

Curriculum Vitae

Dr. Steven G. Fancy
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Education

Ph.D. (1986) University of Alaska Fairbanks, Wildlife Biology
M.S. (1979) Humboldt State University, Natural Resources
B.S. (1977) Humboldt State University, Wildlife Management

Work Experience

Supervisory Ecologist (National Inventory and Monitoring Program Leader) 2008 – present
Chief, of Inventory and Monitoring Division, Natural Resource Stewardship and Science Directorate, National Park Service, Fort Collins, CO

Ecologist (National Monitoring Program Leader) 1998-2008
Natural Resource Program Center, Inventory and Monitoring Division, National Park Service, Fort Collins, CO

Wildlife Biologist (Research) 1990-1998
Biological Resources Division, USGS, Pacific Island Ecosystems Research Center, Hawaii National Park, Hawaii

Graduate Faculty, University of Hawaii 1993-1998
University of Hawaii, Dept. Zoology; Ecology, Evolution and Conservation Biology

Graduate Faculty, Colorado State University 1998-2002
Dept. Fishery and Wildlife Biology

Graduate Faculty, University of Idaho 1997-2002
Dept. of Fish and Wildlife Resources, University of Idaho

Graduate Faculty, University of Alaska 1986-1991
Dept. of Biology and Wildlife, University of Alaska Fairbanks, and Research Associate, Institute of Arctic Biology

Wildlife Biologist (Research) 1986-1990
U.S. Fish and Wildlife Service, Fairbanks, Alaska

Instructor of Wildlife Management 1985-1986
Dept. of Biology, Fisheries and Wildlife, University of Alaska Fairbanks

Research Assistant 1983-1985
Institute of Arctic Biology, University of Alaska, Fairbanks

Ecologist 1980-1983
LGL Alaska Research Associates, Inc., Fairbanks, Alaska

Computer Operator/Programmer 1979-1980
Fairbanks North Star Borough, Fairbanks, Alaska

Graduate Assistant 1977-1979
Dept. of Wildlife Management, Humboldt State University, Arcata, California

Honors and Awards

Department of Interior Meritorious Service Award, May 2006
Director's Award, Professional Excellence in Natural Resources, 2001, NPS
Ambassador for Science Award from Director, U.S. Geological Survey, 2001
Professional Excellence in Natural Resources Award, Midwest Region NPS, 2001
Professional Excellence in Natural Resources Award, National Capital Region NPS, 2001
Professional Excellence in Natural Resources Award, Natural Resource Stewardship and Science, 2001
Professional Excellence in Natural Resources Award, Pacific West Region NPS 2000
Star Award, National Park Service, 2000
Star Award, National Park Service, 1998
Special Act Service Award, U.S. Geological Survey, 1998
Special Act Service Award, U.S. Geological Survey, 1997
Selected for United States - New Zealand Scientific Exchange Program, 1996
Star Award, National Biological Service 1996
Special Act Service Award, National Biological Service 1996
Special Act Service Award, US Fish and Wildlife Service 1996
Exceptional Service Award, National Biological Service 1995
Mid-level Management Development Program, Washington DC, March 1994
Quality Performance Award, US Fish and Wildlife Service 1993
American Assoc. for Advancement of Science, Research Award, 1988
Special Achievement Award, US Fish and Wildlife Service, 1989, 1991
Outstanding Wildlife Student of 1985-86, University of Alaska
John Marooney Memorial Scholarship, University of Alaska, 1984
Natural Resources Fellowship, University of Alaska, 1984, 1985
Graduated Cum Laude, Humboldt State University, 1977

Distinguished Landscape Practitioner Award to NPS I&M Program from International Assn. for Landscape Ecology, May 2012

Publications and Book Chapters

Fancy, S. G. and R. E. Bennetts. 2012. Institutionalizing an effective long-term monitoring program in the U.S. National Park Service. Pages 481-497 *in* Design and Analysis of Long-term Ecological Monitoring Studies, ed. R.A. Gitzen, J.J. Millspaugh, A.B. Cooper and D.S. Licht. Cambridge University Press, Cambridge, UK.

Fancy, S. G., J. E. Gross, and S. L. Carter. 2009. Monitoring the condition of natural resources in U. S. National Parks. *Environmental Monitoring and Assessment* 151:161-174.

