

ROD CONNOLLY PUBLICATIONS

Refereed journal publications:

1. Olds AD, **Connolly** RM, Pitt KA, Maxwell PS (in press) Habitat connectivity improves reserve performance. *Conservation Letters* (accepted Sep 2011)
2. Waltham NJ, Teasdale PR, **Connolly** RM (in press) Contaminants in water, sediment and fish biomonitor species from natural and artificial estuarine habitats along the urbanised Gold Coast, Queensland. *Journal of Environmental Management* (accepted 11 Oct 2011)
3. Waltham NJ, **Connolly** RM (2011) Global extent and distribution of artificial, residential waterways in estuaries. *Estuarine, Coastal and Shelf Science* 94:192-197
4. Smith TM, Hindell JS, Jenkins GP, **Connolly** RM, Keough MJ (2011) Fine-scale spatial and temporal variations in diets of the pipefish *Stigmatopora nigra* within seagrass patches. *Journal of Fish Biology* 78:1824-1832
5. Lee KM, Lee SY, **Connolly** RM (2011) Short-term response of estuarine sandflat trophodynamics to pulse anthropogenic physical disturbance: support for the Intermediate Disturbance Hypothesis. *Estuarine, Coastal and Shelf Science* 92:639-648
6. Smith TM, Hindell JS, Jenkins GP, **Connolly** RM, Keough MJ (2011) Edge effects in patchy seagrass landscapes: the role of predation in determining fish distribution. *Journal of Experimental Marine Biology and Ecology* 399:8-16
7. Lee KM, Lee SY, **Connolly** RM (2011) Combining stable isotope enrichment, compartmental modelling and ecological network analysis for quantitative measurement of food web dynamics. *Methods in Ecology and Evolution* 2:56-65
8. Haig JA, **Connolly** RM, Hughes, JM (2010) Little shrimp left on the shelf: the roles that sea level change, ocean currents and continental shelf width play in the genetic connectivity of a seagrass-associated species. *Journal of Biogeography* 37:1570-1583
9. Sheaves M, Johnston R, **Connolly** RM (2010) Temporal dynamics of fish assemblages of natural and artificial tropical estuaries. *Marine Ecology Progress Series* 410:143-157
10. Murphy HM, Jenkins GP, Hindell JS, **Connolly** RM (2010) Response of fauna in seagrass to habitat edges, patch attributes, and hydrodynamics. *Austral Ecology* 35:535-543
11. Macreadie PI, **Connolly** RM, Keough MJ, Jenkins GP, Hindell JS (2010) Short-term differences in animal assemblages formed by loss and growth of habitat. *Austral Ecology* 35:515-521
12. Macreadie PI, Hindell JS, Keough MJ, Jenkins GP, **Connolly** RM (2010) Resource distribution influences positive edge effects in a seagrass fish. *Ecology* 91:2013-2021
13. Macreadie PI, **Connolly** RM, Jenkins GP, Hindell JS, Keough MJ (2010) Edge patterns in aquatic invertebrates explained by predictive models. *Marine and Freshwater Research* 61:214-218
14. Oakes JM, **Connolly** RM, Revill AT (2010) Isotope enrichment in mangrove forests separates microphytobenthos and detritus as carbon sources for animals. *Limnology & Oceanography* 55:393-402
15. Smith TM, Hindell JS, Jenkins GP, **Connolly** RM (2010) Seagrass patch size affects fish responses to edges. *Journal of Animal Ecology* 79:275-281
16. Macreadie PI, Hindell JS, Jenkins GP, **Connolly** RM, Keough MJ (2009) Fish responses to experimental fragmentation of seagrass habitat. *Conservation Biology* 23:644-652
17. Pitt KA, **Connolly** RM, Maxwell P (2009) Redistribution of sewage-nitrogen in estuarine food webs following sewage treatment upgrades. *Marine Pollution Bulletin* 58:573-580
18. Schlacher TA, **Connolly** RM, Skillington AJ, Gaston TF (2009) Can export of organic matter from estuaries support zooplankton in nearshore, marine plumes? *Aquatic Ecology* 43:383-393
19. Warry FY, Hindell JS, Macreadie PI, Jenkins GP, **Connolly** RM (2009) Integrating edge effects into studies of habitat fragmentation: a test using meiofauna in seagrass. *Oecologia* 159:883-892
20. Schlacher TA, **Connolly** RM (2009) Land-ocean coupling of carbon and nitrogen fluxes on sandy beaches. *Ecosystems* 12:311-321
21. **Connolly** RM, Schlacher TA, Gaston TF (2009) Stable isotope evidence for trophic subsidy of coastal benthic fisheries by river discharge plumes off small estuaries. *Marine Biology Research* 5:164-171
22. Pitt KA, **Connolly** RM, Meziane T (2009) Stable isotope and fatty acid tracers in energy and nutrient studies of jellyfish: a review. *Hydrobiologia* 616:119-132
23. Webley JAC, **Connolly** RM, Young RA (2009) Habitat selectivity of megalopae and juvenile mud crabs (*Scylla serrata*): implications for recruitment mechanism. *Marine Biology* 156:891-899
24. Schlacher TA, Skillington AJ, **Connolly** RM, Robinson W, Gaston TF (2008) Coupling between marine plankton and freshwater flow in the plumes off a small estuary. *International Review of Hydrobiologia* 93:641-658
25. Smith TM, Hindell JS, Jenkins GP, **Connolly** RM (2008) Edge effects on fish associated with seagrass and sand patches. *Marine Ecology Progress Series* 359:203-213

