

FRED COOKE

Chair, Centre for Wildlife Ecology
Department of Biological Sciences
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CANADA

Canadian Wildlife Service
Pacific and Yukon Region
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Delta, B.C. V4K 3N2
CANADA

PERSONAL:

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EDUCATION:

B.A., Cambridge University, Nat. Sci. Tripos, 1960
M.A., Cambridge University, Nat. Sci. Tripos, 1964
Ph.D., Cambridge University, Botany, 1965

POSITIONS HELD:

Professor, Biology, Simon Fraser University, 1993-present
Professor, Biology, Queen's University, 1978-1993
Adjunct Professor, Biology, City University of New York, 1986-1993
Director, Queen's Tundra Biology Station, 1975-1993
Visiting Professor, University of East Anglia, U.K., 1985-87
Scientific Director, Churchill Northern Studies Centre, 1977-79
Associate Professor, Biology, Queen's University, 1970-78
Assistant Professor, Biology, Queen's University, 1966-70
Lecturer, Biology, Queen's University, 1965

RESEARCH INTERESTS:

As the CWS/NSERC Wildlife Ecology Research Chair, my mandate is to foster high quality graduate level research in the field of wildlife ecology, with specializations in behavioural, population and physiological ecology. The central concept is to provide an interface between the mission-oriented research and management policies of the Canadian Wildlife Service and the more curiosity-driven research of the university community. By encouraging this interface, the government agencies would gain access to a broader base of scientific information for government policy and decision making and university researchers would benefit from a broader practical application for the more theoretical ideas which their disciplines generate.

TEACHING EXPERIENCE:

Courses Taught - Introductory Genetics, Introductory Population Genetics, Advanced Population and Ecological Genetics, Advanced Population Ecology, Field Courses

Students Supervised - 19 Doctoral Students, 24 Masters Students

Current Graduate Students - 8 Doctoral Students, 4 Masters Students

HONOURS:

Member of the Order of Canada, February 2001
President-Elect, American Ornithologists Union, August 2000
Career Achievement Award, Confederation of University Faculty Associations/BC, 1999
Member of the Executive, Society of Canadian Ornithologists, 1998
Speaker, President's Faculty Lecture Series, Simon Fraser University, 1996
Member of the Executive, American Ornithologists' Union, 1996-97
Northern Studies Committee, Chair, Simon Fraser University, 1995-97
D. H. Speirs Award, Canadian Society of Ornithologists, 1993
Post Rouge, C.N.R.S. (France), 1992
Brewster Award, American Ornithologists' Union, 1990
NSERC Population Biology Review Committee, 1988-91
Prize for Excellence in Scientific Research, Queen's University, 1986
Killam Fellow, 1985 - 1987
Fellow, American Ornithologists' Union
Secretary - Treasurer, Association for Canadian Universities for Northern Studies
Corresponding Fellow, Deutsche Ornithologische Gesellschaft
Associate Editor, Canadian Journal of Zoology, 1983-84
NSERC Northern Logistics Committee, 1982-83

SOCIETY MEMBERSHIPS:

American Ornithologists' Union, Fellow
Deutsche Ornithologische Gesellschaft, Corresponding Fellow
Wilson Ornithological Society, Member
Cooper Ornithological Society, Member
British Ornithologists' Union, Member
Waterfowl Society, Member

REVIEWER FOR:

Animal Behaviour, American Naturalist, Auk, Science, Evolution, Canadian Journal of Zoology, Ibis, Journal of Wildlife Management, Journal of Field Ornithology, Wilson Bulletin, Condor
National Science and Engineering Research Council of Canada (NSERC), National Science Foundation (NSF), National Environment Research Council (NERC, U.K.)

