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References

- Aaris-Sorensen, J. (1996). Road-kills of badgers (*Meles meles*) in Denmark. *Annales Zoologici Fennici* 32: 31–36.
- Abrams, P. A. (1996). Evolution and the consequences of species introductions and deletions. *Ecology* 77: 1321–1328.
- Abramsky, Z., Bowers, M. A. & Rosenzweig, M. L. (1986). Detecting interspecific competition in the field: testing the regression method. *Oikos* 47: 199–204.
- Ackerman, B. B., Hemker, T. P., Lindzey, F. G. & Button, A. J. (1981). Cougar numbers in the Henry Mountains, Utah. *Encyclia* 58: 57–62.
- Addin Enbbu, Baillie, J. & Groombridge, B. (1996). 1996 IUCN Red List of Threatened Animals. Gland: IUCN.
- Addin Enbbu, Balmford, A., Mace, G. M. & Leader-Williams, N. (1996). Redesigning the ark: setting priorities for captive breeding. *Conservation Biology* 10: 719–727.
- Addison, R. F. & Brodie, P. F. (1987a). Organochlorine residues in maternal blubber, milk, and pup blubber from grey seals (*Halichoerus grypus*) from Sable Island, Nova Scotia. *Journal of the Fisheries Research Board Canada* 34: 937–941.
- Addison, R. F. & Brodie, P. F. (1987b). Transfer of organochlorine residues from blubber through the circulatory system to milk in the lactating grey seal *Halichoerus grypus*. *Canadian Journal of Fisheries and Aquatic Sciences* 44: 782–786.
- Addison, R. F., Zinck, M. E. & Smith, T. G. (1986). PCBs have declined more than DDT-group residues in Arctic ringed seals (*Phoca hispida*) between 1972 and 1981. *Environmental Science and Technology* 20: 253–256.
- Adorjan, A. S. & Kolenosky, G. B. (1969). A manual for the identification of hairs of selected Ontario mammals. *Ontario Department of Lands and Forests Research Report* No. 90.
- Aguirre, A. A. (1998). Biomedical management of the most endangered pinniped in US waters: the Hawaiian monk seal (*Monarchus schauinslandii*). *Proceedings of the AAZV and AAWV Joint Conference* p. 374.
- Aitken, G. (1997). Conservation and individual worth. *Environmental Values* 6: 439–454.
- Aitken, G. (1998). Extinction. *Biology and Philosophy* 13: 393–411.
- Albrecht, G. (1998). Thinking like an ecosystem: the ethics of the relocation, rehabilitation and release of wildlife. *Animal Issues* 2: 21–46.
- Aldrich, P. & Hamrick, J. (1998). Reproductive dominance of pasture trees in a

- fragmented tropical forest mosaic. *Science* 281: 103–105.
- Alexander, K. A. & Appel, M. J. G. (1994). African wild dogs (*Lycaon pictus*) endangered by a canine distemper epidemic among domestic dogs near the Masai Mara National reserve Kenya. *Journal of Wildlife Diseases* 30: 481–485.
- Alexander, K. A., Kat, P. W., Frank, L. G., Holekamp, K. E., Smale, L., House, C. & Appel, M. J. G. (1995). Evidence of canine distemper virus infection among free-ranging spotted hyenas (*Crocuta crocuta*) in the Masai Mara, Kenya. *Journal of Zoo and Wildlife Medicine* 26: 201–206.
- Alexander, K. A., MacLachlan, N. J., Kat, P. W., House, C., O'Brien, S. J., Lerche, N. W., Sawyer, M., Frank, L. G., Holekamp, K., Smale, L., McNutt, J. W., Laurenson, M. K., Mills, M. G. L. & Osburn, B. I. (1994). Evidence of natural blue-tongue virus infection among African carnivores. *American Journal of Tropical Medicine and Hygiene* 51: 568–576.
- Alexander, K. A., Smith, J. S., Macharia, M. J. & King, A. A. (1993). Rabies in the Masai Mara, Kenya: a preliminary report. *Onderstepoort Journal of Veterinary Research* 60: 411–414.
- Allee, W. C. (1931). *Animal Aggregations. A Study in General Sociology*. Chicago: University of Chicago Press.
- Allen, L. & Engeman, R. (1995). Assessing the impact of dingo predation on wildlife using an activity index. *Australian Vertebrate Pest Control Conference* 10: 72–79.
- Allen, L., Engeman, R. M. & Krupa, H. W. (1996). Evaluation of three relative abundance indices for assessing dingo populations. *Wildlife Research* 23: 197–206.
- Allen, P. J., Amos, W., Pomeroy, P. P. & Twiss, S. D. (1995). Microsatellite variation in grey seals (*Halichoerus grypus*) shows evidence of genetic differentiation between two British breeding colonies. *Molecular Ecology* 4: 653–662.
- Allen, S. H. (1984). Some aspects of reproductive performance in female red fox in North Dakota. *Journal of Mammalogy* 65: 236–255.
- Allen, S. H. & Sargeant, A. B. (1975). A rural mail-carrier index of North Dakota red foxes. *Wildlife Society Bulletin* 3: 74–77.
- Allen, S. H. & Sargeant, A. B. (1993). Dispersal patterns of red foxes relative to population density. *Journal of Wildlife Management* 57: 526–533.
- Alterio, N., Brown, K. & Moller, H. (1997). Secondary poisoning of mustelids in a New Zealand nothofagus forest. *Journal of Zoology* 243: 863–869.
- Amarasekare, P. (1994). Ecology of introduced small mammals on western Mauna Kea, Hawaii. *Journal of Mammalogy* 75: 24–38.
- Amos, W., Twiss, S. D., Pomeroy, P. P. & Anderson, S. S. (1993). Male mating success and paternity in the grey seal, *Halichoerus grypus*: a study using DNA fingerprinting. *Proceedings of the Royal Society of London, Series B, Biological Sciences* 252: 199–207.
- Andelt, W. F. & Andelt, S. H. (1984). Diet bias in scat deposition-rate surveys of coyote density. *Wildlife Society Bulletin* 12: 74–77.
- Andersen, L. W., Born, E. W., Gjertz, I., Wiig, O., Holm, L.-E. & Bendixen, C. (1998). Population structure and gene flow of the Atlantic walrus (*Odobenus rosmarus rosmarus*) in the eastern Atlantic Arctic based on mitochondrial DNA and microsatellite variation. *Molecular Ecology* 7: 1323–1336.
- Anderson, A. E. (1983). A critical review of literature on puma (*Felis concolor*). *Colorado Division of Wildlife, Special Report* 54: 1–91.
- Anderson, D. R. (1997). *Corridor Use, Feeding Ecology, and Habitat Relationships of*

- Black Bears in a Fragmented Landscape in Louisiana*. Unpublished M.S. thesis, University of Tennessee, Knoxville.
- Anderson, J. L. (1981). The re-establishment and management of a lion population in Zululand, South Africa. *Biological Conservation* 19: 107–117.
- Anderson, R. M. & May, R. M. (1978). Regulation and stability of host–parasite population interactions. I. Regulatory processes. *Journal of Animal Ecology* 47: 219–247.
- Anderson, S. S. & Hawkins, A. D. (1978). Scaring seals by sound. *Mammal Review* 8: 19–24.
- Andrén, H. (1994). Effects of habitat fragmentation on birds and mammals in landscapes with different proportions of suitable habitat: a review. *Oikos* 71: 355–366.
- Andrén, H. (1995). Effects of landscape composition on predation rates at habitat edges. In *Mosaic Landscapes and Ecological Processes*, eds L. Hansson, L. Fahrig & G. Merriam, pp. 225–255. London: Chapman & Hall.
- Andrén, H. (1999). Habitat fragmentation, the random sample hypothesis and critical thresholds. *Oikos* 84: 306–308.
- Andrews, R. D. (1979). Furbearer population surveys and techniques: their problems and uses in Iowa. In *Proceedings of the Midwest Furbearer Conference*. Kansas State University, Coop. Ext. Serv., Manhattan, pp. 45–55.
- Angelstam, P., Lindstrom, E. & Widen, P. (1984). Role of predation in short-term population fluctuations of some birds and mammals in Fennoscandia. *Oecologia* 62: 199–208.
- Angerbjörn, A., Tannerfeldt, M. & Erlinge, S. (1999). Predator–prey relationships: arctic foxes and lemmings. *Journal of Animal Ecology* 68: 34–49.
- Angerbjörn, A., Arvidson, B., Noren, E. & Stromgren, L. (1991). The effect of winter food on reproduction in the arctic fox, *Alopex lagopus*: a field experiment. *Journal of Animal Ecology* 60: 705–714.
- Anon. (1989). Wolf persecution continues in Norway. *Oryx* 23: 106.
- Anon. (1999a). South China tiger killed one person – five tigers believed to survive in Jiangxi Province. *People's Daily (Beijing)* July 22.
- Anon. (1999b). Colorado lynx re-introduction sparks bitter controversy. *Cat News* 30: 15.
- Anthony, R. M. (1996). Den use by arctic foxes (*Alopex lagopus*) in a subarctic region of western Alaska. *Canadian Journal of Zoology* 74: 627–631.
- Anzalone, C. R., Bench, G. S., Balhorn, R. & Wildt, D. E. (1998). Chromatin alterations in sperm of teratospermic domestic cats. *Proceedings of the Society for the Study of Reproduction, Biology of Reproduction Supplement*, abstract 364.
- Apps, P. J. (1984). Cats on Dassen Island. *Acta Zoologica Fennica* 172: 115–116.
- Arcese, P., Hando, J. & Campbell, K. (1995). Historical and present-day anti-poaching efforts in Serengeti. In *Serengeti II: Dynamics, Conservation and Management of an Ecosystem*, eds A. R. E. Sinclair & P. Arcese, pp. 506–533. Chicago: University of Chicago Press.
- Arnason, A. N., Schwarz, C. J. & Gerrard, J. M. (1991). Estimating closed population size and number of marked animals from sighting data. *Journal of Wildlife Management* 55: 716–730.
- Arnason, U., Bodin, K., Gullberg, A., Ledje, C. & Mouchaty, S. (1995). A molecular view of pinniped relationships with particular emphasis on the true seals. *Journal of Molecular Evolution* 40: 78–85.

- Arnold, M. L. (1997). *Natural Hybridization and Evolution*. Oxford: Oxford University Press.
- Artois, M. & Aubert, M. F. A. (1985). Behaviour of rabid foxes. *Revue d'Écologie (La Terre et la Vie)* **40**: 171–176.
- Artois, M., Aubert, M. & Stahl, P. (1990). Organization spatiale du renard roux (*Vulpes vulpes* L., 1758) en zone d'enzootie de rage en Lorraine. *Revue d'Écologie (La Terre et la Vie)* **45**: 113–134.
- Artois, M. & Redmond, M. (1994). Viral diseases as a threat to free-living wild cats (*Felis silvestris*) in continental Europe. *Veterinary Record* **134**: 651–652.
- Ashmole, N. P., Ashmole, M. J. & Simmons, K. E. L. (1994). Seabird conservation and feral cats on Ascension Island, South Atlantic. In *Seabirds on Islands, Threats, Case Studies and Action Plans*, eds D. N. Nettleship, J. Burger & M. Gochfeld, pp. 94–121. Cambridge: Birdlife International.
- Asquith, P. J. (1996). Japanese science and western hegemonies: primatology and the limits set to questions. In *Naked Science: Anthropological Inquiry into Boundaries, Power, and Knowledge*, ed. L. Nader, pp. 239–256. New York: Routledge.
- Associated Press (1994). Cougar is killed for jogger's death. *New York Times*, May 2, p. 1, A23.
- Atkinson, I. (1989). Introduced animals and extinctions. In *Conservation for the Twenty-first Century*, eds D. Western & M. Pearl, pp. 54–75. Oxford: Oxford University Press.
- Atkinson, I. A. E. (1996). Introductions of wildlife as a cause of species extinctions. *Wildlife Biology* **2**: 135–141.
- Atkinson, I. A. E. & Cameron, E. K. (1993). Human influence on the terrestrial biota and biotic communities of New Zealand. *Trends in Ecology and Evolution* **8**: 447–451.
- Atkinson, M. W. & Wood, P. (1995). The re-introduction of the cheetah into the Matusadona National Park, Zimbabwe. *Re-Introduction News* **10**: 7–8.
- Aubert, M. F. A. (1993). Control of rabies in wildlife by depopulation. In *Proceedings of International Conference on Epidemiology, Control and Prevention of Rabies in Eastern and Southern Africa 1992*, ed. A. A. King, pp. 141–145. Lyon: Editions Foundation Marcel Merieux.
- Aune, K. E. (1991). Increasing mountain lion populations and human–mountain lion interactions in Montana. In *Mountain lion – human Interactions*, ed. C. L. Braun, pp. 86–94. Denver: Symposium of Colorado Division for Wildlife.
- Avise, J. C. (1989). Role of molecular genetics in recognition and conservation of endangered species. *Trends in Ecology and Evolution* **4**: 279–281.
- Avise, J. C. (1994). *Molecular Markers, Natural History, and Evolution*. New York: Chapman and Hall.
- Avise, J. C. (1996). Toward a regional conservation genetics perspective: phylogeography of faunas in the Southeastern United States. In *Conservation Genetics: case histories from nature*, eds J. C. Avise & J. L. Hamrick, pp. 431–467. New York: Chapman and Hall.
- Avise, J. C. & Ball, R. M. (1990). Principles of genealogical concordance in species concepts and biological taxonomy. In *Oxford Surveys in Evolutionary Biology*, vol. 7, eds D. Futuyma & J. Antonovics, pp. 54–67. Oxford: Oxford University Press.
- Avise, J. C. & Nelson, W. S. (1989). Molecular genetic relationships of the extinct Dusky seaside sparrow. *Science* **243**: 646–648.

- Ayres, J. M., de Magalhaes Lima, D., de Souza Martins, E. & Barreiros, J. L. K. (1991). On the track of the road: changes in subsistence hunting in a Brazilian Amazonian Village. In *Neotropical Wildlife Use and Conservation*, eds J. G. Robinson & K. H. Redford, pp. 82–91. Chicago: Chicago University Press.
- Bacon, P. J. (1985). *Population Dynamics of Rabies in Wildlife*. London: Academic Press.
- Badridze, J. (1999). Preparing captive-raised wolves for re-introduction, Georgia, Commonwealth of Independent States (C.I.S.). *Re-Introduction News* 18: 5–6.
- Bailey, E. P. (1992). Red foxes, *Vulpes vulpes*, as biological control agents for introduced arctic foxes, *Alopex lagopus*, on Alaskan islands. *Canadian Field-Naturalist* 106: 200–205.
- Bailey, E. P. (1993). Introduction of foxes to Alaskan islands: history, effects on avifauna, and eradication. *Resource Publication* No. 198. Washington, D.C.: U.S. Fish and Wildlife Service.
- Bailey, E. P. & Kaiser, G. W. (1993). Impacts of introduced predators on nesting seabirds in the northeast Pacific. In *The Status, Ecology, and Conservation of Marine Birds of the North Pacific*, eds K. Vermeer, K. T. Briggs, K. H. Morgan & D. Siegel-Causey, pp. 218–226. Ottawa, Ontario: Canadian Wildlife Service Special Publication.
- Bailey, J. L., Snow, N. B., Carpenter, A. & Carpenter, L. (1995). Cooperative wildlife management under the Western Arctic Inuvialuit. In *Integrating People and Wildlife for a Sustainable Future*, eds J. A. Bissonette & P. R. Krausmann, pp. 11–15. Bethesda, MA: The Wildlife Society.
- Bailey, T. N. (1971). Biology of striped skunks on a southwestern Lake Erie marsh. *American Midland Naturalist* 85: 196–207.
- Bailey, T. N. (1993). *The African Leopard: Ecology and Behavior of a Solitary Felid*. New York: Columbia University Press.
- Bailey, T. N., Bangs, E. E., Portner, M. F., Malloy, J. C. & McAvinchey, R. M. (1986). An apparent overexploited lynx population on the Kenai peninsula Alaska. *Journal of Wildlife Management* 50: 279–290.
- Baillie, J. & Groombridge, B. (Eds) (1996). *The 1996 IUCN Red List of Threatened Animals*. Gland: IUCN.
- Baker, C. S. & Palumbi, S. R. (1994). Which whales are hunted? A molecular genetic approach to monitoring whaling. *Science* 265: 1538–1539.
- Baker, M., Nur, N. & Geupel, G. R. (1995). Correcting biased estimates of dispersal and survival due to limited study area: theory and an application using wrentits. *Condor* 97: 663–674.
- Baker, P. J., Funk, S. M., Harris, S. & White, P. C. L. (2000). Flexible spatial organisation of urban foxes (*Vulpes vulpes*) before and during an outbreak of sarcoptic mange. *Animal Behaviour* 59: 127–146.
- Baker, S. E. & Macdonald, D. W. (2000). Foxes and foxhunting on farms in Wiltshire: a case study. *Journal of Rural Studies* 16: 185–201.
- Baker, S. J. (1986). Irresponsible introductions and reintroductions of animals into Europe with particular reference to Britain. *International Zoo Yearbook* 24/25: 200–205.
- Balding, D. & Nichols, R. (1994). DNA profile match probability calculation: how to allow for population stratification, relatedness, database selection and single bands. *Forensic Science International* 64: 125–140.

- Baldwin, P. H., Schwartz, C. W. & Schwartz, E. R. (1952). Life history and economic status of the mongoose in Hawaii. *Journal of Mammalogy* 33: 335–356.
- Balharry, D. & Daniels, M. J. (1997). Wild living cats in Scotland. *Scottish National Hert. Research, Survey and Monitoring Rep.* No. 23.
- Ballard, W. B., Edwards, M., Fancy, S. G., Boe, S. & Krausman, P. R. (1998). Comparison of VHF and satellite telemetry for estimating sizes of wolf territories in northwest Alaska. *Wildlife Society Bulletin* 26: 823–829.
- Ballard, W. B., McNay, M. E., Gardner, C. L. & Reed, D. J. (1995). Use of line-intercept track sampling for estimating wolf densities. In *Ecology and Conservation of Wolves in a Changing World*, L. N. Carbyn., S. H. Fritts & D. R. Seip, pp. 469–480. Canadian Circumpolar Institute Occasional Publication No. 35. Edmonton, Alberta.
- Ballard, W. B., Whitman, J. S. & Gardner, C. L. (1987). Ecology of an exploited wolf population in south-central Alaska. *Wildlife Monographs* 98: 1–54.
- Balmford, A. (1996). Extinction filters and current resilience: the significance of past selection pressures for conservation biology. *Trends in Ecology and Evolution* 11: 193–196.
- Balmford, A. & Gaston, K. J. (1999). Why biodiversity surveys are good value. *Nature* 398: 204–205.
- Balmford, A., Mace, G. M. & Ginsberg, J. R. (1998). The challenges to conservation in a changing world: putting processes on the map. In *Conservation in a Changing World*, eds G. M. Mace, A. Balmford & J. R. Ginsberg, pp. 1–28. Cambridge: Cambridge University Press.
- Ballou, J., Gilpin, M. & Foose, T. (1994). *Population Management for Survival and Recovery*. Cambridge: Cambridge University Press.
- Banfield, A. W. F. (1974). *The Mammals of Canada*. Toronto: University of Toronto Press.
- Bangs, E. E., Fritts, S. H., Fontaine, J. A., Smith, D. W., Murphy, K. M., Mack, C. M. & Niemeyer, C. C. (1998). Status of gray wolf restoration in Montana, Idaho, and Wyoming. *Wildlife Society Bulletin* 26: 785–798.
- Barbour, R. W. & Davis, W. H. (1974). *Mammals of Kentucky*. Lexington: University of Kentucky Press.
- Barlough, J. E., Berry, A. S., Skilling, D. E., Smith, A. W. & Fay, F. H. (1986). Antibodies to marine calciviruses in the Pacific walrus (*Odobenus rosmarus divergens* Illiger). *Journal of Wildlife Diseases* 22: 165–168.
- Barlow, N. D. (1996). The ecology of wildlife disease control: simple models revisited. *Journal of Applied Ecology* 33: 303–314.
- Barnes, R. F. W. & Tapper, S. C. (1985). A method for counting hares by spotlight. *Journal of Zoology* (London) 206: 273–276.
- Barnes, V. G., Smith, R. B., Udevitz, M. S. & Bellinger, J. R. (1995). Kodiak brown bears. In *Our Living Resources: A Report to the Nation on the Distribution, Abundance, and Health of U.S. Plants, Animals, and Ecosystems*, eds E. T. LaRoe, G. S. Farris, C. E. Puckett, P. D. Doran & M. J. Mac, pp. 349–350. Washington, DC: National Biological Service.
- Barone, M. A., Roelke, M. E., Howard, J., Brown, J. L., Anderson, A. E. & Wildt, D. E. (1994). Reproductive characteristics of male Florida panthers: comparative studies of *Felis concolor* from Florida, Texas, Colorado, Chile, and North American Zoos. *Journal of Mammalogy* 75: 150–162.

