

## **Katie M. Dugger**

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### **EDUCATION**

Undergraduate: B.S. Fisheries & Wildlife, Univ. of California, Davis - 1986.  
Graduate: M.S. Wildlife Ecology, University of Missouri, Columbia - 1991.  
Thesis: Population dynamics and reproductive success of Wood Ducks in Mingo Swamp.  
Ph.D. Wildlife Ecology, University of Missouri, Columbia - 1997. Dissertation: Foraging ecology and reproductive success of the interior Least Tern.

### **GENERAL RESEARCH INTERESTS**

Avian population ecology, particularly the estimation and modeling of survival rates and reproductive success as key elements in the conservation and management of species and their ecosystems. Also, the investigation of specific biotic and abiotic factors related to survival, reproduction and foraging ecology, with emphasis on the effects of climate and habitat characteristics.

### **CURRENT PROJECTS**

2010-present (co-PI). Adélie penguin response to climate change at the individual, colony and metapopulation levels. Funded by National Science Foundation.  
2010-present (PI). Demography of Northern Spotted Owls in Oregon and Washington. Funded by USDA Forest Service Pacific Northwest Region & Bureau of Land Management.  
2008-2011 (PI). Productivity of breeding Rusty Blackbirds in relation to food availability on the Copper River Delta, Alaska. Funded by USDA Forest Service Pacific Northwest Region & Alaska Department of Fish and Game.

### **PUBLICATIONS (Last 8 years)**

**In press.** Forsman, ED, RG Anthony, **KM Dugger**, EM Glenn, AB Franklin, GC White, CJ Schwarz, KP Burnham, DR Anderson, JD Nichols, JE Hines, JB Lint, RJ Davis, SH Ackers, LS Andrews, BL Biswell, PC Carlson, LV Diller, SA Gremel, DR Herter, JM Higley, RB Horn, JA Reid, J Rockweit, J Schaberel, TJ Snetsinger, and SG Sovern. Population demography of northern spotted owls. *Studies in Avian Biology* 0:000-000.

**2010. Dugger, KD**, DG Ainley, PO'B Lyver, KB Barton, G Ballard. Survival differences and the effect of environmental instability on breeding dispersal in an Adélie penguin meta-population. *Proceedings of the National Academy of Sciences* 107:12375-12380.

**2010.** Ballard, G, DG Ainley, **KM Dugger**, and N Nur. Foraging strategies of Adélie penguins: adjusting body condition to cope with environmental variability. *Marine Ecology Progress Series*. 405:287-302.

**2010.** Faaborg, J, TW Sherry, A Anders, K Bildstein, **KM Dugger**, S. Gauthreaux, P. Heglund, K.A. Hobson, DH Johnson, SC Latta, D Levey, P Marra, CL Merkord, E Nol, SI Rothstein, S Sillett, FR Thompson III, and N Warnock. Recent advances in understanding migration systems of New World landbirds. *Ecological Monographs* 80:3-48.

**2010.** Faaborg J, TW Sherry, A Anders, KL Bildstein, **KM Dugger**, S Gauthreaux, P Heglund, K Hobson, DH Johnson, SC Latta, DJ Levey, P Marra, CL Merkord, E Nol, SI Rothstein, TS Sillett, FR Thompson III, and N Warnock. Managing migratory landbirds in the New World: do we know enough? *Ecological Applications* 20:398-418.