Marques, T. A., L. Thomas, S. G. Fancy, and S. T. Buckland. 2007. Improving estimates of bird density using multiple-covariate distance sampling. *Auk* 124:1229-1243.

Snetsinger, T. J., C. M. Herrmann, D. E. Holmes, C. D. Hayward, and S. G. Fancy. 2005. Breeding ecology of the Puaiohi (*Myadestes palmeri*). *Wilson Bulletin* 117:72-84.

Oakley, K. L., L. P. Thomas, and S. G. Fancy. 2003. Guidelines for long-term monitoring protocols. *Wildlife Society Bulletin* 31:1000-1003.

Banko, P. C., L. Johnson, G. D. Lindsey, S. G. Fancy, T. K. Pratt, J. D. Jacobi, and W. E. Banko. 2002. Palila (*Loxioides bailleui*). *In* The Birds of North America, No. 679 (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA

Mosher, S. M., and S. G. Fancy. 2002. Description of nests, eggs, and nestlings of the endangered Nightingale Reed-Warbler on Saipan, Micronesia. *Wilson Bulletin* 114:1-10.

Nelson, J. T., B. L. Woodworth, S. G. Fancy, G. Lindsey, and E. J. Tweed. 2002. Effectiveness of rodent control and monitoring techniques for a montane rainforest. *Wildlife Soc. Bulletin*. 30:82-92.

Simon, J. C., T. K. Pratt, K. E. Berlin, J. R. Kowalsky, S. G. Fancy, and J. S. Hatfield. 2002. Temporal variation in bird counts within a Hawaiian cloud forest. *Condor* 104:469-481

- Fancy, S. G., and T. J. Snetsinger. 2001. What caused the population decline of the bridled white-eye on Rota, Mariana Islands? *Studies in Avian Biology* 22:274-280.
- Fancy, S. G., J. T. Nelson, P. Harrity, J. Kuhn, M. Kuhn, C. Kuhler, and J. G. Giffin. 2001. Reintroduction and translocation of a Hawaiian solitaire: a comparison of methods. *Studies in Avian Biology* 22:347-353.
- Pratt, T. K., S. G. Fancy, and C. J. Ralph. 2001. Akiapolaau (*Hemignathus munroi*) and Nukupuu (*Hemignathus lucidus*). In *The Birds of North America*, No. 600 (A. Poole and F. Gill, eds.). The Birds of North America, Inc., Philadelphia, PA
- Woodworth, B. L., J. T. Nelson, E. J. Tweed, S. G. Fancy, M. P. Moore, E. B. Cohen, and M. S. Collins. 2001. Breeding productivity and survival of the endangered Hawaii Creeper in a wet forest refuge on Mauna Kea, Hawaii. *Studies in Avian Biology* 22:164-172.
- Kuehler, C., A. Lieberman, P. Oesterle, T. Powers, M. Kuhn, J. Kuhn, J. T. Nelson, T. J. Snetsinger, C. Herrmann, P. Harrity, E. J. Tweed, S. G. Fancy, B. L. Woodworth and T. Telfer. 2000. Restoration techniques for Hawaiian thrushes: artificial incubation, hand rearing, captive breeding and reintroduction to the wild. *Zoo Biology* 19:263-277.
- Fancy, S. G., M. R. Lusk, and D. J. Grout. 1999. Status of the Mariana Crow population on Rota, Mariana Islands. *Micronesica* 32:3-10.
- Lindsey, G. D., S. M. Mosher, S. G. Fancy and T. D. Smucker. 1999. Population structure and movements of introduced rats in a Hawaiian rainforest. *Pacific Conservation Biology* 5:94-102.
- Nelson, J. T. and S. G. Fancy. 1999. A test of the variable circular-plot method when exact density of a bird population was known. *Pacific Conservation Biology* 5:139-143.
- Snetsinger, T. J., K. M. Wakelee, and S. G. Fancy. 1999. Puaiohi (*Myadestes palmeri*). No. 461 In *The Birds of North America* (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and the American Ornithologist's Union, Washington, D.C.
- Wakelee, K. M., and S. G. Fancy. 1999. Omao (*Myadestes obscurus*), Olomao (*Myadestes lanaiensis*), Kamao (*Myadestes myadestinus*) and Amaui (*Myadestes woahensis*). No. 460 In *The Birds of North America* (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and the American Ornithologist's Union, Washington, D.C.
- Ballard, W. B., M. Edwards, S. G. Fancy, S. Boe, and P. R. Krausman. 1998. Comparison of VHF and satellite telemetry for estimating sizes of wolf territories in northwest Alaska. *Wildlife Society Bulletin* 26:823-829.
- Fancy, S. G., and C. J. Ralph. 1998. Apapane (*Himatione sanguinea*). No. 296 In *The Birds of North America* (A. Poole and F. Gill, eds.). The Academy of Natural Sci., Philadelphia, PA, and American Ornithologist's Union, Washington D.C.
- Fancy, S. G., and C. J. Ralph. 1998. Iiwi (*Vestiaria coccinea*). No. 327 In *The Birds of North America* (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and the American Ornithologist's Union, Washington, D.C.
- Fancy, S. G., R. J. Craig, and C. Kessler. 1998. Forest bird and bat populations on Sarigan, Mariana Islands. *Micronesica* 31:247-255.
- Male, T. D., S. G. Fancy, and C. J. Ralph. 1998. Red-billed Leiothrix (*Leiothrix lutea*). No. 359. In *The Birds of North America* (A. Poole and F. Gill, eds.). The Academy of Natural Sciences, Philadelphia, PA, and the American Ornithologist's Union, Washington, D.C.
- Ralph, C. J., S. G. Fancy, and T. D. Male. 1998. Demography of an introduced Red-billed Leiothrix population in Hawaii. *Condor* 100:468-473.
- Smith, T. B. and S. G. Fancy. 1998. Challenges and approaches for conserving Hawaii's endangered forest birds. Pages 306-316 In: P. L. Fiedler and P. M. Kareiva (eds). *Conservation Biology: For the coming decade*. Chapman & Hall, New York.
- Ballard, W. B., L. A. Ayres, P. R. Krausman, D. J. Reed, and S. G. Fancy. 1997. Ecology of wolves in relation to a migratory caribou herd in northwest Alaska. *Wildlife Monographs* 135.