26. Pitt KA, Clement AL, **Connolly** RM, Thibault-Botha D (2008) Predation by jellyfish on large and emergent zooplankton: implications for benthic-pelagic coupling. *Estuarine, Coastal and Shelf Science* 76:827-833
27. Moreau S, Péron C, Pitt KA, **Connolly** RM, Lee SK, Meziane T (2008) Opportunistic predation by small fish on epibiota of jetty pilings in urban waterways. *Journal of Fish Biology* 72:205-217
28. Bouillon S, **Connolly** RM, Lee SY (2008) Organic matter exchange and cycling in mangrove ecosystems: recent insights from stable isotope studies. *Journal of Sea Research* 59:44-58
29. Schlacher TA, Mondon JA, **Connolly** RM (2007) Estuarine fish health assessment: evidence of wastewater impacts based on nitrogen isotopes and histopathology. *Marine Pollution Bulletin* 54:1762-1776
30. Jelbart JE, Ross PM, **Connolly** RM (2007) Patterns of small fish distributions in seagrass beds in a temperate Australian estuary. *Journal of the Marine Biological Association* 87:1297-1307
31. Waltham NJ, **Connolly** RM (2007) Artificial waterway design affects fish assemblages in urban estuaries. *Journal of Fish Biology* 71:1613-1629
32. Jelbart JE, Ross PM, **Connolly** RM (2007) Fish assemblages in seagrass beds are influenced by the proximity of mangrove forests. *Marine Biology* 150:993-1002
33. Webley JAC, **Connolly** RM (2007) Vertical movement of mud crab megalopae (*Scylla serrata*) in response to light: doing it differently down under. *Journal of Experimental Marine Biology and Ecology* 341:196-203
34. Coman FE, **Connolly** RM, Preston NP (2006) Effects of water exchange and abiotic factors on zooplankton and epibenthic fauna in shrimp ponds. *Aquaculture Research* 37:1387-1399
35. Coman FE, **Connolly** RM, Bunn SE, Preston NP (2006) Food sources of the sergestid crustacean, *Acetes sibogae*, in shrimp ponds. *Aquaculture* 259:222-233
36. Jelbart JE, Ross PM, **Connolly** RM (2006) Edge effects and patch size in seagrass landscapes: an experimental test using fish. *Marine Ecology Progress Series* 319:93-102
37. Gaston TF, Schlacher TA, **Connolly** RM (2006) Flood discharges of a small river into open coastal waters: plume traits and material fate. *Estuarine, Coastal and Shelf Science* 69:4-9
38. Hollingsworth A, **Connolly** RM (2006) Feeding by fish visiting inundated subtropical saltmarsh. *Journal of Experimental Marine Biology and Ecology* 336:88-98
39. **Connolly** RM, Hindell JS (2006) Review of nekton patterns and ecological processes in seagrass landscapes. *Estuarine, Coastal and Shelf Science* 68:433-444
40. Guest MA, **Connolly** RM, Loneragan NR, Lee SY, Breitfuss MJ (2006) Mechanism for the small-scale movement of carbon among estuarine habitats: organic matter transfer not crab movement. *Oecologia* 148:88-96
41. Lee SY, Dunn R, Young RA, **Connolly** RM, Dale P, Dehayr R, Lemckert C, McKinnon S, Powell B, Teasdale P, Welsh D (2006) Impact of urbanisation on coastal wetland structure and function. *Austral Ecology* 31:184-198
42. Guest MA, **Connolly** RM (2006) Movement of carbon among estuarine habitats: the influence of saltmarsh patch size. *Marine Ecology Progress Series* 310:15-24
43. Waltham NJ, **Connolly** RM (2006) Trophic strategies of garfish, *Arrhamphus sclerolepis*, in natural coastal wetlands and artificial urban waterways. *Marine Biology* 148:1135-1141
44. Oakes JM, Reville AT, **Connolly** RM, Blackburn SI (2005) Measuring carbon isotope ratios of microphytobenthos using compound-specific stable isotope analysis of phytol. *Limnology & Oceanography: Methods* 3:511-519
45. Brickhill MJ, Lee SY, **Connolly** RM (2005) Fish associated with artificial reefs: attributing changes to attraction or production using novel approaches. *Journal of Fish Biology* 67 sB:53-71
46. Melville AJ, **Connolly** RM (2005) Food webs supporting fish over subtropical mudflats are based on transported organic matter not in situ microalgae. *Marine Biology* 148:363-371
47. **Connolly** RM, Gorman D, Guest MA (2005) Movement of carbon among estuarine habitats and its assimilation by invertebrates. *Oecologia* 144:684-691
48. **Connolly** RM (2005) Modification of saltmarsh for mosquito control in Australia alters habitat use by nekton. *Wetland Ecology and Management* 13:149-161
49. Stevens T, **Connolly** RM (2005) Local-scale mapping of benthic habitats to assess representation in a marine protected area. *Marine and Freshwater Research* 56:111-123
50. Loneragan NR, Ahmad Adnan N, **Connolly** RM, Manson FJ (2005) Prawn landings and their relationship with the extent of mangroves and shallow waters in western peninsular Malaysia. *Estuarine, Coastal and Shelf Science* 63:187-200
51. **Connolly** RM, Hindell JS, Gorman D (2005) Seagrass and epiphytic algae support the nutrition of a fisheries species, *Sillago schomburgkii*, in adjacent intertidal habitats. *Marine Ecology Progress Series* 286:69-79
52. Breitfuss MJ, **Connolly** RM (2004) Consolidation and volumetric soil-water content of saltmarsh soils following habitat modification for mosquito control. *Wetland Ecology and Management* 12:333-342
53. Guest MA, **Connolly** RM (2004) Fine-scale movement and assimilation of carbon in saltmarsh and mangrove habitat by resident animals. *Aquatic Ecology* 38:599-609

