and morphological change for managing upland gravel-bed rivers. *Progress in Physical Geography*, 34(1), 23–45. <https://doi.org/10.1177/0309133309355631>

Reid, H. E., & Brierley, G. J. (2015). Assessing geomorphic sensitivity in relation to river capacity for adjustment. *Geomorphology*, 251, 108–121.

<https://doi.org/10.1016/j.geomorph.2015.09.009>

Rinaldi, M., Gurnell, A. M., del Tánago, M. G., Bussettini, M., & Hendriks, D. (2016a). Classification of river morphology and hydrology to support management and restoration. *Aquatic Sciences*, 78(1), 17–33. <https://doi.org/10.1007/s00027-015-0438-z>

Rinaldi, M., Gurnell, A. M., del Tánago, M. G., Bussettini, M., & Hendriks, D. (2016b). Classification of river morphology and hydrology to support management and restoration. *Aquatic Sciences*, 78(1), 17–33. <https://doi.org/10.1007/s00027-015-0438-z>

River Styles. (n.d.). <http://www.riverstyles.com/>

Roni, P., & Beechie, T. J. (2013). Stream and watershed restoration: a guide to restoring riverine processes and habitats: Vol. Advancing river restoration and management. Wiley-Blackwell.

Rosgen, D. L. (1994). A classification of natural rivers. *CATENA*, 22(3), 169–199. [https://doi.org/10.1016/0341-8162\(94\)90001-9](https://doi.org/10.1016/0341-8162(94)90001-9)

Royal Geographical Society. (2012a). Water policy in the UK: the challenges. https://www.rgs.org/NR/rdonlyres/4D9A57E4-A053-47DC-9A76-BDBEF0EA0F5C/0/RGSIBGPo licyDocumentWater_732pp.pdf

RSPB. (2014c). Flooding in focus. https://www.rspb.org.uk/Images/flooding-in-focus_tcm9-386202.pdf

Ryan Bellmore, J., Duda, J. J., Craig, L. S., Greene, S. L., Torgersen, C. E., Collins, M. J., & Vittum, K. (2017). Status and trends of dam removal research in the United States. *Wiley Interdisciplinary Reviews: Water*, 4(2). <https://doi.org/10.1002/wat2.1164>

Sambrook Smith, G. H. (2006). Braided rivers: process, deposits, ecology, and management. Blackwell Pub.

Schaller, N., Kay, A. L., Lamb, R., Massey, N. R., van Oldenborgh, G. J., Otto, F. E. L., Sparrow, S. N., Vautard, R., Yiou, P., Ashpole, I., Bowery, A., Crooks, S. M., Haustein, K., Huntingford, C., Ingram, W. J., Jones, R. G., Legg, T., Miller, J., Skeggs, J., ... Allen, M. R. (2016). Human influence on climate in the 2014 southern England winter floods and their impacts. *Nature Climate Change*, 6(6), 627–634. <https://doi.org/10.1038/nclimate2927>

Schottler, S. P., Ulrich, J., Belmont, P., Moore, R., Lauer, J. W., Engstrom, D. R., & Almendinger, J. E. (2014). Twentieth century agricultural drainage creates more erosive rivers. *Hydrological Processes*, 28(4), 1951–1961. <https://doi.org/10.1002/hyp.9738>

Scotland & Northern Ireland Forum for Environmental Research. (n.d.-b). A handbook of climate trends across Scotland (SNIFFER project CC03). https://www.south-ayrshire.gov.uk/documents/sniffer%20partnership_climate%20change%20trend%20handbook%20june%2006.pdf

Scottish Environmental Protection Agency. (n.d.-c). Supporting guidance (WAT-SG-21): Environmental Standards for River Morphology. https://www.sepa.org.uk/media/152194/wat_sg_21.pdf

