

CURRICULUM VITAE

Full name: Benjamin Keith Diggles
Position: Managing Director, DigsFish Services Pty Ltd.
Address: Brisbane, QLD, AUSTRALIA, ben@digsfish.com
Academic qualifications: PhD. B.Sci (Hons. 1st class)

Patents: 4

Professional positions held:

Dec. 2003 - present

Managing Director, DigsFish Services Pty Ltd. <http://www.digsfish.com/>

Job description: Provision of an independent aquatic animal health consulting service for the fisheries and aquaculture industries in New Zealand, Australia, Asia and the South Pacific. Core business includes import risk analysis, biosecurity risk analysis, environmental risk assessments and environmental management systems, aquatic animal welfare, disease diagnosis in a wide range of aquatic animals, development of feeding attractants for aquaculture, and development of medicated feeds for aquacultured finfish.

Sept. 1997 – Nov. 2003

Marine pathologist/parasitologist, Fish Health Unit, National Institute of Water and Atmospheric Research, Wellington, New Zealand. <http://www.niwa.co.nz/>

Job description: Provision of a pathology and disease diagnostic service for the New Zealand aquaculture industry, including commercial consulting work as well as government and industry funded research. Clients included private citizens, aquaculture and fishing companies, Regional Councils and the Governments of New Zealand, South Australia, and the Cook Islands. A significant proportion of my time was spent designing experiments, research programmes, and disease surveys, as well as providing disease related advice for FRDC and FRST funded research projects. In this job I was required to perform all aspects of basic and applied science related to the prevention, diagnosis, epidemiology and control of diseases of aquatic organisms including fish (marine and freshwater species), lobsters, *Macrobrachium*, rock oysters, flat oysters, pearl oysters, mussels, abalone, scallops and sea urchins.

Sept. 1996 - Sept. 1997

Manager, Recreational Fisheries, Primary Industries South Australia, Fisheries Department, Adelaide, South Australia. <http://www.pir.sa.gov.au/fisheries>

Job description: I was responsible for the preparation and formulation of fisheries resource management policies and options for ecologically sustainable development of recreational fishing opportunities in South Australia. I was required to attend national recreational fisheries management meetings and coordinate my work with other State fisheries managers. I also produced discussion papers on the management, development and funding of recreational fishing in South Australia; established a consultative process between government and the recreational fishing sector; managed a recreational

fishing fund; and reported to the Director of Fisheries and the Minister for Primary Industries on issues related to recreational fishing legislation.

Jan. 1993-Sept. 1996

Ph.D candidate, Department of Parasitology, The University of Queensland. <http://www.uq.edu.au/> Studies of the biology, ecology, taxonomy and control of *Cryptocaryon irritans* (Ciliata), the cause of whitespot disease in cultured marine fishes.

Job description: I was responsible for production of a PhD dissertation on the biology and control of *C. irritans*, an important pathogen of marine fish. The project required extensive fieldwork utilising linefishing, anaesthetics, cast nets, drag nets, and inshore trawlers for collecting various species of fish and shellfish from sites in impoundments, enclosed ponds, estuarine, coastal bar and coral reef environments in Queensland. Laboratory skills required included molecular biology (sequencing, PCR), electron microscopy (SEM, TEM), microscopy, and parasitological dissection. Awarded Doctor of Philosophy 25/2/97.

Jan. 1992-Dec. 1992

B. Sci. Honours candidate, Department of Parasitology, The University of Queensland. <http://www.uq.edu.au/> Studies of the development and chemotherapy of *Polylabroides multispinosus* (Monogenea), a gill parasite of cultured Yellowfin Bream, *Acanthopagrus australis*.

Job description: I was responsible for production of an Honours dissertation on the development and chemotherapy of *P. multispinosus*, a monogenean parasite of bream. The project required fieldwork and collaboration with the Port of Brisbane Authority and Seaworld on the Gold Coast, where sea cage experiments were carried out. Laboratory skills required included microscopy and parasitological dissection. First class honours awarded 18/12/92.