54. Guest MA, **Connolly** RM, Loneragan NR (2004) Carbon movement and assimilation by invertebrates in estuarine habitats at a scale of metres. *Marine Ecology Progress Series* 278:27-34
55. Guest MA, **Connolly** RM, Loneragan NR (2004) Within and among-site variability in $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ for three estuarine producers, *Sporobolus virginicus*, *Zostera capricorni*, and epiphytes of *Z. capricorni*. *Aquatic Botany* 79:87-94
56. Stevens T, **Connolly** RM (2004). Testing the utility of abiotic surrogates for marine mapping at scales relevant to management. *Biological Conservation* 119:351-362
57. Oakes JM, **Connolly** RM (2004) Causes of sulfur isotope variability in the seagrass, *Zostera capricorni*. *Journal of Experimental Marine Biology and Ecology* 302:153-164
58. Breitfuss MJ, **Connolly** RM, Dale PER (2004) Densities and aperture sizes of burrows constructed by *Helograpsus haswellianus* (Decapoda: Varunidae) in saltmarshes with and without mosquito-control runnels. *Wetlands* 24:14-22
59. **Connolly** RM, Guest MA, Melville AJ, Oakes JM (2004). Sulfur stable isotopes separate producers in marine food-web analysis. *Oecologia* 138:161-167
60. Stevens T, **Connolly** RM (2003) Shallow water crinoids are on soft sediments too: evidence from a video survey of a sub tropical estuary. *Bulletin of Marine Science* 73:593-604
61. **Connolly** RM (2003) Differences in trophodynamics of commercially important fish between artificial waterways and natural coastal wetlands. *Estuarine, Coastal and Shelf Science* 58:929-936
62. Melville AJ, **Connolly** RM (2003) Spatial analysis of stable isotope data to determine primary sources of nutrition for fish. *Oecologia* 136:499-507
63. Guest MA, **Connolly** RM, Loneragan NR (2003) Seine nets and beam trawls compared in the day and night for sampling fish and crustaceans in shallow seagrass habitat. *Fisheries Research* 64:185-196
64. Takahashi E, **Connolly** RM, Lee SY (2003) Growth and reproduction of double-ended pipefish, *Syngnathoides biaculeatus*, in Moreton Bay, Queensland, Australia. *Environmental Biology of Fishes* 67:23-33
65. Breitfuss MJ, **Connolly** RM, Dale PER (2003) Mangrove distribution and mosquito control: transport of *Avicennia marina* propagules by mosquito-control runnels in southeast Queensland saltmarshes. *Estuarine, Coastal and Shelf Science* 56:573-579
66. Coman FE, **Connolly** RM, Preston NP (2003) Zooplankton and epibenthic fauna in shrimp ponds: factors influencing assemblage dynamics. *Aquaculture Research* 34:359-371
67. **Connolly** RM, Melville AJ, Preston KM (2002) Patterns of movement and habitat use by leafy seadragons tracked ultrasonically. *Journal of Fish Biology* 61:684-695