- Barrett, C. B. & Arcese, P. (1995). Are integrated conservation-development projects (ICDPs) sustainable? *World Development* **23**: 1073–1084.
- Barreto, G. R., Rushton, S. P., Strachan, R. & Macdonald, D. W. (1998). The role of habitat and mink predation in determining the status and distribution of declining populations of water voles in England. *Animal Conservation* **1**: 129–137.
- Barrett, R. H. (1983). Smoked aluminum track plots for determining furbearer distribution and relative abundance. *California Department of Fish and Game* **69**: 188–190.
- Barrett, T. (1999). Morbillivirus infections, with special emphasis on morbilliviruses of carnivores. *Veterinary Microbiology* **69**: 3–13.
- Barrow, E., Gichochi, H. & Infield, M. (2000). Community conservation in East Africa: a comparative analysis. In *African Wildlife and African Livelihoods: The Promise and Performance of Community Conservation*, eds D. Hulme & M. Murphree. Oxford: James Currey.
- Barrowclough, G. F. (1978). Sampling bias in dispersal studies based on finite area. *Bird Banding* **49**: 333–341.
- Bartlett, M. S. (1957). Measels periodicity and community size. *Journal of the Royal Statistical Society A* **120**: 48–70.
- Bartlett, P. C. & Martin, R. J. (1982). Skunk rabies surveillance in Illinois. *Journal of American Veterinary Medical Association* **180**: 1448–1450.
- Bauer, E. A. & Bauer, P. (1996). *Bear Behaviour, Ecology and Conservation*. Stillwater: Voyageur Press.
- Beasom, S. L. (1974a). Relationships between predator removal and white-tailed deer net productivity. *Journal of Wildlife Management* **38**: 854–859.
- Beasom, S. L. (1974b). Intensive short-term predator removal as a game management tool. *Transactions of the North American Wildlife and Natural Resources Conference* **39**: 230–240.
- Beck, B. B. (1996). Reintroduction of captive-bred animals. In *The Well-being of Animals in Zoo and Aquarium Sponsored Research*, eds G. M. Burghardt, J. T. Bielitzki, R. Boyce & D. O. Schaeffer, pp. 61–65. Greenbelt, MD: Scientists Center for Animal Welfare.
- Beck, B. B., Rapaport, L. G., Stanley Price, M. R. & Wilson, A. C. (1994). Reintroduction of captive-born animals. In *Creative Conservation. Interactive Management of Wild and Captive Animals*, eds P. J. S. Olney, G. M. Mace & A. T. C. Feistner, pp. 265–286. London: Chapman & Hall.
- Beck, G. G., Smith, T. G. & Addison, R. F. (1994). Organochlorine residues in harp seals, *Phoca groenlandica*, from the Gulf of St. Lawrence and Hudson Strait: an evaluation of contaminant concentrations and burdens. *Canadian Journal of Zoology* **72**: 174–182.
- Beck, M. L. & Kennedy, M. L. (1980). Biochemical genetics of the raccoon, *Procyon lotor*. *Genetica* **54**: 127–132.
- Beck, T. (1990). River otter recovery program. Job progress report Colorado Division of Wildlife.
- Beckmen, K. B., Lowenstine, L. J., Newman, J. Hill, J., Hanni, K. & Gerber, J. (1997). Clinical and pathological characterization of northern elephant seal skin disease. *Journal of Wildlife Diseases* **33**: 438–449.
- Berli P. & Felsenstein, J. (1999). Maximum-likelihood estimation of migration rates and effective population numbers in two populations using a coalescent

- approach. *Genetics* **152**: 763–773.
- Begon, M., Harper, J. L. & Townsend, C. R. (1990). *Ecology: Individuals, Populations and Communities*. 2nd edn. Boston: Blackwell Scientific Publications.
- Begon, M., Bowers, R. G., Kadianakis, N. & Hodgkinson, D. E. (1992). Disease and community structure – the importance of host self-regulation in a host–host–pathogen model. *American Naturalist* **139**: 1131–1150.
- Beier, P. (1991). Cougar attacks on humans in the United States and Canada. *Wildlife Society Bulletin* **19**: 403–412.
- Beier, P. (1993). Determining minimum habitat areas and habitat corridors for cougars. *Conservation Biology* **7**: 94–108.
- Beier, P. (1995). Dispersal of juvenile cougars in fragmented habitat. *Journal of Wildlife Management* **59**: 228–237.
- Beier, P. (1996). Metapopulation models, tenacious tracking and cougar conservation. In *Metapopulations and Wildlife Conservation*, ed. D. R. McCullough, pp. 293–323. Washington, DC: Island Press.
- Beier, P. & Cunningham, S. C. (1996). Power of track surveys to detect changes in cougar populations. *Wildlife Society Bulletin* **24**: 540–546.
- Bekoff, M. (1995). Naturalizing and individualizing animal well-being and animal minds: an ethologist's naiveté exposed? In *Wildlife Conservation, Zoos, and Animal Protection. A Strategic Analysis*, ed. A. Rowan, pp. 63–129. Grafton, MA: Tufts Center for Animals and Public Policy.
- Bekoff, M. (Ed.) (1998a). *Encyclopedia of Animal Rights and Animal Welfare*. Westport, CT: Greenwood Publishing Group.
- Bekoff, M. (1998b). Resisting speciesism and expanding the community of equals. *BioScience* **48**: 638–641.
- Bekoff, M. (1998c). Deep ethology, animal rights, and the Great Ape/Animal Project: Resisting speciesism and expanding the community of equals. *Journal of Agricultural and Environmental Ethics* **10**: 269–296.
- Bekoff, M. (1999). Lynx and academic freedom. *Boulder Camera*, July 22, 7A. (<http://www.bouldernews.com/opinion/columnists/bekmarc.html>)
- Bekoff, M. & Elzanowski A. (1997). Collecting birds: The importance of moral debate. *Bird Conservation International* **7**: 357–361.
- Bekoff, M. & Jamieson, D. (1996). Ethics and the study of carnivores. In *Carnivore Behavior, Ecology, and Evolution*, ed. J. L. Gittleman, pp. 16–45. Ithaca: Cornell University Press.
- Belanger, D. O. (1988). *Managing American Wildlife, A History of the International Association of Fish and Wildlife Agencies*. Amherst: The University of Massachusetts Press.
- Beldon, R. C., Frankenberger, W. B. & Roof, J. C. (1997). Florida panther distribution. In *Proceedings of the Florida Panther Conference*, ed. D. B. Jordan, pp. 47–70. Washington, DC: U.S. Fish and Wildlife Service.
- Beldon, R. C., Hagdorn, B. W. & Frankenberger, W. B. (1990). Panther captive breeding/reintroduction feasibility. *Final Performance Report, Florida Panther Research, 1 July 1985–30 July 1990*.
- Beldon, R. C. & McCown, J. W. (1996). Florida panther reintroduction feasibility study. *Final Report, Study No 7507*. Tallahassee, FL: Florida Game and Fresh Water Fish Commission.
- Ben-David, M., Bowyer, R. T. & Faro, J. B. (1995). Niche separation by mink and

- river otters: coexistence in a marine environment. *Oikos* 75: 41–48.
- Ben-David, M., Flynn, R. W. & Schell, D. M. (1997). Annual and seasonal changes in diets of martens: evidence from stable isotope analysis. *Oecologia* 111: 280–291.
- Bender, D. J., Contreras, T. A. & Fahrig, L. (1998). Habitat loss and population decline: a meta-analysis of the patch size effect. *Ecology* 79: 517–533.
- Bengtson J. L., Boveng, P., Franzen, U., Have, P., Heide-Jørgensen, M. P. & Härkönen, T. J. (1991). Antibodies to canine distemper virus in Antarctic seals. *Marine Mammal Science* 7: 85–87.
- Benitez-Malvido, J. (1998). Impact of forest fragmentation on seedling abundance in a tropical rain forest. *Conservation Biology* 12: 380–389.
- Bennett, A. F. (1991). Roads, roadsides and wildlife conservation: a review. In *Nature Conservation 2: The Role of Corridors*, eds D. A. Saunders & R. J. Hobbs, pp. 99–117. Sydney: Surrey Beatty.
- Bennett, P. M. & Owens, I. P. F. (1997). Variation in extinction risk among birds: chance or evolutionary predisposition? *Proceedings of the Royal Society of London, Series B* 264: 401–408.
- Bere, R. M. (1955). The African wild dog. *Oryx* 3: 180–182.
- Berg, W. E. (1982). Reintroduction of fisher, pine marten and river otter. In *Midwest Furbearer Management*, ed. G. C. Sanderson, pp. 159–73. Wichita, KS: Chapter of The Wildlife Society.
- Berg, W. E. & Chesness, R. A. (1978). Ecology of coyotes in northern Minnesota. In *Coyotes: Biology, behavior and management*, ed. M. Bekoff, pp. 229–247. New York: Academic Press.
- Berg, W. E. & Kuehn, D. W. (1982). Ecology of wolves in north-central Minnesota. In *Wolves of the World: Perspectives of Behaviour, Ecology and Conservation*, eds F. H. Harrington & P. L. Paquet, pp. 4–11. Park Ridge, NJ: Noyes Publications.
- Berg, W. E. & Kuehn, D. W. (1994). Demography and range of fishers and American martens in a changing Minnesota landscape. In *Martens, Sables, and Fishers. Biology and Conservation*, eds S. W. Buskirk, A. S. Harestad, M. G. Raphaël & R. A. Powell, pp. 262–271. Ithaca: Cornell University Press.
- Berger, J. (1994). Science, conservation, and black rhinos. *Journal of Mammalogy* 75: 298–308.
- Berger, J. (1998). Future prey: consequences of the loss and restoration of large carnivores. In *Behavioral Ecology and Conservation Biology*, ed. T. Caro, pp. 80–100. New York: Oxford University Press.
- Berger, J. (1999). Anthropogenic extinction of top carnivores and interspecific animal behaviour: implications of the rapid decoupling of a web involving wolves, bears, moose, and ravens. *Proceedings of the Royal Society of London, Series B* 266: 2261–2267.
- Berger, J. & Cunningham, C. (1994). Horns, hyenas, and black rhinos. *Research and Exploration* 10: 241–244.
- Bernhoft, A., Wiig, A. & Skaare, J. U. (1997). Organochlorines in polar bears (*Ursus maritimus*) at Svalbard. *Environmental Pollution* 95: 159–175.
- Bertorelle, G. & Excoffier, L. (1998). Inferring admixture proportions from molecular data. *Molecular Biology and Evolution* 15: 1298–1311.
- Berny, P. J., Buronfosse, T., Buronfosse, F., Lamarque, F. & Lorgue, G. (1997). Field evidence of secondary poisoning of foxes (*Vulpes vulpes*) and buzzards (*Buteo*

- buteo) by bromadiolone, a 4-year study. *Chemosphere* 35: 1817–1829.
- Bibby, C. J., Burgess, N. D. & Hill, D. A. (1992a). *Bird Census Techniques*. London: Academic Press.
- Bibby, C. J., Collar, N. J., Crosby, M. J., Heath, M. F., Imboden, C., Johnson, T. H., Long, A. J., Stattersfield, A. J. & Thirgood, S. J. (1992b). *Putting Biodiversity on the Map: Priority Areas for Global Conservation*. Cambridge: International Council for Bird Preservation.
- Bibikov, D. I. (1988). *Der Wolf. Die Neue Brehm-Bucherei*. Wittenberg Lutherstadt: A. Ziemsen.
- Bickham, J. W., Patton, J. C. & Loughlin, T. R. (1996). High variability for control-region sequences in a marine mammal: implications for conservation and biogeography of Steller sea lions (*Eumetopias jubatus*). *Journal of Mammalogy* 77: 95–108.
- Signal, E. (1978). Mink predation on shelduck and other wildfowl at Loch Lomond. *The Western Naturalist* 7: 47–53.
- Bingham, J., Foggin, C. M., Wandeler, A. I. & Hill, F. W. G. (1999). The epidemiology of rabies in Zimbabwe. 2. Rabies in jackals (*Canis adustus* and *Canis mesomelas*). *Onderstepoort Journal of Veterinary Research* 66: 11–23.
- Bininda-Emonds, O. R. P., Gittleman, J. L. & Purvis, A. (1999). Building large trees by combining phylogenetic information: a complete phylogeny of the extant Carnivora (Mammalia). *Biological Reviews of the Cambridge Philosophical Society* 74: 143–175.
- Birks, J. D. S. (1990). Feral mink and nature conservation. *British Wildlife* 1: 313–323.
- Birks, J. D. S. (1997). A volunteer based system for sampling variations in the abundance of the polecat (*Mustela putorius*). *Journal of Zoology* 243: 857–863.
- Birks, J. D. S. & Dunstone, N. (1991). Mink. In *The Handbook of British Mammals*, 3rd edn. eds G. Corbet & S. Harris, pp. 406–415. Oxford: Blackwell Scientific Publications.
- Birks, J. D. S. & Kitchener, A. C. (1999). The distribution and status of the polecat, *Mustela putorius*, in Britain in the 1990s. London: Vincent Wildlife Trust.
- Bissonette, J. A. (1997). Scale-sensitive ecological properties: historical context, current meaning. In *Wildlife and Landscape Ecology: Effects of Pattern and Scale*, ed. J. A. Bissonette, pp. 3–31. New York: Springer-Verlag.
- Bissonette, J. A. & Broekhuizen, S. (1995). *Martes* populations as indicators of habitat scale patterns: the need for a multiscale approach. In *Landscape Approaches in Mammalian Ecology and Conservation*, ed. W. Z. Lidicker Jr., pp. 95–121. Minneapolis: University of Minnesota Press.
- Bissonette, J. A., Frederickson, R. J. & Tucker, B. J. (1989). American marten: a case for landscape-level management. *Transactions of the North American Wildlife and Natural Resources Conference* 54: 89–101.
- Bissonette, J. A., Harrison, D. J., Hargis, C. D. & Chapin, T. G. (1997). The influence of spatial scale and scale-sensitive properties on habitat selection by American marten. In *Wildlife and Landscape Ecology: Effects of Pattern and Scale*, ed. J. A. Bissonette, pp. 368–385. New York: Springer-Verlag.
- Bjorge, R. R., Gunson, J. R. & Samuel, W. M. (1981). Population characteristics and movements of striped skunks (*Mephitis mephitis*) in central Alberta. *Canadian Field-Naturalist* 95: 149–155.
- Blanchard, B. M. & Knight, R. R. (1991). Movements of Yellowstone grizzly bears.

- Biological Conservation* 58: 41–67.
- Blanco, J., Reig, S. & Cuesta, L. (1992). Distribution, status and conservation problems of the wolf *Canis lupus* in Spain. *Biological Conservation* 60: 73–80.
- Böer, M., Smielowski, J. & Tyrala, P. (1995). Reintroduction of the European lynx (*Lynx lynx*) to the Kampinoski Nationalpark/Poland – a field experiment with zooborn individuals. Part II. Release phase: procedures, and activities of the lynxes during the first year after. *Zoologischer Garten NF* 65: 333–342.
- Boertje, R. D., Kelleyhouse, D. G., & Hayes, R. D. (1995). Methods for reducing natural predation on moose in Alaska and Yukon: an evaluation. In *Ecology and Conservation of Wolves in a Changing World*, eds L. N. Carbyn, S. H. Fritts & D. R. Seip, pp. 505–514. Canadian Circumpolar Institute, Occasional Publication No. 35.
- Boertje, R. D. & Stephenson, R. O. (1992). Effects of ungulate availability on wolf reproductive potential in Alaska. *Canadian Journal of Zoology* 70: 2441–2443.
- Bögel, K. & Moegle, H. (1980). Characteristics of the spread of a wildlife rabies epidemic in Europe. In *The Red Fox*, ed. E. Zimen, pp. 251–258. The Hague: Dr. W. Junk Publishers.
- Boitani, L. (1982). Wolf management in intensively used areas of Italy. In *Wolves of the World*, ed. F. H. Herrington & P. C. Paquet, pp. 158–172. New Jersey: Hayes Publications.
- Boitani, L. (1983). Wolf and dog competition in Italy. *Acta Zoologica Fennica* 174: 259–264.
- Boitani, L. (1992). Wolf research and conservation in Italy. *Biological Conservation* 61: 125–132.
- Boitani, L. (1995). Ecological and cultural diversities in the evolution of wolf–human relationships. In *Ecology and Conservation of Wolves in a Changing World*, eds L. N. Carbyn, S. H. Fritts & D. R. Seip, pp. 3–11. Edmonton: Canadian Circumpolar Institute.
- Boitani, L. & Fabbri, M. L. (1984). National strategy for wolf (*Canis lupus*). *Ricerche di Biologica della Selvaggina* 72: 1–30.
- Boitani, L. & Francisci, F. (1978). Ein Versuch der Wiedereinbürgerung des Luchses im Nationalpark Gran Paradiso, Italien. In *Der Luchs – Erhaltung und Wiedereinbürgerung in Europa*, ed. U. Wotschikowsky, pp. 63–65. Mammendorf: Druckerei Bernhard.
- Boitani, L., Francisci, F., Ciucci, P. & Andreoli, G. (1995). Population biology and ecology of feral dogs in central Italy. In *The Dog, its Ecology, Behaviour and Evolution*, ed. J. Serpell, pp. 217–244. Cambridge: Cambridge University Press.
- Bolger, D. T., Alberts, A. C. & Soulé, M. E. (1991). Occurrence patterns of bird species in habitat fragments: sampling, extinction and nested species subsets. *American Naturalist* 137: 155–166.
- Bomford, M. & O'Brien, P. (1995). Eradication or control for vertebrate species? *Wildlife Society Bulletin* 23: 249–255.
- Bonnell, M. L. & Selander, R. K. (1974). Elephant seals: genetic variation and near extinction. *Science* 134: 908–909.
- Bonner, W. N. (1982). *Seals and Man: A Study of Interactions*. Washington Sea Grant Publication. Seattle: University of Washington Press.
- Bonner, W. N. (1984). Introduced mammals. In *Antarctic Ecology*, vol. 1, ed. R. M. Laws, pp. 237–278. London: Academic Press.

- Boo, E. (1990). *Ecotourism: The Potentials and Pitfalls*, vol. 2. WWF, USA.
- Born, E. W., Kraul, I. & Kristensen, T. (1981). Mercury, DDT, and PCB in Atlantic walrus (*Odobenus rosmarus*) from the Thule District, north Greenland. *Artic* 34: 255–260.
- Bowcock, A. M., Ruiz-Linares, A., Tomfohrde, J., Minch, E., Kidd, J. R. & Cavalli-Sforza, L. (1994). High resolution of human evolutionary trees with polymorphic microsatellites. *Nature* 368: 455–457.
- Bowen-Jones, E. & Pendry, S. (1999). The threat to primates and other mammals from the bushmeat trade in Africa, and how this threat could be diminished. *Oryx* 33: 233–246.
- Bower, W. T. & Aller, H. D. (1917). Alaska fisheries and fur industries in 1916. Document No. 838. *Department of Commerce, Bureau of Fisheries (USA)*.
- Bowers, R. G. & Turner, J. (1997). Community structure and the interplay between interspecific infection and competition. *Journal of Theoretical Biology* 187: 95–109.
- Bowles, D. (1996). Wildlife trade – a conserver or exploiter? In *The Exploitation of Mammal Populations*, eds V. J. Taylor & N. Dunstone, pp. 266–291. London: Chapman and Hall.
- Bowyer, R. T., Testa J. W. & Faro, J. B. (1995). Habitat selection and home ranges of river otters in a marine environment: effects of the Exxon Valdez oil spill. *Journal of Mammalogy* 76: 1–11.
- Boyce, M. S. (1992). Population viability analysis. *Annual Review of Ecology and Systematics* 23: 481–506.
- Boyd, D. K., Paquet, P. C., Donelon, S., Ream, R. R., Pletscher, D. H. & White, C. C. (1995). Transboundary movements of a recolonizing wolf population in the Rocky Mountains. In *Ecology and Conservation of Wolves in a Changing World*, eds L. N. Carbyn, S. H. Fritts & D. R. Seip, pp. 135–140. Edmonton: Canadian Circumpolar Institute.
- Boyd, R. & Silk, J. B. (1983). A method for assigning cardinal dominance ranks. *Animal Behaviour* 31: 45–58.
- Bradshaw, E. L. & Bateson, P. (2000). Animal welfare and wildlife conservation. In *Behaviour and Conservation*, eds L. M. Gosling & W. J. Sutherland, pp. 330–348. Cambridge: Cambridge University Press.
- Brady, J. R. & Campbell, H. (1983). Distribution of coyotes in Florida. *Florida Field Naturalist* 11: 40–1.
- Brainerd, S. M. (1990). The pine marten and forest fragmentation: a review and general hypothesis. *Transactions of the International Congress of Game Biologists* 19: 421–434.
- Brand, C. J. & Keith, L. B. (1979). Lynx demography during a snowshoe hare decline in Alberta. *Journal of Wildlife Management* 43: 827–849.
- Brandenburg, D. M. (1996). *Effects of Roads on Behavior and Survival of Black Bears in Coastal North Carolina*. Unpublished M.S. thesis, University of Tennessee, Knoxville.
- Brandon, K. E. & Wells, M. (1992). Planning for people and parks: design dilemmas. *World Development* 20: 557–570.
- Brechtel, S., Carbyn, L.N., Hjertaas, D. & Mamo, C. (1993). Canadian swift fox feasibility study: 1989 to 1992. *Swift Fox Recovery Team Report*.
- Breitenmoser, U. (1998a). Large predators in the Alps: the fall and rise of man's

- competitors. *Biological Conservation* **83**: 279–89.
- Breitenmoser, U. (1998b). Recovery of the Alpine lynx population: conclusions from the first SCALP report. In *The re-introduction of the lynx into the Alps*, eds C. Breitenmoser-Würsten, C. Rohner & U. Breitenmoser, pp. 135–144. Strasbourg: Council of Europe Publishing, Environmental Encounters, No. 38.
- Breitenmoser, U. (2001). Die ökologischen und anthropogenen Voraussetzungen für die Existenz grosser Beutegreifer in der Kulturlandschaft. In *Raubtierakzeptanz*, eds M. Hunziker & R. Landolt, Forest Snow and Landscape Research. (In press.)
- Breitenmoser, U. & Baettig, M. (1992). Wiederansiedlung und Ausbreitung des Luchses *Lynx lynx* im Schweizer Jura. *Revue suisse de Zoologie* **99**: 163–76.
- Breitenmoser, U. & Breitenmoser-Würsten, Ch. (1990). *Status, Conservation Needs and Re-introduction of the Lynx (Lynx lynx) in Europe*. Strasbourg: Council of Europe Publishing, Nature and Environment Series, No. 45.
- Breitenmoser, U., Breitenmoser-Würsten, Ch. & Capt, S. (1998). Re-introduction and present status of the lynx in Switzerland. *Hystrix* **10**: 17–30.
- Breitenmoser, U., Breitenmoser-Würsten, Ch., Capt, S., Ryser, A., Zimmermann, F., Angst, C., Olsson, P., Baumgartner, H. J., Siegenthaler, A., Molinari, P., Laass, J., Burri, A., Jobin, A. & Weber, J. M. (1999). Lynx Management problems in the Swiss Alps. *Cat News* **30**: 16–8.
- Breitenmoser, U., Breitenmoser-Würsten, Ch., Okarma, H., Kapeghyi, T., Kapeghyi-Wallmann, U. & Müller, U. M. (2000). *Final Draft Action Plan for Conservation of the Eurasian Lynx (Lynx lynx) in Europe*. Strasbourg: Council of Europe Publishing.
- Breitenmoser, U., Kavczensky, P., Doetterer, M., Breitenmoser-Würsten, Ch., Capt, S., Berhart, F. & Liberek, M. (1993b). Spatial organisation and recruitment of lynx (*Lynx lynx*) in a reintroduced population in the Swiss Jura Mountains. *Journal of Zoology* **231**: 449–464.
- Breitenmoser, U., Slough, B. G. & Breitenmoser-Würsten, Ch. (1993a). Predators of cyclic prey: is the Canada lynx victim or profiteer of the snowshoe hare cycle? *Oikos* **66**: 551–554.
- Breitenmoser-Würsten, Ch., Robin, K., Landry, J. M., Gloor, S., Olsson, P. & Breitenmoser, U. (2001). Die geschichte von Fuchs, Luchs, Bartgeier, Wolf und Braunbär in der Schweiz – ein kurzer Überblick. In *Raubtierakzeptanz*, ed. M. Hunziker & R. Landolt. Forest Snow and Landscape Research. (In Press.)
- Breitenmoser-Würsten, Ch., Rohner, C. & Breitenmoser, U. (Eds). (1998). *The Re-introduction of the Lynx into the Alps*. Strasbourg: Council of Europe Publishing, Environmental Encounters, No. 38.
- Bremle, G., Larsson, P. & Helldin, J. O. (1997). Polychlorinated biphenyls in a terrestrial predator, the pine marten (*Martes martes* L.). *Environmental Toxicology and Chemistry* **16**: 1779–1784.
- Bretram, B. C. R. (1975). Social factors influencing reproduction in wild lions. *Journal of Zoology (London)* **177**: 463–482.
- Brewer, G. D. & de Leon, P. (1983). *The Foundations of Policy Analysis*. Homewood, IL: The Dorsey Press.
- Brewer, G. D. & Clark, T. W. (1994). A policy sciences perspective: improving implementation. In *Endangered Species Recovery: Finding the Lessons, Improving the Process*, eds T. W. Clark, R. P. Reading & A. L. Clarke, pp. 391–413. Washington:

- Island Press.
- Bright, C. (1999). *Life Out of Bounds*. London: Earthscan.
- Broad, S., Luxmore, R. & Jenkins, M. (1988). *Significant trade in wildlife: A review of selected species in CITES Appendix II*, vol. 1. Mammals. Gland: IUCN.
- Brocke, R. H. & Gustafson, K. A. (1992). Lynx in New York State. *Re-Introduction News* 4: 6–7.
- Brocke, R. H., Gustafson, K. A. & Major, A. R. (1990). Restoration of lynx in New York: biopolitical lessons. *Transactions of the North American Wildlife and Natural Resources Council* 55: 590–598.
- Brody, A. J. & Pelton, M. R. (1989). Effects of roads on black bear movements in western North Carolina. *Wildlife Society Bulletin* 17: 5–10.
- Brook, B. W., Cannon, J. R., Lacy, R. C., Mirande, C. & Frankham, R. (1999). Comparison of the population viability analysis packages GAPPs, INMAT, RAMAS and VORTEX for the whooping crane (*Grus americana*). *Animal Conservation* 2: 23–31.
- Brookfield, J. (1996). A simple new method for estimating null alleles frequency from heterozygote deficiency. *Molecular Ecology* 5: 453–455.
- Brothers, N. P., Skira, I. J. & Copson, G. R. (1985). Biology of the feral cat, *Felis catus*, on Macquarie Island. *Australian Wildlife Research* 12: 425–436.
- Brown, E. W., Yuhki, N., Packer, C. & O'Brien, S. J. (1994). A lion lentivirus related to feline immunodeficiency virus: epidemiologic and phylogenetic aspects. *Journal of Virology* 68: 5953–5968.
- Brown, J. H. (1971). Mammals on mountaintops: nonequilibrium insular biogeography. *American Naturalist* 105: 467–478.
- Brown, J. L. & Wildt, D. E. (1997). Assessing reproductive status in wild felids by non-invasive faecal steroid monitoring. *International Zoo Yearbook* 35: 173–191.
- Brown, J. L., Wildt, D. E., Wielebnowski, N., Goodrowe, K. L., Wells, S., Graham, L. H. & Howard, J. G. (1996). Reproductive activity in captive female cheetahs (*Acinonyx jubatus*) as assessed by faecal steroids. *Journal of Reproduction and Fertility* 106: 337–46.
- Brown, K. S., Jr. & Hutchings, R. W. (1997). Disturbance, fragmentation, and the dynamics of diversity in Amazonian forest butterflies. In *Tropical Forest Remnants: Ecology, Management, and Conservation of Fragmented Communities*, eds W. F. Laurance & R. O. Bierregaard, Jr., pp. 91–110. Chicago: University of Chicago Press.
- Brown, L. E. (1969). Field experiments on the movements of *Apodemus sylvaticus* using trapping and tracking techniques. *Oecologia* 2: 198–222.
- Bruford, M. W. & Wayne, R. K. (1993). Microsatellites and their application to population genetic studies. *Current Opinion in Genetics and Development* 3: 939–943.
- Bruggers, R. A. & Zaccagnini, M. E. (1994). Vertebrate pest problems related to agricultural production and applied research in Argentina. *Vida Silvestre Neotropical* 3: 71–83.
- Brunner, S. (1998). Cranial morphometrics of the southern fur seals *Arctocephalus forsteri* and *A. pusillus* (Carnivora: Otariidae). *Australian Journal of Zoology* 46: 67–108.
- Buckland, S. T., Anderson, D. R., Burnham, K. P. & Laake, J. L. (1993). *Distance Sampling: Estimating Abundance of Biological Populations*. London: Chapman and Hall.