B. Sci. (1991).

University of Queensland, Brisbane, Queensland, Australia. <http://www.uq.edu.au/> Majors in Zoology, Environmental Science, Marine Biology, Aquaculture and Parasitology. Final year grade point average 6.1 (out of 7). Awarded Bachelor of Science 17/12/91.

Keynote presentations

June 2008. Pathogen risk analysis: experiences from 9 case studies – applications and limitations

Conference: Diseases in Asian Aquaculture 7 **Venue:** Taipei.

In 2008 I presented a keynote address on risk analysis in relation to national and international movements of aquatic animals and their related products. The presentation drew upon experience obtained from several biosecurity risk analyses conducted by Dr Ben Diggles and DigsFish Services Pty Ltd over the previous 8 years.

Further Education

May-June 2014. AQUAVET II, Roger Williams University, Bristol Rhode Island. This intensive 2 week course covered many aspects of the comparative pathology of aquatic animals and was specifically designed to teach aquatic animal medicine to veterinarians. It was sponsored by The University of Pennsylvania, School of Veterinary medicine, and the College of Veterinary Medicine at Cornell University.

November-December 2002. Asia-Pacific Regional Program on Molluscan Health Management Phase II. University of Queensland. Training workshop on diseases of molluscs in the Asia-Pacific region. Lecturers included Dr Mike Hine, Dr Judith Handlinger, Dr Brian Jones, Dr Bob Lester, Dr Sarah Kleeman and Dr Franck Berthe.

July - August 2000. Shrimp Pathology Short Course, The University of Arizona. An intensive 2 week shrimp aquaculture pathology short course run by Prof. Donald Lightner. The course outlined the history of disease in shrimp farming, the diseases, and contained practical diagnostic sessions covering histology, bacteriology, antibody assays (Fluorescent antibody tests, ELISA, Immunoblot, immunohistochemistry) and molecular diagnostic techniques (PCR, RT-PCR, ISH).
www.digsfish.com/UAZShrimpPathology.jpg

June 2000. Mollusc Histopathology Workshop, University of Tasmania. A 1 day intensive workshop focusing on histopathology of molluscan organs and tissues. Lecturer Dr Judith Handlinger.

June 2000. Crustacean Histopathology Workshop, University of Tasmania. A 1 day intensive workshop focusing on histopathology of crustacean organs and tissues. Lecturers included Dr Danielle Johnston and Dr Barbara Nowak.

May 2000. Fish Histopathology Workshop, University of Tasmania. A 2 day intensive workshop focusing on histopathology of fish organs and tissues. Lecturers included Dr Judith Handlinger, Dr Barry Munday, Dr Barbara Nowak, Dr Tish Pankhurst and Dr Mark Powell.

Other relevant qualifications and skills

- QLD Driver's licence, advanced and defensive driving training and over 30 years motorsport experience
- Restricted coxwains certificate and QLD speedboat drivers license with over 35 years on-water experience including 30 years research experience from smooth waters to high seas (including 45-50°S, Southern Ocean trawl surveys)
- Australian Maritime College Marine Radio Operators Certificate of Proficiency (MROCP)
- First aid -oxygen administration certificate
- Recreational diver
- Computer skills include Microsoft Word, Excel, Photoshop, Power Point, Internet, GIS

Scientific Referee

Dr Diggles conducts regular scientific peer reviews for a number of scientific journals, including *Diseases of Aquatic Organisms*, *Journal of Aquatic Animal Health*, and *Aquaculture*, as well as occasional reviews for several other journals and scientific publications.

