

## Michael Dunbar: Publications List (July 2009)

- Acreman, M.C., Dunbar, M.J., Hannaford, J., Mountford, O., Wood, P., Holmes, H.T.H., Cowx, I., Noble, R., Extence, C., Aldrick, J., King, J., Black, A., Crookall, D. Developing environmental standards for abstractions from UK rivers to implement the EU Water Framework Directive. *Hydrological Sciences Journal*. **53**(6) 1105-1120
- Acreman, M., Aldrick, J., Binnie, C., Black, A., Cowx, I., Dawson, H., Dunbar, M., Extence, C., Hannaford, J., Harby, A., Holmes, N., Jarrett, N., Old, G., Peirson, G. and Webb, J. 2009. Environmental flows from dams: the water framework directive. *Engineering Sustainability* **162**(ES1) 13
- Franklin, P., Dunbar, M.J. and Whitehead, P. (2008). Flow controls on lowland river macrophytes: A review. *Science of the Total Environment*. doi:10.1016/j.scitotenv.2008.06.018
- Neale, M., Dunbar, M.J., Jones, J.I. and Ibbotson, A.T. (2008). Spatial patterns of macro-invertebrate drift in an English Chalk stream. *Freshwater Biology* **53**, 1513–1523. doi:10.1111/j.1365-2427.2008.01981.x
- Booker, D.J. and Dunbar, M.J. (2008). Predicting river width, depth and velocity at ungauged sites in England and Wales using multilevel models. *Hydrological Processes*. doi: 10.1002/hyp.7007
- Fisher, J. and Dunbar, M. (2007). Towards a representative periphytic diatom sample. *Hydrology and Earth System Science* **11**(1) 399-407.
- Acreman, M.C. and Dunbar, M.J. (2004). Defining environmental river flow requirements – a review. *Hydrology and Earth System Science*. **8**(5): 861-876
- Booker, D.J., Dunbar, M.J. and Ibbotson, A.T. (2004). Predicting juvenile salmonid drift-feeding habitat quality using a three-dimensional hydraulic-bioenergetic model. *Ecological Modelling* **177**, 157-177.
- Booker, D.J. and Dunbar, M.J. 2004. Application of physical habitat modelling to modified urban river channels. *River Research and Application* **20**, 167-183
- Dunbar, M.J., Acreman, M.C. and Kirk, S. 2004. Environmental flow setting in England and Wales – Strategies for managing abstraction in catchments. *CIWEM journal* **18**(1) 5-10.
- Booker, D.J., Dunbar, M.J., Shamseldin, A., Durr, C., and Acreman, M.C. 2003. Physical habitat assessment in urban rivers under future flow scenarios. *CIWEM Journal* **17**(4) 251-256.
- Ibbotson, A.T. and Dunbar, M.J. 2002. Are differences between discharge-specific preference functions relevant for the application of PHABSIM? *Journal of Fish Biology*. **61** 305-312
- Dunbar, M.J. and Acreman, M.C. 2001. Applied hydro-ecological science for the 21<sup>st</sup> Century. In Acreman, M.C. (ed), “*Hydro-ecology: linking hydrology and aquatic ecology*”. IAHS Pub. No. **266** 1-18.
- Parasiewicz, P. and Dunbar, M.J. 2001. Physical Habitat Modelling for Fish: A developing approach. *Large Rivers* **12** 2-4, Arch. Hydrobiol. Suppl. 135/2-4. 239-268

Elliott, C.R.N., Dunbar, M.J., and Acreman, M.C. 1999. A Habitat Assessment Approach to the Management of Groundwater Dominated Rivers. *Hydrological Processes* **13** 459-475.

### **Contract Reports**

Dunbar, M.J., Mould, D.J. 2008. DRIED-UP2 (Distinguishing the Relative Importance of Environmental Data Underpinning flow Pressure Assessment). Report to the Environment Agency.

Dunbar, M.J., Holmes, M.G.R and Young, A.R. 2008. Guidance on environmental flow releases from impoundments to implement the Water Framework Directive. Project extension 2: Validation of Managed Flow Standards. Report to SNIFFER.

Dunbar, M.J. and Goodwin, T.G. 2006. *Development of a statistical hydrology-ecology model incorporating uncertainty in transposed river flows, and LIFE score. HarmoniRib Case Study for the River Kennet.* Part of Deliverable 7.1 for the European Framework 5 project HarmoniRib EVK1-2001-00225

Dunbar, M.J., Keller, V. and Young, A.R. 2006. DRIED-UP (Distinguishing the Relative Importance of Environmental Data Underpinning flow Pressure Assessment). Report to the Environment Agency EMCAR programme.

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Ibbotson, A.T., Beaumont, W.R.C. and Dunbar, M.J. 2005. Tadnoll Brook – A review of the historical and present salmon population. Report to Wessex Water 17pp.

Hannaford, J., Acreman, M.C., Dunbar, M.J., Black, A.R., Rowan, J.S. and Bragg, O.M. 2005. Development of environmental standards (water resources), Stage 3: regulatory standards. Report to SNIFFER Project WFD48.

Acreman, M.C., Dunbar, M.J., Hannaford, J., Black, A.R., Rowan, J.S. and Bragg, O.M. 2005. Development of environmental standards (water resources), Stage 2: review of typologies. Report to SNIFFER Project WFD48.

Acreman, M.C., Dunbar, M.J., Hannaford, J., Black, A.R., Rowan, J.S. and Bragg, O.M. 2005. Development of environmental standards (water resources), Stage 1: identification of hydro-morphological parameters to which the aquatic ecosystem is sensitive. Report to SNIFFER Project WFD48.

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Dunbar, M.J. (ed), Ash, J., Bass, J., Booker, D., Dawson, H. Fenn, T., Gozlan, R., Latimer, P., Postle, M., Rogerson, H., Welton, S. 2002. Guidelines for the Identification and Designation of Heavily Modified Water Bodies in England and Wales. Environment Agency Project Record P2-260/3. 166pp + appendices.

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