Curriculum Vitae – Short Version

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**CURRENT POSITION**

**Avian Ecologist/Senior Faculty Research Assistant**. Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR. 7/1/97-present.

The focus of my research has been on the distribution, abundance, nest-site characteristics, landscape associations, and nesting and foraging behavior of seabirds of the Pacific, including Marbled Murrelets, Long-billed Murrelets, Kittlitz’s Murrelets, Caspian Terns, and a variety of species at mixed seabird colonies in the Bering Sea. I have also studied seabird diet and productivity, contaminants in predators and prey, genetics/gene flow, and bird and mammal distribution, abundance and habitat use in forests, deserts, and prairies. Much of this work was conducted in coastal Oregon, but also in the Willamette Valley, Cascade Mountains and eastern Oregon, and coastal California, Washington, Alaska, and Japan.

Relevant experience applicable to a Marbled Murrelet Recovery Permit includes: (1) project development, logistics, coordination, and cooperation; (2) supervising research assistants, field techs, and students; (3) working with agencies, NGOs, Indian tribes, students, volunteers, and the public; (4) capturing, banding, measuring, and marking murrelets; (5) applying the latest research technology (e.g., telemetry, GPS) and handling techniques; (6) operating boats and flying in aircraft to track murrelets; (7) finding murrelet nests and supervising climbers in finding nests; (8) knowledge of ESA issues, migratory bird management and conservation, and laws and statutes related to migratory birds; (9) participating on scientific teams and as a technical advisor to develop management and policy guidelines; (10) describing, mapping, and modeling habitat characteristics; and (11) field work in remote environments.

This research was/is being funded by the U.S. Fish and Wildlife Service, U.S. Geological Survey, National Science Foundation, Alaska Department of Fish and Game, National Park Service, Oregon Department of Fish and Wildlife, U.S. Forest Service, Bureau of Land Management, Oregon Department of Forestry, Oregon Parks and Recreation Department, National Council for Air and Stream Improvement (NCASI), Confederated Tribes of the Siletz, Bonneville Power Administration, U.S. Army Corps of Engineers, and various NGOs in the U.S. and Japan.

**EDUCATION**

MSc Wildlife Ecology, Oregon State University, Corvallis, OR, June 1989.

Post-Baccalaureate classes, Fisheries and Wildlife, Oregon State University, Corvallis, OR

 1982-1983.

BA Business Administration and Art History, Lewis and Clark College, Portland, OR, August 1980.

**SAMPLING OF RECENT PUBLICATIONS**

Raphael, M.G., G.A. Falxa, D. Lynch, **S.K. Nelson**, S.F. Pearson, A.J. Shirk, and R.D. Young (alphabetical order after Falxa). In press. Status and trend of nesting habitat for the Marbled Murrelet under the Northwest Forest Plan. Chapter 2. Pages X-X in Falxa, G.A. and M.G. Raphael, Tech. Eds. Northwest Forest Plan-The First Twenty Years (1994-2013): Status and Trend of Marbled Murrelet Populations and Nesting Habitat. U.S. Department of Agriculture, Forest Service, General Technical Report PNW-GTR- 927, Portland, OR. XXpp.

Raphael, M.G., A.J. Shirk, G.A. Falxa, D. Lynch, **S.K. Nelson**, S.F. Pearson, C. Strong, and R.D. Young (alphabetical order after Falxa). In press. Factors Influencing Status and Trend of Marbled Murrelet Populations: An Integrated Perspective. Chapter 3. Pages X-X in Falxa, G.A. and M.G. Raphael, Tech. Eds. Northwest Forest Plan-The First Twenty Years (1994-2013): Status and Trend of Marbled Murrelet Populations and Nesting Habitat. U.S. Department of Agriculture, Forest Service, General Technical Report PNW-GTR- 927, Portland, OR. XXpp.

Barbaree, B.A., **S.K. Nelson**, and B.D. Dugger. 2015. Marine space use by Marbled Murrelets *Brachyramphus marmoratus* at a mainland fjord system in Southeast Alaska. Marine Ornithology 43:1-10.