Science Extension

Dr Diggles has developed several world's first science extension tools related to aquatic animal health and welfare, including:

NEATFish - the world's first paper-based and electronic resources for a national standard for the environmental assessment of recreational fishing tournaments

<http://www.neatfish.com/>

Ikijime.com, the world's first worlds first information portal for humane dispatch of finfish at <http://www.ikijime.com/> and instructional videos at <https://www.youtube.com/user/ikijime/videos>

Aquatic Disease Field Guide. Aquatic animal diseases significant to Australia: Identification Field Guide 5th Edition (including phone applications)

[https://www.agriculture.gov.au/animal/aquatic/guidelines-and-resources/aquatic animal diseases significant to australia identification field guide](https://www.agriculture.gov.au/animal/aquatic/guidelines-and-resources/aquatic%20animal%20diseases%20significant%20to%20australia%20identification%20field%20guide)

Dr Diggles has also written monthly educational science extension columns for the Australian Anglers Fishing World Magazine <https://www.fishingworld.com.au/> for over 28 years (since 1995) and contributed to a fish identification column (Fish Facts) in the USA Sport Fishing Magazine <https://www.sportfishingmag.com/> for 17 years (March 2003- March 2020).

Books, chapters in books, management papers, workshops, IRAs:

Diggles BK (2022). Biosecurity upgrades following detection of WSSV in a prawn hatchery at Yamba, northern NSW. DigsFish Services Report DF22-06 for Fisheries Research and Development Corporation Project 2022-072, October 2022. http://digsfish.com/DigsFishreport_WSSV_Yamba_FINAL.pdf

Diggles BK (2022). Fish disease surveillance for Snowy 2.0 Biosecurity Risk Management Plan – Baseline Distribution of EHNW and *Lernaea cyprinacea*. DigsFish Services Report: DF 22-01, 6 April 2022, 24 pgs.

Diggles BK (2021). Pathogen risk analysis for aquaculture biosecurity and translocation of tropical rock lobsters (*Panulirus ornatus*) in northern Australia. DigsFish Services Report: DF 21-03c, 29 November 2021, 121 pgs.

Diggles BK (2021). Pathogen risk analysis for Sydney rock oyster translocations between Queensland or New South Wales and Western Australia. DigsFish Services Report: DF 21-01c, 1 September 2021, 113 pgs.

Diggles BK (2021). Providing staged advice for the Snowy 2.0 Biosecurity Risk Management Plan: Stage 1 Hazard Identification. DigsFish Services Report: DF 21-02a, 10 May 2021, 34 pgs.

Diggles BK (2020). Survey for WSSV vectors in the Moreton Bay White Spot Biosecurity Area. DigsFish Services Report DF20-04 for Fisheries Research and Development Corporation, 15 December 2020, 54 pgs. <http://digsfish.com/DigsFishreportWSSVvectors.pdf>

Diggles BK (2020). Risk Analysis - Biosecurity risks related to recycling of mollusc shell waste for shellfish reef restoration. DigsFish Services Report: DF 20-03b, 6 November 2020, 270 pgs. <http://digsfish.com/ShellrecyclingRAFINAL.pdf>

Diggles (2020). FRDC Project 019-005. Risk analysis to identify and minimise biosecurity risks arising from recycling bivalve mollusc shell waste during shellfish reef restoration projects in Australia – DRAFT: Hazard Identification. DigsFish Services Report: DF 20-03a, 1 May 2020. 48 pgs.

Diggles BK (2020). CRC NA – Pathogen Risk Analysis for tropical rock oysters. DigsFish Services Report: DF 20-02, 30 April 2020. 147 pgs.

Diggles BK (2020). Biosecurity considerations for offshore aquaculture in New Zealand. DigsFish Services Report: DF 20-01, 31 January 2020. 26 pgs.