- Buechner, M. (1987). A geometric model of vertebrate dispersal: tests and implications. *Ecology* **68**: 310–318.
- Bueno, F. (1996). Competition between American mink *Mustela vison* and otter *Lutra lutra* during winter. *Acta Theriologica* **41**: 149–154.
- Bunin, J. S. & Jamieson, I. G. (1994). New approaches toward a better understanding of the decline of takahe (*Porphyrio mantelli*) in New Zealand. *Conservation Biology* **9**: 100–106.
- Bunnell, F. L. & Tait, D. E. N. (1981). Population dynamics of bears – implications. In *Dynamics of Large Mammal Populations*, eds C. W. Fowler & T. D. Smith, pp. 75–98. New York: John Wiley & Sons.
- Burbidge, A. A. & Jenkins, R. W. G. (1984). Endangered vertebrates of Australia and its island territories. *Report of the Working Group on Endangered Fauna of the Standing Committee of the Council Nature Conservation*. Canberra: Australian National Parks and Wildlife Service.
- Burbidge, A. A. & McKenzie, N. L. (1989). Patterns in the modern decline of Western Australia's vertebrate fauna: causes and conservation implications. *Biological Conservation* **50**: 143–198.
- Burgess, S. A. & Bider, J. R. (1980). Effects of stream habitat improvements on invertebrates, trout populations, and mink activity. *Journal of Wildlife Management* **44**: 871–880.
- Burnham, K. P., Anderson, D. R. & Laake, J. L. (1980). Estimation of density from line-transect sampling of biological populations. *Wildlife Monographs* **72**: 1–202.
- Burrows, R. (1995). Demographic changes and social consequence in wild dogs, 1964–1992. In *Serengeti II: Dynamics, Conservation and Management of an Ecosystem*, eds A. R. E. Sinclair & P. Arcese, pp. 400–420. Chicago: University of Chicago Press.
- Burrows, R., Hofer, H. & East, M. L. (1994). Demography, extinction and intervention in a small population: the case of the Serengeti wild dogs. *Proceedings of the Royal Society of London, Series B* **256**: 281–292.
- Burton, R. G. (1933). *The Book of the Tiger*. Boston: Houghton Mifflin.
- Bush, M. & Roberts, M. (1977). Distemper in captive red pandas. *International Zoo Yearbook* **17**: 194–196.
- Buskirk, S. W., Forrest, S. C., Raphael, M. G. & Harlow, H. J. (1989). Winter resting ecology of marten in the central Rocky Mountains. *Journal of Wildlife Management* **53**: 191–196.
- Buskirk, S. W., Harestad, A. A., Raphael, M. G. & Powell, R. A. (Eds) (1994). *Martens, Sables, and Fishers. Biology and Conservation*. Ithaca: Cornell University Press.
- Buskirk, S. W. & Powell, R. A. (1994). Habitat ecology of fishers and American marten. In *Martens, Sables, and Fishers: Biology and Conservation*, eds S. W. Buskirk, A. S. Harestad, M. G. Raphael & R. A. Powell, pp. 283–296. Ithaca: Cornell University Press.
- Butler, D. (1994). Bid to protect wolves from genetic pollution. *Nature* **370**: 497.
- Byrne, G. & Shenk, T. (1999). Lynx recovery project background and post release monitoring of lynx re-introduced to the southern Rocky Mountains of southwestern Colorado, USA. *Re-introduction News* **18**: 15–17.
- Byun, S. A., Koop, B. F. & Reimchen, T. E. (1997). North American black bear mtDNA phylogeography: implications for morphology and the Haida Gwaii

- glacial refugium controversy. *Evolution* 51: 1647–1653.
- Cain, S. A., Kadlec, J. A., Allen, D. L., Cooley, R. A., Hornocker, M. G., Leopold, A. S. & Wagner, F. H. (1972). *Predator Control—1971, Report to the Council on Environmental Quality and the Department of the Interior by the Advisory Committee on Predator Control*. Ann Arbor: Institute for Environmental Quality, University of Michigan.
- Callicott, J. B. (1998). 'Back together again' again. *Environmental Values* 7: 461.
- Cambell, K. & Hofer, H. (1995). People and wildlife: spatial dynamics and zones of interaction. In *Serengeti II: Dynamics, Management and Conservation of an Ecosystem*, eds A. R. E. Sinclair & P. Arcese, pp. 534–570. Chicago: Chicago University Press.
- Camenzind, F. J. B. (1978). Behavioral ecology of coyotes on the National Elk Refuge, Jackson, Wyoming. In *Coyotes: Biology, Behavior and Management*, ed. M. Bekoff, pp. 267–296. New York: Academic Press.
- Camm, J. D., Polasky, S., Solow, A. & Csuti, B. (1996). A note on optimal algorithms for reserve site selection. *Biological Conservation* 78: 353–355.
- Campbell, T. M., III, Biggins, D., Forrest, S. & Clark, T. W. (1985). Spotlighting as a method to locate and study black-footed ferrets. In *Proceedings of the Black-footed Ferret Workshop*, eds S. H. Anderson & D. B. Inkley, pp. 24.1–24.7. Laramie: University of Wyoming.
- Cannon, K. P. (1995). Blood residue analysis of ancient stone tools reveal clues to prehistoric subsistence patterns. *Cultural Resource Management* 18: 14–16.
- Carbone, C., Mace, G. M., Roberts, S. C. & Macdonald, D. W. (1999). Energetic constraints on the diet of terrestrial carnivores. *Nature* 402: 286–288.
- Carbyn, L. N. (1982). Coyote population fluctuations and spatial distribution in relation to wolf territories in Riding Mountain National Park, Manitoba. *Canadian Field-Naturalist* 96: 176–183.
- Carbyn, L. N. (1998). Swift fox status in Canada. *Committee on the Status of Endangered Species Report*.
- Carbyn, L. N., Armbruster, H. J. & Mamo, C. (1994). The swift fox re-introduction program in Canada from 1983 to 1992. In *Restoration of Endangered Species: Conceptual Issues, Planning and Implementation*, eds M. L. Bowles & C. J. Whelan, pp. 247–271. Cambridge: Cambridge University Press.
- Carey, P. W. (1992). Fish prey species of the New Zealand fur seal (*Arctocephalus forsteri*, Lesson). *New Zealand Journal of Ecology* 16: 41–46.
- Carlington, B. (1978). Re-introduction of the Swift Fox to southern Alberta. Feasibility study.
- Carlington, B. (1980). *Re-introduction of the Swift Fox (Vulpes velox) to the Canadian Prairies*. MSc University of Calgary.
- Caro, T. M. (1994). *Cheetahs of the Serengeti Plains: Group Living in an Asocial Species*. Chicago: University of Chicago Press.
- Caro, T. M. (Ed.) (1998). *Behavioral Ecology and Conservation Biology*. New York: Oxford University.
- Caro, T. M. (1999a). The behaviour-conservation interface. *Trends in Ecology and Evolution* 14: 366–369.
- Caro, T. M. (1999b). Demography and behaviour of African mammals subject to exploitation. *Biological Conservation* 91: 91–97.
- Caro, T. M. & Durant, S. M. (1995). The importance of behavioural ecology for

- conservation biology: examples from Serengeti carnivores. In *Serengeti II: Dynamics, Conservation and Management of an Ecosystem*, eds A. R. E. Sinclair & P. Arcese, pp. 451–472. Chicago: University of Chicago Press.
- Caro T. M. & Laurenson, M. K. (1994). Ecological and genetic factors in conservation: A cautionary tale. *Science* **263**: 485–486.
- Carpaneto G. M. (1990). The Indian grey mongoose (*Herpestes edwardsi*) in the Circeo National Park: a case of incidental introduction. *Mustelid and Viverrid Conservation* (The Newsletter of the IUCN/SSC Mustelid & Viverrid Specialist Group), **2**: 10.
- Carpenter, J. W., Appel, M. J. G., Erickson, R. C. & Novilla, M. N. (1976). Fatal vaccine-induced canine distemper virus infection in black-footed ferrets. *Journal of American Veterinary Medical Association* **169**: 961–964.
- Carpenter, M., Brown, E. W., Culver, M., Johnson, W. E., Pecon-Slaterry, J., Brousset, D. & O'Brien, S. J. (1996). Genetic and phylogenetic divergence of feline immunodeficiency virus in the puma (*Puma concolor*). *Journal of Virology* **70**: 6682–6693.
- Carter, G. R., Chengappa, M. M. & Roberts, A. W. (1995). *Essentials of Veterinary Microbiology*, 5th edn. Philadelphia: Williams and Wilkins.
- Carvell, C., Inglis, N. F. J., Mace, G. M. & Purvis, A. (1998). How Diana climbed the ratings at the zoo. *Nature* **395**: 213.
- Case, T. J. (1996). Global patterns in the establishment and distribution of exotic birds. *Biological Conservation* **78**: 69–96.
- Case, T. J. & Gilpin, M. E. (1974). Interference competition and niche theory. *Proceedings of the National Academy of Sciences of the United States of America* **71**: 3073–3077.
- Caughley, G. (1977). *Analysis of Vertebrate Populations*. New York: John Wiley and Sons.
- Caughley, G. (1994). Directions in conservation biology. *Journal of Animal Ecology* **63**: 215–244.
- Caughley, G. & Gunn, A. (1996). *Conservation Biology in Theory and Practice*. Oxford: Blackwell Science.
- Central Statistics Office (1992). *Population of Towns, Villages and Associated Localities in August 1991*. Gaborone: Ministry of Finance & Development Planning, Republic of Botswana.
- Central Statistics Office, Zimbabwe (1992). *Census 1992*. Harare: Central Statistics Office.
- Cervený, J. & Buřka, L. (1996). Lynx (*Lynx lynx*) in south-western Bohemia. In *Lynx in the Czech and Slovak Republics*, eds P. Koubek & J. Cervený, pp. 16–33. Brno: Institute of Landscape Ecology.
- Chakrabarty, K. (1992). *Man-eating Tigers*. Calcutta: Darbaru Prokashan.
- Chakraborty, R., Meagher, T. & Smouse, P. (1988). Parentage analysis with genetic markers in natural populations. I. The expected proportion of offspring with unambiguous paternity. *Genetics* **118**: 527–536.
- Chakravarti, A. (1999). Populations genetics – making sense out of sequence. *Nature Genetics Supplement* **21**: 56–60.
- Chanin, P. R. F. & Jeffries, D. J. (1978). The decline of the otter, *Lutra lutra* L., in Britain: an analysis of hunting records and discussion of causes. *Biological Journal of the Linnean Society* **10**: 305–328.

- Chanin, P. R. F. & Linn, I. (1980). The diet of the feral mink (*Mustela vison*) in southwest Britain. *Journal of Zoology (London)* **192**: 205–223.
- Chaparro, F. & Esterhuysen, J. J. (1993). The role of yellow mongooses (*Cynictis penicillata*) in the epidemiology of rabies in South Africa – preliminary results. *Onderstepoort Journal of Veterinary Research* **60**: 373–377.
- Chapin, T. G., Harrison, D. J. & Katnik, D. D. (1998). Influence of landscape pattern on habitat use by American marten in an industrial forest. *Conservation Biology* **12**: 1327–1337.
- Chapman, R. C. (1978). Rabies: decimation of a wolf pack in Arctic Alaska. *Science* **201**: 365–367.
- Chapuis, J. L., Boussès, P. & Barnaud, G. (1994). Alien mammals, impact and management in the French subantarctic islands. *Biological Conservation* **67**: 97–104.
- Charlton, K. M., Webster, W. A., Casey, G. A. & Rupprecht, C. E. (1988). Skunk rabies. *Reviews of Infectious Diseases* **10**: 626–628.
- Cheeseman, C. L., Cresswell, W. J., Harris, S. & Mallinson, P. J. (1988). Comparison of dispersal and other movements in two badger (*Meles meles*) populations. *Mammal Review* **18**: 51–59.
- Cheeseman, C. L., Mallinson, P. J., Ryan, J. & Wilesmith, J. W. (1993). Recolonization by badgers in Gloucestershire. In *The Badger*: 78–93. Hayden, T. J. (Ed.) Dublin: Royal Irish Academy.
- Cheeseman, C. L., Wilesmith, J. W., Ryan, J. & Mallinson, P. J. (1987). Badger population dynamics in a high density area. *Symposium Zoological Society London* **58**: 279–294.
- Child, B. (1996). The practice and principles of community-based wildlife management in Zimbabwe: The CAMPFIRE programme. *Biodiversity and Conservation* **5**: 369–398.
- Childes, S. L. (1988). The past history, present status and distribution of the hunting dog *Lycaon pictus* in Zimbabwe. *Biological Conservation* **44**: 301–316.
- Chitty, H. (1950). Canadian arctic wildlife enquiry, 1943–49: with a summary of results since 1933. *Journal of Animal Ecology* **19**: 180–193.
- Ciucci, P., Boitani, L., Francisci, F. & Andreoli, G. (1997). Home range, activity and movements of a wolf pack in central Italy. *Journal of Zoology* **243**: 803–819.
- Clark, D. R. Jr., Ogasawara, P. A., Smith, G. J. & Ohlendorf, H. M. (1989). Selenium accumulation by raccoons exposed to irrigation drainwater at Keterson National Wildlife Refuge, California, 1986. *Archive for Environmental Contamination and Toxicology* **18**: 787–794.
- Clark, F. W. (1972). Influence of jackrabbit density on coyote population change. *Journal of Wildlife Management* **36**: 343–356.
- Clark, H. (1991). Mink hunting on the Nene. *International Fieldsports and Conservation* **Sep–Oct**: 76–78.
- Clark, J. D. (1998). Black bear repatriation to Cumberland Plateau. *Re-Introduction News* **12**: 12–13.
- Clark, J. D. & Smith, K. G. (1994). A demographic comparison of two black bear populations in the interior highlands of Arkansas. *Wildlife Society Bulletin* **22**: 593–603.
- Clark, T. W. (1994). Restoration of the endangered black-footed ferret: a 20-year overview. In *Restoration and recovery of endangered species*, eds M. L. Bowles & C. J. Whelan, pp. 272–297. Cambridge: Cambridge University Press.

- Clark, T. W. (1997). *Averting Extinction: Reconstructing Endangered Species Recovery*. New Haven: Yale University Press.
- Clark, T. W. (1999). Interdisciplinary problem-solving: next steps in the Greater Yellowstone ecosystem. *Policy Sciences* 32: 393–414.
- Clark, T. W. & Brunner, R. D. (1996). Making partnerships work: an introduction to decision process. *Endangered Species Update* 13(1): 1–4.
- Clark, T. W. & Campbell, T. M., III. (1983). A small carnivore survey technique. *Great Basin Naturalist* 43: 438–440.
- Clark, T. W., Curlee, A. P., Minta, S. C. & Kareiva, P. M. (Eds) (1999). *Carnivores in Ecosystems: The Yellowstone Experience*. New Haven: Yale University Press.
- Clark, T. W., Curlee, A. P. & Reading, R. P. (1996a). Crafting effective solutions to the large carnivore conservation problem. *Conservation Biology* 10: 940–948.
- Clark, T. W., Paquet, P. C. & Curlee, A. P. (1996b). Special section: Large carnivore conservation in the Rocky Mountains of the United States and Canada. *Conservation Biology* 10: 936–1058.
- Clark, T. W., Reading, R. P. & Backhouse, G. N. (1995a). Prototyping for successful conservation: the eastern barred bandicoot program. *Endangered Species Update* 12(10&11): 5–8.
- Clark, T. W., Reading, R. P. & Clarke, A. L. (Eds) (1995b). *Endangered Species Recovery: Finding the Lessons, Improving the Process*. Washington, DC: Island Press.
- Clark, T. W., Reading, R. P. & Wallace, R. L. (2000b). Research in endangered species conservation: An introduction to multiple methods. *Endangered Species Update* 16: 96–101.
- Clark, T. W. & Wallace, R. L. (1998). Understanding the human factor in endangered species recovery: an introduction to the human social process. *Endangered Species Update* 15(1): 2–9.
- Clark, T. W. & Wallace, R. L. (1999). The professional in endangered species conservation: An introduction to standpoint clarification. *Endangered Species Update* 16(1): 9–13.
- Clark, T. W., Willard, A. R. & Cromley, C. R. (Eds) (2000a). *Foundations of Natural Resources Policy and Management*. New Haven: Yale University Press.
- Clark, W. R. & Andrews, R. D. (1982). Review of population indices applied in furbearer management. In *Midwest Furbearer Management*, ed. G. C. Sanderson, pp. 11–22. Wichita, KS: Proceedings of Symposium of 43rd Midwest Fish and Wildlife Conference.
- Clark, W. R., Hasbrouck, J. J., Kienzler, J. M. & Glueck, T. F. (1989). Vital Statistics and harvest of an Iowa raccoon population. *Journal of Wildlife Management* 53: 982–990.
- Clarke, G. P., White, P. C. L. & Harris, S. (1998). Effects of roads on badger *Meles meles* populations in south-west England. *Biological Conservation* 86: 117–124.
- Cleaveland S. (1997). Dog vaccination around the Serengeti – Reply. *Oryx* 31: 13–14.
- Cleaveland S. (1998). Epidemiology and control of rabies: the growing problem of rabies in Africa. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 92: 131–134.
- Cleaveland, S. & Dye, C. (1995). Maintenance of a microparasite infecting several host species: rabies in the Serengeti. *Parasitology* 111: S33–S47.
- Clevenger, A. P. & Purroy, F. J. (1999). Status and management of the brown bear in eastern Cantabira, Spain. In *Bears: Status Survey and Action Plan*, eds

- C. Servheen, S. Herrero & B. Peyton, pp. 100–104. Gland, Switzerland: IUCN.
- Clevenger, A. P., Purroy, F. J. & Campos, M. A. (1997). Habitat assessment of a relict brown bear *Ursus arctos* population in northern Spain. *Biological Conservation* **80**: 17–22.
- Clifton-Hadley, R. S., Wilesmith, J. W., Richards, M. S., Upton, P. & Johnston, S. (1995). The occurrence of *Mycobacterium bovis* infection in and around an area subject to extensive badger (*Meles meles*) control. *Epidemiology and Infection* **114**: 179–193.
- Clode, D., Birks, J. D. S. & Macdonald, D. W. (2000). The influence of risk and vulnerability on predator mobbing by terns (*Sterna* spp.) and gulls (*Larus* spp.). *Journal of Zoology (London)* **252**: 53–59.
- Clode, D. & Macdonald, D. W. (1995). Evidence for food competition between mink (*Mustela vison*) and otter (*Lutra lutra*) on Scottish islands. *Journal of Zoology, (London)* **237**: 435–444.
- Clout, M. & Lowe, S. (1997). Biodiversity loss due to biological invasion: prevention and cure. In *Conserving vitality and diversity: proceedings of the World Conservation Congress workshop on alien invasive species*, eds C. Rubec & G. Lee, pp. 29–40. IUCN Species Survival Commission and the North American Wetlands Conservation Council (Canada). Canada: Ottowa.
- Clutton-Brock, J. (1996). Competitors, companions, status symbols, or pests? A review of human associations with other carnivores. In *Carnivore Behavior, Ecology, and Evolution*, ed. J. L. Gittleman, pp. 375–392. Ithaca: Cornell University Press.
- Clutton-Brock, J., Kitchener, A. C. & Lynch, J. M. (1994). Changes in the skull morphology of the Arctic wolf, *Canis lupus arctos*, during the twentieth century. *Journal of Zoology (London)* **233**: 19–36.
- Clutton-Brock, T. H., Albon, S. D. & Guinness, F. E. (1985). Parental investment and sex differences in juvenile mortality in birds and mammals. *Nature* **313**: 131–133.
- Clutton-Brock, T. H. & Iason, G. R. (1986). Sex ratio variation in mammals. *Quarterly Review of Biology* **61**: 339–374.
- Coates, S. F., Main, M. B., Mullahey, J. J., Schaefer, J. M., Tanner, G. W., Sunquist, M. E. & Fanning, M. D. (1998). The coyote (*Canis latrans*). Florida's newest predator. *Florida Cooperative Extension Service WEC-124*: 1–7.
- Cobb, S. (1981). The leopard – problems of an overabundant, threatened terrestrial carnivore. In *Problems in Management of Locally Abundant Wild Mammals*, ed. P. A. Jewell, pp. 66–77. New York: Academic Press.
- Coblentz, B. E. (1990). Exotic organisms: a dilemma for conservation biology. *Conservation Biology* **4**: 261–265.
- Cochran, W. W. & Lord, R. D. Jr. (1963). A radio-tracking system for wild animals. *Journal of Wildlife Management* **27**: 9–24.
- Coltman, D. W., Bowen, W. D. & Wright, J. M. (1998). Birth weight and neonatal survival of harbour seal pups are positively correlated with genetic variation measured by microsatellites. *Proceedings of the Royal Society of London, Series B* **265**: 803–809.
- Connell, J. H. (1980). Diversity and the coevolution of competitors, or the ghost of competition past. *Oikos* **35**: 131–138.
- Connell, J. H. (1983). On the prevalence and relative importance of interspecific

- competition: evidence from field experiments. *The American Naturalist* **122**: 661–696.
- Conner, M. C., Labisky, R. F. & Progulske, D. R. (1983). Scent-station indices as measures of population abundance for bobcats, raccoons, gray foxes, and opossums. *Wildlife Society Bulletin* **11**: 146–152.
- Conner, M. C. & Labisky, R. F. (1985). Evaluation of radioisotope tagging for estimating abundance of raccoon populations. *Journal of Wildlife Management* **49**: 326–332.
- Connolly, G. E. & Longhurst, W. M. (1975). The effects of control on coyote populations: a simulation model. *Bulletin of the Division of Agricultural Sciences, University of California* **1872**: 1–37.
- Connolly, G. E. (1978). Predator control and coyote populations: a review of simulation models. In *Coyotes: Biology, Behavior, and Management*, ed. M. Bekoff, pp. 327–345. New York: Academic Press.
- Conroy, J. & French, D. D. (1987). The use of spraints to monitor populations of otters (*Lutra lutra*). *Symposium of the Zoological Society of London* **58**: 247–262.
- Constantine, R. (1999). Effects of tourism on marine mammals in New Zealand. *New Zealand Department of Conservation report, Science for Conservation No. 104*. NZ Department of Conservation PO Box 10–420, Wellington, New Zealand.
- Cooper, N. S. & Carling, R. C. J. (Eds) (1996). *Ecologists and Ethical Judgements*. London: Chapman & Hall.
- Cooper, S. M. (1991). Optimal hunting group size: the need for lions to defend their kills against loss to spotted hyaenas. *African Journal of Ecology* **29**: 130–136.
- Cop, J. & Frkovic, A. (1998). The re-introduction of the lynx in Slovenia and its present status in Slovenia and Croatia. *Hystrix* **10**: 65–76.
- Copeland, C. & Lewis, D. (1997). *Saving our Natural Heritage? The Role of Science in Managing Australia's Ecosystems*. Ruscutter's Bay, New South Wales: Halstead Press.
- Corbett, J. (1957). *Man-eaters of India*. Oxford: Oxford University Press.
- Corbett, L. K. (1995). *The Dingo in Australia and Asia*. Sydney: University of New South Wales Press.
- Corbett, L. K. & Newsome, A. E. (1987). The feeding ecology of the dingo. 3. Dietary relationships with widely fluctuating prey populations in arid Australia: an hypothesis of alternation of predation. *Oecologia* **74**: 215–227.
- Corn, J. L. & Conroy, M. J. (1998). Estimation of density of mongooses with capture-recapture and distance sampling. *Journal of Mammalogy* **79**: 1009–1015.
- Cornuet, J.-M. & Luikart, G. (1996). Description and power analysis of two tests for detecting recent population bottlenecks from allele frequency data. *Genetics* **144**: 2002–2014.
- Cornuet, J.-M., Piry, S., Luikart, G., Estoup, A. & Solignac, M. (1999). New methods employing multilocus genotypes for selecting or excluding populations as origins of individuals. *Genetics* **153**: 1989–2000.
- COSEWIC (1978). *Committee on the Status of Endangered Wildlife in Canada 1978. Status report and Evaluations*, vol. 1, *Official Classification of the Swift Fox*.
- Costanza, R., D'arge, R., De Groot, R., Farber, S., Grasso, M., Hannon, B., Limburg, K., Naeem, S., O'Neill, R. V. O., Paruelo, J., Raskin, R. G., Sutton, P., & Van Den Belt, M. (1997). The value of the world's ecosystem services and natural capital. *Nature* **387**: 253–260.

