

From: Jenny Davis <jenny.davis@cdu.edu.au>
Sent: Friday, 20 March 2020 12:08 PM
To: Jill Woodworth <jwoodworth@slrconsulting.com>
Cc: Loren Yallop <lyallop@slrconsulting.com>
Subject: Re: Request for CV

Hi Jill,

This message is to confirm my independence as a university professor and researcher at Charles Darwin University, Casuarina, NT, with no affiliation with GHD, Vista Gold or the Mt Todd Gold Project.

I have attached my CV.

Best wishes,

Jenny

Professor Jenny Davis

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Charles Darwin University acknowledges the traditional custodians across the lands on which we live and work, and we pay our respects to Elders both past and present.

Curriculum Vitae

Professor Jennifer Ann Davis

CONTACT DETAILS

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NATIONALITY

Australian

CURRENT POSITION

Co-Director of the Research Institute for Environment & Livelihoods, Assistant Dean
Research and innovation, College of Engineering, IT and Environment, Charles Darwin
University

EDUCATION

1978–1981	PhD (Freshwater Ecology) UTAS
1975	Honours (Zoology) (First Class) UTAS
1972–1974	BSc (Botany and Zoology) UTAS
1970–1971	Higher School Certificate, Launceston Matriculation College, TAS
1966–1969	School Certificate, Dux, Riverside High School, Launceston, TAS

AWARDS AND SCHOLARSHIPS

2006	Limnology Medal, Australian Society for Limnology
2005	British Ecological Society's Photographic Competition: Ecosystems and Communities category - winner
2004	Vice-Chancellors Award for Excellence in Postgraduate Supervision, Murdoch University
1982	Queen's Fellowship in Marine Science
1980	Commonwealth Postgraduate Research Award
1978	University Postgraduate Research Award

- 1977 The Australian Entomological Society Student Research Award (Hons project)
- 1974 The Ralston Trust Prize (for Zoology III)
- 1971 Commonwealth University Scholarship, Tasmanian Education Department Studentship
- 1969 Commonwealth Secondary Scholarship
- 1965 George Record Memorial Scholarship, Launceston Bank for Savings Scholarship

CAREER OUTLINE

- 2019 - Co-Director, RIEL; Assistant Dean, Research & Innovation, CEITE
- 2018 Interim Dean, College of Engineering, IT and Environment, CDU
- 2016 -2017 Head, School of Environment, Charles Darwin University
- 2014 -2015 Professor and Chair of Water Science, Institute for Applied Ecology, University of Canberra
- 2009-2013 Professor and Chair of Freshwater Ecology, School of Biological Sciences, Monash University
- 2001-2008 Associate Professor, Murdoch University
- 2001–2002 Head of School, Environmental Science, Murdoch University
- 1998 Sabbatical: Environmental Research Institute of the Supervising Scientist, Jabiru, NT (Jan. – May, 1998), TASEAP- Thailand (June, 1998)
- 1996–1997 Head of School, Environmental Science
- 1996-1997 Senior Lecturer, Murdoch University
- 1994 Sabbatical: Conservation Commission, Alice Springs, Northern Territory (Jan – June, 1995)
Freshwater Biological Association, Windermere, UK (June, 1995)
- 1991–1995 Lecturer in Aquatic Ecology, School of Biological and Environmental Sciences, Murdoch University (granted tenure in 1993)
- 1990–1991 Temporary Lecturer, Centre for Water Research, University of Western Australia, based at Murdoch University
- 1987–1989 Senior Tutor, Murdoch University
- 1985–1986 Tutor, School of Environmental and Life Sciences, Murdoch University
- 1982–1984 Queen's Fellow in Marine Science, Environmental Dynamics, Department of Civil Engineering and Department of Zoology, University of Western Australia
- 1978–1981 Demonstrator (Casual) Zoology Department, UTAS
- 1976–1977 Teacher (Maths and Science) Tasmanian Education Department

SUMMARY OF RESEARCH AND PROFESSIONAL ACTIVITIES

My research activities span both fundamental and applied aspects of aquatic ecology

and environmental science. Much of my work involves answering the question: how much water does the environment need? I also work in the field of environmental change, with a focus on determining the importance of aquatic refugia for the conservation and persistence of arid zone biodiversity.