- DAWR (2020). Disease Strategy: White Spot Disease (Version 3.0). In: Australian Aquatic Veterinary Emergency Plan (AQUAVETPLAN). 73 pgs. A revision conducted by DigsFish Services for the Australian Government Department of Agriculture, Canberra, ACT.
- DAWR (2019). Aquatic Disease Field Guide. Aquatic animal diseases significant to Australia: Identification Field Guide 5th Edition, September 2019. Report <https://www.agriculture.gov.au/animal/aquatic/guidelines-and-resources/aquatic-animal-diseases-significant-to-australia-identification-field-guide> Mobile Application Version 1.3 in [iOS](#) or [Android](#). Phone application developed by DigsFish Services and Huxbury Quinn for the Australian Government Department of Agriculture, Canberra, ACT.
- Diggles BK (2019). Assessment of environmental effects – Disease Risk Assessment report for proposed salmon farms at Stewart Island, New Zealand. DigsFish Services Report: DF 19-02, 13 May 2019. 114 pgs.
- Sim-Smith C, Diggles BK (2019). Review of International Aquatic Health Inspection and Surveillance Programmes. MPI Technical Paper No: 2019/05. Prepared for Ministry for Primary Industries, New Zealand. 153 pgs. <http://digsfish.com/Sim-SmithandDiggles2019finalreport.pdf>
- Diggles BK (2019). Response to comments on the Environmental Assessment Report – Import of specific pathogen free *Penaeus monodon* into Australia. Report prepared for ProAqua Pty Ltd, 29 March 2019. 26 pgs.
- Diggles BK (2019). Disease Risk Assessment Report – Open ocean salmon farms near Marlborough Sounds, New Zealand. DigsFish Services Report: DF 19-01, 20 February 2019. 96 pgs.
- Diggles BK (2018). Yumbah Nyamat abalone farm assessment of biosecurity and disease risks for the wild fishery. DigsFish Services Report: DF 18-05, 28 December 2018. 45 pgs.
- Diggles BK (2018). Distances to consider for farm management area planning in the Marlborough Sounds. DigsFish Services Report: DF 18-03, 4 August 2018. 17 pgs.
- Diggles BK (2018). Environmental Assessment Report – Import of specific pathogen free *Penaeus monodon* into Australia. DigsFish Services Report: DF 18-02, 29 June 2018. 27 pgs.
- Diggles BK (2018). Independent Technical Assessment: Pathogen Risk Analyses for the introduction of whiteleg shrimp (*Penaeus vannamei*) and black tiger prawns (*Penaeus monodon*) to the Sultanate of Oman. DigsFish Services Client Report DF18-01. March 2018. 8 pgs.
- DAWR (2017). Aquatic Disease Field Guide. Aquatic animal diseases significant to Australia: Identification Field Guide 4th Edition Mobile App. Version 1.0 March 2017 in [iOS](#) or [Android](#).
- Diggles BK (2017). Pathogen risk analysis for Sydney rock oyster translocations between New South Wales and Western Australia. DigsFish Services Report DF17-06a. 97 pgs.
- Diggles BK (2017). Northern Australia Biosecurity Initiative - Marine Pest and Disease Risk Assessment. DigsFish Services Report DF17-02. 194 pgs.
- Gilles C, Creighton C, McLeod I (eds). (2015). Shellfish reef habitats: a synopsis to underpin the repair and conservation of Australia's environmental, social and economically important bays and estuaries. A report for the national Environmental Science Programme: Marine Biodiversity Hub,