- Cotterill, S. (1997). *Population census of swift fox (Vulpes velox) in Canada: Winter 1996–1997*. Prepared for the Swift Fox National Recovery Team Alberta Environmental Protection. Wildlife Management Division.
- Coulson, T., Pemberton, J., Albon S. *et al.* (1998). Microsatellites reveal heterosis in red deer. *Proceedings of the Royal Society of London, Series B* 256: 489–495.
- Coulter, M. W. (1966). *Ecology and Management of Fishers in Maine*. PhD thesis, Syracuse University, Syracuse, New York.
- Council of Europe (1989). *Workshop on the Situation and Protection of the Brown Bear (Ursus arctos) in Europe*. Strasbourg: Council of Europe.
- Courchamp, F. & Suigihara, G. (1999). Modeling the biological control of an alien predator to protect island species from extinction. *Ecological Application* 9: 112–123.
- Couturier, M. A. J. (1954). *L'Ours brun*. Grenoble.
- Cox, D. R. (1970). *The Analysis of Binary Data*. London: Methuen.
- Cozza, K., Fico, R., Battistini, M. L. & Rogers, E. (1996). The damage-conservation interface illustrated by predation on domestic livestock in central Italy. *Biological Conservation* 78: 329–336.
- Crabtree, R. (1998). Total impact. *The Tracker* 5: 12.
- Crabtree, R. L. & Sheldon, J. W. (1999). Coyotes and canid coexistence in Yellowstone. In *Carnivores in Ecosystems*, eds T. W. Clark, A. P. Curlee, S. C. Minta & P. M. Kareiva, pp. 127–163. New Haven, Connecticut: Yale University Press.
- Craighead, F. L. & Vyse, E. R. (1996). Brown/grizzly bear metapopulations. In *Meta-populations and Wildlife Conservation*, ed. D. R. McCullough, pp. 325–351. Washington, DC: Island Press.
- Craik, J. C. A. (1995). Effects of North American mink on the breeding success of terns and smaller gulls in west Scotland. *Seabird* 17: 3–11.
- Craik, J. C. A. (1997). Long-term effects of North American mink *Mustela vison* on seabirds in western Scotland. *Bird Study* 44: 303–309.
- Craik, J. C. A. (1998). Recent mink-related declines of gulls and terns in west Scotland and the mitigating effects of mink control. *Argyll Bird Report* 14: 98–110.
- Crandall, K. A., Bininda-Emonds, O. R. P., Mace, G. M. & Wayne, R. K. (2000). Considering evolutionary processes in conservation biology. *Trends in Ecology and Evolution* 15: 290–295.
- Crawley, M. J. (1986). The population biology of invaders. *Philosophical Transactions of the Royal Society (B)* 314: 711–731.
- Crawshaw Jr., P. G. (1995). *Comparative Ecology of Ocelot (Felis pardalis) and Jaguar (Panthera onca) in a Protected Subtropical Forest in Brazil and Argentina*. PhD dissertation, University of Florida, Gainesville.
- Crawshaw, Jr., P. G. & Quigley, H. B. (1991). Jaguar spacing, activity and habitat use in a seasonally flooded environment in Brazil. *Journal of Zoology* 223: 357–370.
- Cracraft, J. (1983). Species concepts and speciation analysis. In *Current Ornithology*, ed. R. F. Johnson, pp. 159–187. New York: Plenum Press.
- Cracraft, J., Feinstein, J., Vaughan, J. & Helm-Bychowski, K. (1998). Sorting out tigers (*Panthera tigris*): mitochondrial sequences, nuclear inserts, systematics, and conservation genetics. *Animal Conservation* 1: 139–150.
- Creagh, C. (1992). New approaches to rabbit and fox control. *Ecosystems* 71: 18–24.
- Cree, A., Daugherty, C. H. & Hay, J. M. (1995). Reproduction of a rare New Zealand reptile, the tuatara *Sphenodon punctatus*, on rat-free and rat-inhabited islands.

- Conservation Biology* 9: 373–383.
- Creel, S. (1992). Cause of wild dog deaths (letter to the editor). *Nature* 360: 633.
- Creel, S. R. (1996). Behavioral endocrinology and social organisation in dwarf mongooses. In *Carnivore Behaviour, Ecology, and Evolution*, ed. J. L. Gittleman, pp. 46–77. Ithaca: Cornell University press.
- Creel, S. & Creel, N. M. (1995). Communal hunting and pack size in African wild dogs, *Lycaon pictus*. *Animal Behaviour* 50: 1325–1339.
- Creel, S. & Creel, N. M. (1996). Limitation of African wild dogs by competition with larger carnivores. *Conservation Biology* 10: 526–538.
- Creel, S. & Creel, N. (1997). Lion density and population structure in the Selous Game Reserve: evaluation of hunting quotas and offtake. *African Journal of Ecology* 35: 83–93.
- Creel, S. & Creel, N. M. (1998). Six ecological factors that may limit African wild dogs, *Lycaon pictus*. *Animal Conservation* 1: 1–9.
- Creel S., Creel, N. M., Matovelo, J. A., Mtambo, M. M. A., Batamuzi, E. K. & Cooper, J. E. (1995). The effect of anthrax on endangered African wild dogs (*Lycaon pictus*). *Journal of Zoology (London)* 236: 199–209.
- Creel, S., Creel, N. M., Mills, M. G. L. & Monfort, S. L. (1997a). Rank and reproduction in cooperatively breeding African wild dogs: behavioural and endocrine correlates. *Behavioural Ecology* 8: 298–306.
- Creel, S., Creel, N. M., Munson, L., Sanderlin, D. & Appel, M. J. G. (1997b). Serosurvey for selected viral diseases and demography of African wild dogs in Tanzania. *Journal of Wildlife Diseases* 33: 823–832.
- Creel, S., Creel, N., Wildt, D. E. & Monfort, S. L. (1992). Behavioural and endocrine mechanisms of reproductive suppression in Serengeti dwarf mongooses. *Animal Behaviour* 43: 231–45.
- Creel, S. R. & Waser, P. M. (1994). Inclusive fitness and reproductive strategies in dwarf mongooses. *Behavioral Ecology* 5: 339–348.
- Crête, M. & Messier, F. (1987). Evaluation of indices of gray wolf, *Canis lupus*, density in hardwood-conifer forests of southwestern Quebec. *Canadian Field-Naturalist* 101: 147–152.
- Crisp, R. (1998). Animal liberation is not an environmental ethic. *Environmental Values* 7: 476–478.
- Cromley, C. M. (2000). The killing of grizzly bear #209 in Grand Teton National Park, Wyoming: Identifying norms for grizzly bear management. In *Foundations of Natural Resources Policy and Management*, eds T. W. Clark, A. R. Willard & C. M. Cromley, pp. 173–220. New Haven: Yale University Press.
- Cronin, M. A., Hills, S., Born, E. W. & Patton, J. C. (1994). Mitochondrial DNA variation in Atlantic and Pacific walruses. *Canadian Journal of Zoology* 72: 1035–1043.
- Cronon, W. (1983). *Changes in the Land: Indians, Colonists, and the Ecology of New England*. New York: Hill & Wang.
- Crooks, K. (1994). Demography and status of the island fox and the island spotted skunk on Santa Cruz Island, California. *Southwestern Naturalist* 39: 257–262.
- Crooks, K. R. & Soule, M. E. (1999). Mesopredator release and avifaunal extinctions in a fragmented system. *Nature* 400: 563–566.
- Crosby, A. W. (1994). *Germs, Seeds and Animals: Studies in Ecological History*. Armonk, NY: M. E. Sharpe, Inc.

- Culver, M. (1999). *Molecular Genetic Variation, Phylogeography and Natural History of the Puma* (*Puma concolor*). PhD Dissertation, University of Maryland, College Park.
- Culver, M., Johnson, W. E., Pecon-Slattery, J. & O'Brien, S. J. (2000). Genomic ancestry of the American puma (*Puma concolor*). *Journal of Heredity* 91: 186–197.
- Cumming, D. H. M. (1982). A case history of the spread of rabies in an African country. *South African Journal of Science* 78: 443–447.
- Cumming, D. H. M., du Toit, R. F. & Stuart, S. N. (1990). *African Elephants and Rhinos. Status Survey and Conservation Action Plan*. Gland: IUCN.
- Cunningham, M. W., Dunbar, M. R., Buergelt, C. D., Homer, B. L., Roelke-Parker, M. E., Taylor, S. K., King, R., Citino, S. B. & Glass, C. (1999). Atrial septal defects in Florida panthers. *Journal of Wildlife Discovery* 35: 519–530.
- Cunningham, C. & Berger, J. (1998). *Horn of darkness*. USA: Oxford University Press Inc.
- Cunningham, S., Haynes, L. A., Gustavson, C. & Haywood, D. D. (1995). Evaluation of the interaction between mountain lions and cattle in the Aravaipa-Klondyke area of southeast Arizona. *Arizona Game and Fish Department Technical Report* No. 17, Phoenix.
- Currier, J. P. (1983). *Felis concolor*. *Mammalian Species* 200: 1–7.
- Currier, M. J. P., Sheriff, S. L. & Russell, K. R. (1977). Mountain lion population and harvest near Canon City, Colorado, 1974–1977. *Colorado Division of Wildlife Special Report* 42: 1–12.
- Curry-Lindahl, K. (1972). The brown bear (*Ursus arctos*) in Europe: decline, present distribution, biology and ecology. In *Bears – Their Biology and Management*, ed. S. Herrero. Morges: IUCN.
- Cypher, B. L. (1997). Effects of radiocollars on San Joaquin kit foxes. *Journal of Wildlife Management*, 61: 1412–1423.
- Cypher, B. L. & Scrivener, J. H. (1992). Coyote control to protect the endangered San Joaquin kit foxes in the then Naval Petroleum Reserves, California. In *Proceedings of 15th Vertebrate Pest Conference*, eds J. E. Borecco & R. E. Marsh, pp. 42–47. Davis: University of California, Davis.
- Cypher, B. L. & Spencer, K. A. (1998). Competitive interactions between coyotes and San Joaquin kit foxes. *Journal of Mammalogy* 79: 204–214.
- Danell, K. & Hörnfeldt, B. (1987). Numerical responses by populations of red fox and mountain hare during an outbreak of sarcoptic mange. *Oecologia* 73: 533–536.
- Daniels, M. J., Balharry, D., Hirst, D., Kitchener, A. C. & Aspinall, R. J. (1998). Morphological and pelage characteristics of wild living cats in Scotland: implications for defining the 'wildcat'. *Journal of Zoology* 244: 231–247.
- Daniels, M. J., Golder, M. C., Jarrett, O. & Macdonald, D. W. (1999). Feline viruses in wildcats from Scotland. *Journal of Wildlife Diseases* 35: 121–124.
- Daniels, M. J., Macdonald, D. W., Johnson, P. J. & Barratt, E. M. (In press). Wild living cats in the north east of Scotland: when is a wildcat not a wild cat? *Journal of Applied Ecology*.
- Danielson, B. J. (1991). Communities in a landscape: the influence of habitat heterogeneity on the interactions between species. *American Naturalist* 138: 1105–1120.
- Da Silva, J., Woodroffe, R. & Macdonald, D.W. (1993). Habitat, food availability and

- group territoriality in the European badger, *Meles meles*. *Oecologia* **95**: 558–564.
- Daszak, P., Cunningham, A. A. & Hyatt, A. D. (2000). Emerging infectious diseases of wildlife. Threats to biodiversity and human health. *Science*. **287**: 443–449.
- Davidson W. R., Nettles, V. F., Hayes, L. E., Howerth, E. W. & Couvillon, C. W. (1992). Diseases diagnosed in gray foxes (*Urocyon cinereoargenteus*) from the southeastern United States. *Journal of Wildlife Diseases* **28**: 28–33.
- Davies, J. M., Roper, T. J. & Shepherdson, D. J. (1987). Seasonal distribution of road kills in the European badger (*Meles meles*). *Journal of Zoology (London)* **211**: 525–9.
- Davies, N., Villablanca, F. X. & Roderick, G. K. (1999). Determining the source of individuals: multilocus genotyping in nonequilibrium population genetics. *Trends in Ecology and Evolution* **14**: 17–21.
- Davison, A., Birks, J. D. S., Griffiths, H. I., Kitchener, A. C., Biggins, D. & Butlin, R. K. (1999). Hybridization and the phylogenetic relationship between polecats and domestic ferrets in Britain. *Biological Conservation* **87**: 155–161.
- Davison, R. P. (1980). *The Effect of Exploitation on Some Parameters of Coyote Populations*. PhD thesis, Utah State University, Logan.
- Dawkins, M. S. (1998). Evolution and animal welfare. *Quarterly Review of Biology* **73**: 305–328.
- Dayan, T., Simberloff, D., Tchernov, E. & Yom-Tov, Y. (1989). Inter- and intraspecific character displacement in mustelids. *Ecology* **70**: 1526–1539.
- Dean, E. E. (1979). *Training of Dogs to Detect Black-footed Ferrets*. Santa Fe: New Mexico Department of Game and Fish, Southwestern Research Institute.
- Deems, E. F. & Pursley, D. (Eds) (1983). North American Furbearers, a Contemporary Reference. Worldwide Furbearer Conference 1983. International Association of Fish and Wildlife Agencies, and Maryland Department of Natural Resources.
- Delahay, R. J., Daniels, M. J., Macdonald, D. W., McGuire, K. & Balharry, D. (1998). Do patterns of helminth parasitism differ between groups of wild living cats in Scotland? *Journal of Zoology (London)* **245**: 175–183.
- Delibes, M. (1990). *Status and Conservation Needs of the Wolf (Canis lupus) in the Council of Europe Member States*. Strasbourg: Council of Europe.
- DeMaster, D. P., Kingsley, M. C. S. & Stirling, I. (1980). A multiple mark and recapture estimate applied to polar bears. *Canadian Journal of Zoology* **58**: 633–638.
- Demaynadier, P. G. & Hunter, M. L. Jr. (1998). Effects of silvicultural edges on the distribution and abundance of amphibians in Maine. *Conservation Biology* **12**: 340–352.
- Derr, M. (1999a). Texas rescue squad comes to aid of Florida panther. (*SciencePages*) *New York Times* (November 2, 1999).
- Derr, M. (1999b). A Rescue Plan for Threatened Species, Breeding Programs Falter. *New York Times* (January 19, 1999).
- De Ruiter, J. & Geffen, E. (1998). Relatedness of matriline, dispersing males and social groups in long-tailed macaques (*Macaca fascicularis*). *Proceedings of the Royal Society of London, Series B* **265**: 79–87.
- DeVilliers, M.S., Meltzer, D. G. A., Van Heerden, J., Mills, M. G. L., Richardson, P. R. K., & Van Jaarsveld, A. S. (1995). Handling-induced stress and mortalities in African wild dogs (*Lycaon pictus*). *Proceedings of the Royal Society of London*,

- Series B* 262: 215–220.
- deVos, A. (1952). *Ecology and management of fisher and marten in Ontario*. Ontario Department of Lands & Forests, Technical Bulletin, Wildlife Series 1: 1–90.
- deVos, A. (1977). Biological effects of terrestrial vertebrates introduced into non-native environments. *Tigerpaper* 4: 2–5.
- deVos, A., Manville, R. H. & Velder, R. G. (1956). Introduced mammals and their influence on native biota. *Zoologica* (New York Zoological Society) 41: 163–194.
- deVos, A. & Petrides, G. A. (1967). Biological effects caused by terrestrial vertebrates introduced into non-native environments. *Proceedings and Papers Tenth Technical Meeting, IUCN Publications, New Series* 9: 113–119.
- Dew, R. D. & Kennedy, M. L. (1980). Genic variation in raccoons, *Procyon lotor*. *Journal of Mammalogy* 61: 697–702.
- Dexter, N. & Meek, P. (1998). An analysis of bait-uptake and non-target impacts during a fox-control exercise. *Wildlife Research* 25: 147–155.
- Diamond, J. M. (1984a). Historic extinctions: a Rosetta Stone for understanding prehistoric extinctions. In *Quaternary Extinctions*, eds P. S. Martin & R. G. Klein, pp. 824–862. Tucson: University of Arizona Press.
- Diamond, J. M. (1984b). 'Normal' extinctions of isolated populations. In *Extinctions*, ed. M. H. Nitecki, pp. 191–246. Chicago: University of Chicago Press.
- Diamond, J. M. (1989). The present, past and future of human-caused extinctions. *Philosophical Transactions of the Royal Society of London, Series B* 325: 469–477.
- Diamond, J. M. & Case, T. J. (1986). Introductions, extinctions, exterminations, and invasions. In *Community Ecology*, eds J. M. Diamond & T. J. Case, pp. 65–79. New York: Harper & Row.
- Dickman, C. R. (1996a). *Overview of the Impact of Feral Cats on Australian Native Fauna*. Canberra: Australian Nature Conservation Agency.
- Dickman, C. R. (1996b). Impact of exotic generalist predators on the native fauna of Australia. *Wildlife Biology* 2: 185–195.
- Dietz, R., Heide-Jørgensen, M. P. & Härkönen, T. (1989). Mass death of harbour seals *Phoca vitulina* in Europe. *Ambio* 18: 258–264.
- Dietz, L. A. H. & Nagagata, E. H. (1995). Golden lion tamarin conservation program: a community educational effort for forest conservation in Rio de Janeiro State, Brazil. In *Conserving Wildlife. International Education and Communication Approaches*, ed. S. K. Jakobson, pp. 64–86. New York: Columbia University Press.
- Dietz, T. & Stern, P. C. (1998). Science, values, and biodiversity. *BioScience* 48: 441–444.
- Dilks, P. J. (1979). Observations on the food of the feral cats on Campbell Island. *New Zealand Journal of Ecology* 2: 64–66.
- Dinerstein, E., Rijal, A., Bookbinder, M., Kattel, B. & Rajuria, A. (1999). Tigers as neighbours: efforts to promote local guardianship of endangered species in low-land Nepal. In *Riding the Tiger – Tiger Conservation in Human-Dominated Landscapes*, eds J. Seidensticker, S. Christie & P. Jackson, pp. 316–333. Cambridge: Cambridge University Press.
- Dinerstein, E., Wikramanayake, E., Robinson, J., Karanth, U., Rabinowitz, A., Olson, D., Mathew, T., Hedao, P., Connor, M., Hemley, G. & Bolze, D. (1997). A framework for identifying high priority areas and actions for the conservation of tigers in the wild. Washington/New York: WWF/WCS.

- DiToro, D. (1999). *Mexican Wolf Recovery Program Project Update: July 1998 – March 1999*. Arizona: Arizona Game and Fish Department and New Mexico Department of Game and Fish.
- Divyabhanusinh (1995). *The End of a Trail – The Cheetah in India*. New Delhi: Bannyan Books.
- Dix, B. (1993). *Population Changes and Diet Preferences of the New Zealand Fur Seal (Arctocephalus forsteri) in eastern Cook Strait*. MSc thesis, Victoria University of Wellington, Wellington, New Zealand.
- Doak, D. F. (1995). Source-sink models and the problem of habitat degradation: general models and applications to the Yellowstone grizzly. *Conservation Biology* 9: 1370–1379.
- Dobson, A. (1995). The ecology and epidemiology of rinderpest virus in Serengeti and Ngorongoro Conservation area. In *Serengeti II: Dynamics, Management, and Conservation of an Ecosystem*, eds A. R. E. Sinclair & P. Arcese, pp. 485–505. Chicago: University of Chicago Press.
- Dobson, A. P. (1988). Restoring island ecosystems: the potential of parasites to control introduced mammals. *Conservation Biology* 2: 31–39.
- Dobson, A. P. & Grenfell, B. T. (1995). Introduction. In *Ecology of Infectious Diseases in Natural Populations*, eds B. T. Grenfell & A. P. Dobson, pp. 1–19. Cambridge: Cambridge University Press.
- Dobson, A. P. & May, R. M. (1986). Disease and conservation. In *Conservation Biology: the Science of Scarcity and Diversity*, ed. M. E. Soulé, pp. 345–365. Sunderland, MA: Sinauer Associates.
- Dobson, M. (1994). Patterns of land distribution in Japanese land mammals. *Mammal Review* 24: 91–111.
- Donoghue, M. (1997). Seal/fisheries interactions in New Zealand. In *Pinniped Populations, Eastern North Pacific: status, trends and issues*, eds G. Stone, J. Goebel & S. Webster, pp. 56–62. A symposium of the 127th Annual Meeting of the American Fisheries Society. New England Aquarium and Monterey Bay Aquarium, Conservation Department of the New England Aquarium, Central Wharf, Boston, MA.
- Doolan, S. P. & Macdonald, D. W. (1996). Dispersal and extra-territorial prospecting by slender-tailed meerkats (*Suricata suricata*) in the southwestern Kalahari. *Journal of Zoology (London)* 240: 59–73.
- Dorst, J. & Dandelot, P. (1972). *Collins field guide – Larger Mammals of Africa*. London: Harper Collins.
- Douglas, C. W. & Strickland, M. A. (1987). Fisher. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 511–529. Ontario Ministry of Natural Resources.
- Dowling, T. E. & Demarais, B. D. (1993). Evolutionary significance of introgressive hybridization in cyprinid fishes. *Nature* 362: 444–446.
- Dowling, T. E., Mminckley, W. L., Douglas, M. E., Marsh, P. C. & Demarais, B. D. (1992). The use of molecular characters in conservation biology – response. *Conservation Biology* 6: 600–603.
- Dragoo, J. W., Bradley, R. D., Honeycutt, R. L. & Templeton, J. W. (1993). Phylogenetic relationships among the skunks: a molecular perspective. *Journal of Mammalian Evolution* 1: 255–267.
- Dragoo, J. W., Choate, J. R., Yates, T. L. & O'Farrell, T. P. (1990). Evolutionary and

- taxonomic relationships among North American arid land foxes. *Journal of Mammalogy* 71: 318–332.
- Dragoo, J. W. & Honeycutt, R. L. (1997). Systematics of the mustelid-like carnivores. *Journal of Mammalogy* 78: 426–443.
- Drake, J. A., Mooney, H. A., di Castri, F., Groves, R. H., Kruger, F. J., Rejmanek, M. & Williamson, M. (Eds) (1989). *Biological Invasions, a Global Perspective*. Chichester: John Wiley & Sons.
- Driscoll, C. (1998). *A characterization of microsatellite loci variation in Panthera*. MS Thesis, Hood College, Frederick, MD.
- Duckler, G. & Van Valkenburgh, B. (1998). Osteological corroboration of pathological stress in a population of endangered Florida pumas (*Puma concolor coryi*). *Animal Conservation* 1: 39–46.
- Duffy, L. K., Bowyer, R. T., Testa, J. W. & Faro, J. B. (1994). Chronic effects of the Exxon Valdez oil spill on blood and enzyme chemistry of river otters. *Environmental Toxicology and Chemistry* 13: 643–647.
- Duffy, L. K., Bowyer, R. T., Testa, J. W. & Faro, J. B. (1996). Acute phase proteins and cytokines in Alaskan mammals as markers of chronic exposure to environmental pollutants. *American Fisheries Society Symposium* 18: 809–813.
- Duffy, L. K., Hecker, M. K., Blundell, G. M. & Bowyer, R. T. (1999). An analysis of the fur of river otters in Prince William Sound, Alaska: oil related hydrocarbons 8 years after the Exxon Valdez oil spill. *Polar Biology* 21: 56–58.
- Dulamtseren, S. (1970). Guidebook to the mammals of Mongolia. Ulaanbaatar: State Publishing House. (In Mongolian.)
- Dunlap, T. R. (1988). *Saving America's Wildlife: Ecology and the American Mind, 1850–1990*. New Jersey: Princeton University Press.
- Dunning, J. B., Danielson, B. J. & Pulliam, H. R. (1992). Ecological processes that affect populations in complex landscapes. *Oikos* 65: 169–75.
- Dunstone, N. & Ireland, M. (1989). The mink menace? A reappraisal. In *Mammals as Pests*, ed. R. J. Putman, pp. 225–241. London: Chapman and Hall.
- Durant, S. M. (1998). Competition refuges and coexistence: an example from Serengeti carnivores. *Journal of Animal Ecology* 67: 370–386.
- Dye C., Barlow, N. D., Begon, M. *et al.* (1995). Microparasite group report: Persistence of microparasites in natural populations. In *Ecology of Infectious Diseases in Natural Populations*, eds B. T. Grenfell & A. P. Dobson, pp. 123–143. Cambridge: Cambridge University Press.
- East, M. L. & Hofer, H. (1991). Loud calling in a female-dominated mammalian society: I. Structure and composition of whooping bouts of spotted hyaenas, *Crocuta crocuta*. *Animal Behaviour* 42: 637–649.
- East, M. L. & Hofer, H. (1996). Wild dogs in the Serengeti ecosystem: what really happened? *Trends in Ecology and Evolution* 11: 509.
- Easteal, S. (1981). The history of introductions of *Bufo marinus* (Amphibia: Anura); a natural experiment in evolution. *Biological Journal of the Linnean Society* 16: 93–113.
- Easterbee, N. (1991). The wildcat. In *The Handbook of British Mammals*, eds G. Corbet & S. Harris, pp. 431–437. 3rd edn. Oxford: Blackwell Scientific Publications.
- Eaton, R. L. (1974). *The Cheetah: The Biology, Ecology and Behavior of an Endangered Species*. New York: Van Nostrand Reinhold.
- Ebenhard, T. (1988). Introduced birds and mammals and their ecological effects.