An over-arching theme of my research is to determine the critical processes that support the persistence of inland aquatic ecosystems. I have worked on the impacts of multiple stressors (hydrological change, nutrient enrichment, salinisation, urbanisation, sedimentation and climate change) on springs, wetlands and arid zone waterbodies. I have undertaken projects on freshwater biodiversity and ecosystem management in all Australian states and Malaysia (Sarawak). My sustained involvement in wetland research in Western Australia resulted in the compilation of a 25 year dataset recording the temporal and spatial change occurring in wetlands experiencing a drying climate.

I have an excellent track record in external funding. I have received over \$8.5 million for environmental projects from a diverse range of sources including international, national, state and local government agencies and industry. These include: the Department of Agriculture, Water and Environment (previously DOEE); the Australian Research Council (ARC); NCCARF; Land and Water Australia; CSIRO; the Government of Sarawak; WA Estuarine Research Foundation; Water and Rivers Commission; Water Corporation of Western Australia; WA Department of Environment; WA Department of Conservation and Land Management (now BCA); Alcoa Australia; Worsley Alumina; City of Cockburn; Town of Cambridge and Martinick McNulty.

I am actively engaged with a range of scientific societies and professional activities. In the international sphere my activities include membership of the International Organising Committee for INTECOL's International Wetland Conferences and Secretary General of the 10th INTECOL International Wetlands Conference held in Changshu China, in September, 2016. I am also immediate past Chair of the Society for Wetland Scientists (SWS) Oceania Chapter.

I was recently appointed to the Independent Expert Scientific Committee on Coal Seam Gas and Large Coal Mine Development (IESC). I am a member of the Australian Academy of Science National Committee for Ecology, Evolution and Conservation (NCEEC) and the Scientific Advisory Committee to TERN. I was previously a member of the Ecosystem Science Council (a national organisation supporting the implementation of the Ecosystem Science Long Term Plan); a member of the Scientific Advisory Panel (SAP) of EPA Victoria and a member of the Scientific Steering Committee for the Wetland Research Program, Department of Environment, Land, Water and Planning (DELWP), Victoria. I am the past Chair of the Research Sub-Committees of the Australian Biological Resources Study (ABRS) Research Advisory Committee and past Chair of Working Group 2 for the revision of the ANZECC Water Quality Guidelines. I was the independent scientist on the Steering Committee for the National Water Commission (NWC) Framework for Assessing River and Wetland Health (FARWH). I am actively involved in the Australian Society for Limnology as co-chair of the Lungfish Chapter and I have held the positions of both President and Newsletter Editor. I was

the non-government scientist on the WA Wetlands Coordinating Committee for ten years and completed two terms on the Conservation Commission (the advisory board to the Department of Conservation and Land Management in Western Australia).

Over my academic career, I have published (individually or collaboratively) over 200 works, including 7 books, 111 peer-reviewed journal papers, book chapters and conference proceedings, 90 technical reports and other articles and 4 CDs/apps. I have supervised 87 research students to completion, including: 17 PhDs, 8 Masters, 53 Honours and 9 Environmental Science Projects (Hons equivalent). I currently supervise 2 PhD students.

LIST OF PUBLICATIONS

Books

1. Boulton, AJ, Brock, MA, Robson, BJ, Chambers, JM, Ryder, DS & **Davis, JA** (2014) Australian Freshwater Ecology. Wiley-Blackwell. UK. 300pp.
2. **Davis JA**, Sunnucks P, Thompson R, Sim L, Pavlova A, Morán-Ordóñez A, Brim Box J, McBurnie, G, Pinder A, Choy S, McNeil D, Hughes J, Sheldon F & Timms B, (2013). Climate change adaptation guidelines for arid zone aquatic ecosystems and freshwater biodiversity, National Climate Change Adaptation Research Facility, Gold Coast, pp. 30. ISBN: 978-1-925039-83-2, NCCARF Publication 112/13.
3. **Davis JA**, Sunnucks P, Thompson R, Sim L, Pavlova A, Morán-Ordóñez A, Brim Box J, McBurnie, G, Pinder A, Choy S, McNeil D, Hughes J, Sheldon F & Timms B, (2013). Building the climate resilience of arid zone freshwater biota, National Climate Change Adaptation Research Facility, Gold Coast, pp. 30. ISBN: 978-1-925039-82-5. NCCARF Publication 111/13.
4. Gopal, B., Junk, WJ & **Davis JA** (Eds) (2001) Biodiversity in Wetlands: Assessment, Function and Conservation Volume II. Backhuys Publishers, The Netherlands. 300pp.
5. Gopal, B, Junk, WJ & **Davis JA** (Eds) (2000) Biodiversity in Wetlands: Assessment, Function and Conservation Volume I. Backhuys Publishers, The Netherlands. 354pp.
6. McComb, AJ & **Davis JA** (Eds) (1998) Wetlands for the Future - Contributions from INTECOL's V International Wetlands Conference. Gleneagles Press, Adelaide, 750 pp.
7. **Davis, JA** & Christidis, F (1997) A Guide to Wetland Invertebrates of Southwestern Australia. Western Australian Museum, Perth, 177 pp.