- Tropwater report No. 15/60. <https://research.jcu.edu.au/tropwater/research-programs/coastal-estuarine-ecology/shellfish-reef-protection-and-repair/ShellfishreefhabitatsFinalVersion.pdf>
- Diggles BK (2015). Protection and repair of Australia's shellfish reefs – Southern Queensland Report. DigsFish Services Client Report DF15-01. September 2015. 27 pgs. <http://restorepumicestonepassage.org/wp-content/uploads/2014/04/NESP-Project-Southern-Queensland-Report-DigsFish.pdf>
- Diggles BK, Barnes L (2015). Surveillance of fish and shellfish health in Darwin Harbour, Northern Territory. Presented at the third FRDC Australasian Aquatic Animal Health Scientific Conference, Cairns, 6-10 July, 2015. <http://digsfish.com/DigglesBarnes2015ProcCairnsConference.pdf>
- Department of Agriculture (2015). Disease Strategy: Crayfish Plague (Version 2.0). In: *Australian Aquatic Veterinary Emergency Plan (AQUAVETPLAN)*. 60 pgs. A revision conducted by DigsFish Services for the Australian Government Department of Agriculture, Canberra, ACT.
- Diggles BK (2014). Infection of wild queenfish with sealice (*Lepeophtheirus spinifer* and *Caligus* spp.) in Australia, with observations of skin rashes in fish from Gladstone Harbour, Queensland. Prepared for the second FRDC Australasian Aquatic Animal Health Scientific Conference, Cairns, 8-12 July, 2013, and presented to Project Neptune Webinar Series 31 March 2014. <http://digsfish.com/ProjectNeptuneWebinar31Mar2014.pdf>
- Diggles BK, Macbeth WG, Barnes L, Dyrting K (2013). Detection of a new rickettsia-like organism in wild caught sand crabs (*Portunus pelagicus*) from Darwin and Bynoe Harbours. Second FRDC Australasian Aquatic Animal Health Scientific Conference 8-12 July, 2013, Cairns Australia.
- Diggles BK (2013). Updated risk assessment for translocation of Pacific oyster (*Crassostrea gigas*) seed from Shellfish Culture Ltd (Tasmania) into NSW. DigsFish Services Client Report DF13-02. March 2013. 52 pgs.
- Diggles BK (2012). Independent Technical Assessment: Import Risk Assessment for the introduction of whiteleg shrimp (*Penaeus vannamei*) to the Kingdom of Saudi Arabia. DigsFish Services Client Report DF12-03. December 2012. 10 pgs.
- Diggles BK, Landos M (2012). Biosecurity Workshop. Diseases of Crustaceans in Brunei Darussalam. Training course prepared for the Government of Brunei Darussalam. May 2012.
- Diggles BK (2012). Literature Review: Best practice in humane dispatch of finfish caught by recreational fishers. DigsFish Services Client Report DF12-01. Prepared for the Commonwealth of Australia, Department of Agriculture, Fisheries and Forestry, February 2012. 20 pgs.
- Gordon DP, Diggles BK, Meisterfeld R, Hollis CJ, Buchanan PK (2012). Chapter 15. Phylum Cercozoa. Cercomonads, filose testate amoebae, Phaeodaria, plasmodiophoras, Gromia, haplosporidians, and kin. Pgs 233-241. In: Gordon DP (Ed). *New Zealand Inventory of Biodiversity. Volume 3. Kingdoms Bacteria, Protozoa, Chromista, Plantae, Fungi*. Canterbury University Press. 616 pgs.
- Diggles BK, Sawynok W, Olyott LJH (2011). Development of an environmental standard for recreational fishing tournaments. In: Beard TD et al. (2011). *The angler in the environment. Proceedings of the 5th World Recreational Fishing Conference. American Fisheries Society Symposium 75: 251-261.*