INVITED PRESENTATIONS:

Papers at Conferences –

- Plenary Speaker, American Ornithologists Union annual meeting, St. John's, NF. 2000
Plenary Speaker, "100 Years of Bird Ringing" Conference, Helgoland, Germany. 1999
Canadian Nature Federation annual meeting, Parksville, BC. 1999
Pacific Seabird Group annual meeting, Blaine, WA, 1999
International Goose Conference, Zwolle, Netherlands. 1998.
Society of Canadian Ornithologists, Vancouver, BC, Canada. 1998
Sea Duck Joint Venture Workshop, Winnipeg, MN, Canada. 1998
North American Conservation of Birds Initiative Workshop, Puebla, Mexico. 1998.
North American Goose Conference, Victoria, BC, Canada. 1998.
Society of Canadian Ornithologists, Peterborough, ON, Canada. 1997.
Society of Conservation Biology, Victoria, BC, Canada. 1997.
Large Scale Studies of Marked Birds, Euring Conference, England. 1997.
Evolution and behaviour of birds: Insights from long-term studies, Brisbane, Australia. 1996.
Canadian Society of Ornithologists, Fredrickton, NB, Canada. 1996.
Wildlife Society Regional Meeting, 100 Mile House, BC, Canada. 1996.
8th North American Arctic Goose Conference, Albuquerque, NM, USA. 1995.
Evolutionary and ecological processes for biodiversity, Aussois, France. 1994.
21st International Ornithological Congress, Vienna, Austria. 1994.
59th North American Wildlife and Natural Resources Conference, Anchorage, AK, USA. 1994.
American Ornithologists' Union Meeting, Fairbanks, AK, USA. 1993.
7th North American Arctic Goose Conference, Vallejo, CA, USA. 1992.
20th International Ornithological Congress, Christ Church, New Zealand. 1990.
Bird Population Studies: their relevance to conservation and management, Arles, France. 1988.
International Behavioural Ecology Meetings, Vancouver, Canada. 1988.
British Trust for Ornithology Conference, Swanwick, U.K. 1987.
British Ornithologists' Union Conference, University of Nottingham, U.K. 1987.
Association for the Study of Animal Behaviour, University of East Anglia, U.K. 1987.
Edward Grey Institute Conference, Oxford, U.K. 1986.
Plenary Speaker, 19th International Ornithological Congress, Ottawa, Canada. 1986.
Fifth Midwest Conference on Population Biology, West Lafayette, IN, USA. 1984.
Conference on Avian Genetics, Edward Grey Institute, Oxford, U.K. 1983.
18th International Ornithological Congress, Moscow, U.S.S.R. 1982.
Deutsche Ornithologische Gesellschaft. Marburg, West Germany. 1982.
Dutch Ornithological Society. Almera, Holland. 1982.
Animal Behavior Society, Midwest Regional Meeting, Ames, IA, USA. 1981.
Association for the Study of Animal Behavior, Cambridge, U.K.. 1981.
New York Population Biology Seminars, New York, NY, USA. 1981.
17th International Ornithological Congress, Berlin, W. Germany. 1978.
16th International Ethology Congress, Bielefeld, W. Germany. 1977.

Invited seminars at Universities -

Canada - Dalhousie, New Brunswick, Laval, McGill, Concordia, Ottawa, Queen's (3), Toronto (3), York, McMaster, Brock, Western Ontario, Waterloo, Guelph, Windsor, Lakehead, Manitoba, Winnipeg, Brandon, Saskatchewan, Calgary, Alberta, British Columbia, Simon Fraser
U.S.A. - North Dakota (2), Cornell (2), Columbia, Iowa State, Wisconsin, S.U.N.Y.- Syracuse, Texas A & M, Pennsylvania, Hawaii
Europe - Oxford (2), Cambridge (2), Durham, York, Edinburgh, Glasgow, Sheffield, East Anglia, London (University College), Nottingham (2), Uppsala, Oulu, Jagellonian, Bielefeld (2), Frankfurt, Kaiserslautern, Antwerp, Groningen, Basel

Other invited seminars –

National Environmental Research Institute, Kalo, Denmark
Centre Nationale de Recherche Scientifique (CNRS), Montpellier, France
Delta Waterfowl Research Station, Delta, Manitoba
Northern Prairie Wildlife Research Center, Jamestown, ND
Nature Conservancy Council, Huntingdon, U.K.
Philadelphia Academy of Sciences, Philadelphia, PA

RESEARCH GRANTS (past ten years):