Peer-Reviewed Journal Papers and Book Chapters

1. Kaestli M, Munksgaard N, Gibb K, **Davis J** (2019) Microbial diversity and distribution differ between water column and biofilm assemblages in arid-land waterbodies. *Freshwater Science* 38 (4), 869-882.
2. Majer JD, Harvey MS, Humphreys WF, **Davis JA** & Yen AL (2018) Terrestrial and Inland-water Invertebrates of the Australian Arid Zone pp 181-214 in Lambers, H (ed.) *On the Ecology of Australia's Arid Zone*, Springer International Publishing.
3. **Davis, JA** (2018) From dragonflies to Facebook: digital disruption creates new opportunities for wetland science and conservation. *Pacific Conservation Biology* 24, 261-266
4. **Davis JA**, Sim, L, Sunnucks, P, Thompson, RM, Pinder, A, Brim-Box, J, Murphy, NP, Sheldon, F, Morán-Ordóñez, A & Sunnucks, P (2018) Patterns and drivers of aquatic invertebrate diversity across an arid biome *Ecography* 41, 375–387.
5. Kidd, IM, **Davis, JA** & Fischer, A (2017) Total exclusion barrages as sea-level rise mitigators: the geomorphological trade-offs for new installations. *Ocean & Coastal Management* 143,122-135.
6. Kidd, IM, **Davis, JA**, Seward M & Fischer, A (2017) Bathymetric rejuvenation strategies for morphologically degraded estuaries. *Ocean and Coastal Management* 142, 98-110.
7. Razeng, E, Smith, A, Harisson, K, Pavlova, S, Nguyen, T, Pinder, A, Suter, P, Webb, J, Gardner, M, Brim Box, J, Thompson, R, **Davis, J**, Sunnucks, P (2017). Evolutionary divergence in freshwater insects with contrasting dispersal capacity across a sea of desert. *Freshwater Biology* 62, 1443–1459.
8. **Davis, JA**, Kerezy, A & Nicol, S (2017) Conserving perennial water is critical in arid landscapes. *Biological Conservation* 211,30–35.
9. Mackintosh, TJ, **Davis, JA** & Thompson, RM (2016) The effects of urbanization on trophic relationships in constructed wetlands. *Freshwater Science* DOI: 10.1086/690674.
10. Kidd, IM, **Davis, JA** & Fischer, A (2016) A First-Order Morphological Response Model (FORM) for predicting hydrologically induced bathymetric change in coastal-plain estuaries. *Journal of Coastal Research* 33(2): 468-480.
11. Kefford, B, Buchwalter,D, Cañedo-Argüelles, M, **Davis, J**, Duncan, R, Hoffmann, A & Thompson, R. (2016) Rivers of salt: novel habitats for freshwater animals. *Biology Letters* 166, 185–198 DOI: 10.1098/rsbl.2015.1072.
12. Mackintosh, TJ, **Davis, JA** & Thompson, RM (2016) Tracing metals through urban food webs *Ecological Engineering* 94, 200-213.
13. Mackintosh, TJ, **Davis, JA** & Thompson, RM (2016) Impacts of multiple stressors on ecosystem function: leaf decomposition in constructed urban wetland *Environmental Pollution* 208, 221-232.
14. Klamt, M, **Davis, JA**, Thompson, RM, Marchant, R & Grant, TR (2016) Trophic relationships of the platypus: insights from stable isotope and cheek pouch dietary analyses. *Marine & Freshwater Research* 67, 1196–1204.
15. Razeng, E, Morán-Ordóñez, A, Brim Box, J, Thompson, RM, **Davis, JA** & Sunnucks, P (2016) A potential role for overland dispersal in shaping aquatic invertebrate communities in arid regions. *Freshwater Biology* 61, 745–757.

