

CURRICULUM VITAE

Mark James Kennard



PERSONAL

Citizenship: Australian
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CURRENT POSITION: Senior Research Fellow – Australian Rivers Institute, Griffith University.

TERTIARY EDUCATION

Doctor of Philosophy. Faculty of Environmental Sciences, Griffith University, 2005. Thesis Title: "A Quantitative Basis for the Use of Fish as Indicators of River Health in Eastern Australia"

Master of Philosophy. Faculty of Environmental Sciences, Griffith University, 1995. Thesis title: "Factors Influencing Freshwater Fish Assemblages in Floodplain Lagoons of the Normanby River, Cape York Peninsula: A Large Tropical Australian River"

Bachelor of Science. Division of Australian Environmental Studies, Griffith University, 1990. Concentration Area: Ecology and its Applications.

EMPLOYMENT HISTORY

2009– Senior Research Fellow. Australian Rivers Institute, Griffith University and Tropical Rivers and Coastal Knowledge (TRaCK) Research Hub.

2006–2008. Post-Doctoral Research Fellow. Australian Rivers Institute, Griffith University, Tropical Rivers and Coastal Knowledge (TRaCK) Research Hub, and eWater CRC.

2000–2005. Research Fellow & Student (PhD). Centre for Riverine Landscapes, Griffith University, CRC for Freshwater Ecology and Rainforest CRC.

1995–2000. Senior Research Assistant. Centre for Catchment and In-Stream Research, Griffith University.

1990–1995. Research Assistant and Student (M. Phil.). Centre for Catchment and In-Stream Research, Griffith University.

RESEARCH INTERESTS AND EXPERTISE

Dr Mark Kennard has extensive experience in biodiversity assessment, hydroecology, environmental flow management and biomonitoring in rivers of northern, eastern and southern Australia and in southern Africa. He currently leads several projects through the Australian Research Council (Discovery project), the National Environmental Research Program (Northern Australia Hub), the Commonwealth Environmental Research Facility (Tropical Rivers and Coastal Knowledge hub) and the CSIRO Flagship Cluster (Ecological responses to altered flow regimes in the Murray-Darling Basin). Examples of these projects include an assessment of the biodiversity conservation values of aquatic ecosystems in northern Australia, development of an ecohydrological classification of Australia's natural flow regimes and an assessment of the low-flow requirements of fish in the Daly River. His expertise is widely sought for project steering committees, international workshops, expert panels and reviews, commissioned projects and advice to government departments, and he has a strong track record in winning external research funding through collaborative national competitive research grants, tenders and consultancies. He is co-author of 37 refereed journal publications (plus 4 currently in review), 1 book, 8 book chapters, 8 refereed conference proceedings, and over 50 technical reports, consultant reports, newsletter articles and workshop proceedings.

AWARDS and DISTINCTIONS

2011. *Theo Murphy High Flyers Think Tank delegate, Australian Academy of Sciences*. "Stressed ecosystems: better decisions for Australia's future". Go to: <http://www.science.org.au/events/thinktank/thinktank2011/index.html>
2011. *Australian Academy of Technological Sciences and Engineering (ATSE) science delegation member* to Taiwan National Science Council for strategic workshop on sustainable water environment.
- 2009–2010. *International working group member* – US National Centre for Ecological Analysis and Synthesis (NCEAS). "Evaluating responses of freshwater ecosystems to experimental water management". Go to: <http://www.nceas.ucsb.edu/projects/12374>.
2005. *Whitley Medal* (with co-authors Brad Pusey and Angela Arthington) from the Royal Zoological Society of New South Wales for the book "*Freshwater Fishes of North-Eastern Australia*" CSIRO Publishing. The Whitley Medal is the most sought after prize in zoological publishing in Australia.
2005. *Griffith University Postdoctoral Fellowship* (funding for three years, commenced Jan 2006).
2005. *Academic Excellence distinction* from the Office of Graduate Studies, Griffith University, in acknowledgement of an exemplary examination result for a Doctor of Philosophy thesis. For details go to: http://www.griffith.edu.au/rhd/content_graduates2005.html
- 1989–1990. *Summer Research Scholarship*, Australian Water Research Advisory Council (AWRAC). Centre for Catchment and In-Stream Research, Griffith University.