- Fancy, S. G. 1997. A new approach for analyzing bird densities from variable circular-plot counts. *Pacific Science* 51:107-114.
- Fancy, S. G., T. J. Snetsinger, and J. D. Jacobi. 1997. Translocation of the endangered Palila. *Pacific Conservation Biology* 4:39-46.
- Fancy, S. G., S. A. Sandin, M. H. Reynolds, and J. D. Jacobi. 1996. Distribution and population status of the endangered Akiapolaau. *Pacific Science* 50:355-362.
- Jacobi, J. D., S. G. Fancy, J. G. Giffin, and J. M. Scott. 1996. Long-term population variability in the Palila, an endangered Hawaiian honeycreeper. *Pacific Science* 50:363-370.
- Ralph, C. J., and S. G. Fancy. 1996. Aspects of the life history and foraging ecology of the endangered Akiapolaau. *Condor* 98:312-321.
- Smith, T. B., and S. G. Fancy. 1996. Challenges and approaches for conserving Hawaii's endangered forest birds. In: P. L. Fiedler and P. Karevia (eds.), *Conservation biology for the coming decade*. Chapman & Hall, New York.
- Ballard, W. B., D. J. Reed, S. G. Fancy, and P. R. Krausman. 1995. Accuracy, precision, and performance of satellite telemetry for monitoring wolf movements. Pages 461-468 In: L. N. Carbyn, S. H. Fritts, and D. R. Seip (eds.), *Ecology and Conservation of Wolves in a Changing World*. Canadian Circumpolar Inst., Occas. Publ. No. 35.
- Fancy, S. G. and W. B. Ballard. 1995. Monitoring wolf activity by satellite. Pages 329-334 In: L. N. Carbyn, S. H. Fritts, and D. R. Seip (eds.), *Ecology and Conservation of Wolves in a Changing World*. Canadian Circumpolar Inst., Occas. Publ. No. 35.
- Lindsey, G. D., S. G. Fancy, M. H. Reynolds, T. K. Pratt, K. A. Wilson, P. C. Banko, and J. D. Jacobi. 1995. Population structure and survival of Palila. *Condor* 97:528-535.
- Ralph, C. J., and S. G. Fancy. 1995. Demography and movements of Apapane and liwi in Hawaii. *Condor* 97:729-742.
- Fancy, S. G., K. R. Whitten, and D. E. Russell. 1994. Demography of the Porcupine caribou herd, 1983-1992. *Can. J. Zool.* 72:840-846.
- Fancy, S. G., J. D. Jacobi, T. K. Pratt, and C. J. Ralph. 1994. Determining age and sex of `Oma`o (*Myadestes obscurus*). *Elepaio* 54:25-27.
- Pratt, T. K., S. G. Fancy, C. K. Harada, G. D. Lindsey, and J. D. Jacobi. 1994. Identifying sex and age of Akiapolaau. *Wilson Bulletin* 106:421- 430.
- Ralph, C. J. and S. G. Fancy. 1994. Timing of breeding and molting in six species of Hawaiian honeycreeper. *Condor* 96:151-161.
- Ralph, C. J. and S. G. Fancy. 1994. Demography and movements of the endangered Akepa and Hawaii Creeper. *Wilson Bull.* 106:615-628.
- Ralph, C. J. and S. G. Fancy. 1994. Demography and movements of the Omao (*Myadestes obscurus*). *Condor* 96:503-511.
- Snetsinger, T. J., S. G. Fancy, J. C. Simon, and J. D. Jacobi. 1994. Diets of owls and feral cats in Hawaii. *Elepaio* 54:47-50.
- Ballard, W. B., L. A. Ayres, D. J. Reed, S. G. Fancy, and K. E. Roney. 1993. Demography of grizzly bears in relation to hunting and mining development in northwestern Alaska. *U.S. Nat. Park Serv., Sci. Monogr.* 23:1-112.
- Cameron, R. D., W. T. Smith, S. G. Fancy, K. L. Gerhart, and R. G. White. 1993. Calving success of female caribou in relation to body weight. *Can. J. Zoology* 71:480-486.
- Fancy, S. G. 1993. Migration of barren-ground caribou. *Anima* 244:17-21 [in Japanese].
- Fancy, S. G. 1993. Fish and Wildlife Service successfully translocates Palila. *Elepaio* 53:68.