16. Murphy, A, Pavlova, A, Thompson R, **Davis, J** & Sunnucks, P, (2015) Swimming through sand: connectivity of aquatic fauna in deserts. *Ecology and Evolution* 5, 5252–5264.
17. Mackintosh, TJ, **Davis, JA** & Thompson, RM (2015) The influence of urbanisation on invertebrate biodiversity in stormwater wetlands. *Science of the Total Environment* 536, 527-537.
18. Furlonge, T, Dyer, F & **Davis, JA** (2015) The influence of differing protected area status and environmental factors on the macroinvertebrate fauna of temperate austral wetlands *Global Ecology and Conservation* 4, 277-290.
19. Kidd, IM, Fischer, A, Chai, S & **Davis, JA** (2015) Scenario-based approach to evaluating potential environmental outcomes following tidal barrage installation. *Ocean & Coastal Management* 115, 9-19.
20. Klamt, M, Davis, JA Thompson, RM Marchant, R & Grant, TR (2015) Trophic relationships of the platypus: insights from stable isotope and cheek pouch dietary analyses. *Marine & Freshwater Research* 67, 1196–1204. dx.doi.org/10.1071/MF15004.
21. Moran-Ordóñez, A., A. Pavlova, A. M. Pinder, L. Sim, P. Sunnucks, R. M. Thompson & **Davis, JA** (2015) Aquatic communities in arid landscapes: local conditions, dispersal traits and landscape configuration determine local biodiversity. *Diversity and Distributions* 21, 1230-1241.
22. **Davis, JA**, O’Grady, AP, Dale, A, Arthington, AH, Gell, P, Driver, P, Bond, N, Casanova, M, Finlayson, M, Watts, R, Capon, JR, Nagelkerken, I, Tingley, R, Fry B, Page, TJ, Specht, A. (2015) When trends intersect: the challenge of protecting freshwater ecosystems under multiple land use and hydrological intensification scenarios. *Science of the Total Environment* 534, 65-78.
23. Capon SJ, Lynch JL, Bond N, Chessman B, **Davis J**, Davison N, Finlayson M, Gell P, Hohnberg D, Humphrey, C, Kingsford, R, MacNally R, Nielsen, D, Thomson, J, Ward, K. (2015) How much evidence is there for regime shifts and alternative stable states in freshwater ecosystems? *Science of the Total Environment* 534, 122-130.
24. McBurnie, G, **Davis, JA**, Thompson, RM, Nano, C. & Brim-Box, J (2015) Experimental evidence for impacts of an invasive herbivore (*Camelus dromedaries*) on arid zone freshwater pools. *Journal of Arid Environments* 113, 69-76.
25. Anderson, EM & **Davis, JA** (2014) Field evaluation of the response of *Aedes albopictus* to three oviposition attractants and different ovitrap placements using black and clear autocidal ovitraps in a rural area of Same, Timor-Leste. *Medical and Veterinary Entomology*. 28, 372–383.
26. Brim-Box J., **Davis J**, Strehlow K, McBurnie G., Duguid A, Brock C, McConnell K, Day C, and Palmer, C. (2014). Persistence of central Australian aquatic invertebrate communities. *Marine and Freshwater Research* 65, 562–572.
27. Anderson, EM & **Davis, JA** (2014) First records of *Armigeres malayi* Theobald and *Armigeres milnensis* Lee (Diptera: Culicidae) in Timor-Leste. *Journal of the American Mosquito Control Association* 30, 51–53.
28. Sim, LL, **Davis, JA**, Strehlow, K, McGuire, M, Trayler, KM, Wild, S, Papas P J & O’Connor, J (2013) The influence of changing hydroregime on the invertebrate communities of temporary seasonal wetlands. *Freshwater Science*, 32:327-342.
29. **Davis, JA**, Pavlova, A, Thompson, R & Sunnucks, P (2013) Evolutionary refugia and ecological refuges: key concepts for conserving Australian arid zone freshwater biodiversity under climate change. *Global Change Biology* 19,1970–1984.