- Diggles BK, Landos M (2011). *Revision of National Water Quality Management Strategy Document 4: Australian and New Zealand Guidelines for Fresh and Marine Water Quality*. Task 2: Assessment of how aquatic guidelines (section 9.4) are used by resource managers and the aquaculture industry and investigate microbiological criteria for management of pathogens in waters for aquaculture. DigsFish Services Client Report DF11-01. Prepared for the NEPC Service Corporation May 2011. 92 pgs.
- Diggles BK (2011). Risk Analysis. Aquatic animal diseases associated with domestic bait translocation. Final report prepared for the Australian Government Department of Agriculture, Fisheries and Forestry, Canberra, FRDC Project No. 2009/072. 296 pgs.
<http://www.digsfish.com/2009-072final.pdf>
- Diggles BK (2010). Draft Risk Analysis. Hazard identification – aquatic animal diseases associated with domestic bait translocation. Draft prepared for the Australian Government Department of Agriculture, Fisheries and Forestry, Canberra, FRDC Project No. 2009/072. 119 pgs.
- Aquavetplan (2010). Australian Aquatic Veterinary Emergency Plan. Viral Haemorrhagic Septicaemia. Version 2.0, 2010. 71 pgs. A revision conducted by DigsFish Services for the Office of the Chief Veterinary Officer, Australian Government Department of Agriculture, Fisheries and Forestry, Canberra.
- Landos M, Diggles BK, Landos J (2010). Crustacean and disease identification and sampling manual for Brunei Darussalam. DigsFish Services Client Report DF09-10a. Prepared for the Government of Brunei Darussalam. February 2010. 116 pgs.
- Reece, KS, Moss, J, Scott, GP, Bureson, EM, Dungan, CF, Sheppard, BJ, Coleman, J, Liggins, G, Diggles, BK, Casas, S, La Peyre, JF, Villalba, A, and Upston, J (2009). Molecular identification and discrimination of *Perkinsus* Species: Implications for developing management strategies and assessing introduction risks. NSA 101st Annual Meeting, March 22-26, 2009, Savannah. *J. Shellfish Res.* 724
- Diggles BK, Landos J, Landos M (2009). Import Risk Analysis – Shrimp and Other Crustacean Products. DigsFish Services Client Report DF09-10. Prepared for the Government of Brunei Darussalam December 2009. 155 pgs.
- Diggles BK, Olyott L (2009). Implementation of the NEATFish environmental standard for fishing tournaments. Report published by DigsFish Services Pty Ltd, September 2009, for FRDC project no. 2008/215. 25 pgs.
- Aquavetplan (2009). Australian Aquatic Veterinary Emergency Plan. Enterprise Manual. Version 2.0, 2009. 170 pgs. A revision conducted by DigsFish Services for the Office of the Chief Veterinary Officer, Australian Government Department of Agriculture, Fisheries and Forestry, Canberra.
- Diggles BK, Landos J, Landos M (2009). Assessment of Aquatic Animal Biosecurity Capacity in Brunei Darussalam - March 2009. DigsFish Services Client Report DF09-01. March 2009. 26 pgs.
- Aquavetplan (2008). Australian Aquatic Veterinary Emergency Plan. Operations Procedures Manual: Disposal. Version 2.0, 2008. 50 pgs. A revision conducted by DigsFish Services for the Office of the Chief Veterinary Officer, Australian Government Department of Agriculture, Fisheries and Forestry, Canberra.