2009. Ainley, DM, **KM Dugger**, RG Ford, SD Pierce, DC Reese, RD Brodeur, CT Tynan, JA Barth. The spatial association of predators and prey at frontal features in the northern California Current: Competition, facilitation, or merely co-occurrence? *Marine Ecology Progress Series* 389:271-294.
2009. Lesroel, A, **KM Dugger**, G Ballard, and DG 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.
2007. Ainley, DG, **KM Dugger**, V Toniolo, and I Gaffney. Cetacean occurrence patterns in the Amundsen and southern Bellingshausen Seas sector, Southern Ocean. *Marine Mammal Science* 23:287-305.
2007. Hagar, JC, **KM Dugger**, and EE Starkey. Diet of Wilson's warblers and distribution of arthropod prey in the understory of Douglas-fir forests. *Wilson Bulletin* 119:533-546.
2006. Ainley, DG, G Ballard, and **KM Dugger**. Competition among penguins and cetaceans reveals trophic cascades in the Western Ross Sea, Antarctica. *Ecology* 87:2080-2093.
2006. Anthony, RG, ED Forsman, AB Franklin, DR Anderson, KP Burnham, GC White, CJ Schwarz, JD Nichols, JE Hines, GS Olson, SH Ackers, S Andrews, BL Biswell, PC Carlson, LV Diller, **KM Dugger**, KE Fehring, TL Fleming, RP Gerhardt, SA Gremel, RJ Gutiérrez, PJ Happe, DR Herter, JM Higley, RB Horn, LL Irwin, PJ Loschl, JA Reid, SS Sovern. Status and trends in demography of Northern Spotted Owls, 1985-2003. *Wildlife Monographs* 163:1-47.
2006. **Dugger, KM**, G Ballard, DG Ainley, and K Barton. Effects of flipper-bands on apparent survival and foraging behavior of Adélie penguins. *The Auk* 123:858-869.
2006. Sheffield, LM, AE Gall, DD Roby, DB Irons, and **KM Dugger**. Monitoring planktivorous seabird populations: validating surface counts of crevice-nesting Auklets using mark-resighting. *Canadian Journal of Zoology* 84:846-854.
2005. Ainley, DG, G Ballard, BJ Karl, and **KM Dugger**. Leopard seal predation rates at penguin colonies of different size. *Antarctic Science* 17:335-340.
2005. **Dugger, KM**, FF Wagner, RG Anthony, GS Olson. The relationship between habitat characteristics and demographic performance of Northern Spotted Owls in southern Oregon. *Condor* 107:865-880.
2005. Olson, GS, RG Anthony, ED Forsman, SH Ackers, PJ Loschl, JA Reid, **KM Dugger**, EM Glenn, and WJ Ripple. Modeling of site occupancy dynamics of northern spotted owls in Oregon, including the effects of barred owl encroachment. *Journal of Wildlife Management* 69:918-932.
2004. **Dugger, KM**, J Faaborg, WJ Arendt, and KA Hobson. Understanding survival and abundance of overwintering warblers: does rainfall matter? *Condor* 106:744-760.
2004. Faaborg, J, WJ Arendt, and **KM Dugger**. Bird population studies in Puerto Rico using mist nets: general patterns and comparisons with point counts. *Studies in Avian Biology* 29:144-150.
2004. McCreedy, CD, KA Reynolds, CM Basile, MC Nicholson, **KM Dugger**, ME Gross, GM Mohr, Jr. Terrestrial animal species in the Hoosier-Shawnee ecological assessment area. Gen. Tech. Rep. NC-244. St. Paul, MN: U.S. Department. of Agriculture, Forest Service, North Central Research Station. 267 pp.
2003. Dugger, BD, and **KM Dugger**. Long-billed Curlew. Pages 224-226 in *Birds of Oregon: A general reference*. D. B. Marshall, M. G. Hunter, and A. L. Contreras, eds. Oregon State University Press, Corvallis, OR.
2002. Dugger, BD and **KM Dugger**. The long-billed curlew. In *The Birds of North America*, No. 628 (A. Poole, P. Stettenheim, and F. Gill, eds.). Philadelphia: The Academy of Natural Sciences; Washington, DC; The American Ornithologists' Union.
2002. **Dugger, KM**, MR Ryan, DL Galat, RR Renken, JW Smith. Reproductive success of the interior least tern (*Sterna antillarum*) in relation to hydrology on the Lower Mississippi River. *River Research and Application*. 18:97-105.