- Swedish Wildlife Research* 13: 1–107.
- Eberhardt, L. L. & Simmons, M. A. (1992). Assessing rates of increase from trend data. *Journal of Wildlife Management* 56: 603–610.
- Edwards, S. R. & Allen, C. M. (1992). Sport hunting as a sustainable use of wildlife. IUCN Sustainable Use of Wildlife Programme. Washington DC: IUCN.
- Effenberger, S. & Suchentrunk, F. (1999). RFLP analysis of the mitochondrial DNA of otters (*Lutra lutra*) from Europe – implications for conservation of a flagship species. *Biological Conservation* 90: 229–234.
- Ehrenfeld, D. W. (1970). *Biological Conservation*. Toronto: Holt, Rinehart, and Winston of Canada.
- Eisenberg, J. F. (1981). *The Mammalian Radiations*. Chicago: University of Chicago Press.
- Eisenberg, J. F. & Seidensticker, J. (1976). Ungulates in southern Asia: a consideration of biomass estimates for selected habitats. *Biological Conservation* 10: 293–308.
- Eizirik, E., Bonatto, S. L., Johnson, W. E., Crawshaw, P., Vie, C., Brousset, D., O'Brien, S. J. & Salzano, F. M. (1998). Phylogeographic patterns and mitochondrial DNA control region evolution in two Neotropical cats (*Mammalia, Felidae*). *Journal of Molecular Evolution* 47: 613–624.
- Eizirik, E., Indrusiak, C. B. & Johnson, W. E. (2000). Jaguar population viability analyses: evaluation of parameters and a case study of a remnant population in a South American subtropical rain forest. In *Jaguars in the New Millennium. A Status Assessment, Priority Detection, and Recommendations for the Conservation of Jaguars in the Americas*, eds R. A. Medellin, C. Chetkiewicz, A. Rabinowitz, K. H. Redford, J. G. Robinson, E. Sanderson & A. Taber. Universidad Nacional Autonoma de Mexico/Wildlife Conservation Society.
- Elgmork, K. (1994). The decline of a brown bear (*Ursus arctos* L.) population in central south Norway. *Biological Conservation* 69: 123–129.
- Elliot, R. (1997). *Faking Nature: The Ethics of Environmental Restoration*. New York: Routledge.
- Elowe, K. D. & Dodge, W. E. (1989). Factors affecting black bear reproductive success and cub survival. *Journal of Wildlife Management* 53: 962–968.
- Elton, C. (1942). *Voles, Mice and Lemmings: Problems in Population Dynamics*. Oxford, UK: Oxford University Press.
- Elton, C. & Nicholson, M. (1942). The ten-year cycle in numbers of the lynx in Canada. *Journal of Animal Ecology* 11: 215–244.
- Elton, C. S. (1958). *The Ecology of Invasions by Animals and Plants*. London: Methuen and Co.
- Engeman, R. M., Allen, L. & Zerbe, G. O. (1998). Variance estimate for the Allen activity index. *Wildlife Research* 25: 643–648.
- Englund, J. (1970). Some aspects of reproduction and mortality rates in Swedish foxes (*Vulpes vulpes*), 1961–63 and 1966–69. *Swedish Wildlife* 81: 1–82.
- Erickson, A. W. & Siniff, D. B. (1963). A statistical evaluation of factors influencing aerial survey results for brown bears. *Transactions of the North American Wildlife and Natural Resources Conference* 28: 391–409.
- Erickson, D. W. (1982). Estimating and using furbearer harvest information. In *Midwest Furbearer Management*, ed. G. C. Sanderson, pp. 53–65. Proceedings of the Symposium of the 43rd Midwest Fish and Wildlife Conference, Wichita,

- Kansas.
- Erlich, P. R. (1986). Which animal will invade ? In *Ecology of Biological Invasions of North America and Hawaii*, eds H. A. Mooney & J. A. Drake, pp. 79–95. New York: Springer Verlag.
- Erlinge, S. (1969). Food habits of the otter (*Lutra lutra*) and mink (*Mustela vison*) in a trout water in southern Sweden. *Oikos* 20: 1–7.
- Erlinge, S. (1972). Interspecific relations between otter *Lutra lutra* and mink *Mustella* [sic] *vison* in Sweden. *Oikos* 23: 327–335.
- Erlinge, S. (1974). Distribution, territoriality and numbers of the weasel *Mustela nivalis* in relation to prey abundance. *Oikos* 25: 308–314.
- Erlinge, S. (1983). Demography and dynamics of a stoat, *Mustela erminea*, population in a diverse community of vertebrates. *Journal of Animal Ecology* 52: 507–526.
- Errington, P. L. (1956). Factors limiting higher vertebrate populations. *Science* 124: 304–307.
- Estes, J. A. (1979). Exploitation of marine mammals: r-selection or K-strategists? *Journal of the Fisheries Research Board of Canada* 36: 1009–1017.
- Estes, J. A. (1991). Catastrophes and conservation: lessons from sea otters and the Exxon Valdez. *Science* 254: 1596.
- Estes, J. A. (1998). Concerns about rehabilitation of oiled wildlife. *Conservation Biology* 12: 1156–1157.
- Estes, R. D. & Goddard, J. (1967). Prey selection and hunting behavior of the African wild dogs. *Journal of Wildlife Management* 31: 52–70.
- Estoup, A., Solignac, M., Cornuet, J.-M., Gudet, J. & Scholl, A. (1996). Genetic differentiation of continental and island populations of *Bombus terrestris* (Hymenoptera, Apidae) in Europe. *Molecular Ecology* 5: 19–32.
- Evans, P. G. H., Macdonald, D. W. & Cheeseman, C. L. (1989). Social structure of the Eurasian badger (*Meles meles*). Genetic evidence. *Journal of Zoology (London)* 218: 587–595.
- Everard, C. O. R., Baer, G. M. & James, A. (1974). Epidemiology of mongoose rabies in Grenada. *Journal of Wildlife Diseases* 10: 190–196.
- Evermann, B. W. (1914). *Alaska Fisheries and Fur Industries in 1913*. Department of Commerce, Bureau of Fisheries (USA), Document No. 797.
- Evermann, J., Burns, F. G., Roelke, M. E., McKeirnan, A. J., Greelee, A., Ward, A. C. & Pfeifer, M. L. (1984). Diagnostic features of an epizootic of feline infectious peritonitis in captive cheetahs. *American Association of Veterinary Lab Diagnosis* 26: 265–282.
- Evink, G. L., Garrett, P., Zeigler, D. & Berry, J. (Ed.) (1996). *Proceedings of the Transportation Related Wildlife Mortality Seminar*, FL-ER-58-96. Tallahassee: Florida Department of Transportation.
- Evink, G. L., Garrett, P., Zeigler, D. & Berry, J. (Ed.) (1998). *Proceedings of the International Conference on Wildlife Ecology and Transportation*, FL-ER-69-98. Tallahassee: Florida Department of Transportation.
- Fahrig, L. (1997). Relative effects of habitat loss and fragmentation on population extinction. *Journal of Wildlife Management* 61: 603–10.
- Fahrig, L. & Merriam, G. (1994). Conservation of fragmented populations. *Conservation Biology* 8: 50–9.
- Fanshawe, J. H. & Fitzgibbon, C. D. (1993). Factors influencing the hunting success

- of an African wild dog pack. *Animal Behaviour* 45: 479–490.
- Fanshawe, J. H., Frame, L. H. & Ginsberg, J. R. (1991). The wild dog – Africa's vanishing carnivore. *Oryx* 25: 137–146.
- Fanshawe, J. H., Ginsberg, J. R., Sillero-Zubiri, C. & Woodroffe, R. (1997). The status and distribution of remaining wild dog populations. In *The African Wild Dog: Status Survey and Conservation Action Plan*, eds R. Woodroffe, J. Ginsberg & D. Macdonald, pp. 11–57. Gland: IUCN.
- Favre, L., Balloux, F., Goudet, J. & Perrin, N. (1997). Female-biased dispersal in the monogamous mammal *Crocodyrus russula*: evidence from field data and micro-satellite patterns. *Proceedings of the Royal Society of London, Series B*, 264: 127–132.
- Fay, F. H. (1982). Ecology and biology of the Pacific walrus, *Odobenus rosmarus divergens* Illiger. North American Fauna, No. 74. Washington, DC: US Dept of the Interior, Fish and Wildlife Service.
- Feiler, A. (1984). Über die Saugetiere der Insel Sao Tomé. Zoologische Abh. *Museum Tierkunde Dresden* 40: 75–78.
- Felsenstein, J. (1985). Phylogenies and the comparative method. *American Naturalist* 125: 1–15.
- Ferreras, P., Aldama, J.J., Beltrán, J.F. & Delibes, M. (1992). Rates and causes of mortality in a fragmented population of Iberian lynx *Felis pardina* Temminck, 1824. *Biological Conservation* 61: 197–202.
- Ferreras, P. & Macdonald, D. W. (1999). The impact of American mink *Mustela vison* on water birds in the upper Thames. *Journal of Applied Ecology* 36: 701–708.
- Festetics, A. (1980). Die Wiedereinbürgerung des Luchses in Europa. In *Der Luchs in Europa*, ed. A. L. Festetics, pp. 224–254. Greven: Kilda Verlag.
- Field, J., Solis, C., Queller, D. & Strassmann, J. (1998). Social and genetic structure of paper wasp cofoundress associations: test of reproductive skew models. *American Naturalist* 151: 545–563.
- Finlayson, B. & McMahon, T. (1994). Funding and conduct of environmental research. In *Restoring the Land: Environmental Values, Knowledge, and Action*, eds D. Evans & D. Yenchken, pp. 44–62. Melbourne: Melbourne University Press.
- Fisher, H. I. (1948). The question of avian introductions in Hawaii. *Pacific Science* 2: 58–64.
- Fitzgerald, B. M. (1977). Weasel predation on a cyclic population of the montane vole (*Microtus montanus*) in California. *Journal of Animal Ecology* 46: 367–397.
- Fitzgerald, B. M. (1988). Diet of domestic cats and their impact on prey populations. In *The Domestic Cat: The Biology of its Behaviour*, eds D. Turner & P. Bateson, pp. 123–145. Cambridge: Cambridge University Press.
- Fjeldså, J. (1994). Geographical patterns for relic and young species of birds in Africa and South America and implications for conservation priorities. *Biodiversity and Conservation* 3: 207–226.
- Fleming, P. J. S., Allen, L. R., Berghout, M. J., Meek, P. D., Pavlov, P. M., Stevens, P., Strong, K. Thompson, J. A. & Thomson, P. S. (1998). The performance of wild-cand traps in Australia: Efficiency, selectivity and trap-related injuries. *Wildlife Research* 25: 327–338.
- Flynn, J. J. (1996). Carnivoran phylogeny and rates of evolution: morphological, taxic, and molecular. In *Carnivore Behavior, Ecology, and Evolution*, vol. 2, ed. J. L.

- Gittleman, pp. 542–581. Ithaca: Cornell University Press.
- Flynn, J. J. & Galiano, H. (1982). Phylogeny of early Tertiary Carnivora, with a description of a new species *Protictis* from the middle Eocene of northwestern Wyoming. *American Museum Novitates* 2725: 1–64.
- Flynn, J. J. & Nedbal, M. A. (1998). Phylogeny of the Carnivora (Mammalia). congruence vs. incompatibility among multiple data sets. *Molecular Phylogenetics and Evolution* 9: 414–426.
- Follmann, E. H. & Hachtel, J. L. (1990). Bears and pipeline construction in Alaska (USA). *Arctic* 43: 103–109.
- Foose, T. J. (1987). Species Survival Plans and Overall Management Strategies. In *Tigers of the World*, eds R. L. Tilson & U. S. Seal, pp. 304–316. Park Ridge, NJ: Noyes Publications.
- Foose, T. J. & Seal, U. S. (1992). Conservation assessment and management plans, global captive action plans summary reports. Minnesota: IUCN-CBSG.
- Foote, M. (1997). Estimating taxonomic durations and preservation probability. *Paleobiology* 23: 278–300.
- Foran, D. R., Crooks, K. R. & Minta, S. C. (1997a). Species identification from scat: an unambiguous genetic method. *Wildlife Society Bulletin* 25: 835–839.
- Foran, D. R., Minta, S. C. & Heinemeyer, K. S. (1997b). DNA-based analysis of hair to identify species and individuals for population research and monitoring. *Wildlife Society Bulletin* 25: 840–847.
- Forbes, S. & Boyd, D. (1997). Genetic structure and migration in native and reintroduced Rocky Mountain wolf populations. *Conservation Biology* 11: 1226–1234.
- Forbes, G. J. & Theberge, J. B. (1996). Response by wolves to prey variation in central Ontario. *Canadian Journal of Zoology* 74: 1511–1520.
- Foreman, G. E. (1992). Pumas and people. *Cat News* 16: 11–12.
- Foresman, K. R. & Pearson, D. E. (1998). Comparison of proposed survey procedures for detection of forest carnivores. *Journal of Wildlife Management* 62: 1217–1226.
- Forsyth, M. A., Kennedy, S., Wilson, S., Eybatov, T. & Barrett, T. (1998). Canine distemper virus in a Caspian seal. *Veterinary Record* 143: 662–664.
- Fortenberry, D. K. (1970). Ecology and management of the black-footed ferret. In *Annual Progress Report of the Patuxent Wildlife Research Center*, pp. 216–218. Laurel, MD: U.S. Fish and Wildlife Service.
- Fosbrooke H. H. (1963). The stomoxys plague in Ngorongoro, 1962. *East African Wildlife Journal* 1: 124–126.
- Foster, M. L. & Humphrey, S. R. (1995). Use of highways and underpasses by Florida panthers and other wildlife. *Wildlife Society Bulletin* 23: 95–100.
- Foster-Turley, P., Macdonald, S. & Mason, C. (Eds) (1990). *Otters. An Action Plan for their Conservation*. Gland: IUCN. 126pp.
- Foucault, F., Praz, F., Jaulin, C. & Amor-Gueret, M. (1996). Experimental limits of PCR analysis of (CA)_n repeat alterations. *Trends in Genetics* 12: 450–452.
- Fountain, M. (1975). Censusing and collecting marsh raccoons via an air-boat. *Proceedings of the Annual Conference of Southeast Assoc. Game and Fish Comm.* 29: 680–681.
- Fox, M. W. (1984). *The Whistling Hunters: Field Studies of the Asiatic Wild Dog* (*Cuon alpinus*). Albany: SUNY Press.
- Frafjord, K., Becker, D. & Angerbjörn, A. (1989). Interactions between arctic and

- red foxes in Scandinavia – predation and aggression. *Arctic* 42: 354–356.
- Frame, L. H., Malcolm, J. R., Frame, G. W. & van Lawick, H. (1979). Social organization of African wild dogs (*Lycaon pictus*) on the Serengeti Plains, Tanzania, 1967–1978. *Zeitschrift für Tierpsychologie* 50: 225–249.
- Framstad, E., Stenseth, N. C., Bjørnstad, O. N. & Falk, W. (1997). Limit cycles in Norwegian lemmings: tensions between phase-dependence and density-dependence. *Proceedings of the Royal Society of London, Series B* 264: 31–38.
- Frank, L. G. (1986). Social organization of the spotted hyena (*Crocuta crocuta*). II. Dominance and reproduction. *Animal Behaviour* 34: 1510–1527.
- Frank, L. G. (1996). Female masculinization in the spotted hyena: endocrinology, behavioral ecology and evolution. In *Carnivore Behavior, Ecology and Evolution*, vol. II, ed. J. L. Gittleman, pp. 78–131. Ithaca: Cornell University Press.
- Frank, L. G. (1998a). The Laikipia Predator Project – First biannual progress report. Unpublished Report, Mpala Research Centre.
- Frank, L. G. (1998b). Living with lions: Carnivore conservation and livestock in Laikipia District, Kenya. Unpublished Report, Development Alternatives, Inc.
- Frank, L. G., Holekamp, K. E. & Smale, L. (1995). Dominance, demography and reproductive success of female spotted hyenas. In *Serengeti II: Research, Management, and Conservation of an Ecosystem*, eds A. R. E. Sinclair & P. Arcese, pp. 364–384. Chicago: Chicago University Press.
- Frank, S. A. (1990). Sex allocation theory for birds and mammals. *Annual Review of Ecology and Systematics* 21: 13–55.
- Frankel, O. & Soule, M. (1981). *Conservation and Evolution*. Cambridge: Cambridge University Press.
- Frankham, R. (1995). Effective population size/adult population size ratios in wildlife: a review. *Genetic Research* 66: 95–107.
- Frankham, R., Hemmer, H., Ryder, O. A., Cothran, E. G., Soule, M. E., Snyder, M. & Murray, N. D. (1986). Selection in captive populations. *Zoo Biology* 5: 127–138.
- Franklin, I. R. (1980). Evolutionary changes in small populations. In *Conservation Biology. An Evolutionary Ecological Perspective*, eds M. E. Soule & B. A. Wilcox-Sinauer, Associates, pp. 135–139. Sunderland, MA: Sinauer.
- Franklin, I. R. & Frankham, R. (1998). How large must populations be to retain evolutionary potential? *Animal Conservation*, 1: 69–70.
- Franklin, N., Sriyanto, B., Siswomartono, D., Manansang, J. & Tilson, R. (1999). Last of the Indonesian Tigers: A Cause For Optimism. In *Riding the Tiger: Tiger Conservation in Human-dominated Landscape*, eds J. Seidensticker, S. Christie & P. Jackson, pp. 114–122. Cambridge: Cambridge University Press.
- Franklin, W. L., Johnson, W. E., Sarno, R. J. & Iriarte, J. A. (1999). Ecology of the Patagonia puma (*Felis concolor patagonica*) in southern Chile. *Biological Conservation* 90: 33–40.
- Frati, F., Hartl, G. B., Lovari, S., Delibes, M. & Markov, G. (1998). Quaternary radiation and genetic structure of the red fox *Vulpes vulpes* in the Mediterranean Basin, as revealed by allozymes and mitochondrial DNA. *Journal of Zoology (London)* 245: 43–51.
- Frederickson, L. (1979). Furbearer population surveys: techniques, problems and uses in South Dakota. In *Proceedings of the Midwest Furbearer Conference*, pp. 62–70. Kansas State University, Coop. Ext. Serv., Manhattan.
- Freitag, S., Nicholls, A. O. & van Jaarsveld, A. S. (1996). Nature reserve selection in

- the Transvaal, South Africa: what data should we be using? *Biodiversity and Conservation* 5: 285–298.
- Freitag, S. & van Jaarsveld, A. S. (1997). Relative occupancy, endemism, taxonomic distinctiveness and vulnerability: prioritising regional conservation actions. *Biodiversity and Conservation* 6: 211–32.
- Freitag, S., van Jaarsveld, A. S. & Biggs, H. C. (1997). Ranking priority biodiversity areas: an iterative conservation value-based approach. *Biological Conservation* 82: 263–72.
- French, D. D., Corbett, L. K. & Easterbee, N. (1988). Morphological discriminants of Scottish wildcats (*Felis silvestris*), domestic cats (*F. catus*) and their hybrids. *Journal of Zoology (London)* 161: 75–123.
- French, W. C. (1995). Against biospherical egalitarianism. *Environmental Ethics* 17: 39–57.
- Fritts, S. H. (1982). Wolf depredation on livestock in Minnesota. *U.S. Fish and Wildlife Service Resource Publication* 145: 1–11.
- Fritts, S. H. (1983). Record dispersal by a wolf from Minnesota. *Journal of Mammalogy* 64: 166–167.
- Fritts, S. H., Bangs, E. E., Fontaine, J. A., Brewster, W. G. & Gore, J. F. (1995). Restoring wolves to the northern Rocky Mountains of the United States. In *Ecology and Conservation of Wolves in a Changing World*, eds L. N. Carbyn, S. H. Fritts & D. R. Seip, pp. 107–126. Edmonton: Canadian Circumpolar Institute.
- Fritts, S. H. & Mech, L. D. (1981). Dynamics, movements, and feeding ecology of a newly protected wolf population in northwestern Minnesota. *Wildlife Monographs* 80: 1–79.
- Fritzell, E. K., Hubert, G. F., Meyen, B. E. & Sanderson, G. C. (1985). Age-specific reproduction in Illinois and Missouri raccoons. *Journal of Wildlife Management* 49: 901–905.
- Fromont, E., Courchamp, F., Artois, M. & Pontier, D. (1997). Infection strategies of retroviruses and social grouping of domestic cats. *Canadian Journal of Zoology* 75: 1994–2002.
- Fuller, T. K. (1989). Population dynamics of wolves in north-central Minnesota. *Wildlife Monographs* 105: 1–41.
- Fuller, T. K. (1990). Dynamics of a declining population of white-tailed deer population in north-central Minnesota. *Wildlife Monographs* 110: 1–39.
- Fuller, T. K. (1995). An international review of large carnivore conservation status. In *Integrating People and Wildlife for a Sustainable Future*, eds J. A. Bissonette & P. R. Krausmann, pp. 410–412. Bethesda, MA: The Wildlife Society.
- Fuller, T. K. (1997). Guidelines for gray wolf management in the northern Great Lakes region. *Educational Publication No. IWC97-271*, 2nd edn, p. 20. Ely, MN: International Wolf Center.
- Fuller, T. K., Berg, W. E., Radde, G. L., Lenarz, M. S. & Joselyn, G. B. (1992a). A history and current estimate of wolf distribution and numbers in Minnesota. *Wildlife Society Bulletin* 20: 42–55.
- Fuller, T. K. & Kat, P. W. (1993). Hunting success of African wild dogs in southwestern Kenya. *Journal of Mammalogy* 224: 464–467.
- Fuller, T. K. & Keith, L. B. (1981). Non-overlapping ranges of coyotes and wolves in Northeastern Alberta. *Journal of Mammalogy* 62: 403–405.
- Fuller, T. K., Mills, M. G. L., Borner, M., Laurenson, K. & Kat, P. W. (1992b). Long

- distance dispersal by African wild dogs in East and South Africa. *Journal of African Zoology* **106**: 535–537.
- Fuller, T. K. & Murray, D. L. (1998). Biological and logistical explanations of variation in wolf population density. *Animal Conservation* **1**: 153–157.
- Fuller, T. K. & Sampson, B. A. (1988). Evaluation of a simulated howling survey for wolves. *Journal of Wildlife Management* **52**: 60–63.
- Funk, S. M. (1994). Zur Dichteabhängigkeit der räumlichen und sozialen Organisation und der Reproduktion beim Rotfuchs (*Vulpes vulpes* L.): eine Studie bei zeitlich und räumlich durch Jagd und Tollwut variierenden Populationsdichten in Südwest-Deutschland und Ost-Frankreich. PhD Thesis, Universität des Saarlandes, Saarbrücken.
- Funk, S. M. (1995). *Epidemiology of an outbreak of sarcoptic mange and consequences for spatial and social organisation in an urban fox (Vulpes vulpes) population*. MSc Thesis, University of Bristol.
- Funk, S. M. & W.-D. Gürtler (1991). Über den Zusammenhang zwischen Reproduktionserfolg und Populationsdichte beim Rotfuchs, *Vulpes vulpes* L. *Schriften des Arbeitskreises Wildbiologie an der Justus-Liebig-Universität Gießen e.V.* **20**: 39–48.
- Gagneux, P., Boesch, C. & Woodruff, D.S. (1997). Microsatellite scoring errors associated with noninvasive genotyping based on nuclear DNA amplified from shed hair. *Molecular Ecology* **6**: 861–868.
- Gaines, M. S., Stenseth, N. C., Johnson, M. L., Ims, R. A. & Bondrup-Nielsen, S. (1991). A response to solving the enigma of population cycles with a multifactorial perspective. *Journal of Mammalogy* **72**: 627–631.
- Gales, N. J. & Fletcher, D. J. (1996). Abundance, distribution and status of the New Zealand sea lion *Phocartos hookeri*. New Zealand sea lion population management plan technical meeting. Wellington, NZ 8/9 October 1996.
- Gales, N. & Mattlin, R. (1997). Summer diving behaviour of lactating New Zealand sea lions (*Phocartos hookeri*). *Canadian Journal of Zoology* **75**: 1695–1706.
- Galhano, A. (1996). 'Down to Earth' **5** (11): 32–34.
- Gaona P., Ferreras, P. & Delibes, M. (1998). Dynamics and viability of a metapopulation of the endangered Iberian lynx (*Lynx pardinus*). *Ecological Monographs* **68**: 349–370.
- García-Moreno, J., Matocq, M. D., Roy, M. S., Geffen, E. & Wayne, R. K. (1996). Relationships and genetic purity of the endangered Mexican wolf based on analysis of microsatellite loci. *Conservation Biology* **10**: 376–389.
- Gardner, R. H., Milne, B. T., Turner, M. G. & O'Neill, R.V. (1987). Neutral models for the analysis of broad-scale landscape pattern. *Landscape Ecology* **1**: 19–28.
- Garland, T. J., Harvey, P. H. & Ives, A. R. (1992). Procedures for the analysis of comparative data using phylogenetically independent contrasts. *Systematic Biology* **41**: 18–32.
- Garrott, R. A., Eberhardt, L. E. & Hanson, W. C. (1983). Arctic fox identification and characteristics in northern Alaska. *Canadian Journal of Zoology* **61**: 423–426.
- Garshelis, D. L. (1987). Sea otter. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 634–655. North Bay: Ontario Trappers Association.
- Garshelis, D. L. (1994). Density-dependent population regulation of black bears. In *Density Dependent Population Regulation in Black, Brown, and Polar Bears*, ed.