RESEARCH GRANTS, TENDERS & CONSULTANCIES

Current

- 2012–2014. *Australian Research Council (ARC) Discovery Project*, "DP120103353 – Systematic planning beyond conservation: a multi-objective, multi action framework for sustainable biodiversity". S. Linke, M.J. **Kennard** & J. Carwardine. **\$230,000**.
- 2011–2014. *Department of Sustainability, Environment, Water, Population and Communities*, "National Environmental Research Program (NERP) – North Australian Biodiversity Hub". M. Douglas, B. Pressey, A. Dale, R. Hill, J. Woinarski, R. Greiner, N. Stoeckl, A. Fisher, J. Altman, S. Jackson, J. Morrison, M. **Kennard**, S. Bunn, P. Bayliss, S. Setterfield, S. Williams, D. Metcalfe, H. Murphy, P. Davies. **\$14,700,000**.

2011–2012. *Griffith University/James Cook University Collaborative Grants Scheme*. “Examining trade-offs and synergies between terrestrial and freshwater conservation priorities in the Daly Catchment”. B. Pressey & M.J. **Kennard**. **\$10,000**.

2011–2012. *Department of Environment & Resource Management, Queensland Government*. “Cape York Peninsula Hydroecological Story”. M.J. **Kennard**. **\$21,802**.

Past

2010. *National Water Commission*. “Low Flows Stage 1b: Ecological Needs Scoping Paper – Water dependent ecosystems”. F. Sheldon & M.J. **Kennard**. **\$49,732**.

2009–2010. *Department of the Environment, Water, Heritage and the Arts, the National Water Commission*. “Northern Australia Water Futures Assessment (NAWFA): Northern Australia Aquatic Ecological Assets Project” M.J. **Kennard**, B.J. Pusey & J.E. Hughes. **\$1,175,000**.

2006–2008. *Natural Heritage Trust and National Action Plan for Water Quality and Salinity*. “Environmental and cultural water requirements: risk and resource assessment” M. Douglas, S. Jackson, B.J. Pusey & M.J. **Kennard**. **\$491,000**.

2006–2008. *Land & Water Australia*. 2006/07 Innovation Call. “Ecohydrological regionalisation of Australia: a tool for management and science”. B.J. Pusey, M.J. **Kennard**, M. Hutchinson & F. Sheldon. **\$167,192**. (*Tropical Rivers and Coastal Knowledge (TRaCK) CERF Hub* associated project)

2005–2009. *Land & Water Australia*. Environmental Water Allocation. “Water regime dependence of fish in the wet-dry tropics”. M. Douglas, B.J. Pusey & M.J. **Kennard**. **\$332,804**. (*TRaCK* associated project)

2006–2007. *CRC eWater*: M.J. **Kennard** & F. Sheldon, “Modelling Hydroclimatic Variability and Impacts on Water Resources and Aquatic Ecosystems”. **\$47,645**

2006. *CRC eWater*: M.J. **Kennard**, “Subcontract in Relation to Provision of a Baseline Assessment of Australia's Water Resources - Stage 2”. **\$24,163**

2004–2006. *CRC for Tropical Rainforest Ecology and Management*: A.H. Arthington, B.J. Pusey, M.J. **Kennard**, S.E. Bunn, “River Health Assessment Tools (Catchment to Reef Project)”. **\$330,750**

2004–2006. *CRC for Tropical Rainforest Ecology and Management*: A.H. Arthington, B.J. Pusey, M.J. **Kennard**, S.E. Bunn, “Frameworks for integrated catchment management (Catchment to Reef Project)”. **\$165,000**

2006. *CRC eWater*: M.J. **Kennard**, “Victorian Environmental Flow Monitoring and Assessment Program - Stage 2”. **\$4,000**

2003. *CRC Freshwater Ecology - Project Grants*: Prof Angela Arthington, Dr Mark **Kennard**, (2003), “Assessment and delivery of methods for determining river health”. **\$15,000**

2002. *Murray Darling Basin Commission*. “Development of criteria for selection of fish reference sites and auditing of sampling methods”. M.J. **Kennard**. **\$5,000**.

2000. *CRC for Freshwater Ecology*. CRC Scoping Study. “Project ScD6 – Trophic ecology of freshwater fishes in Australia” A.H. Arthington & M.J. **Kennard**. **\$13,500**.

1991–1993. *Queensland Department of Environment and Heritage*. Conservation of Rare and Threatened Species and their Habitats. “Factors influencing freshwater fish assemblages in the Normanby River: a large tropical floodplain river.” M.J. **Kennard**. **\$2,000**.