68. **Connolly** RM, Melville AJ, Keesing JK (2002) Abundance, movement and individual identification of leafy seadragons, *Phycodurus eques* (Pisces: Syngnathidae). *Marine and Freshwater Research* 53:777-780
69. Ahmad Adnan N, Loneragan NR, **Connolly** RM (2002) Variability of, and the influence of environmental factors on, the recruitment of postlarval and juvenile *Penaeus merguensis* in the Matang mangroves of Malaysia. *Marine Biology* 141:241-251
70. Chenoweth SF, Hughes JM, **Connolly** RM (2002) Phylogeography of the pipefish, *Urocampus carinirostris*: secondary contact and introgression of ancient lineages. *Marine Biology* 141:541-547
71. Thomas B, **Connolly** RM (2001) Fish use of subtropical saltmarshes in Queensland, Australia: relationships with vegetation, water depth and distance onto the marsh. *Marine Ecology Progress Series* 209:275-288
72. Seddon S, **Connolly** RM, Edyvane K (2000) Large-scale seagrass dieback in northern Spencer Gulf, South Australia. *Aquatic Botany* 66:297-310
73. Winning M, **Connolly** RM, Loneragan NL, Bunn S (1999) ^{15}N enrichment as a method of separating the isotopic signatures of seagrass and its epiphytes for food web analysis. *Marine Ecology Progress Series* 189:289-294
74. **Connolly** RM (1999) Saltmarsh as habitat for fish and nektonic crustaceans: challenges in sampling designs and methods. *Australian Journal of Ecology* 24:422-430
75. Butler A.J, **Connolly** RM (1999) Assemblages of sessile marine invertebrates: still changing after all these years? *Marine Ecology Progress Series* 182:109-118
76. **Connolly** RM (1997) Differences in composition of small, motile invertebrate assemblages from seagrass and unvegetated habitats in a southern Australian estuary. *Hydrobiologia* 346:137-148
77. **Connolly** RM, Dalton A, Bass DA (1997) Fish use of an inundated saltmarsh flat in a temperate Australian estuary. *Australian Journal of Ecology* 22:222-226
78. **Connolly** RM, Butler AJ (1996) Effects of altering seagrass canopy height on small, motile invertebrates of shallow Mediterranean embayments. *Marine Ecology* 17:637-652
79. **Connolly** RM, Jones GK (1996) Determining effects of an oil spill on fish communities in a mangrove-seagrass ecosystem in southern Australia. *Australasian Journal of Ecotoxicology* 2:3-15
80. Butler AJ, **Connolly** RM (1996) Development and long-term dynamics of a fouling assemblage of sessile marine invertebrates. *Biofouling* 9:187-209
81. **Connolly** RM (1995) Diet of juvenile King George whiting *Sillaginodes punctata* (Pisces: Sillaginidae) in the Barker Inlet-Port River estuary, South Australia. *Transactions of the Royal Society of South Australia* 119:191-198