- M. Taylor, pp. 3–13. International Conference on Bear Research and Management Monographs Series No. 3.
- Garza, J. C. (1998). *Population Genetics of the Northern Elephant Seal*. PhD dissertation, University of California, Berkeley.
- Gasaway, W. C., Boertje, R. D., Grangaard, D. V., Kelleyhouse, D. G., Stephenson, R. O. & Larsen, D. G. (1992). The role of predation in limiting moose at low densities in Alaska and Yukon and implications for conservation. *Wildlife Monographs* 120: 1–59.
- Gasaway, W. C., Mossestad, K. T. & Stander, P. E. (1991). Food acquisition by spotted hyaenas in Etosha National Park, Namibia: predation versus scavenging. *African Journal of Ecology* 29: 64–75.
- Gasaway, W. C., Stephenson, R. O., Davis, J. L., Shepherd, P. E. K. & Burris, O. E. (1983). Interrelationships of wolves, prey, and man in interior Alaska. *Wildlife Monographs* 84: 1–50.
- Gascoyne S. C., King, A. A., Laurenson, M. K., Borner, M., Schildger, B. & Barrat, J. (1993a). Aspects of rabies infection and control in the conservation of the African wild dog (*Lycaon pictus*) in the Serengeti region, Tanzania. *Onderstepoort Journal of Veterinary Research* 60: 415–420.
- Gascoyne, S. C., Laurenson, M. K., Lelo, S. & Borner, M. (1993b). Rabies in African wild dogs *Lycaon pictus* in the Serengeti region, Tanzania. *Journal of Wildlife Diseases* 29: 396–402.
- Gaskell R. & Willoughby, K. (1999). Herpes viruses of carnivores. *Veterinary Microbiology* 69: 73–88.
- Gaston, K. J. (1996). Species richness: measure and measurement. In *Biodiversity: a Biology of Numbers and Difference*, ed. K. J. Gaston, pp. 77–113. Oxford: Blackwell Science.
- Gaston, K. J. & Blackburn, T. M. (1995). Birds, body size and the threat of extinction. *Philosophical Transactions of the Royal Society Of London, Series B* 347: 205–212.
- Gates, C. E. (1979). Line transects and related issues. In *Sampling Biological Populations*, eds R. M. McCormick, P. Patil & D. S. Robson, pp. 71–154. *Statistics and Ecology Series*, vol. 5. Fairland, MD: Int. Coop. Publishing House.
- Geiger, A. C. (1985). Evaluation of seal harassment devices to protect salmon in gillnet fisheries. In *Proceedings of the Sixth Biennial Conference on the Biology of Marine Mammals November 22–26, Vancouver, British Columbia*.
- Geist, V. (1988). How markets in wildlife meat and parts, and the sale of hunting privileges jeopardize wildlife conservation. *Conservation Biology* 2: 1–12.
- Geist, V. (1994). Wildlife conservation as wealth. *Nature* 368: 491–492.
- Genovesi, P. (2000). Brown bear reintroduction in the Italian central Alps. *International Bear News* 9: 13.
- Georgii, S., Bachour, G., Failing, K., Eskens, U., Elmadfa, I. & Brunn, H. (1994). Polychlorinated biphenyl congeners in foxes in Germany from 1983 to 1991. *Archives of Environmental Contamination and Toxicology* 26: 1–6.
- Geraci, J. R., Staubin, D. J., Barker, I. K., Webster, R. G., Hinshaw, V. S., Bean, W. J., Ruhnke, H. L., Prescott, J. H., Early, G., Baker, A. S., Madoff, S. & Schooley, R. T. (1982). Mass mortality of harbor seals – pneumonia associated with influenza-a virus. *Science* 215: 1129–1131.
- Gerell, R. (1967). Dispersal and acclimatization of the mink (*Mustela vison*) in Sweden. *Viltrevy* 4: 1–38.

- Gerell, R. (1985). Habitat selection and nest predation in a common eider population in southern Sweden. *Ornis Scandinava* 16: 129–139.
- Gerloff, U., Schlötterer, C., Rassmann, K. *et al.* (1995). Amplification of hypervariable simple sequence repeats (microsatellites) from excremental DNA of wild living bonobos (*Pan paniscus*). *Molecular Ecology* 4: 515–518.
- Gerrodette, T. (1987). A power analysis for detecting trends. *Ecology* 68: 1364–1372.
- Gese, E. M. & Mech, L. D. (1991). Dispersal of wolves (*Canis lupus*) in northeastern Minnesota 1969–1989. *Canadian Journal of Zoology* 69: 2946–2955.
- Gese, E. M., Rongstad, O. J. & Mytton, W. R. (1989). Population dynamics of coyotes in southeastern Colorado. *Journal of Wildlife Management* 53: 174–181.
- Gese, E. M. & Ruff, R. L. (1998). Howling by coyotes (*Canis latrans*): variation among social classes, seasons, and pack sizes. *Canadian Journal of Zoology* 76: 1037–1043.
- Gese, E. M., Ruff, R. L. & Crabtree, R. L. (1996a). Social and nutritional factors influencing the dispersal of resident coyotes. *Animal Behaviour* 52: 1025–1043.
- Gese, E. M., Ruff, R. L. & Crabtree, R. L. (1996b). Foraging ecology of coyotes (*Canis latrans*): the influence of extrinsic factors and a dominance hierarchy. *Canadian Journal of Zoology* 74: 769–783.
- Gese, E. M., Schultz, R. D., Johnson, M. R., Williams, E. S., Crabtree, R. L. & Ruff, R. L. (1997). Serological survey for diseases in free-ranging coyotes (*Canis latrans*) in Yellowstone National Park, Wyoming. *Journal of Wildlife Diseases* 33: 47–56.
- Gese, E. M., Stotts, T. E. & Grothe, S. (1996c). Interactions between coyotes and red foxes in Yellowstone National Park, Wyoming. *Journal of Mammalogy* 77: 377–382.
- Gibeau, M. L. & Heuer, K. (1996). Effects of transportation corridors on large carnivores in the Bow River Valley, Alberta. In *Proceedings of the Transportation Related Wildlife Mortality Seminar*, FL-ER-58-96. eds G. L. Evink, P. Garrett, D. Zeigler & J. Berry, Tallahassee: Florida Department of Transportation.
- Gibson, D. & Isakseen, B. (1998). *Functionality of a Full-sized Marine Mammal Exclusion Device*. New Zealand Department of Conservation report, Science for Conservation No. 81. Wellington: NZ Department of Conservation.
- Gier, H. T. (1968). *Coyotes in Kansas*. Manhattan, KS: Kansas State University of Agriculture and Applied Science.
- Gilbert, D. A., Packer, C., Pusey, A. E., Stephens, J. C. & O'Brien, S. J. (1991). Analytical DNA fingerprinting in lions: parentage, genetic diversity, and kinship. *Journal of Heredity* 82: 378–386.
- Gilbert, J. R., Kordek, W. S., Collins, J. & Conley, R. (1978). Interpreting sex and age data from legal kills of bears. In *Proceedings of 4th East. Black Bear Workshop*, ed. R. D. Hugie, pp. 253–262. Maine: Greenville.
- Gilbert, T. & Wooding, J. (1996). An overview of black bear roadkills in Florida 1976–1995. In *Proceedings of the Transportation Related Wildlife Mortality Seminar*, FL-ER-58-96. eds G. L. Evink, P. Garrett, D. Zeigler & J. Berry, Tallahassee: Florida Department of Transportation.
- Gilinsky, N. L. (1998). Evolutionary turnover and volatility in higher taxa. In *Biodiversity Dynamics*, eds M. L. McKinney & J. A. Drake, pp. 162–184. New York: Columbia University Press.
- Gilpin, M. & Soulé, M. (1986). Minimum viable populations: processes of species

- extinction. In *Conservation Biology: The Science of Scarcity and Diversity*, ed. M. E. Soulé, pp. 13–34. Sunderland, MA: Sinauer.
- Gimenez-Dixon, M. & Stuart, S. (1993). Action plans for species conservation, an evaluation of their effectiveness. *Species* 20: 6–10.
- Gingerich, P. D. (1984). Pleistocene extinction in the context of origination-extinction equilibria in Cenozoic mammals. In *Quaternary Extinctions*, eds P. S. Martin & R. G. Klein, pp. 211–222. Tucson: University of Arizona Press.
- Ginsberg, J. R. (1994). Captive breeding, reintroduction and the conservation of canids. In *Creative conservation. Interactive Management of Wild and Captive Animals*, eds P. J. S. Olney, G. M. Mace & A. T. C. Feistner, pp. 365–383. London: Chapman & Hall.
- Ginsberg, J. R. (1999). Global conservation priorities. *Conservation Biology* 13: 5.
- Ginsberg, J. R., Alexander, K. A., Creel, S., Kat, P. W., McNutt, J. W. & Mills, G. L. (1995). Handling and survivorship of African wild dog (*Lycaon pictus*) in five ecosystems. *Conservation Biology* 9: 665–674.
- Ginsberg, J. R. & Macdonald, D. W. (1990). *Foxes, Wolves, Jackals and Dogs: An Action Plan for the Conservation of Canids*. Gland: IUCN.
- Ginsberg, J. R. & Woodroffe, R. (1997). Extinction risk faced by remaining wild dog populations. In *The African Wild Dog. Status and Conservation Action Plan*, eds R. Woodroffe, J. R. Ginsberg & D. Macdonald, pp. 75–87. Gland: IUCN/SSC Canid Specialist Group.
- Gipps, J. (1991). Preface. In *Beyond Captive Breeding: Reintroducing Endangered Mammals to the Wild*, ed. J. Gipps, pp. v–vii. Oxford: Oxford Scientific Publishing.
- Girman, D. J., Kat, P. W., Mills, M. G. L., Ginsberg, J. R., Borner, M., Wilson, V., Fanshaw, J. H., Fitzgibbon, C., Lau, L. M. & Wayne, R. K. (1993). Molecular genetic and morphological analyses of the African wild dog (*Lycaon pictus*). *Journal of Heredity* 84: 450–459.
- Girman, D., Miles, G., Geffen, E. & Wayne, R. (1997). A molecular genetic analysis of social structure, dispersal, and pack interactions in the African wild dog (*Lycaon pictus*). *Behavioral Ecology and Sociobiology* 40: 187–198.
- Girman, D. J. & Wayne, R. K. (1997). Genetic perspectives on wild dog conservation. In *The African Wild Dog, Status Survey and Conservation Action Plan*, eds R. Woodroffe, J. Ginsberg & D. Macdonald, pp. 7–10. Gland: IUCN.
- Gittleman, J. L. (Ed.) (1989). *Carnivore Behavior, Ecology, and Evolution*. Ithaca: Cornell University Press.
- Gittleman, J. L. (Ed.) (1996). *Carnivore Behavior, Ecology, and Evolution*, vol. 2. Ithaca: Cornell University.
- Gittleman, J. L. (1994). Are the pandas successful specialists or evolutionary failures? *BioScience* 44: 456–464.
- Gittleman, J. L., Anderson, C. G., Cates, S. E., Luh, H.-K. & Smith, J. D. (1998). Detecting ecological pattern in phylogenies. In *Biodiversity Dynamics – Turnover of Populations, Taxa and Communities*, eds M. L. McKinney & J. A. Drake, pp. 51–69. New York: Columbia University Press.
- Gittleman, J. L. & Harvey, P. H. (1982). Carnivore home-range size, metabolic needs and ecology. *Behavioural Ecology & Sociobiology* 10: 57–63.
- Gittleman, J. L. & Purvis, A. (1998). Body size and species richness in primates and carnivores. *Proceedings of the Royal Society of London, Series B* 265: 113–119.

- Giulianelli, S. & Laikre, L. (1994). Mitochondrial DNA variability in otters (*Lutra lutra*) from northern Europe. In *Directorate of Environment and Local Authorities. Seminar on the Conservation of the European Otter (Lutra lutra)*, pp. 205–208. The Netherlands: Leeuwarden. 7–11 June 1994. Strasbourg: Council of Europe.
- Gjertz, I. & Persen, E. (1987). Confrontations between humans and polar bears in Svalbard (Norway). *Polar Research* 5: 253–256.
- Glatston, A. R. (1994). *The Red Panda, Olingos, Coatis, Raccoons, and their Relatives. Status Survey and Conservation Action Plan for Procyonids and Ailurids*. Gland: IUCN. (In English and Spanish.)
- Glen, W. (1996). *Eyes of Fire*. El Paso, TX: Printing Corner Press.
- Glenn, L. P. & Miller, L. H. (1980). Seasonal movements of an Alaska peninsula brown bear population. *International Conference on Bear Research & Management* 4: 307–312.
- Goldman, D. P., Giri, R. & O'Brien, S. J. (1989). Molecular genetic distance estimates among the Ursidae as indicated by one- and two-dimensional protein electrophoresis. *Evolution* 43: 282–295.
- Golden, H. N. (1986). Survey of furbearer populations on the Yukon Flats National Wildlife Refuge. Fairbanks: Alaska Department of Fish and Game, Progress Report.
- Goldstein, D. B., Roemer, G. W., Smith, D. A., Reich, D. E., Bergman, A. & Wayne, R. K. (1999). The use of microsatellite variation to infer population structure and demographic history in a natural model system. *Genetics* 151: 797–801.
- Goltsman, M., Kruchenkova, E. P. & Macdonald, D. W. (1996). The Mednyi arctic foxes: treating a population imperilled by disease. *Oryx* 30: 251–258.
- Gompper, M. E. & Gittleman, J. L. (1991). Home range scaling: intraspecific and comparative trends. *Oecologia* 87: 343–348.
- Gompper, M. E., Gittleman, J. L. & Wayne, R. K. (1997). Genetic relatedness, coalitions and social behaviour of white-nosed coatis, *Nasua narica*. *Animal Behaviour* 53: 781–797.
- Gompper, M. E., Gittleman, J. L. & Wayne, R. K. (1998). Dispersal, phylopatry, and genetic relatedness in a social carnivore: comparing males and females. *Molecular Ecology* 7: 157–163.
- Gompper M. E. & Hoylman, A. M. (1993). Grooming with tratinnickia resin – possible pharmaceutical plant use by coatis in Panama. *Journal of Tropical Ecology* 9: 533–540.
- Gompper, M. E., Stacey, P. B. & Berger, J. (1997). Conservation implications of the natural loss of lineages in wild mammals and birds. *Conservation Biology* 11: 857–867.
- Gompper, M. E. & Wayne, R. K. (1996). Genetic relatedness among individuals within carnivore societies. In *Carnivore Behaviour, Ecology and Evolution*, vol. 2. ed. J. L. Gittleman, pp. 429–452. Ithaca: Cornell University Press.
- Gompper, M. E. & Williams, E. S. (1998). Parasites and conservation: insights from the black-footed ferret recovery program. *Conservation Biology* 12: 730–732.
- Goodhart C. B. (1988). Did virus transfer from harp seals to common seals? *Nature* 336: 21.
- Goodman, S. J. (1998). Patterns of extensive genetic differentiation and variation among European harbor seals (*Phoca vitulina vitulina*) revealed using microsatellite DNA polymorphisms. *Molecular Biology and Evolution* 15: 104–118.

- Goodnight, K. F. & Queller, D. C. (1999). Computer software for performing likelihood tests of pedigree relationship using genetic markers. *Molecular Ecology* 8: 1231–1234.
- Gosselin, L. (1999). Too cute to be killed? *Audubon* (May–June), No. 6.
- Goossens, B., Waits, L. P. & Taberlet, P. (1998). Plucked hair samples as a source of DNA: reliability of dinucleotide microsatellite genotyping. *Molecular Ecology* 7: 1237–1241.
- Gorman, M. L., Mills, M. G. L., Raath, J. P. & Speakman, J. R. (1998). High hunting costs make African wild dogs vulnerable to kleptoparasitism by hyaenas. *Nature* 391: 479–481.
- Gottelli, D. & Sillero-Zubiri, C. (1992). The Ethiopian wolf – an endangered endemic canid. *Oryx* 26: 205–214.
- Gottelli, D., Sillero-Zubiri, C., Applebaum, G. D., Roy, M. S., Gorman, D. J., Garcia-Moreno, J., Ostrander, E. A. & Wayne, R. K. (1994). Molecular genetics of the most endangered canid: the Ethiopian wolf *Canis simensis*. *Molecular Ecology* 3: 301–312.
- Goude, A. (Ed.) (1994). *The Human Impact on the Natural Environment*. Cambridge, MA: MIT Press.
- Government of Brazil (1998). Population statistics. World Wide Web: <http://www.ibge.gov.br/english/e-home.htm>.
- Grachev, M. A., Kumarev, V. P., Mamaev, L. V., Zorin, V. L., Baranova, L. V., Denikina, N. N., Belikov, S. I., Petrov, E. A., Kolesnik, V. S., Kolesnik, R. S., Dorofeev, V. M., Beim, A. M., Kudelin, V. N., Nagieva, F. G. & Sidorov, V. N. (1989). Distemper virus in Baikal seals. *Nature* 338: 209.
- Graham, L. H. & Brown, J. L. (1996). Cortisol metabolism in the domestic cat and implications for developing a non-invasive measure of adrenocortical activity in nondomestic felids. *Zoo Biology* 15: 71–82.
- Graham, R. W. & Grimm, E. C. (1990). Effects of global climate change on the patterns of terrestrial biological communities. *Trends in Ecology and Evolution* 5: 289–292.
- Grakov, N. N. (1994). Kidus – a hybrid of the sable and the pine marten. *Lutreola* 3: 1–4.
- Grant, P. R. & Grant, B. R. (1992). Hybridization of bird species. *Science* 256: 193–197.
- Green, K. A. (1991). Development of a database for analysis of information about lion sightings and lion-human interactions. In *Mountain Lion–Human Interactions*, ed. C. L. Braun, pp. 18–19. Symposium of the Colorado Division for Wildlife Denver 114pp.
- Greenman, J. V. & Hudson, P. J. (1999). Host exclusion and coexistence in apparent and direct competition: an application of bifurcation theory. *Theoretical Population Biology* 56: 48–64.
- Greenway, J. C. (1967). *Extinct and Vanishing Birds of the World*. New York: Dover Publications.
- Greenwood, P. J. (1980). Mating systems, philopatry, and dispersal in birds and mammals. *Animal Behaviour* 28: 1140–62.
- Greiner, E. C., Roelke, M. E., Atkinson, C. T., Dubey, J. P. & Wright, S. D. (1989). *Sarcocystis* sp. in muscles of free-ranging Florida panthers and cougars (*Felis concolor*). *Journal of Wildlife Diseases* 25: 623–628.

- Grenfell, B. T. & Dobson, A. P. (Eds) (1995). *Ecology of Infectious Diseases in Natural Populations*. Cambridge: Cambridge University Press.
- Grenfell, B. T. & Gulland, F. M. D. (1995). Introduction: ecological impact of parasitism on wildlife host populations. *Parasitology* **111**: 3–14.
- Griffith, B., Scott, J. M., Carpenter, J. W. & Reed, C. (1989). Translocation as a species conservation tool: status and strategy. *Science* **245**: 477–80.
- Groombridge, B. (1992). *Global Biodiversity: Status of the Earth's Living Resources*. London: Chapman & Hall.
- Gros, P. M. (1998). Status of the cheetah *Acinonyx jubatus* in Kenya: a field-interview assessment. *Biological Conservation* **85**: 137–149.
- Gros, P. M., Kelly, M. & Caro, T. M. (1996). Estimating carnivore densities for conservation purposes: indirect methods compared to baseline demographic data. *Oikos* **77**: 197–206.
- Groves, C. P. (1976). The origin of the mammalian fauna of Sulawesi (Celebes). *Zeitschrift für Säugetierkunde* **41**: 201–216.
- Guggisberg, C. A. W. (1975). *Wild Cats of the World*. New York: Taplinger Publishing Company.
- Gulland, F. M. D. (1995). The impact of infectious diseases on wild animal populations – a review. In *Ecology of Infectious Diseases in Natural Populations*, eds B. T. Grenfell & A. P. Dobson, pp. 20–51. Cambridge: Cambridge University Press.
- Gustafson, K. A. & Brocke, R. H. (1998). *Lynx translocation in New York: Ecology, Biopolitics and Human Impacts*. Buffalo: Wildlife Society Meetings.
- Gutleb, B. (1994). Verbreitung, Situation und Schadensproblematik beim Braunbären sowie der aktuelle Stand des Bärenprojektes in Kärnten. In *Braunbären in den Ländern Alpen-Adria*, ed. M. Adamic, pp. 1233–130. Ljubljana: Ministrstvo za kmetijstvo in gozdarstvo.
- Haas, L., Hofer, H., East, M., Wohlsein, P., Liess, B. & Barrett, T. (1996). Canine distemper virus infection in Serengeti spotted hyaenas. *Veterinary Microbiology* **49**: 147–152.
- Haber, G. C. (1996). Biological, conservation and ethical implications of exploiting and controlling wolves. *Conservation Biology* **10**: 1068–1081.
- Hackel, J. D. (1999). Community conservation and the future of African wildlife. *Conservation Biology* **13**: 726–734.
- Halfpenny, J. C., Saunders, M. R. & McGrath, K. A. (1991). Human–lion interactions. In *Mountain Lion–Human Interactions*. Boulder County, Colorado: Past, Present, and Future, ed. C. L. Braun, pp. 10–16. Denver: Symposium of the Colorado Division for Wildlife.
- Hall, E. R. (1984). *Geographic Variation Among Brown and Grizzly Bears (Ursus arctos) in North America*. Special publication 13. Lawrence: Museum of Natural History, University of Kansas.
- Hamilton, D. (1998). *Missouri River Otter Population Assessment. Final Report: 1996–97 and 1997–98 Trapping Seasons and Petition for Multi-Year Export Authority*. Missouri: Missouri Department of Conservation.
- Hamilton, M. J. & Kennedy, M. L. (1987). Genic variability in the raccoon, *Procyon lotor*. *American Midland Naturalist* **118**: 266–274.
- Hamilton, P. H. (1986a). Status of the cheetah in Kenya, with reference to sub-Saharan Africa. In *Cats of the World: Biology, Conservation and Management*, eds S. D. Miller & D. D. Everett, pp. 65–76. Washington DC: National Wildlife Federation.