MEMBERSHIP OF PROFESSIONAL AND OTHER SCIENTIFIC BODIES

- Ecological Society of Australia (ESA)
- Australian Society for Fish Biology (ASFB)
- Australia New Guinea Fishes Association (ANGFA)

REFEREE FOR JOURNALS

Aquatic Conservation – Marine & Freshwater Ecosystems, Aquatic Sciences, Austral Ecology, Australian Journal of Zoology, Biological Conservation, Conservation Biology, Ecography, Ecological Applications, Ecology of Freshwater Fish, Environmental Modelling & Software, Environmetrics, Fisheries Research, Freshwater Biology, Global Ecology and Biogeography, Hydrobiologia, Hydrological Processes, International Journal of Tropical Biology and Conservation, Journal of Biogeography, Marine and Freshwater Research, Memoirs of the Queensland Museum, New Zealand Journal of Marine and Freshwater Research, Proceedings of the Royal Society of New Zealand, River Research and Applications.

STUDENT SUPERVISION

- PhD – 3 current (David Sternberg, Laurisse Frampton, Peter Rose), 1 completed (Ben Stewart-Koster)
- MPhil – 1 current (Christopher Togher)
- Honours – 1 current (Sebastian Knight), 4 completed (Ben Stewart-Koster (1A), Mark Spears (1A), Laurisse Frampton (1A), Stephen Cousins (1B))
- Summer Scholarships – 6 completed (Australian Rivers Institute, and CRC's for Freshwater ecology and Catchment Hydrology).

TEACHING

- Guest Lecturer – 3052ENV Emerging issues in Aquatic Ecology. Semester 2, 2011. 3 Lectures on aquatic invasive species, species distribution models and systematic conservation planning.
- Guest Lecturer – AES2251 Animal Diversity. Semester 1, 2004. Guest lecture: “Determinants of freshwater fish biodiversity in Australia”
- Guest Lecturer – AES3051 Aquatic Ecosystems. Semester 1, 2003. Guest lecture: “Environmental flow requirements of freshwater fish in Australia”
- Guest Lecturer and Field Demonstrator – Stream Habitats and Hydraulics Training Course. Centre for Riverine Landscapes & Canadian Rivers Institute, EcoCentre - Crystal Waters, Conondale, Queensland (2004).

ORGANISATIONAL and SERVICE ACTIVITIES

- *Chair* – Communication and Marketing Committee, Australian Rivers Institute (2011–)
- *Staff Representative* – Strategic Research Committee, Australian Rivers Institute (2011–)
- *Assessor* for the Australian Research Council (2010 –)
- *Science Review Panel member* – Northern Australia Land and Water Taskforce (2009).
- *Steering Committee member* – Griffith University Project “Hydro-ecological relationships and thresholds to inform environmental flow management and river restoration”, funded by the National Water Commission (2008–2010)
- *Steering Committee member* – Charles Darwin University and CSIRO joint project “Valuing Tropical River Ecosystem Services”, funded by Land & Water Australia (2007–2009).
- *Steering Committee member* – Monash University project “Use of Bayesian Decision Support Tools in Sustainable Management”, funded by Land & Water Australia (2007–2009)
- *Co-organiser* – 3rd International Symposium on Riverine Landscapes, Queensland, Australia (2007)
- *Aquatic Fauna Expert Panel member* – Brisbane City Council and Queensland Environmental Protection Agency “Aquatic Conservation Assessment for Brisbane’s Waterways” (2007)
- *Early Career Representative* – Executive Committee, Australian Rivers Institute (2006–2008)
- *Coordinator* – Weekly seminar series, Australian Rivers Institute, Griffith University (2006)
- *Organiser* – Geographical Information Systems (GIS) 2-day workshop for Australian Rivers Institute staff and students (2006)

- *Co-organiser* – Publication Syndicates (journal article writing workshops), Centre for Riverine Landscapes (2005)
- *Coordinator* – Centre for Riverine Landscapes display booth at the *Riversymposium*, Brisbane, Queensland (2003–2005)
- *Coordinator* – Centre for Riverine Landscapes display booth at the Griffith University Open Day (2003–2004)
- *Technical Advisory Panel member* – Queensland Department of Natural Resources and Water “Water Resource Plans for the Mary, Logan and Burnett River Basins” (2000-2006)
- *Mary River Cod Recovery Team member* – Queensland Department of Primary Industries and Fisheries (2000-2002)
- *Queensland representative* – Exotic Species Committee, Australian Society for Fish Biology (1999-2003)
- *Expert witness* (for Queensland Department of Environment and Heritage) in two separate cases in the Maroochy Magistrates Court in relation to fish kills in the Maroochy River (1995).