30. Pakdel, FM, Sim, LL, Beardall, J & **Davis, JA** (2013) Allelopathic inhibition of microalgae by the freshwater stonewort, *Chara australis*, and a submerged angiosperm, *Potamogeton crispus*. *Aquatic Botany* 110: 24-30.
31. **Davis, JA** and Kidd, IM (2012) Identifying major stressors: the essential precursor to restoring cultural ecosystem services in a degraded estuary. *Estuaries and Coasts* 35:1007–1017.
32. **Davis, JA** & Carling, PA, (2012) Playa Lake Chains: The example of the Yenyening Lakes of the Upper Avon River catchment of Western Australia. L. Bengtsson, R.W. Herschy, R.W. Fairbridge (eds.), *Encyclopedia of Lakes and Reservoirs*, DOI 10.1007/978-1-4020-4410-6.
33. Finlayson, CM, **Davis JA**, Gell PM, Kingsford, Parton, KA (2012) The status of wetlands and the predicted effects of global climate change: the situation in Australia *Aquatic Sciences* 75:73–93.
34. Turak, E, Marchant, R, Barmuta, L, **Davis, JA**, Choy, S & Metzeling, L (2011) River conservation in a changing world: invertebrate diversity and spatial prioritisation in south-eastern coastal Australia. *Marine and Freshwater Research* 62: 300-311
35. Klamt, M, Thompson, R & **Davis, JA** (2011) Early response of the platypus to climate warming. *Global Change Biology* 17: 3011–3018.
36. **Davis, JA**, Sim, LL & Chambers, JM (2010). Multiple stressors and regime shifts in shallow aquatic ecosystems in antipodean landscapes. *Freshwater Biology* 55:5-18
37. **Davis, J**, Lake, P & Thompson, R (2010) Freshwater biodiversity and climate change. In: *Greenhouse 09: Living with Climate Change*. (Eds I Jubb, P Holper and W Cai) pp. 73–83. CSIRO Publishing, Melbourne
38. Sim, LL, **Davis, JA** & Chambers, JM (2009). Development of conceptual models for ecological regime change in temporary Australian wetlands. pp 259-279 in *New models for ecosystem dynamics and restoration*. Hobbs, R.J. & Suding, K. (eds). Island Press. Washington.
39. Stewart, B, Strehlow, K & **Davis, JA** (2009) Impacts of deep open drains on water quality and biodiversity of receiving waterways in the wheatbelt of Western Australia. *Hydrobiologia* 619:103-118.
40. Likens, GE, Walker, K.F., Davies, PE, Brookes, J, Olley, J, Young, WJ, Thoms, MC, Lake, PS, Gawne, Davis, JA, Arthington, A.H., Thompson, R. and Oliver, R.L. (2009) Ecosystem science: toward a new paradigm for managing Australia's inland aquatic ecosystems. *Marine and Freshwater Research* 60: 271-279.
41. Giles, JC, **Davis, JA**, McCauley, RD, Kuchling, G (2009) Voice of the turtle: The underwater acoustic repertoire of the long-necked freshwater turtle, *Chelodina oblonga*. *J. Acoust. Soc. Am.* 126: 434-443.
42. Horwitz, P, Rogan, R, Halse, SA, **Davis, JA** & Sommer, B (2009). Wetland invertebrate richness and endemism on the Swan Coastal Plain, Western Australia. *Marine and Freshwater Research*, 60:1006-1020.
43. Chambers, JM, **Davis, JA** & McComb, A (2009) Chapter 20. Inland aquatic environments I – wetland diversity and physical and chemical processes pp 452-480 in *Environmental Biology* Edited by Calver, M., Lymbery, A., McComb, J. & Bamford, M. Cambridge University Press, Port Melbourne Australia. 671 pp.