Wildlife Ecology Research Chair contribution, NSERC, 1993-2003
Wildlife Ecology Research Chair contribution, CWS, 1993-2003
Wildlife Ecology Research Chair, contribution, SFU, 1993-2003
NSERC Individual Operating, 2000-2004
Marbled Murrelet research in Desolation and Clayoquot Sounds, NCASI, 2000-2003
Surf Scoters in Strait of Georgia, Canadian Wildlife Service, 2000
Population studies of Harlequin Ducks, Environment Canada, Science Horizons, 2000
Demographic and habitat studies of Marbled Murrelets, NSERC-CRD, 2000-2003
Wintering philopatry in birds, NSERC Individual Operating, 1996-2000
Effects of forest management on biodiversity of riparian ecosystems in interior forests of the Cariboo-Chilcotin, FRBC, 1995-2001
Nesting habitats, abundance and ecology of marbled murrelets, FRBC, 1995-2001
Demography of marbled murrelets, Consortium of Forest Companies, 1995-99
Demography of marbled murrelets, NSERC CRD Matching Funds, 1995-99
Marbled Murrelet research in Mussel Inlet, Western Forest Products, 1999 (with G. Kaiser)
Marbled Murrelet research in Desolation and Clayoquot Sounds, MacMillan Bloedel, Interfor, Timberwest, 1999-2003
Georgia Basin Initiative, Canadian Wildlife Service, 1998-2003
Winter philopatry of harlequin ducks, Institute of Wetland and Waterfowl Research, 1995-99
Harlequin work - Strait of Georgia, Environment Canada, 1997-2003
Harlequin duck wintering biology, BC Waterfowl Society, 1999-2001
Winter and spring staging ecology of Pacific black brant in BC, Arctic Goose Joint Venture, 1997-2000 (with S. Boyd)
Winter and spring staging ecology of Black Brant in BC, Science Horizons Youth Internship, 1998

RESEARCH GRANTS (Cont'd):

- Conservation of Black Oystercatchers in the Gulf Islands, Science Horizons Youth Internship, 1997
Shorebird Biology, Skills Now (BC) Summer Works Program, 1998-99 (with D. Lank)
Demography of the great blue heron in BC, Environment Canada, 1997-99 (with R. Butler)
Demography of the great blue heron in BC, Environment Canada - Science Horizon Youth
Internship Program, 1997-99 (with R. Butler)
Seabird breeding burrow probe, NSERC Equipment, 1997-98 (with T. Williams)
Waterfowl in Becher's prairie: waterbirds, grazing and disturbance, Institute of Wetlands Protection
- Ducks Unlimited, 1995-97
Western sandpiper banding in Mexico, Latin America Project, 1995-97
Population status of marbled murrelets, BC Ministry of Forests, 1995-96
Comparative survival and philopatry of eared and horned grebes in the Chilcotin-Caribou region,
Research Network Program, 1995-96
Vehicle-mounted radio telemetry system, NSERC Equipment, 1995-96 (with D.B. Lank)
Tundra Biology Station, NSERC Infrastructure, 1995-96 (with R. Rockwell and R. Jefferies)
Migration monitoring at Triangle Island, Baillie Memorial Fund, 1994-96 (with I.L. Jones)
Impact of glaucous-winged gull preation and kleptoparasitism on other breeding seabirds at
Triangle Island, Research Network Program, 1994-95
Inflatable boat system, NSERC Equipment, 1994-95 (with I.L. Jones and R. Ydenberg)
Tundra Biology Station, NSERC Infrastructure, 1992-95 (with R. Rockwell, R. Jefferies, S.
Hannon, K. Martin)
Portable arctic research station, NSERC Equipment, 1992
Genetical ecology of 3 bird species, NSERC Individual Operating, 1991-96
La Perouse Bay snow goose project, Arctic Goose Joint Venture - CWS, 1991-96
Miscellaneous Arctic Research Projects, Northern Scientific Training Program, 1991-2001 (with
various graduate students)
Snow goose banding, Central Flyways Council, 1986-96 (with R. Rockwell)

PUBLICATIONS:

Books

- Cooke, F., R.F. Rockwell and D.B. Lank. 1995. The Snow Geese of La Perouse Bay: natural selection in the wild. Oxford: Oxford University Press, 289 pp.
Cooke, F. and P. Buckley, eds. 1987. Avian genetics: a population and ecological approach. Toronto: Academic Press, 488 pp.

