

The Murray-Darling Freshwater Research Centre

Publications | 2016



Refereed Journal Articles (published)

- Attygalla NW, Baldwin DS, Silvester E, Kappen P, Whitworth KL (2016) The severity of sediment desiccation affects the adsorption characteristics and specification of phosphorus. *Environmental Science Processes & Impacts*. **18**, 64-71. DOI: 10.1039/c5em00523j
- McInerney PJ, Rees GN, Gawne B, Suter P (2016) Invasive *Salix fragilis*: altered metabolic patterns in Australian streams. *Hydrobiologia*. **767**: 267-277 SEP DOI 10.1007/s10750-015-2507-7
- McInerney PJ, Rees GN, Gawne B, Suter P, Watson G, Stoffels RJ (2016) Invasive willows drive instream community structure. *Freshwater Biology*. **61**, 1379-1391 DOI:10.1111/fwb.12778
- Paul WL, Rokahr PA, Webb JM, Rees GN, Clune TS (2016) Causal modelling applied to the risk assessment of a wastewater discharge. *Environmental Monitoring Assessment*. **188**:131-151 DOI: 10.1007/s10661-015-5074-5
- Shackleton M, Rees GN (2016) DNA Bar coding Australian macroinvertebrates for monitoring programs: benefits and current shortcomings. *Marine and Freshwater Research*. **67**, 380-390 DOI: <http://dx.doi.org/10.1071/MF14331>
- Stoffels RJ, Rehwinkel RA, Price AE, Fagan WF (2016) Dynamics of fish dispersal during river-floodplain connectivity and its implications for community assembly. *Aquatic Sciences*. **78**: 355-365 DOI 10.1007/s00027-015-0437-0
- Zhou X, Frandsen PB, Holzenthal RW, Beet CR, Bennett KR, Blahnik RJ, Bonada N, Cartwright D, Chuluunbat S, Cockc GV, Collins GE, deWard J, Dean J, Flint Jr OS, Hausmann A, Hendricj L, Hess M, Hogg ID, Kondratieff BC, Malicky H, Milton MA, Moriniere J, Morse JC, Mwangi FN, Pauls SU, Gonzalez MR, Rinne A, Robinson JL, Salokannel J, Shackleton M, Smith B Stamatakis A, St Clair R, Thomas JA, Zamora-Munoz C, Ziesmann T, Kjer KM (2016) The Trichoptera barcode initiative: a strategy for generating a species-level Tree of Life. *Philosophical Transactions Royal Society B*. **371**: 20160025 <http://dx.doi.org/10.1098/rstb.2016.0025>

Refereed Journal Articles (in press)

- Baldwin DS, Colloff MJ, Mitrovic SM, Bond NR, Wolfenden (April 2016) Restoring dissolved organic carbon subsidies from floodplains to lowland river food webs: a role for environmental flows? *Marine and Freshwater Research* DOI: <http://dx.doi.org/10.1071/MF15382>
- Harris JH, Kingsford RT, Peirson W, Baumgartner L (June 2016) Mitigating the effects of barriers to freshwater fish migrations: the Australian experience. *Marine and Freshwater Research* DOI: <http://dx.doi.org/10.1071/MF15284>
- Hermoso V, Kennard MJ, Schmidt DJ, Bond N, Huey JA, Mondol RK, Jamandre BW, Juhes JM (Aug 2016) Species distributions represent intraspecific genetic diversity of freshwater fish in conservation assessments. *Freshwater Biology*. DOI:10.1111/fwb.12810
- McInerney PJ, Rees GN, Gawne B, Suter P (May 2016) Implications of riparian willow invasion to instream community structure and function: a synthesis using causal criteria analysis. *Biological Invasions*. DOI 10.1007/s10530-016-1169-3

Scientific, Technical and Consultancy Reports

- Brown P, Henderson M, Freestone F, Campbell C (2015) The Living Murray condition monitoring refinement project report updates for the Lindsay–Mulcra–Wallpolla Islands and Hattah Lakes icon sites 2014–15. Final report prepared for the Mallee Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 84/2015, June, 34pp
- Capon S, Campbell C (2016) 2014–15 Basin–scale evaluation of Commonwealth environmental water — Vegetation Diversity Report. Final Draft Report prepared for the Commonwealth Environmental Water Office by The Murray–Darling Freshwater Research Centre, MDFRC Publication 107/2016, June, 84 pp