44. Chambers, JM, **Davis, JA** & McComb, A (2009) Chapter 21. Inland aquatic environments II – the ecology of lentic and lotic waters. pp 481-500 in Environmental Biology Edited by Calver, M., Lymbery, A., McComb, J. & Bamford, M. Cambridge University Press, Port Melbourne Australia. 671 pp.
45. Ligtermoet, E, Chambers, JM, Kobryn, HT & **Davis, JA** (2009) Determining the extent and condition of riparian zones in drinking water supply catchments in Sarawak, Malaysia. *Water Science & Technology: Water Supply—WSTWS* 9 (5): 517–531 doi:10.2166/ws.2009.580
46. **Davis, JA** & Brock, M (2008) Detecting unacceptable change in the ecological character of Ramsar wetlands. *Ecological Management and Restoration* 9:26-32.
47. Bonada, N., Rievadevall, M., Dallas, H., **Davis, J.**, Day, J., Figueroa, Resh, V. & Prat, N. (2008). Multiscale assessment of macroinvertebrate richness and composition in Mediterranean-climate rivers. *Freshwater Biology* 53:772-788
48. Box, J. B., Duguid, A., Read, R.E., Kimber R.G., Knapton, A., **Davis J.A.**, & Bowland, A.E. (2008) Central Australian waterbodies: the importance of permanence in a desert landscape. *Journal of Arid Environments* 72: 1395-1413.
49. Giles, J.C. Kuchling, G. & **Davis, J.A.** (2008) Populations of the Snake-necked Turtle *Chelodina oblonga* in three suburban lakes of Perth, Western Australia. *Herpetological Conservation* 3:275-284.
50. Sim, L.L, **Davis, J.A.**, Chambers, J.M. and Strehlow, K. (2007) *Understanding thresholds in the transition from saline to hypersaline aquatic ecosystems: south-west Western Australia*. pp. 29-40 in Lovett, S., Price, P. and Edgar, B. (eds) Salt, nutrient, sediments and interactions: findings from the National River Contaminants Program, Land & Water Australia.
51. McComb, A.J., Qui, S., Bell, R.W. & **Davis, J.A.** (2007) Catchment litter: a phosphorus source mobilized during seasonal rainfall *Nutrient Cycling in Agroecosystems* 77:179-186.
52. Sim, L.L., **Davis, JA** & JM Chambers, (2006). When is it too salty for saline wetlands: conceptual models for ecological regime shift in saline wetlands. *Verh. int. Ver. Limnol* 29: 1679-168.
53. Sim, L.L., **Davis, JA**, Chambers, J.M. & Strehlow, K. (2006). What evidence exists for alternative ecological regimes in salinising wetlands? *Freshwater Biology* 51:1229-1248.
54. **Davis JA**, Horwitz,P., Norris, R., Chessman, B, McGuire, M., & Sommer B., (2006) Are river bioassessment methods using macroinvertebrates applicable to wetlands ? *Hydrobiologia* 572:115-128.
55. Sim, L.L., Chambers, J.M. & **Davis, JA** (2006). Ecological regime shifts in salinised wetland systems. I. Salinity thresholds for the loss of submerged macrophytes. *Hydrobiologia* 573: 89-107.
56. Sim, L.L., **Davis, JA** & Chambers, J.M (2006). Ecological regime shifts in salinised wetland systems. II. Factors affecting the dominance of benthic microbial communities. *Hydrobiologia* 573:109-131.
57. Strehlow, K., **Davis, JA**, Sim, L, Chambers, J., Halse, S., Hamilton, D., Horwitz, P., McComb, A. and Froend, R., (2005). Temporal changes between ecological regimes in a range of primary and secondary salinised wetlands. *Hydrobiologia* 552: 20-34.

