

Chris Bice - Fish Ecology

SARDI AQUATIC SCIENCES

SARDI



SOUTH AUSTRALIAN
RESEARCH AND
DEVELOPMENT
INSTITUTE

Areas of expertise

Freshwater and estuarine fish ecology, fish passage and migration ecology, ecology of threatened fish.

Countries of work experience

Australia

Experience and qualifications

Chris has worked on the freshwater and estuarine fish of southeastern Australia for the past 6 years gathering significant knowledge on the biology and ecology of these species. In particular Chris has worked extensively in the Lower Lakes and Coorong region of South Australia.

Chris completed a Bachelor of Science with 1st Class Honours (Environmental Biology) in 2004, when he investigated the swimming ability of small-bodied native fish. Following this, Chris has spent the last 5 years at SARDI Aquatic Sciences as a member of the Inland Waters and Catchment Ecology Program (Fish Ecology Subprogram).

Whilst at SARDI Chris has worked on numerous projects throughout the South Australian Murray-Darling Basin including large-scale projects in the Chowilla Anabranch region and the Lower Lakes and Coorong. In the Lower Lakes and Coorong region, Chris has been involved in a number of projects investigating threatened species ecology, fish movement and recruitment, the response of fishes to changing flow regimes and management interventions and regularly provides advice to environmental managers on fishes of the region. Additionally Chris is a member of the tri-state (SA, Vic and NSW) research and monitoring team for the Murray-Darling Basin Authority's Lake Hume to Sea Fishway Program.

Chris has extensive practical experience in a range of fish sampling, tagging and tracking techniques including netting (e.g. fyke, gill and seine), electrofishing, acoustic tracking, radio telemetry and PIT tagging.

Professional appointments

2005 – present: Research officer, Fish Ecology Subprogram, Inland Waters and Catchment Ecology Program.

Selected recent publications

Bice, C. (2010). Literature review of the ecology of fishes of the Lower Murray, Lower Lakes and Coorong. Report to the South Australian Department

for Environment and Heritage. South Australian Research and Development Institute (Aquatic Sciences), Adelaide, 81pp. SARDI Publication Number F2010/000031-1.

Bice, C., Hammer, M., Wilson, P. and Zampatti B. (2009). Fish monitoring for the 'Drought Action Plan for South Australian Murray-Darling Basin threatened freshwater fish populations': Summary for 2008/09. South Australian Research and Development Institute (Aquatic Sciences), Adelaide, 110 pp. SARDI Publication Number F2009/000451-1.

Bice, C. and Ye, Q. (2009). Risk assessment of proposed management scenarios for Lake Alexandrina on the resident fish community. South Australian Research and Development Institute (Aquatic Sciences), Adelaide, 129 pp. SARDI Publication Number F2009/000375-1.

Research Projects

2005-present: Investigation of the impact of drought on fish assemblage structure, movement and recruitment in the Coorong and Lower Lakes

2008-present: Fish monitoring as part of the 'Drought Action Plan for South Australian Murray-Darling Basin threatened freshwater fish populations'

2009-present: Monitoring fish assemblages as part of the 'Goolwa Water Level Management Project'

2002-present: Lake Hume to sea fishway program

Contact

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