Papers in refereed journals

- Hull, C.L., G.W. Kaiser, C. Lougheed, L. Lougheed, W.S. Boyd and F. Cooke. In press. Intra-specific variation in commuting distance of Marbled Murrelets *Brachramphus marmoratus*: ecological and energetic consequences of nesting further inland. *Auk*.
- Hull, C.L., B.A. Vanderkist, L.W. Lougheed, G. Kaiser and F. Cooke. In press. Morphometric variation in Marbled Murrelets, *Brachyramphus marmoratus*, in British Columbia, Canada. *Northwestern Naturalist*.
- Regehr, H.M., C.M. Smith, B. Arquilla and F. Cooke. In press. Post-fledging broods of migratory Harlequin Ducks accompany females to wintering areas. *Condor*.
- Smith, C.M., F. Cooke and R.I. Goudie. In press. Survival of juvenile Harlequin Ducks on breeding streams in southwestern Alberta, Canada. *J. Wildl. Manage.*
- Smith, C.M., R.I. Goudie and F. Cooke. 2001. Winter age ratios and the assessment of recruitment of Harlequin Ducks. *Waterbirds* 24:39-44.
- Bertram, D.F., I.L. Jones, E.G. Cooch, H.A. Knechtel and F. Cooke. 2000. Survival rates for Cassin's and Rhinoceros Auklets at Triangle Island, British Columbia. *Condor* 102:155-162.
- Boyd, W.S. and F. Cooke. 2000. Changes in the wintering distribution of Wrangel Island Snow Geese *Anser c. caerulescens*. *Wildfowl* 51:59-66.
- Cooke, F., G.J. Robertson, C.M. Smith, R.I. Goudie and W.S. Boyd. 2000. Survival, emigration and winter population structure of Harlequin Ducks. *Condor* 102:137-144.
- Robertson, G.J., F. Cooke, R.I. Goudie and W.S. Boyd. 2000. Spacing patterns, mating systems, and winter philopatry in Harlequin Ducks. *Auk* 117:299-307.
- Sandercock, B.K., D.B. Lank, R.B. Lanctot, B. Kempnaers and F. Cooke. 2000. Ecological correlates of mate fidelity in two arctic-breeding sandpipers. *Can. J. Zool.* 78:1948-1958.
- Smith, C.M., F. Cooke, G.J. Robertson, R.I. Goudie and W.S. Boyd. 2000. Long-term pair bonds in Harlequin Ducks. *Condor* 102:201-205.
- Van der Wetering, D. and F. Cooke. 2000. Body weight and feather growth of male Barrow's Goldeneye during wing molt. *Condor* 102:228-231.
- Beauchamp, W., F. Cooke, L. Lougheed, C.B. Lougheed, C.J. Ralph and S. Courtney. 1999. Seasonal movements of Marbled Murrelets: evidence from banded birds. *Condor* 101:671-674.
- Cooch, E.G., D.B. Lank, R.F. Rockwell and F. Cooke. 1999. Body size and recruitment in snow geese. *Bird Study* 46(suppl):S112-119.
- Coupe, M. and F. Cooke. 1999. Factors affecting the pairing chronologies of three species of mergansers in southwest British Columbia. *Waterbirds* 22:452-458.
- Robertson, G.J. and F. Cooke. 1999. Winter philopatry in migratory waterfowl. *Auk* 116:20-34.
- Robertson, G.J., F. Cooke, R.I. Goudie and W.S. Boyd. 1999. Within year-fidelity of Harlequin Ducks to a moulting and wintering area. *Occ. Papers CWS* :45-51.
- Sandercock, B.K., D.B. Lank and F. Cooke. 1999. Seasonal declines in fecundity of arctic-breeding sandpipers: different tactics in two species with an invariant clutch size. *J. Avian Biol.* 30:460-468.
- Ganter, B. and F. Cooke. 1998. Colonial nesters in a deteriorating local habitat: local philopatry and colony dynamics of lesser snow geese. *Auk* 115:642-652.
- Kahlert, J., M. Coupe and F. Cooke. 1998. Wintering segregation and timing of pair formation in Red-breasted Mergansers. *Wildfowl* 49:161-172.

