

Associate Professor Russell B. Millar

Publications in peer-reviewed journals and monographs:

1. Millar, R. B. 2010. Reliability of size-selectivity estimates from paired-trawl and covered-codend experiments. *ICES J. Mar. Sci. In press.*
2. Millar, R. B. 2010. Applications of MCMC in fisheries science. In *The handbook of Markov chain Monte Carlo*. CRC Press.
3. Broadhurst, M. K., and Millar, R. B. 2010. Square-mesh codend length and selectivity in southeastern Australian stow nets. *Fish. Mgmt Ecol. In press.*
4. Park, H-H., Millar, R. B., Bae, B-S., An, H-C., and Hwang, S-J. 2010. The difference of selectivity of gill net between least square method with polynomials in Kitahara's and maximum likelihood analysis. *J. Kor. Soc. Fish. Tech..* 46: 223-231.
5. Broadhurst, M. K., Millar, R. B., and Brand, C. P. 2010. Diamond- vs. square-mesh codend selectivity in southeastern Australian estuarine squid trawls. *Fish. Res.* 276-285.
6. Broadhurst, M. K., Millar, R. B., and Uhlmann, S. S. 2009. Using a double codend to reduce discard mortality. *ICES J. Mar. Sci.* 66: 2077-2081.
7. Broadhurst, M. K., Millar, R. B., and Brand, C. P. 2009. Mitigating discard mortality from dusky flathead *Platycephalus fuscus* gillnets. *Diseases of Aquatic Organisms.* 85: 157-166.
8. Broadhurst, M. K., Millar, R. B., Brand, C. P. and Uhlmann, S. S. 2009. Modified sorting to mitigate the collateral mortality of trawled school prawns *Metapenaeus macleayi*. *Fish. Bull.* 107: 286-297.
9. Millar, R. B. 2009. Comparison of hierarchical Bayesian models for over-dispersed count data using DIC and Bayes factors. *Biometrics.* 65: 962-969.
10. Broadhurst, M. K., Millar, R. B. 2009. Square-mesh codend circumference and selectivity. *ICES J. Mar. Sci.* 66: 566-572.
11. Graham, K. J.³, Broadhurst, M. K.³, Wooden, M. E. L.³ and Millar, R. B. 2009. Effects of codend circumference and twine diameter on selection in south-eastern Australian fish trawls. *Fish. Res.* 95: 341-349.
12. Broadhurst, M. K., Uhlmann, S. S. and Millar, R. B. 2008. Reducing discard mortality in an estuarine trawl fishery. *J. Exp. Mar. Biol. Ecol.* 364: 54-61.
13. Broadhurst, M. K., Millar, R. B., Brand, C. P. and Uhlmann, S. S. 2008. Mortality of discards from southeastern Australian beach seines and gillnets. *Diseases of Aquatic Organisms.* 80: 51-61.
14. Broadhurst, M. K., Wooden, M. E. L. and Millar, R. B. 2007. Isolating selection mechanisms in beach seines. *Fish. Res.* 88: 56-69.
15. Millar, R. B., and Stewart, W. S. 2007. Assessment of locally influential observations in Bayesian models. *Bayesian Analysis.* 2: 365-384.
16. Park, H-H., Millar, R. B., An, H-C. and Kim, H-Y. 2007. Size selectivity of drum-nets for whelk (*Buccinum opisoplectum dall*) in the Korean coastal waters of the East Sea. *Fish. Res.* 86: 113-119.
17. Macbeth, W. G., Millar, R. B., Broadhurst, M. K., Hewitt, C. W. and Wooden, M. E. L. 2007. Intra-fleet variability in the size selectivity of a square-mesh trawl codend for school prawns (*Metapenaeus macleayi*). *Fish. Res.* 86: 92-98.
18. Fonseca, P., Campos, A. and Millar, R. B. 2007. Codend selection in the deep-water crustacean trawl fishery in Portuguese southern waters. *Fish. Res.* 85: 49-60.