Hagar, J.C., B.N.I. Eskelson, P.K. Haggerty, **S.K. Nelson**, and D.G. Vesely. 2014. Modeling Marbled Murrelet habitat using LIDAR-derived canopy data. Wildlife Society Bulletin DOI: 10.1002/wsb.407.

Barbaree, B.A., **S.K. Nelson**, B.D. Dugger, D.D. Roby, H.R. Carter, D.L. Whitworth, and S.H. Newman. 2014. Nesting ecology of Marbled Murrelets at a remote mainland fjord in Southeast Alaska. Condor 116:173-184.

Haynes, T.B., **S.K. Nelson**, and V.M. Padula. 2011. Dynamics of multi-species feeding associations in marine waters near Juneau, Alaska. Marine Ornithology 39:227-234.

Haynes, T.B., **S.K. Nelson**, F. Poulson, and V.M. Padula. 2011. Spatial distribution and habitat use of Marbled Murrelets *Brachyramphus marmoratus* at sea in Port Snettisham, Alaska. Marine Ornithology 39:151-162.

Raphael, M.G., G.A. Falxa, K.M. Dugger, B.M. Galleher, D. Lynch, S.L. Miller, **S.K. Nelson**, and R.D. Young (in alphabetical order after Falxa). 2011. Northwest Forest Plan – the first 15 years (1994-2008): Status and trend of nesting habitat for the Marbled Murrelet. U.S. Department of Agriculture, Forest Service, General Technical Report PNW-GTR- 848, Portland, OR. 52pp.

Haynes, T.B., **S.K. Nelson,** and S.H. Newman. 2010. Diel shifts in the marine distribution of Marbled Murrelets near Port Snettisham, Southeast Alaska. Waterbirds 33:471-478.

Peery, M.Z.,L.A. Hall, A. Sellas, S.R. Beissinger,C. Moritz,M. Bérubé, M.G. Raphael,**S.K. Nelson**,R.T. Golightly,L. McFarlane-Tranquilla, S. Newman, Per J. Palsbøll. 2010. Genetic analysis of historic and modern Marbled Murrelets suggest decoupling of migration and gene flow after habitat fragmentation. Proceedings of the Royal Society Biological Sciences 277:697-706.

Hall, L.A., P.J. Palsbøll, S.R. Beissinger, J.T. Harvey, M. Bérubé, M.G. Raphael, **S.K. Nelson**, R.T. Golightly, L. McFarlane-Tranquilla, S.H. Newman, and M.Z. Peery. 2009. Characterizing dispersal patterns in a threatened seabird with limited genetic structure. Molecular Ecology 18:5074-5085.

**Nelson, S.K.**, M.H. Huff, S.L. Miller, and M.G. Raphael. 2006. Marbled Murrelet biology, habitat relations and populations. Pages 9-30 *in* Huff, M.H., M.G. Raphael, S.L. Miller, S.K. Nelson, and J. Baldwin, tech. coords. Northwest Forest Plan—The first 10 years (1994-2003): status and trends of populations and nesting habitat for the Marbled Murrelet. U.S. Department of Agriculture, Forest Service, General Technical Report PNW-GTR-650, Portland, OR.

Huff, M.H., M.G. Raphael, S.L. Miller, **S.K. Nelson**, J. Baldwin, R.D. Young, M. Brown, and D. Evans-Mack. 2006. Estimating the amount of Marbled Murrelet nesting habitat on federal lands by using a systematic grid sampling strategy. Pages 61-95 *in* Huff, M.H., M.G. Raphael, S.L. Miller, S.K. Nelson, and J. Baldwin, tech. coords. Northwest Forest Plan—The first 10 years (1994-2003): status and trends of populations and nesting habitat for the Marbled Murrelet. U.S. Department of Agriculture, Forest Service, General Technical Report PNW-GTR-650, Portland, OR.