- Reed, E., E.G. Cooch, F. Cooke and I. Goudie. 1998. Migration patterns of Black Brant in Boundary Bay, BC. *J. Wildl. Manage.* 62:1521-1531.
- Reed, E., E.G. Cooch, R.I. Goudie, and F. Cooke. 1998. Site fidelity of Black Brant wintering and spring staging in the Strait of Georgia, British Columbia. *Condor* 100:426-437.
- Robertson, G.J., F. Cooke, R.I. Goudie and W.S. Boyd. 1998. Molt speed predicts pairing success in male Harlequin Ducks. *Anim. Behav.* 55:1677-1684.
- Robertson, G.J., F. Cooke, R.I. Goudie and W.S. Boyd. 1998. The timing of pair formation in Harlequin Ducks. *Condor* 100:551-555.
- Smith, C.M., F. Cooke and R.I. Goudie. 1998. Ageing Harlequin Duck *Histrionicus histrionicus* drakes using plumage characteristics. *Wildfowl* 49:245-248.
- Cooch, E.G., D.B. Lank, R. Robertson and F. Cooke. 1997. Effects of parental age and environmental change on offspring sex ratio in a precocial bird. *J. Anim. Ecol.* 66:189-202.
- Cooke, F., G.J. Robertson, R.I. Goudie and W.S. Boyd. 1997. Molt and the basic plumage of male Harlequin Ducks. *Condor* 99:83-90.
- Gowans, B., G.J. Robertson and F. Cooke. 1997. Behaviour and chronology of pair formation in Harlequin Ducks *Histrionicus histrionicus*. *Wildfowl* 48:135-146.
- Robertson, G.J., F. Cooke, R.I. Goudie and W.S. Boyd. 1997. Estimating temporary emigration rates with supplementary information: an example with Harlequin Ducks. *The Ring* 18:67-76.
- Robertson, G.J., F. Cooke, R.I. Goudie and W.S. Boyd. 1997. The timing of arrival and moult chronology of Harlequin Ducks *Histrionicus histrionicus*. *Wildfowl* 48:147-155.
- Cooch, E.G., D.B. Lank and F. Cooke. 1996. Intra-seasonal variation in the development of sexual size dimorphism in a precocial bird: evidence from the lesser snow goose. *J. Anim. Ecol.* 65:439-450.
- Ganter, B. and F. Cooke. 1996. Pre-incubation feeding activities and energy budgets of snow geese: can food on the breeding grounds influence fecundity? *Oecologia* 106:153-165.
- Ganter, B., P. Mineau and F. Cooke. 1996. Long-term vegetation changes in a snow goose nesting habitat. *Can. J. Zool.* 74:965-969.
- Lank, D.B., C.M. Smith, O. Hanotte, T. Burke and F. Cooke. 1995. Genetic polymorphism for alternative mating behaviour in lekking male ruff *Philomachus pugnax*. *Nature* 378:59-62.
- Mulder, R.S., T.D. Williams and F. Cooke. 1995. Dominance, brood size and foraging behaviour during brood-rearing in the lesser snow goose: an experimental study. *Condor* 97:99-106.
- Pradel, R., E.G. Cooch and F. Cooke. 1995. Transient animals in a resident population of snow geese: local emigration or heterogeneity? *J. Appl. Stat.* 22:695-710.
- Viallefont, A., E.G. Cooch and F. Cooke. 1995. Estimation of trade-offs with capture-recapture models: a case study on the lesser snow goose. *J. Appl. Stat.* 22:847-861.
- Viallefont, A., F. Cooke and J.-D. Lebreton. 1995. Age-specific costs of first time breeding. *Auk* 112:67-76.
- Williams, T.D., M.J.J.E. Loonen and F. Cooke. 1995. Fitness consequences of parental behaviour in relation to offspring number in a precocial species: the lesser snow goose. *Auk* 111:563-572.
- Robertson, G.J., E.G. Cooch, D.B. Lank, R.F. Rockwell and F. Cooke. 1994. Female age and egg size in the lesser snow goose. *J. Avian Biol.* 25:149-155.
- Syroechkovsky, E.V., F. Cooke and W.J.L. Sladen. 1994. Population structure of the lesser snow geese of Wrangel Island, Russia. *Ecoscience* 1:311-316.