19. Jounela, P., Suuronen, P., Millar, R. B. and Koljonen, M. L. 2006. Interactions between grey seal (*Halichoerus grypus*), Atlantic salmon (*Salmo salar* L.) and harvest controls on the salmon fishery in the Gulf of Bosnia. *ICES J. Mar. Sci.* 63: 936-945.
20. Broadhurst, M. K., Millar, R. B., Wooden, M. E. L. and Macbeth, W. G. 2006. Optimizing codend configuration in a multispecies demersal trawl fishery. *Fish. Mgmt. Ecology.* 13: 81-92.
21. Willis, T. J., and Millar, R. B.. 2005. Using marine reserves to estimate fishing mortality. *Ecology Letters.* 8: 47-52.
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23. Millar, R. B. and Stewart, W. S. 2005. Sensitivity of fisheries models to specification of prior information. *Can. J. Fish. Aquat. Sci.* 62: 1028-1036.
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25. MacBeth, W. G., Broadhurst, M. K., Millar, R. B. and Smith, S. D. A. 2005. Increasing codend mesh openings: an appropriate strategy for improving the selectivity of penaeid fishing gears in an Australian estuary? *Mar. Fresh. Res.* 56: 889-900.
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27. Park, H-H., Millar, R. B., An, H., Kim, H., Jeong, E., Shin, J. K., Cha, B. and Kim, I. O. 2005. Mesh selectivity of drum net traps for *Buccinum opisoplectum* Dall using SELECT model with unequal fishing and sampling efforts: A preliminary analysis. *J. Kor. Soc. Fish. Tech.* 41: 279-288.
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29. Millar, R. B. 2004. Sensitivity of Bayes estimators to hyper-parameters, with an application to maximum yield from fisheries. *Biometrics.* 60: 536-542.
30. Millar, R. B. 2004. Simulated maximum likelihood applied to non-Gaussian and nonlinear mixed effects and state-space models. *Aust. New Zealand J. Stat.* 46: 515-526.
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32. Gribben, P. E., Helson, J. and Millar, R. B. 2004. Population abundance estimates of the New Zealand geoduck clam, *Panopea zelandica*, using North American methodology: is the technology transferable? *J. Shellfish Res.* 23: 683-692.
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34. Millar, R. B., and Anderson, M. J. 2004. Remedies for pseudoreplication. *Fish. Res.* 70: 397-407.
35. Broadhurst, M. K., Millar, R. B., Kennelly, S. J., MacBeth, W. G., Young, D. J. and Gray, C. A. 2004. Selectivity of conventional diamond- and novel square-mesh codends in an Australian estuarine prawn-trawl fishery. *Fish. Res.* 67: 183-194.
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41. Willis, T. J., Millar, R. B., Babcock, R. C. and Tolimieri, N. 2003. Burdens of evidence and the benefits of marine reserves for fishery management: putting Descartes before des horse? *Env. Cons.* 30: 97-103.
42. Millar, R. B, and Methot, R. D. 2002. Age structured meta-analysis of U. S. West Coast rockfish populations and hierarchical modeling of trawl survey catchabilities. *Can. J. Fish. Aquat. Sci.* 59: 383-392.
43. Akroyd, J. M., Walshe, K. A. R. and Millar, R. B. 2002. Abundance, distribution, and size structure of toheroa (*Paphies ventricosum*) at Ripiro Beach, Dargaville, Northland. *N. Z. J. Mar. Fresh. Res.* 36: 547-553.
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49. Millar, R. B. 2000. Untangling the confusion surrounding the estimation of gillnet selectivity. *Can. J. Fish. Aquat. Sci.* 57: 507-511.
50. Millar, R. B. and Meyer, R. 2000. Non-linear state space modelling of fisheries biomass dynamics by using Metropolis-Hastings within-Gibbs sampling. *J. Royal. Stat. Soc. Ser. C Appl. Stat.* 49: 327-342.
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55. Millar, R. B., and Willis, T. J. 1999. Estimating the relative density of snapper in and around a marine reserve using a log-linear mixed effects model. *Aust. NZ. J. Stat.* 41: 383-394.
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58. McClatchie, S., Millar, R. B., Webster, F., Lester, P.J., Hurst, R. and Bagley, N. 1997. Demersal fish community diversity off New Zealand: Is it related to depth, latitude and regional surface phytoplankton? *Deep-Sea Res. Part 1.* 44: 647-668.
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61. Millar, R. B., and Hoenig, J. M. 1997. A generalized model for estimating the intermolt time of asynchronously molting insects and crustacea. *J. Agric. Biol. Stat.* 2: 389-402.
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72. Millar, R. B. 1992. Modelling the effect of environment on growth of cod. *ICES J. mar. Sci.* 49: 289-296.
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Refereed conference proceedings:

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Monographs:

83. Xiao, Y., Punt, A. E., Millar, R. B., and Quinn II T. J. (Editors). 2004. Models in Fisheries Research: GLMs, GAMs and GLMMs. *Fish Res. Spec. Issue.* 70. 287 p.
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Books:

Millar, R. B. In prep. Applied likelihood methods: with examples in R and SAS. Wiley, London. Due for completion Dec 2009.

Other scholarly publications:

89. Broadhurst, M. K., Uhlmann, S. S., Millar, R. B., and Brand, C. P. 2009. Maximising the survival of bycatch discarded by commercial estuarine fishers in New South Wales, Australia. Poster presented at the Annual Science Conference, International Council Explor. Sea, 21-25 September, Berlin, Germany.

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