OTHER RELEVANT DETAILS

- Licensed to drive a Motor Car (Queensland)
- Licensed to drive a Motorised Boat (Queensland)
- Licensed to SCUBA Dive (PADI)
- Certified to operate electrofishing apparatus (U.S. Fish & Wildlife Service - National Conservation Training Center)
- Proficient in the use of statistical software (SPLUS, R, SPSS, SAS, PRIMER, PATN), ARC-GIS, graphical software (Surfer, DeltaGraph, SigmaPlot), and databases (MSAccess, MSEXcel)

PUBLICATIONS

Books and Book Chapters

9. Koehn, J. & **Kennard**, M.J. (in press). Fish habitats. Chapter 4 In: *The Ecology of Australian Freshwater Fishes*. (Eds) P. Humphries & K. Walker. CSIRO Publishing. Pp. ??
8. Arthington, A.H., **Kennard**, M.J. & Pusey, B.J. (in press). Fish assemblages. Chapter 6 In: *The Ecology of Australian Freshwater Fishes*. (Eds) P. Humphries & K. Walker. CSIRO Publishing. Pp. ??
7. Pusey, B., **Kennard** M., Burrows, D., Perna, C., Kyne, P., Cook, B. & Hughes, J. (2011). Freshwater fish. Chapter 6 In: BJ Pusey (ed). *Aquatic Biodiversity in Northern Australia: Patterns, Threats and Future*. Charles Darwin University Press, Darwin. Pp. 71–92. ISBN: 9780980864113.
6. Hermoso, V., **Kennard**, M., Pusey, B. & Douglas, M. (2011). Identifying priority areas for the conservation of freshwater biodiversity. Chapter 9 In: BJ Pusey (ed). *Aquatic Biodiversity in Northern Australia: Patterns, Threats and Future*. Charles Darwin University Press, Darwin. Pp. 133–149.
5. Pusey, B., Warfe, D., Townsend, S., Douglas, M., Burrows, D., **Kennard**, M. & Close, P. (2011). Condition, impacts and threats to aquatic biodiversity. Chapter 10 In: BJ Pusey (ed). *Aquatic Biodiversity in Northern Australia: Patterns, Threats and Future*. Charles Darwin University Press, Darwin. Pp. 151–172.
4. Douglas, M., Jackson S., Setterfield, S., Pusey, B., Davies, P., **Kennard**, M., Burrows, D., & Bunn, S. (2011). Northern futures: threats and opportunities for freshwater ecosystems. Chapter 13 In: BJ Pusey (ed). *Aquatic biodiversity of the Wet-Dry Topics of Northern Australia: patterns, threats and future*. Charles Darwin University Press, Darwin. Pp. 203–220.
3. Olden, J.D. & **Kennard**, M.J. (2010). Intercontinental convergence of fish life history strategies along a gradient of hydrologic variability. Pp. 83–107 In: *Community Ecology of Stream Fishes: Concepts, Approaches, and Techniques*. (Eds) K.B. Gido & D.A. Jackson. American Fisheries Society, Symposium 73, Bethesda, Maryland. ISBN: 978-1-934874-14-1.
2. Pusey, B.J., **Kennard**, M.J. & Arthington, A.H. (2008). Origins and maintenance of freshwater fish biodiversity in the Wet Tropics region. Chapter 11. In: *Living in a Dynamic Tropical Forest Landscape*. (Eds.) N. Stork & S. Turton. Blackwell Publishing. Pp. 150–160.
1. Pusey, B.J., **Kennard**, M.J. & Arthington, A.H. (2004). *Freshwater Fishes of North-Eastern Australia*. CSIRO Publishing, Collingwood. 684pp.