- Fancy, S. G., T. K. Pratt, G. D. Lindsey, C. K. Harada, A. H. Parent, Jr., and J. D. Jacobi. 1993. Identifying sex and age of Apapane and liwi on Hawaii. *J. Field Ornith.* 64:262-269.
- Fancy, S. G., R. T. Sugihara, J. J. Jeffrey, and J. D. Jacobi. 1993. Site tenacity of the endangered Palila. *Wilson Bulletin* 105:587-596.
- Jeffrey, J. J., S. G. Fancy, G. D. Lindsey, P. C. Banko, T. K. Pratt, and J. D. Jacobi. 1993. Sex and age identification of Palila. *J. Field Ornith.* 64:490-499.
- Hansen, M. C., G. W. Garner, and S. G. Fancy. 1992. Comparison of three methods for evaluating activity of Dall's sheep. *J. Wildl. Manage.* 56:661-668.
- Walsh, N. E., S. G. Fancy, T. R. McCabe, and L. F. Pank. 1992. Habitat use by the Porcupine caribou herd during predicted mosquito harassment. *J. Wildl. Manage.* 56:465-473.
- Fancy, S. G. 1991. Caribou. Pages 200-207 In *Fantastic Journeys: the marvels of animal migration*. Merehurst Ltd., London. 240pp.
- Fancy, S. G. and K. R. Whitten. 1991. Calving site selection by Porcupine Herd caribou. *Canadian J. Zoology* 69:1736-1743.
- Russell, D. E., S. G. Fancy, K. R. Whitten, and R. G. White. 1991. Overwinter survival of orphan caribou calves. *Canadian Field-Naturalist* 105:103-105.
- Fancy, S. G., R. F. Farnell, and L. F. Pank. 1990. Social bonds among adult barren-ground caribou. *J. Mammalogy* 71:458-460.
- Harris, R.B., S.G. Fancy, D.C. Douglas, G.W. Garner, T.R. McCabe, and L.F. Pank. 1990. Tracking wildlife by satellite: current systems and performance. U.S. Fish & Wildlife Service Technical Report 30. 52pp.
- Eastland, W.G., R.T. Bowyer and S.G. Fancy. 1989. Effects of snow cover on selection of calving sites by caribou. *Journal of Mammalogy* 70:824-828.
- Fancy, S.G., L.F. Pank, K.R. Whitten and W.L. Regelin. 1989. Seasonal movements of caribou in arctic Alaska as determined by satellite. *Canadian Journal of Zoology* 67:644-650.
- Fancy, S.G., L.F. Pank, D.C. Douglas, C.H. Curby, G.W. Garner, S.C. Amstrup and W.L. Regelin. 1988. Satellite telemetry: a new tool for wildlife research and management. U.S. Fish and Wildlife Resource Publication No. 172. 54pp.
- Fancy, S.G. and R.G. White. 1987. Energy expenditures for locomotion by barren-ground caribou. *Canadian J. Zoology* 65:122-128.
- Klein, D.R., M. Meldgaard and S.G. Fancy. 1987. Factors determining leg length in *Rangifer tarandus*. *J. Mammalogy* 68:642-655.
- Fancy, S.G., J.M. Blanchard, D.F. Holleman, K.J. Kokjer and R.G. White. 1986. Validation of doubly labeled water method using a ruminant. *American J. Physiology* 251 (Regulatory, Integrative and Comparative Physiology 20): R143-R149.
- White, R.G. and S.G. Fancy. 1986. Nutrition and energetics of indigenous northern ungulates. Pages 259-269 In: O. Gudmundsson (ed.) *Grazing Research at Northern Latitudes*. Plenum Press, New York.
- Fancy, S.G. and R.G. White. 1985. Incremental cost of activity. p. 143-159 In: R.J. Hudson and R.G. White (eds.) *Bioenergetics of wild herbivores*. CRC Press, Boca Raton, FL. 314pp.
- Fancy, S.G. and R.G. White. 1986. Predicting energy expenditures for activities from heart rates of caribou. *Rangifer, Spec. Issue No. 1*:123-130.
- Fancy, S.G. and R.G. White. 1985. Energy expenditures by caribou while cratering in snow. *J. Wildlife Management* 49:987-993.
- Fancy, S.G. 1983. Movements and activity budgets of caribou near oil drilling sites in the Sagavanirktok River Floodplain, Alaska. *Arctic* 36:193-197.