- Cooch, E.G., R.L. Jefferies, R.F. Rockwell and F. Cooke. 1993. Environmental change and the cost of philopatry: an example in the lesser snow goose. *Oecologia* 93:128-138.
- Ganter, B. and F. Cooke. 1993. Reaction of lesser snow geese *Anser caerulescens* to early nest failure. *Wildfowl* 44:170-173.
- Robertson, G.J. and F. Cooke. 1993. Intraclutch egg-size variation and hatching success in the common eider. *Can. J. Zool.* 71:544-549.
- Rockwell, R.F., E.G. Cooch, C.B. Thompson and F. Cooke. 1993. Age and reproductive success in female lesser snow geese: experience, senescence and the cost of philopatry. *J. Anim. Ecol.* 272:323-333.
- Schubert, C.A. and F. Cooke. 1993. Egg-laying intervals in the lesser snow goose. *Wilson Bull.* 105:414-426.
- Watson, M.D., G.J. Robertson and F. Cooke. 1993. Egg-laying time and laying interval in the common eider. *Condor* 95:869-878.
- Williams, T.D., E.G. Cooch, R.L. Jefferies and F. Cooke. 1993. Environmental degradation, food limitation and reproductive output: juvenile survival in lesser snow geese. *J. Anim. Ecol.* 62:766-777.
- Williams, T.D., F. Cooke, E.G. Cooch and R.F. Rockwell. 1993. Effects of declining body condition on gosling survival in mass-banded lesser snow geese. *J. Wildl. Manage.* 57:555-562.
- Williams, T.D., D.B. Lank and F. Cooke. 1993. Is intraclutch egg-size variation adaptive in the lesser snow goose? *Oikos* 67:250-256.
- Williams, T.D., D.B. Lank, F. Cooke and R.F. Rockwell. 1993. Fitness consequences of egg-size variation in the lesser snow goose. *Oecologia* 96:331-338.
- Cooch, E.G., D.B. Lank, R.F. Rockwell and F. Cooke. 1992. Is there a positive relationship between body size and fecundity in lesser snow geese? *Auk* 109:667-673.
- Francis, C.M. and F. Cooke. 1992. Migration routes and recovery rates of lesser snow geese from southwestern Hudson Bay. *J. Wildl. Manage.* 56:279-286.
- Francis, C.M. and F. Cooke. 1992. Sexual differences in survival and recovery rates of lesser snow geese. *J. Wildl. Manage.* 56:287-296.
- Francis, C.M., M.H. Richards, F. Cooke and R.F. Rockwell. 1992. Changes in survival rates of lesser snow geese with age and breeding status. *Auk* 109:731-747.
- Francis, C.M., M.H. Richards, F. Cooke and R.F. Rockwell. 1992. Long-term changes in survival rates of lesser snow geese. *Ecology* 73:1346-1362.
- Robertson, G.J., M.D. Watson and F. Cooke. 1992. Frequency, timing and costs of intraspecific nest parasitism in the Common Eider. *Condor* 94:871-879.
- Cooch, E.G., D.B. Lank, A. Dzubin, R.F. Rockwell and F. Cooke. 1991. Body size variation in lesser snow geese: environmental plasticity in gosling growth rates. *Ecology* 72:503-512.
- Cooch, E.G., D.B. Lank, R.F. Rockwell and F. Cooke. 1991. Long term decline in body size in a snow goose population: evidence of environmental degradation? *J. Anim. Ecol.* 60:483-496.
- Lank, D.B., M.A. Bousfield, F. Cooke and R.F. Rockwell. 1991. Why do snow geese adopt eggs? *Behav. Ecol.* 2:181-187.
- Cooke, F., J.C. Davies and R.F. Rockwell. 1990. Body size and fecundity in lesser snow geese: response to Alisauskas and Ankney. *Auk* 107:444-446.