- Hamilton, P. H. (1986b). Status of the leopard in Kenya, with reference to sub-Saharan Africa. In *Cats of the World: Biology, Conservation and Management*, eds S. D. Miller & D. D. Everett, pp. 447–457. Washington DC: National Wildlife Federation.
- Hamilton, W. J., Jr. (1933). The weasels of New York. *American Midland Naturalist* 14: 289–344.
- Hammond, K. A. & Diamond, J. (1997). Maximal sustained energy budgets in humans and animals. *Nature* 386: 457–462.
- Hanby, J. P. & Bygott, J. D. (1979). Population changes in lions and other predators. In *Serengeti II: Dynamics of an Ecosystem*, eds A. R. E. Sinclair & M. Norton-Griffiths, pp. 249–262. Chicago: University of Chicago Press.
- Hanby, J. P. & Bygott, J. D. (1987). Emigration of subadult lions. *Animal Behaviour* 35: 161–169.
- Hanby, J. P., Bygott, J. D. & Packer, C. (1995). Ecology, demography and behavior in lions in two contrasting habitats: Ngorongoro Crater and the Serengeti plains. In *Serengeti II: Dynamics, Conservation and Management of an Ecosystem*, eds A. R. E. Sinclair & P. Arcese, pp. 315–331. Chicago: University of Chicago Press.
- Hanley, N. & Milne, J. (1996). *Ethical Beliefs and Behaviour in Contingent Valuation*. Discussion Papers in Ecological Economics, Department of Economics, University of Stirling, 96/1.
- Hanni, C., Laudet, V., Stehelin, D. & Taberlet, P. (1994). Tracking the origins of the cave bear (*Ursus spelaeus*) by mitochondrial DNA sequencing. *Proceedings of the National Academy of Sciences USA* 91: 12336–12340.
- Hannon, B. (1996). Adding to the Nee-May model. *Journal of Animal Ecology* 65: 850.
- Hansen, B. (1999). Cat III controversy. *Colorado Daily*, May 10th 13.
- Hanski I. (1994). A practical model of metapopulation dynamics. *Journal of Animal Ecology* 63: 151–162.
- Hanski, I. A. (1997). Metapopulation dynamics: from concepts and observations to predictive models. In *Metapopulation Biology: Ecology, Genetics and Evolution*, eds I. A. Hanski & M. E. Gilpin, pp. 69–91. London: Academic Press.
- Harcourt, A. H. (1998). In *Behavioural Ecology and Conservation Biology*, ed. T. M. Caro. New York: Oxford University Press.
- Harcourt, A. H., Parks, S. A. & Woodroffe, R. (in press). Small reserves face a double jeopardy: small size and high surrounding human density. *Biodiversity and Conservation*.
- Harder T. C. & Osterhaus, A. D. M. E. (1997). Canine distemper virus – a morbillivirus in search of new hosts? *Trends in Microbiology* 5: 120–124.
- Harder T. C., Willhaus, T., Leibold, W. & Liess, B. (1992). Investigations on course and outcome of phocine distemper virus infection in harbor seals (*Phoca vitulina*) exposed to polychlorinated biphenyls: virological and serological investigations. *Journal of Veterinary Medicine Series B-Zentralblatt Fur Veterinarmedizin Reihe B-Infectious Diseases and Veterinary Public Health* 39: 19–31.
- Harfenist, A. & Kaiser, G. W. (1997). Effects of introduced predators on the nesting seabirds of the Queen Charlotte Islands. In *The Ecology, Status, and Conservation of Marine and Shoreline Birds of the Queen Charlotte Islands*, eds K. Vermeer & K. H. Morgan, pp. 132–137. Occasional Paper No. 93. Ottawa: Canadian Wildlife Service.

- Hargis, C. D. & Bissonette, J. A. (1997). Effects of forest fragmentation on populations of American marten in the inter-mountain west. In *Martes: Taxonomy, Ecology, Techniques and Management*, eds G. Proulx, H. Bryant & P. M. Woodard, pp. 437–451. Edmonton: Provincial Museum of Alberta.
- Hargis, C. D., Bissonette, J. A. & Turner, D. L. (1999). The influence of forest fragmentation and landscape pattern on American martens. *Journal of Applied Ecology* 36: 157–172.
- Hargis, C. D. & McCullough, D. R. (1984). Winter diet and habitat selection of marten in Yosemite National Park. *Journal of Wildlife Management* 48: 140–46.
- Harrington, F. H. & Mech, L. D. (1982). An analysis of howling response parameters useful for wolf pack censusing. *Journal of Wildlife Management* 46: 686–693.
- Harris, L. D. & Gallagher, P. B. (1989). New initiatives for wildlife conservation: the need for movement corridors. In *Defense of Wildlife: Preserving Communities and Corridors*, ed. G. Mackintosh, pp. 11–34. Washington, DC: Defenders of Wildlife.
- Harris, R. & Allendorf, F. (1989). Genetically effective population size of large mammals: an assessment of estimators. *Conservation Biology* 3: 181–191.
- Harris, S. (1979). Age-related fertility and productivity in red foxes, *Vulpes vulpes*, in suburban London. *Journal of Zoology, London* 187: 195–199.
- Harris, S. (1981). An estimation of the number of foxes (*Vulpes vulpes*) in the city of Bristol, and some possible factors affecting their distribution. *Journal of Applied Ecology* 18: 455–465.
- Harris, S., Cresswell, W., Reason, P. & Cresswell, P. (1992). An integrated approach to monitoring badger (*Meles meles*) population changes in Britain. In *Wildlife 2001*, eds D. R. McCullough & R. H. Barnett, pp. 945–953. New York: Elsevier Applied Science.
- Harris, S. & Saunders, G. (1993). The control of canid populations. *Symposium of the Zoological Society of London* 65: 441–464.
- Harris, S. & Smith, G. C. (1987). Demography of two urban fox (*Vulpes vulpes*) populations. *Journal of Applied Ecology* 24: 75–86.
- Harris, S. & Trehwella, W. J. (1988). An analysis of some of the factors affecting dispersal in an urban fox (*Vulpes vulpes*) populations. *Journal of Applied Ecology* 25: 409–422.
- Harrison, D. J. (1986). Coyotes in the Northeast: their distribution, origin, and ecology. *Appalachia* 182: 30–39.
- Harrison, D. J. & Chapin, T. G. (1997). An assessment of potential habitat for eastern timber wolves in the northeastern United States and connectivity with occupied habitat in southeastern Canada. *Wildlife Conservation Society Working Paper* 7: 11.
- Harrison, R. L. (1993). A survey of anthropogenic ecological factors potentially affecting gray foxes (*Urocyon cinereoargenteus*) in a rural residential area. *The Southwestern Naturalist* 38: 352–356.
- Harrison, R. L. (1997). A comparison of gray fox ecology between residential and undeveloped rural landscapes. *Journal of Wildlife Management* 61: 112–122.
- Harrison, S. (1994). Metapopulations and conservation. In *Large-scale Ecology and Conservation Biology*, eds P. J. Edwards, R. M. May & N. R. Webb, pp. 111–128. Oxford: Blackwell Scientific Press.

- Hart, J. A., Katembo, M. & Punga, K. (1996). Diet, prey selection and ecological relations of leopard and golden cat in the Ituri Forest, Zaire. *African Journal of Ecology* 34: 364–379.
- Harting, J. E. (1880). *A Short History of the Wolf in Britain*. Whitstable: Pryor Publications.
- Hartl, D. L. & Clark, A. G. (1997). *Principles of Population Genetics*. Sunderland, MA: Sinauer Associates.
- Hartwig, S. (1998). Observations of an introduction of an African wild dog (*Lycan pictus*) from captivity into a free-ranging pack. *Advances in Ethology (Supplement to Ethology)* 33: 81.
- Harvell, C. D., Kim, K., Burkholder, J. M., Colwell, R. R., Epstein, P. R., Grimes, D. J., Hofmann, E. E., Lipp, E. K., Osterhaus, A. D. M. E., Overstreet, R. M., Porter, J. W., Smith, G. W. & Vasta, G. R. (1999). Review: marine ecology – emerging marine diseases – climate links and anthropogenic factors. *Science* 285: 1505–1510.
- Harvey, P. H., May, R. M. & Nee, S. (1994). Phylogenies without fossils. *Evolution* 48: 523–529.
- Harvey, P. H. & Pagel, M. D. (1991). *The Comparative Method in Evolutionary Biology*. Oxford: Oxford University Press.
- Harwood, J. (1998). Conservation biology – what killed the monk seals? *Nature* 393: 17–18.
- Hash, H. (1987). Wolverine. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 575–585. North Bay: Ontario Trappers Association.
- Hausfater, G. & Hrdy, S. B. (Eds) (1994). *Infanticide: Comparative and Evolutionary Perspectives*. New York: Aldine.
- Havens, K. J. & Sharp, E. J. (1998). Using thermal imagery in the aerial survey of animals. *Wildlife Society Bulletin* 26: 17–23.
- Hedges, S. & Tyson, M. (1996). *Is Predation by Ajag (Asiatic Wild Dog, Cuon alpinus) A Threat to the Banteng (Bos javanicus) Population in Alas Purwo?* Review of the evidence and discussion of management solutions. Report to the Directorate General of Forest Protection and Nature Conservation, Indonesia.
- Hedges, S. B., Bogart, J. P. & Maxson, L. R. (1992). Ancestry of unisexual salamanders. *Nature* 356: 708–710.
- Hedrick, P. W. (1995). Gene flow and genetic restoration: the Florida panther as a case study. *Conservation Genetics* 9: 996–1007.
- Hedrick, P. W. (1996). Genetics of metapopulations: aspects of a comprehensive perspective. In *Metapopulations and Wildlife Conservation*, ed. D. R. McCullough *et al.*, pp. 29–51. Washington, DC: Island Press.
- Hedrick, P. W., Miller, P. S., Geffen, E. & Wayne, R. (1997). Genetic evaluation of the three captive Mexican wolf lineages. *Zoo Biology* 16: 47–69.
- Heeney, J. L., Evermann, J. F., McKeirnan, A. J., Marker-Kraus, L., Roelke, M. E., Bush, M., Wildt, D. E., Meltzer, D. G., Colly, L., Lucas, J., Manton, V. J., Caro, T. & O'Brien, S. J. (1990). Prevalence and implications of feline coronavirus infections of captive and free-ranging cheetahs (*Acinonyx jubatus*). *Journal of Virology* 64: 1964–1972.
- Heide-Jørgensen, M. P. & Härkönen, R. (1992). Epizootiology of the seal disease in the eastern North Sea. *Journal of Applied Ecology* 29: 99–107.

- Hein, E.W. (1997). Improving translocation programs. *Conservation Biology* **11**: 1270–1271.
- Hein, E. W. & Andelt, W. F. (1995). Evaluation of indices of abundance for an unexploited badger population. *Southwestern Naturalist* **40**: 288–292.
- Heisey, D. M. & Fuller, T. K. (1985). Evaluation of survival and cause-specific mortality rates using telemetry data. *Journal of Wildlife Management* **49**: 668–674.
- Helle, E., Olsson, M. & Jensen, S. (1976). DDT and PCB levels and reproduction in ringed seal from Bothnian Bay. *Ambio* **5**: 188–189.
- Hellgren, E. C. & Maehr, D. S. (1992). Habitat fragmentation and black bears in the eastern United States. *Eastern Workshop Black Bear Management and Research* **11**: 154–166.
- Hellgren, E. C. & Vaughan, M. R. (1989). Demographic analysis of a black bear population in the Great Dismal Swamp. *Journal of Wildlife Management* **53**: 969–977.
- Hemker, T. P. (1982). *Population characteristics and movement patterns of cougars in southern Utah*. MS thesis, Utah State University, Logan.
- Hemker, T. P., Lindzey, F. G. & Ackerman, B. B. (1984). Population characteristics and movement patterns of cougars in southern Utah. *Journal of Wildlife Management* **48**: 1275–1284.
- Hemley, G. & Mills, J. A. (1999). The beginning of the end of tigers in trade? In *Riding the Tiger: Tiger Conservation in Human-dominated Landscape*, eds J. Seidensticker, S. Christie & P. Jackson, pp. 215–252. Cambridge: Cambridge University Press.
- Hemmer, H., Grubb, P. & Groves, C. P. (1976). Notes on the sand cat, *Felis margarita* Loche, 1858. *Zeitschrift fuer Säugetierkunde* **41**: 286–303.
- Henderson, R. W. (1992). Consequences of predator introductions and habitat destruction on amphibians and reptiles in the post-Columbus West Indies. *Caribbean Journal of Science* **28**: 1–10.
- Hengeveld, R. & van den Bosch, F. (1996). Predicting the rate of spread of introduced animals and plants. *Wildlife Biology* **2**: 151–158.
- Henry, G.V. & Lucash, C.F. (1998). Red wolf status report. <http://members.xoom.com/mthor/dogs/rwolfstatus.htm> (21 Oct 1998).
- Heptner, V. G. & Sludskii, A. A. (1992). *Mammals of the Soviet Union*, vol. II, part 2, *Carnivora (Hyaenas and Cats)*, ed. R. S. Hoffmann. (English translation). Washington, DC: Smithsonian Institution Libraries and The National Science Foundation.
- Herbold, B. & Moyle, P. B. (1986). Introduced species and vacant niches. *The American Naturalist* **128**: 751–760.
- Hernandez M., Robinson, I., Aguilar, A., Gonzalez, L. M., LopezJurado, L. F., Reyero, M. I., Cacho, E., Franco, J., LopezRodas, V. & Costas, E. (1998). Did algal toxins cause monk seal mortality? *Nature* **393**: 28–29.
- Herrero, S. (Ed.) (1972). *Bears – Their Biology and Management*. Morges: IUCN.
- Herrero, S. (1985). *Bear Attacks: Their Causes and Avoidance*. New York: Nick Lyons Books.
- Hersteinsson, P. (1992). Demography of the arctic fox (*Alopex lagopus*) population in Iceland. In: *Wildlife 2001: Populations*, eds D. R. McCullough & R. H. Barrett. London: Elsevier Science.
- Hersteinsson, P., Angerbjörn, A., Frafjord, K. & Kaikusalo, A. (1989). The arctic fox

- in Fennoscandia and Iceland: management problems. *Biological Conservation* 49: 67–81.
- Hersteinsson, P. & Macdonald, D. W. (1992). Interspecific competition and the geographical distribution of red and arctic foxes *Vulpes vulpes* and *Alopex lagopus*. *Oikos* 64: 505–515.
- Hess G. (1996). Disease in metapopulation models: implications for conservation. *Ecology* 77: 1617–1632.
- Hettinger, N. (1996). Enhancing natural value? *Human Ecology Review* 3: 8–11.
- Hettinger, N. (1998). The problem of finding a positive role for humans in the natural world: comments on Eric Katz's *Nature as Subject*. Meetings of the International Society for Environmental Ethics. Chicago.
- Hewitt, C. G. (1921). *The Conservation of the Wild Life of Canada*. New York: Charles Scribner's Sons.
- Hewitt, G. M. (1988). Hybrid zones – natural laboratories for evolutionary studies. *Trends in Ecology and Evolution* 3: 158–166.
- Hewson, R. & Kolb, H. H. (1973). Changes in the numbers and distribution of foxes (*Vulpes vulpes*) killed in Scotland from 1948–1970. *Journal of Zoology (London)* 171: 345–365.
- Hewson, R. (1984). Scavenging and predation upon sheep and lambs in west Scotland (UK). *Journal of Applied Ecology* 21: 843–868.
- Hillman, C. N. & Linder, R. L. (1973). The black-footed ferret. In *Proceedings of the Black-footed Ferret and Prairie Dog Workshop*, eds R. L. Linder & C. N. Hillman, pp. 10–23. South Dakota State University, Brookings.
- Hilton, H. (1978). Systematics and ecology of the eastern coyote. In *Coyotes: Biology, Behavior and Management*, ed. M. Bekoff, pp. 209–228. New York: Academic Press.
- Hoelzel, A. R. (Ed.) (1998). *Molecular Genetic Analysis of Populations: A Practical Approach*, 2nd edn. New York: Oxford University Press.
- Hoelzel, A. R., Halley, J., O'Brien, S. J., Campagna, C., Arnborn, T., le Boeuf, B., Ralls, K. & Dover, G. A. (1993). Elephant seal genetic variation and the use of simulation models to investigate historical population bottlenecks. *Journal of Heredity* 84: 443–449.
- Hofer, H., Campbell, K. L. I., East, M. L. & Huish, S. (1996). The impact of game meat hunting on target and non-target species in the Serengeti. In *The Exploitation of Mammal Populations*, eds V. Taylor & N. Dunstone, pp. 117–146. London: Chapman and Hall.
- Hofer, H. & East, M. (1995). Population dynamics, population size and the commuting system of Serengeti spotted hyenas. In *Serengeti II: Dynamics, Management and Conservation of an Ecosystem*, eds A. R. E. Sinclair & P. Arcese, pp. 332–363. Chicago: University of Chicago Press.
- Hofer, H., East, M. L. & Campbell, K. L. I. (1993). Snaring, commuting hyaenas and migratory herbivores: humans as predators in the Serengeti. *Symposia of the Zoological Society of London* 65: 347–366.
- Hofer, H., James, A. N., Gaston, K. J. & Balmford, A. (1999). Balancing the Earth's accounts. *Nature* 401: 323–324.
- Hofmeyr, G. J. G., Bester, M. N. & Jonker, F. C. (1997). Changes in the population sizes and distribution of fur seals at Marion Island. *Polar Biology* 17: 150–158.
- Hofmeyr, M., Bingham, J., Lane, E. P., Ide, A. & Nel, L. (2000). Rabies in African

- wild dogs (*Lycaon pictus*) in the Madikwe game reserve, South Africa. *Veterinary Record* **146**: 50–52.
- Holdgate, M.W. (1986). Summary and conclusions: characteristics and consequences of biological invasions. *Philosophical Transactions of the Royal Society. Series B* **314**: 733–742.
- Holekamp, K. E., Ogutu, J. O., Frank, L. G., Dublin, H. T. & Smale, L. (1993). Fission of a spotted hyena clan: consequences of prolonged female absenteeism and causes of female emigration. *Ethology* **93**: 285–299.
- Holekamp, K. E. & Smale, L. (1995). Rapid change in offspring sex ratio after clan fission in the spotted hyena. *American Naturalist* **145**: 261–278.
- Holt, R. D. & Pickering, J. (1985). Infectious-disease and species coexistence – a model of Lotka-Volterra form. *American Naturalist* **126**: 196–211.
- Holt, R. D. & Polis, G. A. (1997). A theoretical framework for intraguild predation. *American Naturalist* **149**: 745–764.
- Holt, W. V., Bennett, P. M., Volobouev, V. & Watson, P. F. (1996). Genetic resource banks in wildlife conservation. *Journal of Zoology (London)* **238**: 531–544.
- Hong, C.-S., Calambokidis, J., Bush, B., Steiger, G. H. & Shaw, S. (1996). Polychlorinated biphenyls and organochlorine pesticides in harbor seal pups from the inland waters of Washington state. *Environmental Science and Technology* **30**: 837–844.
- Hoogesteijn, R., Hoogesteijn, A. & Mondolfi, E. (1993). Jaguar predation and conservation: cattle mortality caused by felines on three ranches in the Venezuelan llanos. *Symposia of the Zoological Society of London* **65**: 391–407.
- Hook, J. C. & Robinson, W. L. (1982). Attitudes of Michigan citizens toward predators. In *Wolves of the World: Perspective on Behavior, Ecology, and Conservation*, eds H. Harrington & P. C. Paquet, pp. 382–394. New Jersey: Park Ridge.
- Hope, J. H. (1973). Mammals of the Bass Straights Islands. *Proceedings of the Royal Society, Victoria* **85**: 163–196.
- Hornocker, M. G. (1970). An analysis of mountain lion predation upon mule deer and elk in the Idaho Primitive Area. *Wildlife Monographs* **21**: 1–39.
- Hornocker, M. G. & Hash, H. S. (1981). Ecology of the wolverine in northwestern Montana. *Canadian Journal of Zoology* **59**: 1286–1301.
- Höss, M., Kohn, M., Pääbo, S., Knauer, F. & Schröder, W. (1992). Excrement analysis by PCR. *Nature* **359**: 199.
- Houji, L. & Heli, S. (1986). The status and population fluctuation of the leopard cat in China. In *Cats of the World*, eds S. D. Miller & E. D. Everett, pp. 59–62. Washington DC: National Wildlife Federation.
- Howard, J. G. (1998). Assisted reproductive techniques in nondomestic carnivores. In *Zoo & Wild Animal Medicine, Current Therapy*, eds M. E. Fowler & R. E. Miller, pp. 449–457. Philadelphia: W. B. Saunders.
- Howard, J. G., Brown, J. L., Bush, M. & Wildt, D. E. (1990). Teratospermic and normospermic domestic cats: ejaculate traits, pituitary-gonadal hormones, and improvement of spermatozoal motility and morphology after swim-up processing. *Journal of Andrology* **11**: 204–215.
- Howard, J. G., Bush, M. & Wildt, D. E. (1991). Teratospermia in domestic cats compromises penetration of zona-free hamster ova and cat zonae pellucidae. *Journal of Andrology* **12**: 36–45.
- Howard, J. G., Donoghue, A. M., Johnston, L. A. & Wildt, D. E. (1993). Zona

- pellucida filtration of structurally abnormal spermatozoa and reduced fertilization in teratospermic cats. *Biology of Reproduction* 49: 131–139.
- Howard, J. G., Wolf, K. N., Marinari, P. E., Kreeger, J. S., Anderson, T. R., Vargas, A. & Wildt, D. E. (1999). Delayed onset of sperm production in 1-year old male black-footed ferrets. *Proceedings of the Society for the Study of Reproduction, Biology of Reproduction Supplement*, abstract 170.
- Howard, J. G., Wolf, K., Vargas, A., Marinari, P., Kreeger, J., Williamson, L. & Wildt, D. E. (1997). Enhanced reproductive efficiency and pregnancies after artificial insemination in black-footed ferrets. *Proceedings of the American Association of Zoo Veterinarians*, pp. 351–352.
- Howard, P. C., Viskanic, P., Davenport, T. R. B., Kigenyi, F. W., Baltzer, M., Dickin-son, C. J., Lwanga, J. S., Matthews, R. A. & Balmford, A. (1998). Complementarity and the use of indicator groups for reserve selection in Uganda. *Nature* 394: 472–475.
- Hoyert, D. L., Kochanek, K. D., Murphy, S. L. (1999). *Deaths: Final Data for 1997. National Vital Statistics Reports* 47 (19). Atlanta: Center for Disease Control and Prevention.
- Hubbard, A. L., McOrist, S., Jones, T. W., Boid, R., Scott, R. & Easterbee, N. (1992). Is survival of European wildcats (*Felis sylvestris*) in Britain threatened by interbreeding with domestic cats? *Biological Conservation* 61: 203–208.
- Huber, T. & Kaczensky, P. (1998). The situation of the lynx in Austria. *Hystrix* 10: 43–54.
- Hudson, W. E. (Ed.) (1993). *Building economic incentives into the Endangered Species Act*. Washington DC: Defenders of Wildlife.
- Hudson, W. H. (1895). *The Naturalist in La Plata*. London: Chapman and Hall.
- Hulme, D. & Infield, M. (2000) From criminals to citizens? Community conservation at Lake Mburo National Park, Uganda. In *African Wildlife and African Livelihoods: The Promise and Performance of Community Conservation*, eds D. Hulme & M. Murphree, Oxford: James Currey.
- Human, K. (1999). Return of the missing lynx. *Boulder Camera*, 10 January, 1A, 10A.
- Humphrey, S. R. & Zinn, T. L. (1982). Seasonal habitat use by river otters and Everglades mink in Florida. *Journal of Wildlife Management* 46: 375–381.
- Hunt, R. M., Jr. (1996). Biogeography of the order Carnivora. In *Carnivore Behavior, Ecology, and Evolution*, vol. 2, ed. J. L. Gittleman, pp. 485–541. Ithaca: Cornell University Press.
- Hunter, L. (1998). *The Behavioural Ecology of Reintroduced Lions and Cheetahs in the Phinda Reserve, Northern KwaZulu-Natal, South Africa*. Doctoral thesis, University of Pretoria.
- Huntley, B. (1995). Plant species' response to climate change: implications for the conservation of European birds. *Ibis* 137 (Suppl. 1). S127–138.
- India Census Commissioner (1901). *Census of India*. Government of India.
- India Census Commissioner (1941). *Census of India*. Government of India.
- India Network Foundation (1999). States of India. World Wide Web: <http://www.indianetwork.org/res/states.html>
- Infield, M. & Adams, W. M. (1999). Institutional sustainability and community conservation: a case study from Uganda. *Journal of International Development* 11: 305–315.