Fancy, S.G. 1982. Reaction of bison to aerial surveys in Interior Alaska. *Canadian Field-Naturalist* 96:91.

Fancy, S.G. 1981. Daily movements of red squirrels. *Canadian Field-Naturalist* 95:348-350.

Fancy, S.G. 1980. Nest-tree selection by red squirrels in a boreal forest. *Canadian Field-Naturalist* 94:198.

Fancy, S.G. 1980. Preparation of mammalian teeth for age determinations by cementum layers: a review. *Wildlife Society Bulletin* 8:242-248.

Reports and Technical Publications

Coonan, T. J., Dye, L. C., and S. G. Fancy. 2011. Landbird monitoring protocol for Channel Islands National Park – Version 2.0. Natural Resource Report NPS/MEDN/NRR—2011/480. National Park Service, Fort Collins, Colorado.

Coonan, T. J., L. C. Dye, and S. G. Fancy. 2011. Landbird monitoring 2011 annual report, Channel Islands National Park. Natural Resource Data Series NPS/MEDN/NRDS—2011/214. National Park Service, Fort Collins, Colorado.

Farnsworth, G. L., J. D. Nichols, J. R. Sauer, S. G. Fancy, K. H. Pollock, S. A. Shriner, and T. R. Simons. 2005. Statistical approaches to the analysis of point count data: a little extra information can go a long way. *Bird Conservation Implementation and Integration in the Americas: Proceedings of the Third International Partners in Flight Conference 2002*. Gen. Tech Rep. PSW-GTR-191 (C. J. Ralph and T. D. Rich, Eds.). Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture, Albany, California, USA.

U.S. Fish and Wildlife Service. 2004. Recovery plan for Hawaiian forest birds. Region 1, Portland, OR. 428 pp. (recovery team leader 2000-2002)

Fancy, S. G. 1999. Monitoring natural resources in national parks: determining what and how to monitor. Pages 251-255 in: D. Harmon (ed.) *Proc. 10th Conf. on Research and Resource Manage. in Parks and on Public Lands*. George Wright Soc. Biennial Conference, March 22-26, 1999, Asheville, NC.

Fancy, S. G. 1996. Analyzing densities of rare birds by using variable circular-plot counts. *NBS Information Bulletin* No. 7.

Fancy, S. G. and T. J. Snetsinger. 1996. Potential reasons for the decline of the Bridled White-eye on Rota, Mariana Islands. Report to U.S. Fish and Wildlife Service, Honolulu.

