

Peer-reviewed Journal Publications

- Arnold, J.M.** and Oswald, S.A. In press. *First confirmed record of a Common Tern *Sterna hirundo* breeding at one year of age.* Bird Study.
- Oswald, S.A., **Arnold, J.M.**, Hatch, J.J., and Nisbet, I.C.T. 2012. *Piracy at the nest: Factors driving kelp-toparasitic behaviour of Common Tern *Sterna hirundo* chicks.* Acta Ornithologica 47 (1): 95-100.
- Oswald, S.A., Nisbet, I.C.T., Chiaradia, A. and **Arnold, J.M.** 2012. *FlexParamCurve: R package for flexible fitting of nonlinear parametric curves.* Methods in Ecology and Evolution 3(6): 1073-1077.
- Oswald, S.A. and **Arnold, J.M.** 2012. *Direct impacts of climatic warming on heat stress in endothermic species: seabirds as bioindicators of changing thermoregulatory constraints.* Integrative Zoology 7(2): 121-136.
- Palestis, B.G., Nisbet, I.C.T., Hatch, J.J., **Arnold, J.M.**, and Szczys, P. 2012. Tail length and sexual selection in a monogamous, monomorphic species, the Roseate Tern, *Sterna dougallii*. Journal of Ornithology 153(4): 1153-1163.
- Arnold, J.M.**, Nisbet, I.C.T. and Viet, R. 2011. *Assessing aural and visual cues as tools for seabird management.* Journal of Wildlife Management 75: 495-500.
- Arnold, J.M.**, Ordonez, R.*, Copeland, D.A.*, Nathan, R., Scornavacchi, J.M.*, Tyerman, D.J., and Oswald, S.A. 2011. *Simple and inexpensive devices to measure heart rate in incubating birds.* Journal of Field Ornithology 82: 288-296.
- Oswald, S.A., Huntley, B., Collingham, Y.C., Russell, D. J., Anderson, B. J., **Arnold, J.M.**, Furness, R.W. and Hamer, K.C. 2011. *Physiological effects of climate on distributions of endothermic species.* Journal of Biogeography 38: 430-438.
- Arnold, J.M.**, Oswald, S.A., Voigt, C.C., Palme, R., and Becker, P.H. 2008. *Taking the stress out of blood collection: A comparison of field blood-sampling techniques for analysis of baseline corticosterone.* Journal of Avian Biology 39: 588-592.
- Finkelstein, M., Bakker, V., Doak, D., Sullivan, B., Lewison R., Satterthwaite, W.H., McIntyre, P.B., Wolf, S., Priddel, D., **Arnold, J.**, Henry, R.W., Sievert, P., and Croxall, J. 2008. *Evaluating the potential effectiveness of compensatory mitigation strategies for marine bycatch.* PLoS ONE 3(6): e2480 (11 pages).
- Doak, D., Bakker, V., Finkelstein, M., Sullivan, B., Lewison, R., Keitt, B., **Arnold, J.**, Croxall, J., Micheli, F., and Sanjayan, M. 2007. *Compensatory mitigation for marine bycatch will do harm, not good.* Frontiers in Ecology and the Environment 5(7): 350-351.
- Arnold, J.M.**, Sabom, D.E., Nisbet, I.C.T., and Hatch, J.J. 2006. *Patterns of nocturnal desertion by incubating common terns studied using temperature sensors in the nest.* Journal of Field Ornithology 77(4): 384-391.
- Arnold, J.M.**, Brault, S., and Croxall, J.P. 2006. *Albatross populations in peril? A long-term population trajectory for the black-browed albatrosses at South Georgia.* Ecological Applications 16: 419-432.

