

Charles A. Gray - Scientific Publications

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International Journal Publications:

126. Brodie S, Hobday AJ, Smith JA, Spillman CM, Hartog JR, Everett JD, Taylor MD, Gray CA, Suthers IM (2017) Seasonal forecasting of dolphin distribution in eastern Australia to aid recreational fishers and managers. *Deep-Sea Research Part II: Topical Studies in Oceanography*, online. (doi:10.1016/j.dsr2.2017.03.004)
125. Gray GME, Gray CA (2017) Beach-user attitudes to shark bite mitigation strategies on coastal beaches; Sydney, Australia. *Human Dimensions of Wildlife* 22, online. (doi:10.1080/10871209.2017.1295491)
124. Gray CA, Kennelly SJ (2017) Evaluation of observer- and industry-based catch data in a recreational charter fishery. *Fisheries Management and Ecology* 24, 126-138. (doi:10.1111/fme.12210)
123. Pichler HA, Gray CA, Broadhurst MK, Spach HL, Nagelkerken I (2017). Seasonal and environmental influences on recruitment patterns and habitat usage among resident and transient fishes in a World Heritage Site subtropical estuary. *Journal of Fish Biology* 90, 396-416. (doi:10.1111/jfb.13191)
122. Possatto FE, Broadhurst MK, Gray CA, Spach HL, Lamour M (2017) Spatio-temporal variation among demersal ichthyofauna in a subtropical estuary bordering World Heritage Listed and marine protected areas: implications for resource management. *Marine and Freshwater Research* 68, 601-616. (doi:10.1071/MF15345)
121. Brodie S, Taylor MD, Smith JA, Suthers IM, Gray CA, Payne NL (2016) Improving consumption rate estimates by incorporating wild activity into bioenergetics models. *Ecology and Evolution* 6, 2262-2274. (doi:10.1002/ece3.2027)
120. Payne NL, Smith JA, van der Meulen DE, Taylor MD, Watanabe YY, Takahashi A, Marzullo TA, Gray CA, Cadiou G, Suthers IM (2016) Temperature-dependence of fish performance in the wild: links with species biogeography and physiological thermal tolerance. *Functional Ecology* 30, 903-912. (doi:10.1111/1365-2435.12618)
119. Smoothey AF, Gray CA, Kennelly SJ, Masens OJ, Peddemors VM, Robinson WA (2016) Patterns of occurrence of sharks in Sydney Harbour, a large urbanised estuary. *PLoS One* 11, e0146911. (doi:10.1371/journal.pone.0146911).
118. Gray CA (2016) Evaluation of fishery-dependent sampling strategies for monitoring a small-scale beach clam fishery. *Fisheries Research* 177, 24-30. (doi:10.1016/j.fishres.2016.01.007).
117. Gray CA (2016) Effects of fishing and fishing closures on beach clams: experimental evaluation across commercially fished and non-fished beaches before and during harvesting. *PLoS One* 11, e0146122. (doi:10.1371/journal.pone.0146122)
116. Gray CA (2016) Assessment of spatial fishing closures on beach clams. *Global Ecology and Conservation* 5, 108-117. (doi:10.1016/gecco.2015.12.002)
115. Gray CA (2016) Tide, time and space: scales of variation and influences on structuring and sampling beach clams. *Journal of Experimental Marine Biology and Ecology* 474, 1-10. (doi:10.1016/j.jembe.2015.09.013)
114. Brodie S, Hobday AJ, Smith JA, Everett JD, Taylor MD, Gray CA, Suthers IM (2015) Modelling the oceanic habitats of two pelagic species using recreational fisheries data. *Fisheries Oceanography* 24, 463-477. (doi:10.1111/fog.12122)