Ballard, W. B., S. G. Fancy, P. R. Krausman, and W. P. Burger. 1994. Potential applications of satellite telemetry to wildlife studies in remote locations. *Proc. Intern. Wildlife Management Congress* 1:34-49.

Fancy, S. G. 1993. The early years of tracking wildlife by satellite. *Argos Newsletter* 47:5-7.

Fancy, S. G. and W. B. Ballard. 1993. Movements and activity of wolves monitored by satellite. *Research Information Bulletin*. U.S. Fish and Wildlife Service, Washington, D.C.

Pratt, T. K., and S. G. Fancy. 1993. Survival of Hawaiian finches not affected by blood sampling. *Research Information Bulletin* No. 20. U.S. Fish and Wildlife Service, Washington, D.C.

Whitten, K. R., S. G. Fancy, and N. E. Walsh. 1992. Effect of potential displacement of caribou from the 1002 area on mortality rates of calves. Pages 21-36 In T. R. McCabe, B. Griffith, N. E. Walsh, and D. D. Young, eds. *Terrestrial research: 1002 area - Arctic National Wildlife Refuge, Interim Rep., 1988-1990*. U. S. Fish and Wildlife Service, Anchorage, AK. 432 pp.

Cameron, R. D., S. G. Fancy, and W. T. Smith. 1992. Reproductive performance of caribou in relation to habitat availability and quality. Pages 67-78 In T. R. McCabe, B. Griffith, N. E. Walsh, and D. D. Young, eds. *Terrestrial research: 1002 area - Arctic National Wildlife Refuge, Interim Rep., 1988-1990*. U.S. Fish Wildlife Serv., Anchorage, AK. 432 pp.

Fancy, S. G., K. R. Whitten, N. E. Walsh, and R. D. Cameron. 1992. Population dynamics and demographics of caribou in developed and undeveloped areas of the arctic coastal plain. Pages 1-20 In T. R. McCabe, B. Griffith, N. E. Walsh, and D. D. Young, eds. *Terrestrial research: 1002 area - Arctic National Wildlife Refuge, Interim Rep., 1988-1990*. U. S. Fish and Wildlife Service, Anchorage, AK. 432pp.