- Huntley S, Brown P (2016) Surrogate Refuge Site Investigation and Extended Occurrence Surveys for Murray Hardyhead Recovery in Victoria. Final Report prepared for the Department of Environment, Land, Water and Planning by The Murray–Darling Freshwater Research Centre, MDFRC Publication 96/2016, May, 26pp
- MDFRC (2016) Murray–Darling Basin Environmental Water Knowledge and Research Project: Annual Research Plan 2016–17. Final Report prepared for the Department of the Environment by The Murray–Darling Freshwater Research Centre, MDFRC Publication 121/2016, June 2016, 48pp
- Mynott JH (2016) Surveying the threatened species *Thaumatoperla alpina* across the Bogong High Plains. Final Report prepared for the Department of Land, Water and Planning by The Murray–Darling Freshwater Research Centre, MDFRC Publication 117/2016, June, 29pp
- Petrie R (2016) Zooplankton in Lake Elizabeth, Round Lake and Woorinen North Lake, winter 2016: identifying food resource availability for Murray Hardyhead. Final Report prepared for the Department of Environment, Land, Water and Planning by The Murray–Darling Freshwater Research Centre, MDFRC Publication 111/2016, May, 7pp
- Price AE, Stoffels RJ, Weatherman KA, O’Keefe R, Müller W (2016) Structural Habitat Selection by Southern Pygmy Perch (*Nannoperca australis*). Final Report prepared for Murray Local Land Services by The Murray–Darling Freshwater Research Centre, MDFRC Publication 102/2016, May, 26pp
- Stoffels RJ, Weatherman KA (2015) Will heat and hypoxia in floodplain wetlands give alien mosquitofish (*Gambusia holbrooki*) the edge over endemic pygmy perch (*Nannoperca australis*)? Final Report prepared for the Goulburn-Broken Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 94/2015, August, 22pp
- Wood D, Brown P (2016) Lateral fish movement at the Hattah Lakes icon site. Final Report prepared for the Mallee Catchment Management Authority by The Murray–Darling Freshwater Research Centre, MDFRC Publication 95/2016, March, 38pp

Conference / Poster Presentations

- Bond N, Arthington A, Balcombe S, Crook D, Marshall J, Lobegeiger J, Menke N (2016) Modelling population persistence in intermittent rivers. Society for Freshwater Science (SFS) Annual Meeting. Sacramento, California, USA. 21-26 May
- Harris CW, Silvester E, Rees GN, Pengelly J, Puskar L (2016) Proteins are a major component of dissolved organic nitrogen (DON) leached from terrestrially aged *Eucalyptus camaldulensis* leaves. 26th International Goldschmidt Conference. Yokohama, Japan. 26 June – 1 July
- Karis T, Silvester E, Rees GN (2016) Chemical regulation of alpine headwater streams during a storm event. 26th International Goldschmidt Conference. Yokohama, Japan. 26 June – 1 July
- Klein AR, Baldwin DS, Silvester E (2016) Biotic acquisition of iron: A role for catalytic reduction of Fe (III) minerals by Fe (II). 26th International Goldschmidt Conference. Yokohama, Japan. 26 June – 1 July

Lectures

- Baldwin D (2016) Water Quality. Lecture for 3rd year River and Floodplain ecology students. Charles Sturt University, Thurgoona, NSW. April
- Durant R (2016) Aquatic Plants. Lecture for 3rd year River and Floodplain ecology students. Charles Sturt University, Thurgoona, NSW. 4 April
- Nielsen D (2016) Ecology of wetland riverine microfauna. Lecture for 3rd year River and Floodplain ecology students. Charles Sturt University, Thurgoona, NSW. 14 March