Raphael, M.G., B. Galleher, M.H. Huff, S.L. Miller, **S.K. Nelson**, and R.D. Young (in alphabetical order after Raphael).2006. Spatially-explicit estimates of potential nesting habitat for the Marbled Murrelet. Pages 97-146 *in* Huff, M.H., M.G. Raphael, S.L. Miller, S.K. Nelson, and J. Baldwin, tech. coords. Northwest Forest Plan—The first 10 years (1994-2003): status and trends of populations and nesting habitat for the Marbled Murrelet. U.S. Department of Agriculture, Forest Service, General Technical Report PNW-GTR-650, Portland, OR.

McShane, C., T. Hamer, H. Carter, G. Swartzman, V. Friesen, D. Ainley, R. Tressler, **K. Nelson** [et al.]. 2004. Evaluation report for the 5-year status review of the Marbled Murrelet in Washington, Oregon, and California. U.S. Fish and Wildlife Service, Region 1, Portland, OR.

Ripple, W.J., **S.K. Nelson**, and E.M. Glenn. 2003. Forest landscape patterns around Marbled Murrelet nest sites in the Oregon Coast Range. Northwestern Naturalist 84:80-89.

Newman, S.H., **S.K. Nelson**, J. Y. Takekawa, E.E. Burkett, and R.T. Golightly. 2000. An improved radio attachment technique for a variety of marine bird species. Pages 415-425 *in* J.H. Eiler, D.J. Alcorn, and M.R. Neuman, eds. Biotelemetry 15: Proceedings of the 15th International Symposium on Biotelemetry, Juneau, AK, International Society of Biotelemetry, Wageningen, The Netherlands.

Whitworth, D.L., **S.K. Nelson**, S.H. Newman, G.B. Van Vliet, and W.P. Smith. 2000. Foraging distances of radio-marked Marbled Murrelets from inland areas in southeast Alaska. Condor 102: 452-456.

De Santo, T.L. and **S.K. Nelson**. 1995. Comparative reproductive ecology of the Auks (Family Alcidae) with emphasis on the Marbled Murrelet. Pages 33-48 *in* C.J. Ralph, G.L. Hunt, Jr., M.G. Raphael, and J.F. Piatt, eds. Ecology and conservation of the Marbled Murrelet. U.S. Department of Agriculture, Forest Service, General Technical Report PSW-GTR-152, Albany, CA.

Hamer, T.E. and **S.K. Nelson**. 1995. Nesting chronology of the Marbled Murrelet. Pages 49-56 *in* C.J. Ralph, G.L. Hunt, Jr., M.G. Raphael, and J.F. Piatt, eds. Ecology and conservation of the Marbled Murrelet. U.S. Department of Agriculture, Forest Service, General Technical Report PSW-GTR-152, Albany, CA.

**Nelson, S.K.** and T.E. Hamer. 1995. Nesting biology and behavior of the Marbled Murrelet. Pages 57-68 *in* C.J. Ralph, G.L. Hunt, Jr., M.G. Raphael, and J.F. Piatt, eds. Ecology and conservation of the Marbled Murrelet. U.S. Department of Agriculture, Forest Service, General Technical Report PSW-GTR-152, Albany, CA.

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Grenier, J.J. and **S.K. Nelson**. 1995. Marbled Murrelet habitat associations in Oregon. Pages 191-204 *in* C.J. Ralph, G.L. Hunt, Jr., M.G. Raphael, and J.F. Piatt, eds. Ecology and conservation of the Marbled Murrelet. U.S. Department of Agriculture, Forest Service, General Technical Report PSW-GTR-152, Albany, CA.

**Nelson, S.K.** and R.W. Peck. 1995. Behavior of the Marbled Murrelet at nine nest sites in Oregon. Pages 43-53 *in* **S.K. Nelson** and S.G. Sealy, eds. Biology of the Marbled Murrelet: Inland and At-Sea. Northwestern Naturalist 76(1).

**Nelson, S.K.** and S.G. Sealy, eds. 1995. Biology of the Marbled Murrelet: Inland and At-Sea. Northwestern Naturalist 76(1).

Peck, R.W., **S.K. Nelson**, T.L. DeSanto. 1994. Tree climbing as a technique for locating Marbled Murrelet nests. Northwest Science 68(2):143.