- Cameron, R. D., W. T. Smith, and S. G. Fancy. 1991. Comparative body weights of pregnant/lactating and non-pregnant female caribou. Pages 109-114 In: Proc. 4th N. American Caribou Workshop, St. John's, Newfoundland, 1-3 November 1989.
- Eastland, W. G., R. G. White, and S. G. Fancy. 1991. Correlations of weather and autumn caribou movements. Pages 143-145 In: Proc. 4th N. American Caribou Workshop, St. John's, Newfoundland, 1-3 November 1989.
- Fancy, S. G. 1991. Use of telemetry in caribou studies: state of the art. Pages 357-361 In: Proc. 4th N. American Caribou Workshop, St. John's, Newfoundland, 1-3 November 1989.
- Fancy, S. G. 1991. Simulation models of caribou energy budgets during calving: potential oil development in the Arctic National Wildlife Refuge. Pages 146-156 In: Proc. 4th N. American Caribou Workshop, St. John's, Newfoundland, 1-3 November 1989.
- Nixon, W. A., S. G. Fancy, and C. J. Markkon. 1991. Porcupine caribou herd summer range in northern Yukon -land cover mapping and some patterns of caribou use. Pages 314-315 In: Proc. 4th N. American Caribou Workshop, St. John's, Newfoundland, 1-3 November 1989.
- Fancy, S. G., R. B. Harris, D. C. Douglas, L. F. Pank, K. R. Whitten, T. R. McCabe, S. C. Amstrup, and G. W. Garner. 1991. Applications of satellite telemetry to wildlife research and management in Alaska. Pages 5-12 In: Acte du colloque international: "suivi des vertebres terrestres par radiotelemetrie", Principality of Monaco, December 12-13, 1988. 191pp.
- Ballard, W. B., L. A. Ayres, S. G. Fancy, D. J. Reed, K. E. Roney, and M. A. Spindler. 1990. Demography and movements of wolves in relation to the western arctic caribou herd of northwest Alaska. Alaska Dept. Fish and Game, Research Progress Report, Juneau. AK. 92pp.
- Ballard, W. B., L. A. Ayres, S. G. Fancy, D. J. Reed and K. E. Roney. 1990. Demography of Noatak grizzly bears in relation to human exploitation and mining development. Alaska Dept. Fish and Game, Research Progress Rept., Juneau, AK. 96pp.
- Cameron, R. D., W. T. Smith, and S. G. Fancy. 1990. Distribution and productivity of the Central Arctic caribou herd in relationship to petroleum development. Fed. Aid in Wildl. Rest. Progress Report, Proj. W-23-2 and W-23-3. Alaska Dept. Fish and Game, Juneau. 32pp.
- Cameron, R. D., S. G. Fancy, and W. T. Smith. 1990. Reproductive performance of caribou in relation to habitat availability and quality. In T. R. McCabe, ed., Terrestrial research: 1002 area - Arctic National Wildlife Refuge, Ann. Prog. Rep., 1989. U. S. Fish and Wildlife Service, Anchorage, AK. 168 pp.
- Fancy, S. G., K. R. Whitten and R. D. Cameron. 1990. Population dynamics and demographics of caribou in developed and undeveloped areas of the Arctic coastal plain. In T. R. McCabe, ed., Terrestrial research: 1002 area - Arctic National Wildlife Refuge, Ann. Prog. Rep., 1989. U. S. Fish and Wildlife Service, Anchorage, AK. 168 pp.
- Whitten, K. R. and S. G. Fancy. 1990. Effect of potential displacement of caribou from the 1002 area on mortality rates of calves. In T. R. McCabe, ed., Terrestrial research: 1002 area - Arctic National Wildlife Refuge, Ann. Prog. Rep., 1989. U. S. Fish and Wildlife Service, Anchorage, AK. 168 pp.
- Whitten, K. R. and S. G. Fancy. 1990. Movement patterns of the Porcupine Caribou Herd in relation to oil development. Alaska Dept. of Fish and Game, Research Prog. Rept., Juneau, AK. 50 pp.
- Ballard, W. B., and S. G. Fancy. 1989. Satellite radio-tracking of wolves. IUCN/SSC Wolf Specialist Group, Univ. Alaska, Fairbanks, AK. 17pp.
- Cameron, R. D., S. G. Fancy, and W. T. Smith. 1989. Reproductive performance of caribou in relation to habitat availability and quality. Pages 39-60 in T. R. McCabe, ed., Terrestrial research: 1002 area - Arctic National Wildlife Refuge, Ann. Prog. Rep., 1988. U. S. Fish and Wildlife Serv., Anchorage, AK. 168pp.
- Cameron, R. D., W. T. Smith, and S. G. Fancy. 1989. Distribution and productivity of the Central Arctic caribou herd in relationship to petroleum development. Fed. Aid in Wildl. Rest. Progress Report, Proj. W-23-1 and W-23-2. Alaska Dept. Fish and Game, Juneau. 52pp.