- Cooke, F., P.D. Taylor, C.M. Francis and R.F. Rockwell. 1990. Directional selection and clutch size in birds. *Am. Nat.* 136:261-267.
- Francis, C.M. and F. Cooke. 1990. Differential timing of spring migration in rose-breasted grosbeaks. *J. Field Ornithol.* 61:404-412.
- Gratto-Trevor, C.L., A.J. Fivizzani, L.W. Oring and F. Cooke. 1990. Seasonal changes in gonadal steroids of a monogamous versus a polyandrous shorebird. *Gen. Comp. Endocrinol.* 80:407-418.
- Gratto-Trevor, C.L., L.W. Oring, A.J. Fivizzani, M.E. El Halawani and F. Cooke. 1990. The role of prolactin in parental care in a monogamous and a polyandrous shorebird. *Auk* 107:718-729.
- Lank, D.B., R.F. Rockwell and F. Cooke. 1990. Frequency-dependent fitness consequences of intraspecific nest parasitism in snow geese. *Evolution* 44:1436-1453.
- Quinn, T.W., F. Cooke and B.N. White. 1990. Molecular sexing of birds using a cloned Z chromosomal sequence homology to the W chromosome. *Auk* 107:199-202.
- Cooch, E.G., D.B. Lank, R.F. Rockwell and F. Cooke. 1989. Long term decline in fecundity in a snow goose population: evidence for density dependence? *J. Anim. Ecol.* 58:711-726.
- Hamann, J. and F. Cooke. 1989. Intra-seasonal decline in clutch size in lesser snow geese. *Oecologia* 79:83-90.
- Lank, D.B., E.G. Cooch, R.F. Rockwell and F. Cooke. 1989. Environmental and demographic correlates of intraspecific nest parasitism in lesser snow geese. *J. Anim. Ecol.* 58:29-45.
- Lank, D.B., P. Mineau, R.F. Rockwell and F. Cooke. 1989. Intraspecific nest parasitism and extra-pair copulation in lesser snow geese. *Anim. Behav.* 37:74-89.
- Lessells, C.M., F. Cooke and R.F. Rockwell. 1989. Is there a trade-off between egg weight and clutch size in wild lesser snow geese (*Anser caerulescens caerulescens*)? *J. Evol. Biol.* 2:457-472.
- Quinn, T.W., J.C. Davies, F. Cooke and B.N. White. 1989. Genetic analysis of offspring of a female-female pair in the lesser snow goose (*Chen caerulescens caerulescens*). *Auk* 106:177-184.
- Cooke, F., D.T. Parkin and R.F. Rockwell. 1988. Evidence of former allopatry of the two colour phases of Lesser Snow Goose (*Chen caerulescens caerulescens*). *Auk* 105:467-479.
- Davies, J.C., R.F. Rockwell and F. Cooke. 1988. Body size variation and fitness components in lesser snow geese *Chen caerulescens caerulescens*. *Auk* 105:639-648.
- Hik, D.S. and F. Cooke. 1988. A possible case of intraspecific killing in lesser snow geese. *Wilson Bull.* 100:665-666.
- Ratcliffe, L., R.F. Rockwell and F. Cooke. 1988. Recruitment and maternal age in lesser snow geese (*Chen caerulescens caerulescens*). *J. Anim. Ecol.* 57:553-563.
- Reynolds, J.D. and F. Cooke. 1988. The influence of mating systems on philopatry: a test with polyandrous red-necked phalaropes. *Anim. Behav.* 36:1788-1795.
- Findlay, C.S. and F. Cooke. 1987. Repeatability and heritability of clutch size in lesser snow geese. *Evolution* 41:453.
- Gratto, C.L. and F. Cooke. 1987. Geographic variation in the breeding biology of the semipalmated sandpiper. *Ornis Scan.* 18:233-235.
- Hamann, J. and F. Cooke. 1987. Age effects on clutch size and laying dates of individual females in Lesser Snow Geese. *Ibis* 129:527-532.

- Martin, K. and F. Cooke. 1987. Bi-parental care in willow ptarmigan - a luxury? *Anim. Behav.* 35:369-379.
- Quinn, T.W., J.S. Quinn, F. Cooke and B.N. White. 1987. DNA marker analysis detects multiple maternity and paternity in single broods of the Lesser Snow Goose (*Anser caerulescens caerulescens*). *Nature* 326:392-394.
- Rockwell, R.F., C.S. Findlay and F. Cooke. 1987. Is there an optimal clutch size in Lesser Snow Geese? *Am. Nat.* 130:839-863.
- Francis, C.M. and F. Cooke. 1986. Differential timing of spring migration in paruline warblers. *Auk* 103:548-556.
- Hamann, J., B. Andrews and F. Cooke. 1986. The role of follicular atresia in inter- and intra-seasonal clutch size variation in lesser snow geese (*Anser caerulescens caerulescens*). *J. Anim. Ecol.* 55:481-489.
- Reynolds, J.D., M.A. Colwell and F. Cooke. 1986. Sexual selection and spring arrival times of red-necked and Wilson's phalaropes. *Behav. Ecol.* 18:303-310.
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