- SEPA. (2005b). Scotland River Basin District : Characterisation and impacts analyses required by article 5 of the Water Framework Directive.
https://www.sepa.org.uk/media/37505/rbmp_scotland_characterisation-impacts-analysis_article5.pdf
- SEPA. (2007). Significant water management issues in the Scotland river basin district.
https://www.sepa.org.uk/media/37765/significant-water-management-issues_scotland.pdf
- SEPA. (2011b). Flood Risk Management Strategies and Local Flood Risk Management Plans.
http://www.sepa.org.uk/media/42632/frm_strategies_and_lfrm_plans.pdf
- SEPA. (2012b). Supporting Guidance (WAT-SG-21) : Environmental Standards for River Morphology. https://www.sepa.org.uk/media/152194/wat_sg_21.pdf
- SEPA. (2015b). Natural flood management handbook.
<http://www.sepa.org.uk/media/163560/sepa-natural-flood-management-handbook1.pdf>
- Simon, A., Bennett, S. J., Castro, J. M., & American Geophysical Union. (2011). Stream restoration in dynamic fluvial systems: scientific approaches, analyses, and tools: Vol. Geophysical monograph. American Geophysical Union.
- Slater, L. J. (2016). To what extent have changes in channel capacity contributed to flood hazard trends in England and Wales? *Earth Surface Processes and Landforms*, 41(8), 1115–1128. <https://doi.org/10.1002/esp.3927>
- Slater, L. J., Singer, M. B., & Kirchner, J. W. (2015). Hydrologic versus geomorphic drivers of trends in flood hazard. *Geophysical Research Letters*, 42(2), 370–376.
<https://doi.org/10.1002/2014GL062482>
- Smith, B., Clifford, N. J., & Mant, J. (2014). Analysis of UK river restoration using broad-scale data sets. *Water and Environment Journal*, 28(4), 490–501.
<https://doi.org/10.1111/wej.12063>
- Smith, M. J., Paron, P., & Griffiths, J. S. (2011). *Geomorphological mapping: methods and applications: Vol. Developments in earth surface processes (1st ed)* [Electronic resource]. Elsevier.
<https://ezproxy.lib.gla.ac.uk/login?url=https://www.sciencedirect.com/science/book/9780444534460>
- Smith, S. M., & Prestegard, K. L. (2005). Hydraulic performance of a morphology-based stream channel design. *Water Resources Research*, 41(11), n/a-n/a.
<https://doi.org/10.1029/2004WR003926>
- Snake River. (7 C.E.). <https://www.youtube.com/watch?v=DK5nUXkrz8o>
- Syvitski, J. P. M. (2005). Impact of Humans on the Flux of Terrestrial Sediment to the Global Coastal Ocean. *Science*, 308(5720), 376–380.
<https://doi.org/10.1126/science.1109454>
- Tadaki, M., Brierley, G., & Cullum, C. (2014). River classification: theory, practice, politics. *Wiley Interdisciplinary Reviews: Water*, n/a-n/a. <https://doi.org/10.1002/wat2.1026>

The River Restoration Centre. (n.d.). <http://www.therrc.co.uk/>

Thomas et al, J. S. (n.d.). GNS Science report 2009/43: 42 years evolution of Slip Stream landslide and fan, Dart River, New Zealand. https://shop.gns.cri.nz/sr_2009-43-pdf/

Thorne, C. (2014). Geographies of UK flooding in 2013/4. *The Geographical Journal*, 180(4), 297–309. <https://doi.org/10.1111/geoj.12122>

United Nations Office for Disaster Risk Reduction. (n.d.-d). Global assessment report on disaster risk reduction 2015. <https://www.unisdr.org/we/inform/publications/42809>

United Nations Office for Disaster Risk Reduction, & Centre for Research on Epidemiology of Disasters. (n.d.-e). The human cost of weather-related disasters 1995-2015. <https://www.unisdr.org/we/inform/publications/46796>

Werritty, A., Hoey, T. B., & Scottish Natural Heritage (Agency). (2004). Geomorphological changes and trends in Scotland: river channels and processes: Vol. no. 053 [Electronic resource]. Scottish Natural Heritage. https://www.snh.org.uk/pdfs/publications/commissioned_reports/F00AC107B.pdf

Werritty, A., & Leys, K. F. (2001). The sensitivity of Scottish rivers and upland valley floors to recent environmental change. *CATENA*, 42(2–4), 251–273. [https://doi.org/10.1016/S0341-8162\(00\)00140-5](https://doi.org/10.1016/S0341-8162(00)00140-5)

Wohl, E. E. (2014). *Rivers in the landscape: science and management*. John Wiley & Sons Inc.

Wohl, E., Lane, S. N., & Wilcox, A. C. (2015). The science and practice of river restoration. *Water Resources Research*, 51(8), 5974–5997. <https://doi.org/10.1002/2014WR016874>

Wohl, E., & Merritts, D. J. (2007). What Is a Natural River? *Geography Compass*, 1(4), 871–900. <https://doi.org/10.1111/j.1749-8198.2007.00049.x>

Working with natural processes to reduce flood risk : JBA Trust - Interactive map. (n.d.). <http://www.jbatrust.org/news/working-with-natural-processes-to-reduce-flood-risk/>

World Commission on Dams. (2000). *Dams and development: a new framework for decision-making*. https://www.internationalrivers.org/sites/default/files/attached-files/world_commission_on_dams_final_report.pdf

Yang, S. L., Milliman, J. D., Li, P., & Xu, K. (2011). 50,000 dams later: Erosion of the Yangtze River and its delta. *Global and Planetary Change*, 75(1–2), 14–20. <https://doi.org/10.1016/j.gloplacha.2010.09.006>

Young, S. M., & Ishiga, H. (2014). Environmental change of the fluvial-estuary system in relation to Arase Dam removal of the Yatsushiro tidal flat, SW Kyushu, Japan. *Environmental Earth Sciences*, 72(7), 2301–2314. <https://doi.org/10.1007/s12665-014-3139-3>

Zarfl, C., Lumsdon, A. E., Berlekamp, J., Tydecks, L., & Tockner, K. (2015). A global boom in hydropower dam construction. *Aquatic Sciences*, 77(1), 161–170.

<https://doi.org/10.1007/s00027-014-0377-0>