

Heather M. Renner
Curriculum Vitae

Supervisory Wildlife Biologist (GS-13), Alaska Maritime National Wildlife Refuge, 95 Sterling Highway
Suite 1, Homer AK 99603. (907) 226-4623; E-mail: heather_renner@fws.gov

Education

M.Sc., Wildlife Ecology, Cornell University, January 2000

Thesis topic: Population ecology and nesting biology of Yellow Wagtails

B.A., Biology, Colorado College, December 1994

Relevant Work Experience

March 2000 – current: Wildlife Biologist, USFWS, Alaska Maritime National Wildlife Refuge.

Current: Supervisory Wildlife Biologist (GS-13)

2008-2011: Bering Sea Unit Biologist (GS-12)

2004-2008: Alaska Peninsula Unit Biologist (GS-11)

2000-2004: Wildlife Biologist (GS-9)

Since 2011, I have served as the supervisory wildlife biologist for the Alaska Maritime NWR. This involves leading a large biological program on one of the most prestigious refuges, supervising 9 permanent biologists, and managing a \$650K budget. I also provide technical input and briefings to regional and local management. Major projects include implementing the refuge's long-term biological inventory and monitoring program on nine annual and dozens of periodic sites, supporting a marine research program with dozens of partners, and restoration projects involving introduced species eradication.

January 1998-December 1999: Teaching assistant, Cornell University.

May-October 1997: Biological Science Technician, USFWS, Yukon Delta NWR

April-May 1997: Field Events Coordinator, Kachemak Bay Shorebird Festival, Homer, AK. **February 1995-January 1997:** Wildlife Biologist, USFWS, Alaska Peninsula/Becharof National Wildlife Refuge.

May-September 1994: Biologist Trainee, USFWS, Togiak NWR, based at Cape Peirce.

May-August 1993: Biological Science Technician, USFWS, Kenai Fishery Resource Office.

May-August 1992: Biological Science Technician, USFWS, Fisheries Management Services.

May-August 1991: Biological Science Technician, USFWS, Fisheries Lab, Anchorage AK.

Recent Publications

Renner, H.M., L.R. Walker, C.F. Waythomas, J.C. Williams and Y.B. Arthukin. 2017. Crevice-nesting auklets are early-successional species requiring disturbance to persist. *Arctic, Antarctic, and Alpine Research*: DOI: <http://dx.doi.org/10.1657/AAAR0017-051>

Renner, H.M., M.D. Romano, M. Renner, S. Pyare, M.I. Goldstein, and Y. Artukhin. 2015. Assessing the breeding distribution and population trends of the Aleutian tern *Onychoprion aleuticus*. *Marine Ornithology* 43: 179-187.

Paredes, R., R.A. Orben, D.D. Roby, D.B. Irons, R. Young, **H.M. Renner**, Y. Tremblay, A. Will, A.M.A. Harding and A.S. Kitaysky. 2015. Foraging ecology during nesting influences body size in a pursuit-diving seabird. *Marine Ecology Progress Series* 533: 261-276.

Renner, H.M., B.A. Drummond, A. Benson and R. Paredes. 2014. Reproductive success of kittiwakes and murre in sequential stages of the nesting period: Relationships with diet and oceanography. *Deep-Sea-Research II*.