58. Qiu, S., McComb, A., Bell, R. & **Davis, JA**, (2005). Leaf-litter application to a sandy soil modifies phosphorus leaching over the wet season of southwestern Australia *Hydrobiologia* 545:33–43.
59. Qiu, S., McComb, A., Bell, R. & **Davis, JA**, (2005). Estimating production of gilvin from catchment leaf litter during seasonal rains. *Marine and Freshwater Research* 56:843-849.
60. Qiu, S., McComb, A., Bell, R. & **Davis, JA** (2005). Response of microbial activity to temperature, moisture and litter leaching on a wetland catchment during seasonal refilling. *Wetland Ecology and Management* 13: 43-54.
61. Qui, S., McComb, A.J. Bell, R.W. & **Davis, JA** (2004.) Partitioning processes controlling water column phosphorus concentrations in a shallow wetland. *Freshwater Biology* 49:563-575.
62. Qiu, S., McComb, A.J., Bell, R.W. and **Davis, JA** (2004). Phosphorus dynamics from vegetated catchment to lakebed during seasonal refilling. *Wetlands* 24: 828-836.
63. Strehlow, K.H., Bradley, J.S., **Davis, JA** and Friend, G.R. (2004). Seasonal invertebrate communities in multiple use jarrah forests. Implications for conservation and management. In (ed.) Lunney, D., Conservation of Australia's Forest Fauna (2nd edn). Mosman, NSW, Royal Zoological Society of New South Wales, pp.830-844.
64. Qui, S., McComb, A.J. Bell, R.W. & **Davis, JA** (2003). Nutrient response to soil and litter metabolic activity in a transect across a seasonal wetland (2003). *Marine and Freshwater Research* 54:243-252.
65. **Davis, JA**, McGuire, M, S.A. Halse, Hamilton, D, Horwitz, P, McComb, A.J. Froend R, Lyons, M, Sim, L. (2003). What happens when you add salt: predicting impacts of secondary salinisation on shallow aquatic ecosystems using an alternative states model. *Australian Journal of Botany*. 51: 715-724.
66. Strehlow, K., Bradley J.S. **Davis, JA** & G.R. Friend (2002). Short term impacts of logging on invertebrate communities in Jarrah forests in south-west Western Australia. *Journal of Forest Ecology and Management*, 162: 165-184.
67. Chessman, BC, Trayler, K.M. & **JA Davis** (2002). Family and species-level biotic indices for invertebrates in the wetlands of the Swan Coastal Plain, Western Australia. *Marine and Freshwater Research*, 53: 919-930.
68. **Davis, JA**, McGuire, M., Robson, B & M. Lund (2002). Predicting wetland response to nutrient enrichment: modelling temperature, algal blooms and nuisance midge swarms *Verh. Internat. Verein. Limnol.* 28: 635-640.
69. Sutcliffe, K.E, Taplin, R.H. **Davis, JA** & S.A. Halse. (2002). Factors affecting the distribution of stoneflies (Plecoptera) in southwestern Australia *Verh. Internat. Verein. Limnol.* 28: 1- 4.
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71. Penniford, M. and **Davis, JA** (2001). Macrofauna and nutrient cycling in the Swan River estuary, Western Australia: experimental results. *Hydrological Processes*, 15:2537-2553.

72. **Davis, JA**, Halse, S. A. and Froend, R. H. (2001). Factors influencing biodiversity of coastal plain wetlands of southwestern Australia pp.89-100 in: Gopal, B., Junk, W. J. and Davis J. A. (2001) *Biodiversity in Wetlands: Assessment, Function and Conservation Volume II*. Backhuys Publishers, The Netherlands.
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74. Lund M.A., and **Davis, JA** (2000). Seasonal dynamics of plankton communities and water chemistry in a eutrophic wetland (Lake Monger, Western Australia): Implications for biomanipulation. *Marine and Freshwater Research*, 51:321-332
75. Smith, M.J., Kay, W.R., Edward, D.H.E., Papas, P.J., Richardson, K. St.J., Simpson, J.C., Pinder, A.M., Cale, D.J., Horwitz, P.H.J., **Davis, JA**, Yung, F.H., Norris, R.H., and Halse, S.A. (1999). AUSRIVAS: Using macroinvertebrates to assess ecological condition of rivers in Western Australia. *Freshwater Biology*, 41: 269-282.
76. Kay, W.R., Smith, M.J., Pinder, A.M., McRae, J.M., **Davis, JA** and Halse, S.A. (1999). Patterns of distribution of macroinvertebrate families in rivers of north-western Australia. *Freshwater Biology*, 41: 299-316.
77. **Davis, J.A.** and Froend, R. (1999). Loss and degradation of wetlands in southwestern Australia: underlying causes, consequences and solutions. *Wetlands Ecology and Management*, 7: 13-23.
78. Robson, B.J., Chester, E.T. and **Davis, J.A.** (1999). Manipulating the intensity of near-bed turbulence in rivers: effects on benthic invertebrates. *Freshwater Biology*, 42: 645-654.
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