- Fancy, S. G., K. R. Whitten, R. D. Cameron, and R. B. Harris. 1989. Population dynamics and demographics of caribou in developed and undeveloped areas of the Arctic coastal plain. Pages 1-11 in T. R. McCabe, ed., *Terrestrial research: 1002 area - Arctic National Wildlife Refuge*, Ann. Prog. Rep., 1988. U. S. Fish and Wildlife Service, Anchorage, AK. 168pp.
- Fancy, S. G., K. R. Whitten, and R. B. Harris. 1989. Population status and trend of the Porcupine Caribou Herd, 1988. Annual Wildlife Inventory in T. R. McCabe, ed., *Terrestrial research: 1002 area - Arctic National Wildlife Refuge*, Ann. Prog. Rep., 1988. U. S. Fish and Wildlife Serv., Anchorage, AK. 168pp.
- Whitten, D. R., T. J. Roffe, R. B. Harris, and S. G. Fancy. 1989. Effect of potential displacement of caribou from the 1002 area on mortality rates of calves. Pages 12-24 in T. R. McCabe, ed., *Terrestrial research: 1002 area - Arctic National Wildlife Refuge*, Ann. Prog. Rep., 1988. U. S. Fish and Wildlife Serv., Anchorage, AK. 168pp.
- Fancy, S.G., R.B. Harris, D.C. Douglas, L.F. Pank, K.R. Whitten, T.R. McCabe, S.C. Amstrup and G.W. Garner. 1988. Applications of satellite telemetry to wildlife research and management in Alaska. Acte du colloque international: "Suivi des vertebres terrestres par radiotelemetrie", Principaute de Monaco, December 12-13, 1988.
- Fancy, S.G., K.R. Whitten, L.F. Pank, W.L. Regelin, and R.B. Harris. 1988. Seasonal movements and activity of the Porcupine and Central Arctic herds determined by satellite telemetry. *Alaska Wildl. Tech. Bull.* 8:185.
- Fancy, S.G. and R.G. White. 1987. Daily energy budgets of barren-ground caribou during spring migration. *Proc. 2nd Intern. Symp. on Nutrition of Herbivores*, Brisbane, Australia.
- Fancy, S.G., L.F. Pank, W.L. Regelin, D.C. Douglas, S.C. Amstrup and G.W. Garner. 1987. Development and evaluation of a system for tracking wildlife by satellite. *Proc. 2nd Intern. Symp. on Nutrition of Herbivores*, Brisbane, Australia.
- Fancy, S.G. and M.N. Silbert. 1987. Satellite-aided recovery of auroral rocket payload in northern Alaska. *Proc. Intern. Argos User's Conference*, Landover, Md.
- Klein, D.R., P.E. Reynolds and S.G. Fancy. 1987. Testing and calibration of activity-monitoring radio collars on captive muskoxen. *Proc. 2nd Intern. Muskox Symp.*, Saskatoon, Saskatchewan.
- Pank, L.F., S.G. Fancy, M.C. Hansen and W.L. Regelin. 1987. Remote sensing of animal location and activity via satellite. *Proc. Intern. Congress Game Biologists*, Krakow, Poland.
- Pank, L.F., W.L. Regelin, C.H. Curby and S.G. Fancy. 1987. Caribou use of potential oil and gas development areas in the 1002 region of the Arctic National Wildlife Refuge. In: G.W. Garner and P.E. Reynolds (eds.), 1985 update report, baseline study of the fish, wildlife and their habitats. U.S. Fish and Wildlife Service, Anchorage, AK.
- Fancy, S. G. (editor). 1982. An evaluation of the environmental data base and environmental issues and concerns related to Bering Sea oil and gas exploration and development. Report to SOHIO Alaska Petroleum Co., Anchorage, AK. 3 vols. 356pp.
- Fancy, S.G. 1982. Some aspects of the environmental effects of air cushion vehicle operations in the arctic. State of Alaska, Dept. of Transportation and Public Facilities. AK-RD-82-28. 27pp.
- Fancy, S.G. and J.M. Wright. 1982. Caribou investigations. In: LGL Alaska Research Assoc. Biological and archaeological investigations in the vicinity of the proposed Duck Island Unit pipeline through the Sagavanirktok River Delta, Alaska. Report to Exxon Co., USA. 85pp.
- Fancy, S.G. 1981. Movements and activities of caribou at drill sites 16 and 17, Prudhoe Bay, Alaska: the second year. Report to the Prudhoe Bay unit owners by LGL Alaska Research Assoc., Fairbanks. 44pp.
- Douglass, R.J., J.M. Wright, S.G. Fancy, E.H. Follmann and J.L. Hechtel. 1980. Assessment of the knowledge of potential effects of the Northwest Alaskan pipeline project on mammals: literature review and agency input. Report to Northwest Alaskan Pipeline Co. by LGL Alaska Research Assoc., Fairbanks. 150pp.
- Fancy, S.G. 1980. Spring studies of Dall sheep along the Northwest Alaskan pipeline route. Report to Northwest Alaskan Pipeline Co. by LGL Alaska Research Assoc., Fairbanks. 13pp.
- Fancy, S.G. 1980. Spring studies of bison along the Northwest Alaskan pipeline route. Report to Northwest Alaskan Pipeline Co. by LGL Alaska Research Assoc., Fairbanks. 11pp.

Fancy, S.G., J.M. Wright and R.J. Douglass. 1980. Movements and activities of caribou at drill sites 16 and 17, Prudhoe Bay, Alaska. Report to the Prudhoe Bay unit owners by LGL Alaska Research Assoc., Fairbanks. 57pp.

Wright, J.M. and S.G. Fancy. 1980. The responses of birds and caribou to the 1980 drilling operation at the Point Thompson No. 4 well. Report to Exxon Co., USA by LGL Alaska Research Assoc., Fairbanks. 54pp.