Refereed Journal Articles

37. Hermoso, V. & Kennard, M.J. (2012). Uncertainty in coarse conservation assessments hinders the efficient achievement of conservation goals. *Biological Conservation*. doi:10.1016/j.biocon.2012.01.020
36. Boone, E.L., Stewart-Koster, B. & Kennard, M.J. (2012). A hierarchical zero-inflated Poisson regression model for stream fish distribution and abundance. *Environmetrics*. DOI: 10.1002/env.1145
35. Hermoso, V., Kennard, M.J. & Linke, S. (2012). Integrating multi-directional connectivity requirements in systematic conservation planning for freshwater systems. *Diversity and Distributions*. DOI: 10.1111/j.1472-4642.2011.00879.x
34. Olden, J.D., Kennard, M.J. & Pusey, B.J. (2012). A framework for hydrologic classification with a review of methodologies and applications in ecohydrology. *Ecohydrology*. DOI: 10.1002/eco.251.
33. Hermoso, V., Clavero, M. & Kennard, M.J. (2012). Determinants of fine-scale homogenization and differentiation of native freshwater fish faunas in a Mediterranean basin: Implications for conservation. *Diversity and Distributions*. DOI: 10.1111/j.1472-4642.2011.00828.x.
32. Reidy Liermann, C.A., Olden, J.D., Beechie, T., Kennard, M.J., Skidmore, P., Konrad, C. & Imaki, H. (2011). Hydrogeomorphic classification of Washington State rivers to support emerging environmental flow management strategies. *River Research and Applications*. DOI: 10.1002/rra.1541.
31. Zhang, Y., Arthington, A.H., Bunn, S.E., Mackay, S., Xia, J., Kennard, M. (2012). Classification of flow regimes for environmental flow assessment in regulated rivers: the Huai River Basin, China. *River Research and Applications*. DOI: 10.1002/rra.1483.
30. Chan, T., Hart, B., Kennard, M.J., Pusey, B.J., Shenton, W., Douglas, M., Valentine, E. & Patel, S. (2012). Bayesian network models for environmental flow decision-making in the Daly River, Northern Territory, Australia. *River Research and Applications*. DOI: 10.1002/rra.1456.
29. Konrad, C.P., Olden, J.D., Lytle, D.A., Melis, T.S., Schmidt, J.C., Bray, E.N., Freeman, M.C., Gido, K.B., Hemphill, N.P., Kennard, M.J., McMullen, L.E., Mims, M.C., Pyron, M., Robinson, C.T., Williams, J.G. (2011). Large-scale flow experiments for managing river systems. *BioScience*. **61**: 948–959.
28. Stewart-Koster, B., Olden, J.D., Kennard, M.J., Pusey, B.J., Douglas, M. & Jackson, S. (2011). Fish response to the temporal hierarchy of the natural flow regime in the Daly River, northern Australia. *Journal of Fish Biology*. **79**: 1525–1544.
27. Warfe, D.M., Pettit, N.E., Davies, P.M., Pusey, B.J., Hamilton, S.K., Kennard, M.J., Townsend, S.E., Bayliss, P., Ward, D.P., Douglas, M.M., Burford, M.A., Finn, M., Bunn, S.E. & Halliday, I.A. (2011). The “wet-dry” in the wet-dry tropics drives ecosystem structure and function in northern Australian rivers. *Freshwater Biology*. **56**: 2169–2195.
26. Morrongiello, J.R., Beatty, S.J., Bennett, J.C., Crook, D.A., Ikedife, D.N.E.N., Kennard, M.J., Kerezszy, A., Lintermans, M., McNeil, D.G., Pusey, B.J. & Rayner, T. (2011). Climate change and its implications for Australia’s freshwater fish. *Marine and Freshwater Research*. **62**: 1082–1098.
25. Cook, B.D., Kennard, M.J., Real, K., Pusey, B.J. & Hughes, J.M. (2011). Landscape genetic analysis of the tropical freshwater fish *Mogurnda mogurnda* (Eleotridae) in a monsoonal river basin: importance of hydrographic factors and population history. *Freshwater Biology*. **56**: 812–827.
24. Olden, J.D., Kennard, M.J., Poff, N.L. & Lawler, J.J. (2011). Challenges and opportunities in implementing managed relocation for conservation of freshwater species. *Conservation Biology*. **25**: 40–47.
23. Pusey, B.J., Arthington, A.H., Stewart-Koster, B., Kennard, M.J. & Read, M.G. (2010). Widespread omnivory and low temporal and spatial variation in the diet of fishes in a hydrologically variable northern Australian river. *Journal of Fish Biology*. **77**: 731–753.
22. Hadwen, W.L., Spears, M. & Kennard, M.J. (2010). Temporal variability of benthic algal $\delta^{13}\text{C}$ signatures influences assessments of carbon flows in stream food webs. *Hydrobiologia*. **651**: 239–251.
21. Olden, J.D., Kennard, M.J., Leprieur, F., Tedesco, P.A., Winemiller, K.O. & García-Berthou, W. (2010). Conservation biogeography of freshwater fishes: recent progress and future challenges. *Diversity and Distributions* **16**: 496–513.
20. Kennard, M.J., Pusey, B.J., Mackay, S.J., Olden, J.D. & Marsh, N. (2010). Quantifying uncertainty in estimation of hydrologic metrics for ecohydrological studies. *River Research and Applications*. **26**: 137–156.
19. Bunn, S.E., Abal, E.G., Smith, M.J., Choy, S.C., Fellows, C.S., Harch, B.D., Kennard, M.J., & Sheldon, F. (2010). Integration of science and monitoring of river ecosystem health to guide investments in catchment protection and rehabilitation. *Freshwater Biology*. **55** (Suppl. 1): 223–240.
18. Kennard, M.J., Pusey, B.J., Olden, J.D., Mackay, S.J., Stein, J.L. & Marsh, N. (2010). Classification of natural flow regimes in Australia to support environmental flow management. *Freshwater Biology* **55**: 171–193.
17. Olden, J.D., Kennard, M.J. & Pusey, B.J. (2008). Species invasions and the changing biogeography of Australian freshwater fishes. *Global Ecology and Biogeography* **17**: 25–37.

