

## LITERATURE REPORTING RESEARCH DONE ON PROTECTION ISLAND AND THE SAN JUAN ISLANDS

**Includes published papers and theses reporting unpublished research**

- Amlaner, C. J. Aggressive communication by *Larus glaucescens*. Part VI: Interactions of territory residents with a remotely controlled, locomotory model. *Behaviour* 66:223-251.
- Amlaner, C. J., J. L. Hayward, E. R. Schwab, and J. F. Stout. 1977. Increases in a population of nesting glaucous-winged gulls disturbed by humans. *Murrelet* 58: 18-20.
- Ashton, N. 1994. Size and behavior tempo among five species of gulls. M.S. thesis, Andrews University, Berrien Springs, Michigan.
- Ball, N. J., C. J. Amlaner, J. P. Shaffery, and M. R. Opp. 1988. Asynchronous eye-closure and unihemispheric quiet sleep of birds. *Sleep* (Stuttgart) 1986:151-153.
- Banks, J. C. 1981. A comparative breeding study of the pigeon guillemot (*Cephus columba*) on Kainem Point, Protection Island, Washington. M.S. thesis, Andrews University, Berrien Springs, Michigan.
- Bell, D. A. 1996. Genetic differentiation, geographic variation and hybridization in gulls of the *Larus glaucescens-occidentalis* complex. *Condor* 98:527-546.
- Bell, D. A. 1997. Hybridization and reproductive performance in gulls of the *Larus glaucescens-occidentalis* complex. *Condor* 99:585-594.
- Clayburn, J. 1996. Taphonomic effects of pH and temperature on glaucous-winged gull (*Larus glaucescens*) eggshell. M.S thesis, Andrews University, Berrien Springs, Michigan.
- Clayburn, J. K., D. L. Smith, and J. L. Hayward. 2004. Taphonomic effects of pH and temperature on extant avian dinosaur eggshell. *Palaios* 19:170-177.
- Colburn, J. 2004. Behavior of juvenile glaucous-winged gulls (*Larus glaucescens*) related to brood size and period of play. M.S. thesis, Walla Walla College, College Place, Washington.
- Cowles, D. L., and J. L. Hayward. 2008. Historical changes in the physical and vegetational characteristics of Protection Island, Washington. *Northwest Science* 82:174-184.

Damania, S., K.W. Phillips, J.L. Hayward, and S.M. Henson. Habitat patch occupancy dynamics in glaucous-winged gulls (*Larus glaucescens*) II: A continuous-time model. *Natural Resource Modeling* 18:441-468.

- Giver, K. J. 1996. Pellet content analysis of egg specialist and non-egg specialist glaucous-winged gulls, *Larus glaucescens*. Undergraduate honors thesis, Andrews University, Berrien Springs, Michigan.
- Hayward, J. L. 2003. Sexual aggression by a male northern elephant seal on harbor seal pups in Washington. *Northwestern Naturalist* 84:148-150.
- Hayward, J. L. 2009. Eagle predation on harbor seal pups. *Northwestern Naturalist* 90:51-53.
- Hayward, J. L., C. J. Amlaner, W. H. Gillett, and J. F. Stout. 1975. Predation on nesting gulls by a river otter in Washington state. *Murrelet* 56:9, 10.
- Hayward, J. L., and J. K. Clayburn. Dead rhinoceros auklet fledglings fly to the sea from

Hayward, J. L., D. K. Zelenitsky, D. L. Smith, D. M. Zaft, and J. K. Clayburn. 2000.  
Eggshell taphonomy at modern gull colonies and a dinosaur clutch site. *Palaios*  
15:343-355.

Henson, S. M., B. Dennis, J. L. Hayward, J. M. Cushing, and J. G. Galusha. 2007.  
Predicting the dynamics of animal behaviour in field populations.