113. Pichler HA, Spach HL, Gray CA, Broadhurst MK, Schwarz R Jnr, de Oliveira Neto JF (2015) Environmental influences on resident and transient fishes across shallow estuarine beaches and tidal flats in a Brazilian World Heritage area. *Estuarine, Coastal and Shelf Science* 164, 482-492. (doi:10.1016/j.ecss.2015.07.041)
112. Payne NL, van der Meulen DE, Suthers IM, Gray CA, Walsh CT, Taylor MD (2015). Rain-driven changes in fish dynamics: a switch from spatial to temporal segregation. *Marine Ecology Progress Series* 528, 267-275. (doi:10.3354/meps11285)
111. Gray CA (2015) Spatial variation in demography of an estuarine teleost: implications for population and fishery assessments. *Aquatic Biology* 23, 209-223. (doi:10.3354/ab00623)
110. Stocks J, Gray CA, Taylor MD (2015) Out in the wash: spatial ecology of a temperate marine shallow rocky-reef species derived using acoustic telemetry. *Marine and Freshwater Research* 66, 559-571. (dx.doi.org/10.1071/MF14182)
109. Gannon R, Payne NL, Suthers IM, Gray CA, van der Meulen DE, Taylor MD (2015) Fine-scale movements, site fidelity and habitat use of an estuarine dependent sparid. *Environmental Biology of Fishes* 98, 1599-1608. (doi:10.1007/s10641-015-0385-5)
108. Gray CA, Barnes LM (2015) Spawning, maturity, growth and movement of *Platycephalus fuscus* (Cuvier, 1829) (Platycephalidae): fishery management considerations. *Journal of Applied Ichthyology* 31, 442-450. (doi:10.1111/jai.12703)
107. Stocks J, Gray CA, Taylor MD (2015) Intra-population trends in the maturation and reproduction of a temperate marine herbivore *Girella elevata* across latitudinal clines. *Journal of Fish Biology* 86, 463-483. (doi: 10.1111/jfb.12563)
106. Payne NL, van der Meulen DE, Suthers IM, Gray CA, Taylor MD (2015) Foraging intensity of wild mulloway *Argyrosomus japonicus* decreases with increasing anthropogenic disturbance. *Marine Biology* 162, 539-546. (doi: 10.1007/s00227-014-2603-7)
105. Ochwada-Doyle FA, McLeod J, Barrett G, Clarke G, Gray CA (2014) Spatial patterns of recreational exploitation in eastern Australian ROFAs; implications for zonal management. *Fisheries Management and Ecology* 21, 383-397. (doi: 10.1111/fme.12087)
104. Gray CA, Barnes LM, Ochwada-Doyle FA, van der Meulen DE, Kendall BW, Robbins WD (2014) Age, growth and demographic characteristics of *Sillago flindersi* exploited in a multi-species trawl fishery. *Fisheries Science* 80, 915-924. (doi: 10.1007/s12562-014-0793-z)
103. Gannon R, Taylor MD, Suthers IM, Gray CA, van der Meulen DE, Smith JA, Payne NL (2014) Thermal limitation of performance and biogeography in a free-ranging ectotherm: insights from accelerometry. *The Journal of Experimental Biology* 217, 3033-3037. (doi:10.1242/jeb.104455)
102. Ochwada-Doyle FA, Stocks J, Barnes L, Gray CA (2014) Reproduction, growth and mortality of the exploited, *Sillago ciliata* Cuvier, 1829. *Journal of Applied Ichthyology* 30, 870-880. (doi:10.1111/jai.12478)
101. Morriengello JR, Walsh CT, Gray CA, Stocks JR, Crook DA (2014) Environmental change drives long-term recruitment and growth variation in an estuarine fish. *Global Change Biology* 20, 1844-1860. (doi:10.1111/gcb.12545)
100. Gray CA, Barnes LM, van der Meulen DE, Kendall BW, Ochwada-Doyle FA, Robbins WD (2014) Depth interactions and reproductive ecology of sympatric Sillaginidae: *Sillago robusta* and *S. flindersi*. *Aquatic Biology* 21, 127-142. (doi:10.3354/ab00578)
99. Taylor MD, van der Meulen DE, Ives MC, Walsh CT, Reinfelds IV, Gray CA (2014) Shock, stress or signal? Implications of freshwater pulses for a top-level estuarine predator. *PLoS One* 9, e95680. (doi:10.1371/journal.pone.0095680)

