

Grant Ballard

EDUCATION

- University of Auckland, Auckland, NZ. PhD (2010): Ecology, Evolution and Behaviour.
- Cornell University, Ithaca NY. English. BA (1989): English

APPOINTMENTS

- 2007 – present – Informatics Division Director, Antarctic Program Leader, Climate Change Initiative Leader - PRBO Conservation Science
- 2006 – 2007 - Senior Conservation Scientist and Informatics Program Director, PRBO.
- 1994 - 2006. Senior biologist, data manager, and analyst, PRBO.
- 1996 - 2002. Senior biologist, H.T. Harvey and Associates (Adélie Penguin Project), San Jose, CA and Antarctica.
- 1992 - 1997. Field supervisor, Upper Sacramento River project, PRBO.

SELECTED CURRENT AND RECENT PROJECTS

- 2010-2015: (co-PI) Adélie penguin response to climate change at the individual, colony and metapopulation levels – funded by National Science Foundation
- 2010-2011: (PI) How do we monitor the ecological consequences of climate change? Developing an Environmental Change Network in the California Landscape Conservation Cooperative – funded by US Fish and Wildlife Service
- 2010-2011: (PI) Tidal Marsh Bird Population and Habitat Assessment for SF Bay Under Future Climate Change Conditions – funded by US Fish and Wildlife Service.
- 2010-2012: (co-PI) Preparing for Sea-Level Rise Along the San Francisco Bay Area's Outer Coast – funded by NOAA -SARP
- 2007-2009: (co-PI) Antarctic Penguins, Teaching the Science of Climate Change: A Celebration of IPY - funded by National Science Foundation.
- 2006-2010: (co-PI) Multi-scaled data in ecology: Scale dependent patterns in the environment - funded by National Science Foundation.
- 2002-2010: (co-PI) Geographic structure of Adélie Penguin populations: demography of population expansion - funded by National Science Foundation.
- 2002-2006: (co-PI) Songbird population responses to riparian management and restoration at multiple scales: comparative analysis, predictive modeling, and the evaluation of monitoring programs - funded by the CalFed Bay-delta program.

PEER REVIEWED PUBLICATIONS (2009 – 2010; full list available)

- Ainley D. G., G. Ballard, L. K. Blight, S. Ackley, S. D. Emslie, A. Lescroël, S. Olmastroni, S. E. Townsend, C. T. Tynan, P. Wilson, E. Woehler. 2009. Impacts of cetaceans on the structure of southern ocean food webs. *Marine Mammal Science* 26(2):482-498.
- Ainley D. G., G. Ballard, S. Olmastroni. 2009. An Apparent Decrease in the Prevalence of “Ross Sea Killer Whales” in the Southern Ross Sea. *Aquatic Mammals* 35:335-347.
- Ballance, L.T., D.G. Ainley, G. Ballard, K. Barton. 2009. An energetic correlate between colony size and foraging effort in seabirds, an example of the Adélie penguin *Pygoscelis adeliae*. *Journal of Avian Biology* 40:279-288.
- Ballard, G., K.M. Dugger, N. Nur, D.G. Ainley. 2010. Foraging strategies of Adélie penguins: adjusting body condition to cope with environmental variability. *Marine Ecology Progress Series* 405: 287–302.
- Ballard, G., V. Toniolo, D.G. Ainley, C.L. Parkinson, K.R. Arrigo, P.N. Trathan. 2010. Responding to climate change: Adélie penguins confront astronomical and ocean boundaries. *Ecology* 91(7):2056-2069.

- Dugger, K.M., D.G. Ainley, P.O'B. Lyver, K. Barton and G. Ballard. 2010. Survival differences and the effect of environmental instability on breeding dispersal in an Adélie penguin meta-population. PNAS; www.pnas.org/cgi/doi/10.1073/pnas.1000623107.
- Iliff, M., L. Salas, E. Ruelas Inzunza, G. Ballard, D. Lepage, and S. Kelling. 2009. The Avian Knowledge Network: A Partnership to Organize, Analyze, and Visualize Bird Observation Data for Education, Conservation, Research, and Land Management. In Rich, T.D., D. Demarest and C. Thompson [eds.]. *Tundra to Tropics: Connecting Birds, Habitats, and People*. Proceedings of the 4th International Partners In Flight Conference, 13-16 February 2008. McAllen, TX. Partners In Flight.
- Kelling, S., W.M. Hochachka, D. Fink, M. Riedewald, R. Caruana, G. Ballard, G. Hooker. 2009. Data Intensive Science: A New Paradigm for Biodiversity Studies. *Bioscience* 59:613-620.
- Lescroël, A., G. Ballard, V. Toniolo, K. J. Barton, P. R. Wilson, P.O'B. Lyver, & D.G. Ainley. 2010. Working less to gain more: when breeding quality relates to foraging efficiency. *Ecology* 91(7):2044-2055.
- Lescroël, A., K.M. Dugger, G. Ballard, D.G. Ainley. 2009. Effects of individual quality, reproductive success, and environmental variability on survival of a long-lived seabird. *Journal of Animal Ecology* 78:798-806.
- Stephens J., D. Hanni, J.D. Alexander, G. Ballard, G.R. Geupel and B.L. Sullivan. 2009. The Avian Knowledge Alliance: A network of nongovernmental organizations working together on bird conservation. In Rich, T.D., D. Demarest and C. Thompson [eds.]. *Tundra to Tropics: Connecting Birds, Habitats, and People*. Proceedings of the 4th International Partners In Flight Conference, 13-16 February 2008. McAllen, TX. Partners In Flight.
- Sullivan, B. L., S. T. Kelling, C. L. Wood, M. J. Iliff, D. Fink, M. Herzog, D. Moody, and G. Ballard. 2009. Data Exploration through Visualization Tools. In Rich, T.D., D. Demarest and C. Thompson [eds.]. *Tundra to Tropics: Connecting Birds, Habitats, and People*. Proceedings of the 4th International Partners In Flight Conference, 13-16 February 2008. McAllen, TX. Partners In Flight.