- Moore, A. L., S. P. Damania, J. L. Hayward, and S. M. Henson. 2008. Modeling the daily activities of breeding colonial seabirds: Dynamic occupancy patterns in multiple habitat patches. *Mathematical Biosciences and Engineering* 5:831-842.
- Murdoch, M. 1993. Factors affecting behavioral variation of individual Glaucous-winged Gulls (*Larus glaucescens*) while on territory. M.S. thesis, Loma Linda University, Loma Linda, CA.
- Nestler, J. 1985. Auditory arousal thresholds and sleep in glaucous-winged gulls (*Larus glaucescens*). M.S. thesis, Walla Walla College, College Place, Washington.
- Northam, M. 2001. Analysis of preening behavior in Glaucous-winged Gulls, (*Larus glaucescens*). M.S. thesis, Walla Walla College, College Place, Washington.
- Olango, J. 1998. Time budgets and behavior of glaucous-winged gull (*Larus glaucescens*) chicks in a breeding colony. M.S. thesis, Walla Walla College, College Place, Washington.
- Opp, M. R. 1983. Daily and seasonal activity patterns and spatial utilization of territory by glaucous-winged gulls (*Larus glaucescens*). M.S. thesis, Walla Walla College, College Place, Washington.
- Opp, M. R., N. J. Ball, D. E. Miller, and C. J. Amlaner. 1987. Thermoregulation and sleep effects of thermal-stress on sleep patterns of glaucous-winged gulls (*Larus glaucescens*). *Journal of Thermal Biology* 12:199-202.
- Pearson, D. 1992. Habitat, diurnal, and tidal effects on the behavior of glaucous-winged gulls (*Larus glaucescens*). M.S. thesis, Loma Linda University, Loma Linda, California.
- Phillips, K.W., S. Damania, J.L. Hayward, S.M. Henson, and C.J. Logan. 2005. Habitat patch occupancy dynamics in glaucous-winged gulls (*Larus glaucescens*) I: A discrete-time model. *Natural Resource Modeling* 18:469-498.
- Rasmussen, P.C. 1993. Feather growth patterns and sibling growth rates of nestling Pigeon Guillemots (*Cepphus columba*) on Protection Island, Washington. M.S. thesis, Walla Walla College, College Place, Washington.
- Reid, W. V. 1987a. Constraints on clutch size in the glaucous-winged gull. *Studies in Avian Biology* 10:8-25.
- Reid, W. V. 1987b. The cost of reproduction in the glaucous-winged gull. *Oecologia* 74:458-467.
- Reid, W. V. 1988a. Age-specific patterns of reproduction in the glaucous-winged gull: increased effort with age.

- Reid, W. V. 1988b. Fledging success of experimentally enlarged broods of the glaucous-winged gull. *Wilson Bulletin* 100:476-482.
- Reid, W. V. 1988c. Population dynamics of the glaucous-winged gull. *Journal of Wildlife Management* 52:763-770.
- Richardson, F. 1961. Breeding biology of the rhinoceros auklet on Protection Island, Washington. *Condor* 63:456-473.
- Royer, S. J. 1995. Sequence analysis of the mate-greeting interaction in *Larus glaucescens* and *Larus argentatus*. M.S. thesis, Andrews University, Berrien Springs, Michigan.
- Salzer, D. W., and G. J. Larkin. 1990. Impact of courtship feeding on clutch and 3<sup>rd</sup> egg size in glaucous-winged gulls. *Animal Behaviour* 39:1149-1162.
- Schmidt, D. 1986. The numbers, distribution and behavior of glaucous-winged gulls (*Larus glaucescens*) at a sanitary landfill. M.S. thesis, Walla Walla College, College Place, Washington.
- Schultz, Z. 1951. Growth in the glaucous-winged gull, Part I. *Murrelet* 32:35-42.
- Schultz, Z. 1952. The growth of the glaucous-winged gull, Part II. *Murrelet* 33:2-8.
- Schwab, E. R., and J. F. Stout. 1991. Aggressive communication by *Larus glaucescens*. VII. The role of the intruder. *Behaviour* 117:161-181.
- Smith, D. L. 1998. Bacterial degradation of avian eggshell: taphonomic and ecological implications. M.S. thesis. Andrews University, Berrien Springs, Michigan.
- Speich, S. M., and T. R. Wahl. 1989. Catalog of Washington seabird colonies. US Fish and Wildlife Service Biological Report 88.
- Stout, J. F.. 1975. Aggressive communication by *Larus glaucescens*. Part III. Description of the displays related to territorial protection. *Behaviour* 55:181-208.
- Stout, J. F., and M. Brass. 1969. Aggressive communication by *Larus glaucescens*. Part II. Visual communication. *Behaviour* 34:42-54.
- Stout, J. F., C. R. Wilcox, and I. E. Creitz. 1969. Aggressive communication by *Larus glaucescens*. Part I. Sound communication. *Behaviour* 34:29-41.
- Thompson, S. P. 1989. Observations of bald eagles eating glaucous-winged gull eggs in western Washington. *Northwestern Naturalist* 70:13-14.

- Thompson, P., D. K. McDermond, U. W. Wilson, and K. Montgomery. 1985. Rhinoceros auklet burrow count on Protection Island, Washington. *Murrelet* 66:62-65.
- Thoresen, A. C., and J. G. Galusha. 1971. A nesting population study of some islands in the Puget Sound area. *Murrelet* 52:20-23.
- Van Scheik, B. 1980. The effects of nest parameters and parental aggressiveness on the survival of glaucous-winged gull chicks (*Larus glaucescens*). M.S. thesis, Walla Walla College, College Place, Washington.
- Wilson, N. J. 2006. What Glaucous-winged Gulls do together: behavior of pairs and neighbors. M.S. thesis, Walla Walla College, College Place, Washington.
- Wilson, U. W. 1977. A study of the biology of the rhinoceros auklet on Protection Island, Washington. M.S. thesis, University of Washington, Seattle. 98 p.
- Wilson, U. W. 1993. Rhinoceros auklet burrow use, breeding success, and chick growth – Gull-free vs gull-occupied habitat. *Journal of Field Ornithology* 64:256-261.
- Wilson, U. W., and D. A. Manuwal. 1986. Breeding biology of the rhinoceros auklet in Washington. *Condor* 88:143-156.