- Becker, P.H., Voigt, C.C., **Arnold, J.M.**, and Nagel, R. 2006. *A non-invasive technique to bleed incubating birds without trapping: a blood-sucking bug in a hollow egg*. Journal of Ornithology 147: 115-118.
- Koons, D.N., Grand, J.B., and **Arnold, J.M.** 2006. *Population momentum across vertebrate life history strategies*. Ecological Modelling 197: 418-430.
- Arnold, J.M.**, Hatch, J.J., and Nisbet, I.C.T. 2005. *The effect of egg mass, parental quality, and hatch-date on growth and survival of common tern chicks*. Ibis 148: 98-105.
- Oswald, S.A., **Arnold, J.M.**, Hatch, J.J., and Nisbet, I.C.T. 2005. *Effect of intraspecific interactions on seasonal decline in productivity of common terns (Sterna hirundo)*. Bird Study 52: 70-79.
- Arnold, J.M.**, Hatch, J.J., and Nisbet, I.C.T. 2004. *Seasonal declines in reproductive success for the common tern: timing or parental quality?* Journal of Avian Biology 35: 33-45.
- Nisbet, I.C.T., **Arnold, J.M.**, Galbraith, H.A., and Hatch, J.J. 2004. *Responses of breeding birds to handicapping: a field study of known-aged common terns Sterna hirundo and a critique of previous handicapping studies*. Waterbirds 27: 13-20.
- Arnold, J.M.**, Nisbet, I.C.T., and Hatch, J.J. 1998. *Are common terns really indeterminate layers? Responses to experimental egg removal*. Colonial Waterbirds 21: 81-86.

Articles in Review

- Oswald, S.A., Wails, C.N.*, Morey, B.E.*, **Arnold, J.M.**^P Caspian terns fledge a ring-billed gull chick: Successful waterbird adoption across taxonomic families. Waterbirds (submitted September 2012, peer-reviewed, 18 pages).

Software Development

- AvesModeler, Version 1.0. 2005. USGS Alaska Science Center and Alabama Cooperative Fish and Wildlife Research Unit, Auburn University.

Selected Other Publications

- Arnold, J.M.** and Oswald, S.A. 2012. Colonial waterbird research and monitoring at Gull Island, Presqu'ile Provincial Park in 2011. Report to Ontario Parks.
- Arnold, J.M.** and Oswald, S.A. 2008. Responses to comments on and addendum to the roseate tern population viability analysis. Appendix C in Cape Wind Energy Project Nantucket Sound Biological Assessment (Appendix G of the Final EIS). US Department of Interior Minerals Management Service.
- Arnold, J.M.** 2007. United States establishes the Northwest Hawaiian Islands Marine National Monument. Seabird Group Newsletter 103.
- Arnold, J.M.** 2007. Population viability for the roseate tern nesting in the Northwest Atlantic. Appendix 3.6-J. Cape Wind Energy Project Final Environmental Impact Report EOE #12643/Development of Regional Impact CCC #JR#20084. Prepared by Cape Wind Associates, LLC.

Arnold, J.M., Oswald, S.A., Limmer, B., and Becker, P.H. 2006. The role of age and condition in predicting survival for a long-lived seabird: A mark-recapture analysis of the common tern. *Journal of Ornithology* 147 (Supp 1): 85 (published abstract).

Arnold, J.M. 2006. Northwest Hawaiian Islands Proclaimed National Monument. *Bird Calls* 10 (2): 1-2.

Brault, S. and **Arnold, J.M.** 2004. Population Viability for Roseate Tern and Piping Plover. 2004. In Appendix 5.7-H of Cape Wind Energy Project, Draft Environmental Impact Statement, Prepared by Cape Wind Associates, LLC.

Arnold, J.M., Boyce, J.A. and Bellmer, R.J. 2002. Damage Assessment and Restoration Planning for Marine Birds. National Ocean and Atmospheric Administration, National Marine Fisheries Service, NOAA Technical Memorandum NMFS-F/SPO-55. Environmental Assessment of the Point Au Fer CWPPRA Project, Phase III. June 1999. Prepared by Erik Zobrist, Jennifer Arnold, Richard Hartman, and John Foret.

Finlayson, C. and **Arnold, J.** 2007. Habitat #2: Open ocean/seabird nesting islands: Conservation Spotlight. Page 45. In Top 20 Most Threatened Bird Habitats in the US, American Bird Conservancy, VA, USA.

Modeling the recovery of avian populations, progress report 2004, ALCFWRU. Prepared by **Jennifer Arnold** and J. Barry Grand.

Modeling the recovery of avian populations, progress report 2003, ALCFWRU. Prepared by J. Barry Grand, **Jennifer Arnold**, David Koons, and Nitin Yogi.

The Coastal Wetlands Planning Protection and Restoration Act: Annual Report 1998. National Ocean and Atmospheric Administration, National Marine Fisheries Service.

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