Seminar Presentations

- Baldwin d (2016) Monitoring discussion – carbon / connectivity. The Living Murray Icon Site Managers (ISM) and Environmental Watering Group (EWG) Forum. Mallee Catchment Management Authority, Mildura Victoria. 4-5 May
- Baldwin DS (2016) Climate Change and Water Quality in the Southern MDB. MDFRC Investment Committee, Murray–Darling Basin Authority, Canberra. 11 May
- Baldwin D (2016) Opportunities to improve connectivity and mobilise carbon. NSW Office of Environment & Heritage Long Term Watering Plan for the Murray–Lower Darling. Interagency Consultation Group. Lake Hume Resort, NSW. 1-2 June
- Baldwin D (2016) Drivers of blue-green algal blooms in Lake Hume. Presentation at Prediction of Harmful Algal Blooms. CSIRO Land and Water, Canberra ACT. 24 June
- Baldwin D (2016) River Regulation Drought and Water Quality. Lecture to International Course on River Management, La Trobe University, Wodonga Victoria. 30 June
- Bond N (2016) Condition monitoring and environmental flows planning in the Murray–Darling Basin. Lecture to International Course on River Management, La Trobe University, Wodonga Victoria. 30 June

- Bond N (2016) The Murray–Darling Freshwater Research Centre. Presentation to LTU University Council. La Trobe University, Wodonga Victoria. 19 April
- Brown P (2016) Fish Movement. MDFRC Investment Committee, Murray–Darling Basin Authority, Canberra. 11 May
- Campbell C (2016) Vegetation responses at Hattah and LMW through droughts, flooding rains and environmental water. The Living Murray Icon Site Managers (ISM) and Environmental Watering Group (EWG) Forum. Mallee Catchment Management Authority, Mildura Victoria. 4-5 May
- Descent J (2016) The effect of temperature on germination and viability of wetland seeds. EEE Honours seminar, La Trobe University Wodonga Victoria. 22 March
- Littler R (2016) Deposition of seed along riverine corridors. EEE Honours seminar, La Trobe University Wodonga Victoria. 22 March
- McInerney P (2016) Understanding the ecological consequences of macroinvertebrate community-structure change. MDFRC Investment Committee, Murray–Darling Basin Authority, Canberra. 11 May
- Nielsen D, Durant R (2016) Vegetation Dispersal. MDFRC Investment Committee, Murray–Darling Basin Authority, Canberra. 11 May
- Price A, Stoffels R, Weatherman K, O’Keefe R, Muller W (2016) Structural habitat selection by Southern Pygmy Perch. Final Project Presentation, Wodonga La Trobe University. 14 June
- Stoffels R, Bond N (2016) How can improved knowledge of the relationship between flows, ecological condition and response be used to guide environmental water planning and management. MDFRC Investment Committee, Murray–Darling Basin Authority, Canberra. 11 May.
- Wray R (2016) Population genetics of *Physa acuta* found in Australia. EEE Honours seminar, La Trobe University Wodonga Victoria. 22 March

Fact Sheets | Discussion Papers | Information Sheets

- MDFRC (2016) Re-evaluating the threatened Alpine and Mount Stirling stonefly species. Project Leader: Julia Mynot. June 2016
- MDFRC (2016) MDFRC Corporate Brochure. June 2016

Newsletters

- La Trobe University (2016) Mildura Staff Campus News May 2016. 1st Edition
- La Trobe University (2016) Mildura Staff Campus News June 2016. 2nd Edition
- La Trobe University (2016) School of Life Sciences “Good News” Letter. Volume 2, Number 4 May
- La Trobe University (2016) School of Life Sciences “Good News” Letter. Volume 2, Number 3 April
- La Trobe University (2016) UniNews. 20 June “Welcome to Victoria, Red Copperburr
- La Trobe University (2016) AW SHE Newsletter 1: July
- La Trobe University (2016) School of Life Sciences “Good News” Letter. Volume 2, Number 5 July
- La Trobe University (2016) Mildura Staff Campus News June 2016. 3rd Edition

The Murray–Darling Freshwater Research Centre is a Joint Venture between CSIRO and La Trobe University



P: +61 2 6024 9650 | PO Box 821, Wodonga 3689 | 133 McKoy Street, Wodonga 3690
P: +61 3 50514050 | PO Box 4095, Mildura Vic 3502 | 471 Benetook Avenue, Mildura 3500
W: www.mdfrc.org.au