82. **Connolly RM** (1995) Effects of removal of seagrass canopy on assemblages of small, motile invertebrates. *Marine Ecology Progress Series* 118:129-137
83. **Connolly RM** (1994) The role of seagrass as preferred habitat for juvenile *Sillaginodes punctata* (Sillaginidae, Pisces): habitat selection or feeding? *Journal of Experimental Marine Biology and Ecology* 180:39-47
84. **Connolly RM** (1994) Comparison of fish catches from a buoyant pop net and a beach seine net in a shallow seagrass habitat. *Marine Ecology Progress Series* 109:305-309
85. **Connolly RM** (1994) A comparison of fish assemblages from seagrass and unvegetated areas of a southern Australian estuary. *Australian Journal of Marine and Freshwater Research* 45:1033-1044
86. **Connolly RM** (1994) Removal of seagrass canopy: effects on small fish and their prey. *Journal of Experimental Marine Biology and Ecology* 184:99-110

Refereed conference publications:

1. Bennett J, Fisk G, Abal E, Stevens T, **Connolly RM**, Schlacher T, Udy N, Rissik D, Zeller B, Winning M, Deacon G (2009) Towards understanding the ecological health and character of Moreton Bay. In: Gunn J, Patmore D, Mogg N, Stuart G, Hunt S, Tindale N, Saltner L, Vains J (eds). *Proceedings of the Queensland Coastal Conference – 2009. 2nd conference*. Published on-line: ISBN 978-0-9806511-0-2. p 1-6
2. **Connolly RM** (2007) Stable isotope analysis in fisheries food webs. In: Lyle JM, Furlani DM, Buxton CD (eds). *Cutting-edge technologies in fish and fisheries science*. Australian Society for Fish Biology Workshop Proceedings, Hobart, Tasmania, 2006, Australian Society for Fish Biology, p 160-166
3. **Connolly RM** (2006) In situ and ex situ trophic consequences of fishing. In: Ward TM, Geddes MC, Mayfield S (eds). *National Symposium on Ecosystem Research and Management of Fish and Fisheries*. Australian Society for Fish Biology Symposium Proceedings, Adelaide, South Australia, 2004, p 75-76
4. **Connolly RM**, Guest MA (2005) Critical estuarine habitats for food webs supporting fisheries in Port Curtis, central Queensland, Australia. In: Exelby A, Wormington K, Melzer A (eds) *The State of Port Curtis Conference*. Central Queensland University, Gladstone, Queensland, Australia, p 50-62
5. **Connolly RM** (1998) Marine fauna: overview. In: Tibbetts IR, Hall NJ, Dennison, WD (eds) *Moreton Bay and Catchment*. pp 329-330. School of Marine Science, The University of Queensland, Brisbane
6. **Connolly RM**, Round S, Thomas B, van Dorssen J, Milton D (1998) Dispersal of double-ended pipefish (*Syngnathoides biaculeatus*): measurement using otolith microchemistry. In: Tibbetts IR, Hall NJ, Dennison WD (eds) *Moreton Bay and Catchment*. pp 475-476. School of Marine Science, The University of Queensland, Brisbane
7. Moussalli A, **Connolly RM** (1998) Fish use of the inundated waters of a subtropical saltmarsh-mangrove complex in southeast Queensland. In: Tibbetts IR, Hall NJ, Dennison WD (eds) *Moreton Bay and Catchment*. pp 471-472. School of Marine Science, The University of Queensland, Brisbane
8. Tibbetts I, **Connolly RM** (1998) The nekton of Moreton Bay. In: Tibbetts IR, Hall NJ, Dennison WD (eds) *Moreton Bay and Catchment*. pp 395-420. School of Marine Science, The University of Queensland, Brisbane

Refereed book chapters:

1. Bouillon S, **Connolly RM**, Gillikin D (in press) Use of stable isotopes to understand food webs and ecological processes. In: Wolanski E, McClusky DS *Treatise on estuarine and coastal science*. Vol. 7. Heip C, Philippart K, Middelburg JJ. *Ecosystem processes in estuaries and coasts*. Elsevier.
2. **Connolly RM** (2009) Seagrass. In: Report card of marine climate change for Australia (Eds. ES Poloczanska, AJ Hobday, AJ Richardson), NCCARF Publication 05/09. ISBN: 978-1-921609-03-9
3. Bouillon S, **Connolly RM** (2009) Carbon exchange between tropical coastal ecosystems. In: Nagelkerken I. *Ecological interactions among tropical coastal ecosystems*. Springer, pp 45-70
4. **Connolly RM** (2009) Fish on Australian saltmarshes. In: Saintilan N. *Australian saltmarsh ecology*. CSIRO Publishing, Melbourne.
5. Jones GK, **Connolly RM**, Bloomfield AL (2008) Ecology of fish in seagrass. In: Shepherd SA, Bryars S, Kirkegaard I, Harbison P, Jennings JT. *Natural history of Gulf St Vincent*. Royal Society South Australia, Adelaide, pp 148-161
6. Browne RK, Baker JL, **Connolly RM** (2008) Syngnathids: seadragons, seahorses and pipefish. In: Shepherd SA, Bryars S, Kirkegaard I, Harbison P, Jennings JT. *Natural history of Gulf St Vincent*. Royal Society South Australia, Adelaide, pp 162-176
7. **Connolly RM**, Lee SY (2007) Mangroves and saltmarsh. In: Connell, SD, Gillanders, BM. *Marine Ecology*. Oxford University Press, Oxford, pp 485-512
8. **Connolly RM**, Jenkins G, Loneragan NL (1999) Seagrass dynamics and fisheries sustainability. In: Butler AJ, Jernakoff P. *Seagrass in Australia*. CSIRO Marine Research, Melbourne