16. Kennard, M.J., Olden, J.D., Arthington, A.H., Pusey, B.J. & Poff, N.L. (2007). Multi-scale effects of flow regime, habitat, and their interaction on fish assemblage structure in eastern Australia. *Canadian Journal of Fisheries and Aquatic Sciences* **64**: 1346–1359.
15. Stewart-Koster, B., Kennard, M.J., Harch, B.D., Sheldon, F., Pusey, B.J. & Arthington, A.H. (2007). Partitioning the variation in stream fish assemblages in a spatio-temporal hierarchy. *Marine and Freshwater Research* **58**: 675–686.
14. Kennard, M.J., Pusey, B.J., Harch, B.H., Dore, E. & Arthington, A.H. (2006). Estimating local stream fish assemblage attributes: sampling effort and efficiency at two spatial scales. *Marine and Freshwater Research* **57**: 635–653.
13. Pusey, B.J., Burrows, D., Arthington, A.H. & Kennard, M.J. (2006). Translocation and spread of piscivorous fishes in the Burdekin River, north-eastern Australia. *Biological Invasions* **8**: 965–977.
12. Kennard, M. J., Harch, B. D., Pusey, B. J., and Arthington, A. H. (2006). Accurately defining the reference condition for summary biotic metrics: a comparison of four approaches. *Hydrobiologia* **572**: 151–170.
11. Kennard, M.J., Pusey, B.J., Arthington, A.H., Harch, B.D. and Mackay, S.J. (2006). Development and application of a predictive model of freshwater fish assemblage composition to evaluate river health in eastern Australia. *Hydrobiologia* **572**: 33–57.
10. Mugodo, J., Kennard, M.J., Liston, P., Nichols, S., Linke, S., Norris, R. & Lintermans, M. (2006). Local stream habitat variables predicted from catchment scale characteristics are useful for predicting fish distribution. *Hydrobiologia* **572**: 59–70.
9. Kennard, M.J., Arthington, A.H, Pusey, B.J. & Harch, B.D. (2005). Are alien fish a reliable indicator of river health? *Freshwater Biology* **50**: 174–193.
8. Arthington, A.H., Rall, J.L., Kennard, M.J. & Pusey, B.J. (2003). Environmental flow requirements of fish in Lesotho Rivers using the Drift Methodology. *River Research and Applications* **19**: 641–666.
7. Mackay, S.J., Arthington, A.H., Kennard, M.J. & Pusey, B.J. (2003). Spatial variation in the distribution and abundance of submersed macrophytes in an Australian subtropical river. *Aquatic Botany* **77**: 169–186.
6. Pusey, B.J. & Kennard, M.J. (2001). *Guyu wujalwujalensis*, a new genus and species (Pisces: Percichthyidae) from north-eastern Queensland, Australia. *Ichthyological Exploration of Freshwaters* **12**: 17–28.
5. Pusey, B.J., Kennard, M.J. & Arthington, A.H. (2000). Fishes of the dune field of Cape Flattery, northern Queensland and other dune systems in north-eastern Australia. *Ichthyological Exploration of Freshwaters* **11**: 65–74.
4. Pusey, B.J., Kennard, M.J. & Arthington, A.H. (2000). Discharge variability and the development of predictive models relating stream fish assemblage structure to habitat in north-eastern Australia. *Ecology of Freshwater Fish* **9**: 30–50.
3. Pusey, B.J., Kennard, M.J., Arthur, J.M. & Arthington, A.H. (1998). Quantitative sampling of stream fish assemblages: single- vs multiple-pass electrofishing. *Australian Journal of Ecology* **23**: 365–374.
2. Pusey, B.J., Bird, J., Kennard, M.J. & Arthington, A.H. (1997). Distribution of the Lake Eacham Rainbowfish in the Wet Tropics Region, north Queensland. *Australian Journal of Zoology* **45**: 75–84.
1. Pusey, B.J. & Kennard, M.J. (1996). Species richness and geographical variation in assemblage structure of the freshwater fish fauna of the Wet Tropics region of northern Queensland. *Marine and Freshwater Research* **47**: 563–573.