- Paredes, R., R.A. Orben, R.M. Suryan, D.B. Irons, D.D. Roby, A.M.A. Harding, R.C. Young, K. Benoit-Bird, C. Ladd, **H.M. Renner**, S. Heppell, R.A. Phillips and A.S. Kitaysky. 2014. Foraging responses of black-legged kittiwakes to prolonged food shortages around colonies on the Bering Sea Shelf. *PLoS ONE* 93.
- Reynolds, J.H. and **H.M. Renner**. 2014. Using patch occupancy models to estimate area of crevice-nesting seabird colonies. *Condor* 116: 316-324.
- Harding, A.M.A., R. Paredes, R. Suryan, D. Roby, D.B. Irons, R. Orben, **H.M. Renner**, R. Young, C. Barger, I. Dorresteijn and A.S. Kitaysky. 2013. Does location really matter? An inter-colony comparison of seabirds breeding at varying distances from productive oceanographic features in the Bering Sea. *Deep-Sea Research II* 94:178-191.
- Pinchuk, A.I., K.O. Coyle, E.V. Farley and **H.M. Renner**. 2013. Emergence of the Arctic Themisto libellula (Amphipoda: Hyperiidae) on the southeastern Bering Sea shelf as a result of the recent cooling, and its potential impact on the pelagic food web. *ICES Journal of Marine Science*.
- Wright, S.K., G.V. Byrd, **H.M. Renner**, and A.L. SOWLS. 2013. Breeding ecology of Red-faced cormorants in the Pribilof Islands, Alaska. *Journal of Field Ornithology* 84: 49-57.
- Paredes, R., A.M.A. Harding, D.B. Irons, D.D. Roby, R.M. Suryan, R.A. Orben, **H.M. Renner**, R. Young and A.S. Kitaysky. 2012 Proximity to multiple foraging habitats enhances seabirds' resilience to local food shortages. *Marine Ecology Progress Series* 471: 253-269.
- Renner, H.M.**, F. Mueter, B.A. Drummond, J.A. Warzbok and E.H. Sinclair. 2012. Patterns of change in diets of two piscivorous seabird species during 35 years in the Pribilof Islands. *Deep-Sea Research II* 65-70:273-291.
- Renner, H.M.**, J.H. Reynolds, M.Sims and M. Renner. 2011. Evaluating the power of surface attendance counts to detect trends in crevice-nesting auklets. *Environmental Monitoring and Assessment*. 177: 665-679
- Renner, H.M.** and M. Renner. 2010. Counting the countless: estimating the size of the least auklet colony on St. George Island, Alaska. *Western Birds* 41: 168-173.
- Byrd, G.V., W.J. Sydeman, **H.M. Renner**, and S. Minobe. 2008. Responses of piscivorous seabirds at the Pribilof Islands to ocean climate. *Deep-Sea Research II* 55: 1856-1867.
- Byrd, G.V., J.A. Schmutz and **H.M. Renner**. 2008. Contrasting population trends of piscivorous seabirds in the Pribilof Islands: A 30-year perspective. *Deep-Sea Research II* 55: XXX-YYY.
- Renner, H.M.**, and B.J. McCaffery. 2008. Demography of Yellow Wagtails at Cape Romanzof, Alaska. *Wilson Journal of Ornithology* 120: 85-91.
- Renner, H.M.**, and B.J. McCaffery. 2006. Nesting biology of Yellow Wagtails at Cape Romanzof, Alaska. *Journal of Field Ornithology* 77: 250-258.
- Renner, H.M.**, M. Renner, J.H. Reynolds, A.M.A. Harding, I.L. Jones, D.B. Irons and G.V. Byrd. 2006. Colony mapping: a new technique for monitoring crevice-nesting seabirds. *Condor* 108: 423-434.
- Benter, R.B., **H.M. Renner**, and M. Renner. 2005. First record of a Shy Albatross for Alaska. *Western Birds* 36: 135-137.
- Byrd, G.V., **H.M. Renner** and M. Renner. 2005. Distribution patterns and population trends of breeding seabirds in the Aleutian Islands. *Fisheries Oceanography* 14 (Suppl. 1): 139-159.

COLLABORATORS

During the past four years, I have collaborated with the following on proposals and papers: Yuri Artukhin (Russian Academy of Sciences), Anna-Marie Benson (USFWS), Mike Goldstein (USFS), Ann Harding (Alaska Pacific Univ.), David Irons (USFWS), Alexander Kitaysky (Univ. Alaska, Fairbanks), Kathy Kuletz (USFWS), Franz Mueter (U. Alaska, Juneau), Rosana Paredes (Oregon State Univ.), Sanjay Pyare (University of Alaska Southeast), Martin Renner (Tern Again Consulting), Joel Reynolds (USFWS), Dan Roby (Oregon State Univ.), Joel Schmutz (USGS), William Sydeman (Farallon Institute).