98. Stocks J, Gray CA, Taylor MD (2014) Synchrony and variation across latitudinal gradients: the role of climate and oceanographic processes in the growth of a herbivorous fish. *Journal of Sea Research* 90, 23-32. [doi:10.1016/j.seares.2014.03.002](https://doi.org/10.1016/j.seares.2014.03.002)
97. Gray CA, Johnson DD, Reynolds D, Rotherham D (2014) Development of rapid sampling procedures for an exploited bivalve in the swash zone on exposed ocean beaches. *Fisheries Research* 154, 205-212. [doi:10.1016/j.fishres.2014.02.027](https://doi.org/10.1016/j.fishres.2014.02.027)
96. van der Meulen DE, Walsh CT, Taylor MD, Gray CA (2014) Habitat requirements and spawning strategy of an estuarine-dependent fish, *Perca latipes*. *Marine and Freshwater Research* 65, 218-227. [doi:10.1071/MF13060](https://doi.org/10.1071/MF13060)
95. Stocks J, Gray CA, Taylor MD (2014) Testing the effects of near-shore environmental variables on acoustic detections: implications on telemetry array design and data interpretation. *Marine Technology Society Journal* 48, 28-35. DOI: 10.4031/MTSJ.48.1.8
94. Roberts DG, Gray CA, Ayre DJ (2014) Microsatellite primers for Australian recreationally and commercially important estuarine fishes. *Journal of Fish Biology* 84:273-81. [doi:10.1111/jfb.12283](https://doi.org/10.1111/jfb.12283)
93. Taylor MD, McPhan L, Gannon R, van der Meulen DE, Gray CA, Suthers IM, Payne NL (2013) Interactive drivers of activity in a free-ranging estuarine predator. *PLoS One* 8, e80962. [doi:10.1371/journal.pone.0080962](https://doi.org/10.1371/journal.pone.0080962)
92. Young CL, Rotherham D, Johnson DD, Gray CA (2013) Small-scale variation in reproduction and abundance of greentail prawn, *Metapenaeus bennettiae* Racek and Dall, 1965. *Journal of Crustacean Biology* 33, 651-659. [doi:10.1163/1937240X-00002172](https://doi.org/10.1163/1937240X-00002172)
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90. van der Meulen DE, West RJ, Gray CA (2013) An assessment of otoliths, dorsal spines and scales to age the long-finned gurnard, *Lepidotrigla argus*, Ogilby, 1910 (Family: Triglidae). *Journal of Applied Ichthyology* 29, 815-824. [doi:10.1111/jai.12181](https://doi.org/10.1111/jai.12181)
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88. Rotherham D, Johnson DD, Macbeth WG, Gray CA (2013) Escape gaps as a management strategy for reducing bycatch in net-covered traps for giant mud crab *Scylla serrata*. *North American Journal of Fisheries Management* 33, 307-317. (doi:10.1080/02755947.2012.760502)
87. Walsh CT, Reinfelds IV, Ives MC, Gray CA, West RJ, van der Meulen DE (2013) Environmental influences on the spatial ecology and spawning behaviour of an estuarine-resident fish, *Macquaria colonorum*. *Estuarine, Coastal and Shelf Science* 118, 60-71. [doi:10.1016/j.ecss.2012.12.009](https://doi.org/10.1016/j.ecss.2012.12.009)
86. Payne NL, van der Meulen DE, Gannon R, Semmens JM, Suthers IM, Gray CA, Taylor MD (2013) Rain reverses diel activity rhythms in an estuarine teleost. *Proceedings of the Royal Society B*, 280, 1750-1754. [doi:10.1098/rspb.2012.2363](https://doi.org/10.1098/rspb.2012.2363)
85. Barnes LM, van der Meulen DE, Orchard BA, Gray CA (2013) Novel use of an ultrasonic cleaning device for fish reproductive studies. *Journal of Sea Research* 76, 222-226. [doi:10.1016/j.seares.2012.08.008](https://doi.org/10.1016/j.seares.2012.08.008)
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82. Ochwada-Doyle FA, Roberts DG, Gray CA, Barnes L, Haddy J, Fearman J (2012) Characterizing the biological traits and life history of *Acanthopagrus* (Sparidae) hybrid complexes: implications for conservation and management. *Journal of Fish Biology* 81, 1540-1558. ([doi:10.1111/j.1095-8642.2012.03401.x](https://doi.org/10.1111/j.1095-8642.2012.03401.x))
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80. Ochwada-Doyle F, Gray CA, Loneragan NR, Suthers IM, Taylor MD (2012) Competition between wild and captive-bred *Penaeus plebejus* and implications for stock enhancement. *Marine Ecology Progress Series* 450, 115-129. ([doi:10.3354/meps09600](https://doi.org/10.3354/meps09600))
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51. Gray CA (2008) A scientific assessment program to test the reconciliation of an estuarine commercial fishery with conservation. *American Fisheries Society Symposium* 49, 1593- 1596.
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43. Gray CA, Young DJ, Broadhurst MK (2006) A comparison of catches and bycatches from 3 non-trawl penaeid fishing gears used in an Australian estuary. *Asian Fisheries Science* 19, 117-130.
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