Refereed Conference Proceedings

8. Marsh, N., Kennard, M., Stewardson, M. & Arthington, A. (2005). Using the River Analysis Package to quantify the effect of flow change on in-stream habitat availability. Engineers Australia. *29th Hydrology and Water Resources Symposium*. 21–23 February 2005, Canberra.
7. Pusey, B.J., Arthington, A.H. & Kennard, M.J. (2005). Threats to Freshwater Fishes of the Wet Tropics Region. *Proceedings of the Ozwater 2005 Watershed Symposium*, Townsville, May 2005.
6. Arthington, A.H., Tharme, R., Brizga, S.O., Pusey, B.J. & Kennard, M.J. (2004). Environmental flow assessment with emphasis on holistic methodologies. In: Welcomme, Robin L. and Petr, T. (Eds). *Proceedings of the Second International Symposium on the Management of Large Rivers for Fisheries: Sustaining Livelihoods and Biodiversity in the New Millenium*, Volume II. Food and Agriculture Organization of the United Nations and Mekong River Commission, pp. 37–65.
4. Pusey, B.J., Arthington, A.H. & Kennard, M.J. (2004). Hydrologic regime and its influence on broad-scale patterns of fish biodiversity in north-eastern Australian rivers. *Proceedings of the 5th International Symposium on Ecohydraulics*, Madrid, Spain, 12th -17th September 2004.
3. Brizga, S.O., Arthington, A.H., Pusey, B.J., Kennard, M.J., Mackay, S.J., Werren, G.L., Craigie, N.M. & Choy, S.J. (2002). Benchmarking, a 'top-down' methodology for assessing environmental flows in Australian rivers. In:

Environmental Flows for River Systems. An International Working Conference on Assessment and Implementation, incorporating the 4th International Ecohydraulics Symposium. Conference Proceedings. Southern Waters, Cape Town, South Africa. March 2002. 32 pp.

2. Arthington, A; Brizga, S; **Kennard**, M; Mackay, S; McCosker, R; Choy, S and Ruffini, J. (1999). Development of a Flow Restoration Methodology (FLOWRESM) for Determining Environmental Flow Requirements in Regulated Rivers Using the Brisbane River as a Case Study. In: *Water 99: Joint Congress; 25th Hydrology & Water Resources Symposium, 2nd International Conference on Water Resources & Environment Research; Handbook and Proceedings.* Barton, ACT: Institution of Engineers, Australia. Pp. 449-454.
1. Arthington, A.H., Bluhdorn, D.R. & **Kennard**, M. (1994). Food resource partitioning by *Oreochromis mossambicus*, and two native fishes in a sub-tropical Australian impoundment. In: *The Third Asian Fisheries Forum* (Eds, L. M. Chou, A.D. Munro, T.J. Lam, T.W. Chen, L.K.K. Cheong, J.K. Ding, K.K. Hooi, H.W. Khoo, V.P.R. Phang, K.F. Shim and C.H. Tan). Asian Fisheries Society, Manilla, Philippines. p. 425–428.

Research and Consulting Reports, Newsletters and Workshop Proceedings

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