- Diggles BK (2008). Risk assessment for translocation of Pacific oyster (*Crassostrea gigas*) seed from Shellfish Culture Ltd (Tasmania) into NSW. DigsFish Services Client Report DF07-09. June 2008. 35 pgs.
- Sawynok W, Diggles BK, Harrison J (2008). Development of a national environmental management and accreditation system for business/public recreational fishing competitions . Report published by Recfish Australia , March 2008, for FRDC project no. 2006/057.
- Tubbs L, Lee P, Diggles B, Jones JB, Sheppard M, Sim-Smith C (2007). A review of aquatic diseases of significance to New Zealand. Biosecurity New Zealand Technical Paper. Project ZBS2005-17, 461 pp.
- Corfield J, Diggles BK, Jubb C, McDowall RM, Moore A, Richards A, Rowe DK (2007). Draft final report for public comment to the Australian government Department of the Environment and Water Resources. Review of the impacts of introduced aquarium fish species that have established wild populations in Australia. NIWA Client Report: HAM2006-082; NIWA Project: NAU05917 <http://www.environment.gov.au/biodiversity/invasive/publications/wild-aquarium-fish.html>
- Diggles B. K., Hine P.M. and Carson J (2007). The Cook Islands Experience. Pearl oyster health investigations. In: Bondad-Reantaso MG. et al. Pearl Oyster Health Management: A manual. FAO Fisheries Technical Paper 503. FAO, Rome 2007. pgs 71-85.
- Sawynok W., Diggles B., Harrison J. (2006). A national environmental management and accreditation system for recreational fishing tournaments: Concept Development. Report published by Recfish Australia , February 2006, for FRDC project no. 2005/235.
- Biosecurity NZ (2006). Import Risk Analysis: Freshwater Prawns *Macrobrachium rosenbergii* from Hawaii. Biosecurity NZ, Ministry of Agriculture and Forestry. 63 pgs. IRA prepared by Ben Diggles for NZ Government. <http://www.biosecurity.govt.nz/pests-diseases/animals/risk/prawns-ra.htm>
- Biosecurity NZ (2005). Import Risk Analysis: Ornamental fish. Biosecurity NZ, Ministry of Agriculture and Forestry. 264 pgs. IRA prepared by Ben Diggles for NZ Government.
- Diggles, B. K. (2002). Import Risk Assessment: Juvenile yellowtail kingfish (*Seriola lalandi*) from Spencer Gulf Aquaculture, South Australia. NIWA Client report WLG 2001/03, July 2002. Prepared for Island Aquafarms Ltd. 54 p. <http://www.maf.govt.nz/biosecurity/pests-diseases/animals/risk/yellowtail-kingfish-ra.pdf>
- Diggles, B. K., Hine, P. M., Handley, S. and Boustead, N. C. (2002). A handbook of diseases of importance to aquaculture in New Zealand. NIWA Science and Technology Series No. 49, ISSN 1173-0382. 200 pages. <http://docs.niwa.co.nz/library/public/NIWAsts49.pdf>
- Hine, P. M., Jones, J. B. and Diggles, B. K. (2000). A checklist of the parasites of New Zealand fishes, including previously unpublished records. NIWA Technical Report 75. ISSN 1174-2631. 94 pages. <http://www.niwa.co.nz/pubs/tr/>
- Diggles, B.K. (2000). Diseases of spiny lobsters in New Zealand. Proceedings of the International Symposium on Lobster Health Management, L. Evans (ed.). Curtin University of Technology. <http://www.curtin.edu.au/curtin/muresk/publica/others/lhm/>

Diggles, B. K. and Simpson, D. (1998). A discussion paper on the regulation of recreational fishing in South Australia. South Australian Fisheries Management Series, Paper No. 33 (May 1998). Outcomes summarised at <http://www.fishresearch.sa.gov.au/download/rrr.pdf>

Diggles, B. K. and Hall, D. (1997). A discussion paper on the management and development of recreational fishing in South Australia. South Australian Fisheries Management Series, Paper No. 23 (May 1997). Outcomes summarized at <http://www.fishresearch.sa.gov.au/download/rrr.pdf>

Number of peer reviewed scientific papers: 66

66. Bostrom-Einarsson L, Martínez-Baena F, Diggles BK, Firby L, McLeod I (2022). An ecological assessment of Australia's first community oyster gardens. *Ecological Management and Restoration* 23(3): 244-251. <https://onlinelibrary.wiley.com/doi/full/10.1111/emr.12565>
65. McAfee D, McLeod IM, Alleway HK, Bishop MJ, Branigan S, Connell SD, Copeland C, Crawford CM, Diggles BK, Fitzsimons JA, Gilby BL, Hamer P, Hancock B, Pearce R, Russell K, Gillies CL (2022). Turning a lost reef ecosystem into a national restoration program. *Conservation Biology* 36(6): e13958 <https://conbio.onlinelibrary.wiley.com/doi/10.1111/cobi.13958>
64. Diggles BK, Ernst I, Wesche S, Scutt K (2022). Influence of fish attractant on hooking location of *Lutjanus carponotatus* and *Epinephelus quoyanus* caught with soft plastic and hard-bodied lures. *Fisheries Management and Ecology* 29(6): 880-887. <https://onlinelibrary.wiley.com/doi/abs/10.1111/fme.12589>
63. Diggles BK, Bateman K, Chong RSM, Hawkins KA, Moody NC, Stentiford G (2022). *Haplosporidium acetes* n. sp. infecting the hepatopancreas of jelly prawns *Acetes sibogae australis* from Moreton Bay, Australia. *Journal of Invertebrate Pathology* 190: 107751 <https://www.sciencedirect.com/science/article/abs/pii/S0022201122000362>
62. Hlina BL, Glassman DM, Chhor AD, Etherington BS, Elvidge CK, Diggles BK, Cooke SJ (2021). Hook Retention but not hooking injury is associated with behavioural impairments in angled bluegill. *Transactions of the American Fisheries Society* 242: 106034 <https://www.sciencedirect.com/science/article/abs/pii/S0165783621001624>
61. Cooke SJ, Venturelli P, Twardek WM, Lennox RJ, Brownscombe JW, Skov C, Hyder K, Suski CD, Diggles BK, Arlinghaus R, Danylchuk AJ (2021). Technological innovations in the recreational fishing sector: implications for fisheries management and policy. *Reviews in Fish Biology and Fisheries* 31: 253–288. <https://doi.org/10.1007/s11160-021-09643-1>
60. Diggles BK (2021). Biosecurity risks related to recycling of mollusc shell waste for shellfish reef restoration in Australia. *Ecological Management and Restoration* 22: 145-159. <https://onlinelibrary.wiley.com/doi/10.1111/emr.12472?af=R>
59. Diggles BK, Barnes L, Landos M, Dennis MM, O'Carroll JPJ (2021). Sea lice *Lepeophtheirus spinifer*, *Tuxophorus* sp. and *Caligus* sp. infections on wild-caught queenfish *Scomberoides commersonianus* from northern Australia. *Diseases of Aquatic Organisms* 143: 37–50. <https://www.int-res.com/abstracts/dao/v143/p37-50>
58. Arlinghaus R, Cowx IG, Key B, Diggles BK, Schwab A, Cooke SJ, Skiftesvik AB, Browman HI (2020). Pragmatic animal welfare is independent of feelings. *Science* 370 (Issue 6513): 180 <https://science.sciencemag.org/content/370/6513/180.1.long>

57. Diggles BK, Chong RSM, Hawkins KA, Underwood DJ, Genge B, Driver L, Kistler C (2020). Investigation into white spots in the carapace of a moribund mud crab (*Scylla serrata*) from a white spot syndrome virus (WSSV) positive zone in Moreton Bay, Australia. *Australian Veterinary Journal* 98: 550-554. <https://doi.org/10.1111/avj.13003>
56. Boxshall GA, Bernot JP, Barton DP, Diggles BK, Yong RQ, Atkinson-Coyle, T, Hutson KS (2020). Parasitic copepods of the family Lernanthropidae Kabata, 1979 (Copepoda: Siphonostomatoida) recorded from Australian fishes, with descriptions of seven new species. *Zootaxa* 4736 (1): 1-103. <https://www.biotaxa.org/Zootaxa/article/view/zootaxa.4736.1.1/0>
55. Thurstan RH, Diggles BK, Gillies CL, Strong MK, Kerkhove R, Buckley SM, King RA, Smythe V, Heller-Wagner G, Weeks R, McLeod I (2020). Charting two centuries of transformation in a coastal social-ecological system: implications for modern management. *Global Environmental Change* 61: 102058. <https://www.sciencedirect.com/science/article/pii/S0959378019311033>
54. McLeod IM, Bostro-Einarsson L, Creighton C, D'Anastasi B, Diggles BK, Dwyer PG, Firby L, Le Port A, Luongo A, Martinez-Baena F, McOrrie S, Heller-Wagner G, Gillies CL (2019). Habitat value of Sydney rock oyster (*Saccostrea glomerata*) reefs on soft sediments. *Marine and Freshwater Research* 70: 1-11. <https://www.publish.csiro.au/MF/MF18197>
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