- Inoue, T. (1994). [Searching the Japanese sea lions.] *Seton* 3: 8–13. (In Japanese.)
- Iriarte, J. A. & Jaksic, F. M. (1986). The fur trade in Chile: an overview of seventy-five years of export data (1910–1984). *Biological Conservation* 38: 243–253.
- Istat (1999). Italy in figures. World Wide Web: <http://www.istat.it>.
- Istituto Nacional de Estadística (1999). España en Cifras 1998. World Wide Web: <http://www.ine.es>
- IUCN (1988). *Significant Trade in Wildlife: A Review of Selected Species in CITES Appendix II*, vol. 1. Mammals. Gland: IUCN.
- IUCN / UNEP / WWF (1991). *Caring for the Earth. A Strategy for Sustainable Development*. Gland: IUCN.
- IUCN Species Survival Commission (1994). *IUCN Red List Categories*. Gland: IUCN.
- IUCN/SSC Re-introduction Specialist Group (1998). *IUCN Guidelines for Re-introductions*. Gland: IUCN.
- Iverson, J. B. (1978). The impact of feral cats and dogs on populations of the West Indian rock iguana, *Cyclura carinata*. *Biological Conservation* 14: 63–73.
- Jablonski, D. (1995). Extinctions in the fossil record. In *Extinction Rates*, eds J. H. Lawton & R. M. May, pp. 25–44. Oxford: Oxford University Press.
- Jackson, J. (1997). Reefs since Columbus. *Coral Reefs* 16: 23–32.
- Jackson, J.A. (1977). Alleviating problems of competition, predation, parasitism, and disease in endangered birds. In *Endangered birds*, ed. S. A. Temple, pp. 75–84. Madison: University of Wisconsin Press and Croom Helm.
- Jackson, P. (1996). *The Tiger Re-introduction Project of the Heilongjiang Felid Breeding Centre and Harbin Siberian Tiger Park. An Assessment and Recommendations*. Gland: IUCN.
- Jackson, R. & Ahmad, A. (Eds) (1997). *Proceedings of the Eighth International Snow Leopard Symposium*. Islamabad: International Snow Leopard Trust and World Wide Fund for Nature.
- Jalkotzy, M. G., Ross, P. I. & Gunson, R. R. (1992). *Management Plan for Cougars in Alberta. Wildlife Management Planning Series No. 5*. Edmonton: Alberta Forestry, Lands, and Wildlife.
- James, A. N., Gaston, K. J. & Balmford, A. (1999). Balancing the Earth's accounts, *Nature*, 401, 323–324.
- Jamieson, D. (1998). Animal liberation is an environmental ethic. *Environmental Values* 7: 41–57.
- Jamieson, D. & Bekoff, M. (1996). Ethics and the study of animal cognition. In *Readings in Animal Cognition*, eds M. Bekoff & D. Jamieson, pp. 359–371. Cambridge MA: MIT Press.
- Janis, C. M., Baskin, J. A., Berta, A., Flynn, J. J., Gunnell, G. F., Hunt, R. M. Jr., Martin, L. D. & Munthe, K. (1998). Carnivorous mammals. In *Evolution of Tertiary Mammals of North America*, eds C. M. Janis, K. M. Scott & L. L. Jacobs, pp. 73–90. Cambridge: Cambridge University Press.
- Jedrzejewski, B. & Jedrzejewski, W. (1998). *Predation in Vertebrate Communities: The Białowieża Primeval Forest as a Case Study*. Berlin: Springer-Verlag.
- Jedrzejewski, W., Jedrzejewski, B. & Szymura, L. (1995). Weasel population response, home range, and predation on rodents in a deciduous forest in Poland. *Ecology* 76: 179–195.
- Jenks, S. M. & Wayne, R. K. (1992). Problems and policy for species threatened by

- hybridization: the red wolf as a case study. In *Wildlife 2001: Populations*, eds D. R. McCullough & R. H. Barrett, pp. 237–251. London: Elsevier Science Publishers.
- Jenkins, S. R., Perry, B. D. & Winkler, W. G. (1998). Ecology and epidemiology of raccoon rabies. *Reviews of Infectious Diseases* 10: 620–625.
- Jensen, W. F., Fuller, T. K. & Robinson, W. L. (1986). Wolf (*Canis lupus*) distribution on the Ontario–Michigan border near Sault Ste. Marie. *Canadian Field-Naturalist* 100: 363–366.
- Jhala, Y. V. & Giles, R. H. (1991). The status and conservation of the wolf in Gujarat and Rajasthan, India. *Conservation Biology* 5: 476–483.
- Jimenez, J. A., Hughes, K. A., Alaks, G., Graham, L. & Lacy, R. C. (1994). An experimental study of inbreeding depression in a natural habitat. *Science* 266: 271–273.
- Johnsingh, A. J. T. (1985). Distribution and status of dhole *Cuon alpinus* Pallas 1811 in South Asia. *Mammalia* 49: 203–208.
- Johnson, K. G. & Pelton, M. R. (1981). A survey of procedures to determine relative abundance of furbearers in the southeastern United States. *Proceedings of the Annual Conference of the Southeastern Association of Fish and Wildlife Agencies* 35: 261–272.
- Johnson, M. K., Aldred, D. R. & Martin, T. E. (1981). Feces, bile acids and furbearers. In *Proceedings of the Worldwide Furbearer Conference*, Frostburg, Maryland, eds J. A. Chapman & D. Pursley, pp. 1143–1150.
- Johnson, M. R., Boyd, D. K. & Pletscher, D. H. (1994). Serologic investigations of canine parvovirus and canine distemper in relation to wolf (*Canis lupus*) pup mortalities. *Journal of Wildlife Diseases* 30: 270–273.
- Johnson, N. F. & Holloran, D. F. (1985). Reproductive activity of Kansas bobcats. *Journal of Wildlife Management* 49: 42–46.
- Johnson, S. A. (1984). *Home range, Movements, and Habitat use of Fishers in Wisconsin*. MS thesis, University of Wisconsin, Stevens Points. 78 pp.
- Johnson, W. E., Culver, M., Iriarte, J. A., Eizirik, E., Seymour, K. & O'Brien, S. J. (1998). Tracking the elusive Andean Mountain Cat (*Oreailurus jacobita*) from mitochondrial DNA. *Journal of Heredity* 89: 227–232.
- Johnson, W. E. & Franklin, W. L. (1994a). Conservation implications of South American Grey fox (*Dusicyon griseus*) socioecology in the Patagonia of southern Chile. *Vida Silvestre Neotropical* 3: 16–23.
- Johnson, W. E. & Franklin, W. L. (1994b). Spatial resource partitioning by sympatric grey fox (*Dusicyon griseus*) and culpeo fox (*Dusicyon culpaeus*) in southern Chile. *Canadian Journal of Zoology* 72: 1788–1793.
- Johnson, W. E., Fuller, T. K. & Franklin, W. L. (1996). Sympatry in canids: a review and assessment. In *Carnivore Behavior, Ecology, and Evolution*, ed. J. L. Gittleman, pp. 189–218. Ithaca: Cornell University Press.
- Johnson, W. E. & O'Brien, S. J. (1997). Phylogenetic reconstruction of the Felidae using 16S rRNA and NADH-5 mitochondrial genes. *Journal of Molecular Evolution* 44: S98–S116.
- Johnson, W. E., Pecon Slaterry, J., Eizirik, E., Kim, J., Menotti Raymond, M., Bonacic, C., Cambre, R., Crawshaw, P., Nunes, A., Seuanez, H., Moreira, M. A., Seymour, K. L., Simon, F., Swanson, W. & O'Brien, S. J. (1999a). Disparate phylogeographic patterns of mitochondrial DNA variation in four closely related South American small cat species. *Molecular Ecology* 8: S79–S94.

- Johnson, W. E., Shinyashiku, F., Menoti, M., Raymond, M., Driscoll, C., Leh, C., Sunquist, M., Johnson, L., Bush, M., Wildt, D., Yuhki, N. & O'Brien, S. J. (1999b). Molecular genetic characterization of two insular Asian cat species, Bornean bay cat and Iriomote cat. In *Evolutionary Theory and Processes: Modern Perspectives*, ed. S. P. Wasser, pp. 223–248. Kluwer Academic Publishers.
- Johnston, J. J., Windberg, L. A., Furcolow, C. A., Engeman, R. M. & Roetto, M. (1998). Chlorinated benzenes as physiological markers for coyotes. *Journal of Wildlife Management* 62: 410–421.
- Johnstone, G. W. (1985). Threats to birds on subantarctic islands. In *Conservation of Island Birds: Case Studies for the Management of Threatened Island Species*, ed. P. Moors, pp. 101–121. Technical Publication 3. Cambridge: International Council for Bird Preservation.
- Jolly, G. M. (1982). Mark-recapture models with parameters constant in time. *Biometrics* 38: 301–321.
- Jones, E. (1977). Ecology of the feral cat *Felis catus* (L.), (Carnivora, Felidae) on Macquarie Island. *Australian Wildlife Research* 4: 249–262.
- Jones, E. (1990). Physical characteristics and taxonomic status of wild canids, *Canis familiaris*, from the eastern highlands of Victoria. *Australian Wildlife Research* 17: 69–81.
- Jordan, P. A., Shelton, P. C. & Allen, D. L. (1967). Numbers, turnover, and social structure of the Isle Royale wolf population. *American Zoologist* 7: 233–252.
- Jorgensen, J. P. & Redford, K. H. (1993). Humans and big cats as predators in the Neotropics. *Symposium Zoological Society of London* 65: 367–390.
- Joshi, M. N. V. & Gadgil, M. (1991). On the role of refugia in promoting prudent use of biological resources. *Theoretical Population Biology* 40: 211–229.
- Joslin, P. (1982). Status of the Caspian tiger in Iran. In *Cats of the World: Biology, Conservation, and Management*, eds S. D. Miller & D. D. Everett, p. 63. Washington, DC: National Wildlife Federation.
- Junge, R. E., Miller, R. E., Boever, W. J., Scherba, G. & Sunberg, J. (1991). Persistent cutaneous ulcers associated with feline herpesvirus type I infection in a cheetah. *Journal of American Veterinary Medical Association* 198: 1057–1058.
- Kaczensky, P. (1998). Status and distribution of the lynx in the German Alps. *Hystrix* 10: 39–42.
- Kaikusalo, A. & Angerbjörn, A. (1995). The arctic fox population in Finnish Lapland during 30 years, 1964–1993. *Annales Zooloogici Fennici* 32: 69–77.
- Kajimura, H. (1984). *Opportunistic Feeding of the Northern Fur Seal, Callorhinus ursinus, in the Eastern North Pacific Ocean and Eastern Bering Sea*. U.S. Dept. of Commerce, NOAA Technical Report NMFS SSRF-779.
- Kangwana, K. & Ole Mako, R. (2000). The impact of community conservation initiatives around Tarangire National Park, Tanzania (1992–1997). In *African Wildlife and African Livelihoods: The Promise and Performance of Community Conservation*, eds D. Hulme & M. Murphree, pp. Oxford: James Currey.
- Kappe, A. L., Bijlsma, R., Osterhaus, A., Van-Delden, W. & Van De Zande, L. (1997). Structure and amount of genetic variation at minisatellite loci within the subspecies complex of *Phoca vitulina* (the harbour seal). *Heredity* 78: 457–463.
- Karanth, K. U. (1987). Status of wildlife and habitat conservation in Karnataka. *Journal of the Bombay Natural History Society Supplement* 83: 166–179.
- Karanth, K. U. (1991). Ecology and management of the tiger in tropical Asia. In

- Wildlife Conservation: Present Trends and Perspectives for the 21st Century*, eds N. Maruyama, B. Bobek, Y. Ono, W. Reglin, L. Bartos & R. Ratcliffe, pp. 156–159. Tokyo: Japan Wildlife Research Centre.
- Karanth, K. U. & Stith, B. M. (1999). Prey depletion as a critical determinant of tiger population viability. In *Riding the Tiger: Tiger Conservation in Human-Dominated Landscapes*, eds J. Seidensticker, S. Christie & P. Jackson, pp. 100–113. Cambridge: Cambridge University Press.
- Karanth, K. U. & Sunquist, M. E. (1992). Population structure, density and biomass of large herbivores in the tropical forests of Nagarahole, India. *Journal of Tropical Ecology* 8: 21–35.
- Karanth, K. U. & Sunquist, M. E. (1995). Prey selection by tiger, leopard and dhole in tropical forests. *Journal of Animal Ecology* 64: 439–450.
- Karanth, K. U., Sunquist, M. & Chinnappa, K. M. (1999). Long-term monitoring of tigers: lessons from Nagarahole. In *Riding the Tiger: Tiger Conservation in Human-Dominated Landscape*, eds J. Seidensticker, S. Christie & P. Jackson, pp. 114–122. Cambridge: Cambridge University Press.
- Kareiva, P. (1996). Developing a predictive ecology for non-indigenous species and ecological invasions. *Ecology* 77: 651–1652.
- Kat, P.W., Alexander, K. A., Smith, J. S. & Munson, L. (1995). Rabies and African wild dogs in Kenya. *Proceedings of the Royal Society of London, Series B* 262: 229–233.
- Katnik, D. D. (1992). *Spatial Use, Territoriality, and Summer–Autumn Selection of Habitat in an Intensively Harvested Population of Martens on Commercial Forestland in Maine*. Unpublished M.S. thesis, University of Maine, Orono.
- Katz, E. (1996). *Nature as Subject: Human Obligation and Natural Community*. Lanham, MD: Rowman and Littlefield.
- Kaufman, J. H. (1987). Ringtail and coati. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 501–508. North Bay: Ontario Trappers Association.
- Kaufman, J. H., Lanning, D. V. & Poole, S. E. (1976). Current status and distribution of the coati in the United States. *Journal of Mammalogy* 57: 621–637.
- Kauhala, K. (1995). Changes in distribution of the European badger *Meles meles* in Finland during the rapid colonization of the raccoon dog. *Annales Zoologici Fennici* 32: 183–191.
- Kauhala, K. (1996). Introduced carnivores in Europe with special reference to central and northern Europe. *Wildlife Biology* 2: 197–204.
- Kauhala, K., Kaunisto, M. & Helle, E. (1993). Diet of the raccoon dog, *Nyctereutes procyonoides*, in Finland. *Zeitschrift für Säugetierkunde* 58: 129–136.
- Kauhala, K., Laukkanen, P. & von Rége, I. (1998). Summer food composition and food niche overlap of the raccoon dog, red fox and badger in Finland. *Ecography* 21: 457–463.
- Keet D. F., Kriek, N. P. J., Penrith, M. L., Michel, A. & Huchzermeyer, H. (1996). Tuberculosis in buffaloes (*Syncerus caffer*) in the Kruger National Park: Spread of the disease to other species. *Onderstepoort Journal of Veterinary Research* 63: 239–244.
- Keith, L. B. (1983). Population dynamics of wolves. In *Wolves in Canada and Alaska*, ed. L. N. Carbyn, pp. 66–77. *Canadian Wildlife Services Report Series* 45.
- Keitt, T. H., Urban, D. L. & Milne, B. T. (1997). Detecting critical scales in frag-

- mented landscapes. *Conservation Ecology* 1(1): 4.
- Keller, L. F., Arcese, P., Smith, J. N., Hochachka, W. M. & Stearns, S. C. (1994). Selection against inbred song sparrows during a natural population bottleneck. *Nature* 372: 356–357.
- Kellert, S. R. (1985). Public perceptions of predators, particularly the wolf and coyote. *Biological Conservation* 31: 167–189.
- Kellert, S. R. (1996). *The Value of Life: Biological Diversity and Human Society*. Washington, DC: Island Press.
- Kellert, S. R., Black, M., Rush, C. R. & Bath, A. J. (1996). Human culture and large carnivore conservation in North America. *Conservation Biology* 10: 977–990.
- Kellert, S. R. & Clark, T. W. (1991). The theory and application of a wildlife policy framework. In *Public Policy Issues in Wildlife Management*, ed. W. R. Mangun, pp. 17–36. New York: Greenwood Press.
- Kelly, B. & Phillips, M. (2000). Red wolf. In *Endangered Species: Conflict and Context*, eds R. P. Reading & B. J. Miller, Westport, CT: Greenwood Press.
- Kelly, B.T. (1999). Red wolves 12 years after re-introduction: managing hybridization, North Carolina, USA. *Re-introduction News* 18: 6–7.
- Kendall, K. C., Metzgar, L. H., Patterson, D. A. & Steele, B. M. (1992). Power of sign surveys to monitor population trends. *Ecological Applications* 2: 422–430.
- Kendall, M. & Stuart, A. (1977). *The Advanced Theory of Statistics*. New York: Macmillan.
- Kennedy, P. K., Kennedy, M. L., Clarkson, P. L. & Liepins, I. S. (1990). Genetic variability in wild populations of the gray wolf, *Canis lupus*. *Canadian Journal of Zoology* 69: 1183–1188.
- Kenney, J. S., Starfield, A. M. & McDougal, C. W. (1995). The long-term effects of tiger poaching on population viability. *Conservation Biology* 9: 1127–1133.
- Kenya Game Department (1958). *Colony and Protectorate of Kenya – Game Department Annual Report*. Nairobi: Game Department.
- Kershaw, M., Williams, P. H. & Mace, G. M. (1994). Conservation of Afrotropical antelopes: consequences and efficiency of using different site selection methods and diversity criteria. *Biological Conservation* 3: 354–72.
- Kessler, W. B. & Eastland, W. G. (1995). Strategies to sustain human and wildlife communities. In *Integrating People and Wildlife for a Sustainable Future*, eds J. A. Bissonette & P. R. Krausmann, pp. 1–3. Bethesda, MA: The Wildlife Society.
- Keymer A. E. & Read, A. F. (1991). Behavioural ecology: the impact of parasitism. In *Parasite–Host Associations*, eds C. A. Toft, A. Aeschlimann & L. Bolis, pp. 37–61. Oxford: Oxford University Press.
- Keyser, A. J., Hill, G. E. & Soehren, E.C. (1998). Effects of forest fragment size, nest density, and proximity to edge on the risk of predation to ground-nesting passerine birds. *Conservation Biology* 12: 986–94.
- Kholkute, S. D., Meherji, P. & Puri, C. P. (1992). Capacitation and the acrosome reaction in sperm from men with various semen profiles monitored by a chlorotetracycline fluorescence assay. *International Journal of Andrology* 15: 43–53.
- Kiesecker J. M., Skelly, D. K., Beard, K. H. & Preisser, E. (1999). Behavioral reduction of infection risk. *Proceedings of the National Academy of Science of the United States of America* 96: 9165–9168.
- Kim, G. B., Tanabe, S., Tatsukawa, R., Loughlin, T. R. & Shimazaki, K. (1996). Characteristics of butyltin accumulation and its biomagnification in Steller sea

- lions (*Eumetopias jubatus*). *Environmental Toxicology and Chemistry* 15: 2043–2048.
- King, C. (1984). *Immigrant Killers: Introduced Predators and the Conservation of Birds in New Zealand*. Auckland: Oxford University Press.
- King, C. M. (1981). The reproductive tactics of the stoat (*Mustela erminea*) in New Zealand forests. In *Worldwide Furbearer Conference Proceedings*, eds J. A. Chapman & D. Pursley, pp. 443–468. Frostburg, Maryland.
- King, C. M. (1983a). Factors regulating mustelid populations. *Acta Zoologica Fennica* 174: 217–220.
- King, C. M. (1983b). The relationships between beech (*Nothofagus* sp.) seedfall and populations of mice (*Mus musculus*), and the demographic and dietary responses of stoats (*Mustela erminea*) in three New Zealand forests. *Journal of Animal Ecology* 52: 141–166.
- King, C. M. (1989). *The Natural History of Weasels and Stoats*. Ithaca: Cornell University Press.
- King, C. M. (1991). Age-specific prevalence and a possible transmission route for skrabbingylosis in New Zealand stoats, *Mustela erminea*. *New Zealand Journal of Ecology* 15: 23–30.
- King, C. M. & Edgar, R. L. (1977). Techniques for trapping and tracking stoats (*Mustela erminea*): a review and a new system. *New Zealand Journal of Zoology* 4: 193–212.
- King, W. B. (1985). Island birds: will the future repeat the past? In *Conservation of Island Birds: Case Studies for the Management of Threatened Island Species*, ed. P. Moors, pp. 3–15. Technical Publication 3. Cambridge: International Council for Bird Preservation.
- Kingdon, J. (1979). *East African Mammals: An Atlas of Evolution in Africa*. London: Academic Press.
- Kingdon, J. (1997). *The Kingdon Field Guide to African Mammals*. London: Academic Press.
- Kinnear, J. E., Onus, M. L. & Bromilow, R. N. (1988). Fox control and rock-wallaby population dynamics. *Australian Wildlife Research* 15: 435–450.
- Kirkwood, J. (1992). Wild animal welfare. In *Animal Welfare and the Environment*, eds D. Ryder & P. Singer, pp. 139–154. London: Duckworth.
- Kitchen, A. M., Gese, E. M. & Schauster, E. R. (1999). Resource partitioning between coyotes and swift foxes: space, time, and diet. *Canadian Journal of Zoology* 77: 1645–1656.
- Kitchener, A. C. (1999). Tiger distribution, phenotypic variation and conservation issues. In *Riding the Tiger: Tiger Conservation in Human-Dominated Landscape*, eds J. Seidensticker, S. Christie & P. Jackson, pp. 19–39. Cambridge: Cambridge University Press.
- Kleiman, D. G. (1989). Reintroduction of captive mammals for conservation. *BioScience* 39: 152–61.
- Kleiman, D. G., Reading, R. P., Miller, B. J., Clark, T. W., Scott, J. M., Robinson, J., Wallace, R. L., Cabin, R. & Felleman, F. (in press). Improving the evaluation of conservation programs. *Conservation Biology*.
- Kleiman, D. G., Stanley Price, M. R. & Beck, B. B. (1994). Criteria for reintroductions. In *Creative Conservation. Interactive Management of Wild and Captive Animals*, eds P. J. S. Olney, G. M. Mace & A. T. C. Feistner, pp. 287–303. London:

- Chapman & Hall.
- Klein, D. R. (1968). The introduction, increase, and crash of reindeer on St. Matthew Island. *Journal of Wildlife Management* 32: 350–367.
- Klein, J. (1986). Natural history of the major histocompatibility complex. New York: Wiley.
- Kloor, K. (1999). Lynx and biologists try to recover after disastrous start. *Science* 285: 320–321.
- Knaus, R. M., Kinler, N. & Linscombe, R. G. (1983). Estimating river otter populations: the feasibility of ^{65}Zn to label feces. *Wildlife Society Bulletin* 11: 375–377.
- Knick, S. T. (1990). Ecology of bobcats relative to exploitation and a prey decline in southeastern Idaho. *Wildlife Monographs* 108: 1–42.
- Knight, R. R., Blanchard, B. M. & Eberhardt, L. L. (1988). Mortality patterns and population sinks for Yellowstone grizzly bears, 1973–1985. *Wildlife Society Bulletin* 16: 121–125.
- Knowlton, F. F. (1972). Preliminary interpretations of coyote population mechanics with some management implications. *Journal of Wildlife Management* 36: 369–382.
- Knowlton, F. F. (1984). *Feasibility of Assessing Coyote Abundance on Small Areas. Final Report*, Work Unit 909: 01. Denver: Denver Wildlife Research Center.
- Knowlton, F. F., Savarie, P. J., Wahlgren, C. E. & Hayes, D. H. (1988). Retention of physiological marks by coyotes ingesting baits containing iophenoxic acid, mirex, and rhodamine B. *Vertebrate Pest Control and Management Materials* 5: 141–147.
- Kock, R., Chalmers, W. S. K., Mwanzia, J., Chillingworth, C., Wambua, J., Coleman, P. G. & Baxendale, W. (1998). Canine distemper antibodies in lions of the Masai Mara. *Veterinary Record* 142: 662–665.
- Koehler, G. M. & Hornocker, M. G. (1991). Seasonal resource use among mountain lions, bobcats, and coyotes. *Journal of Mammalogy* 72: 391–396.
- Koehler, G. M. & Aubry, K. B. (1994). Lynx. In *The Scientific Basis for Conserving Forest Carnivores: American Marten, Fisher, Lynx, and Wolverine in the Western United States*, eds L. F. Ruggiero, K. B. Aubry, S. W. Buskirk, L. J. Lyon & W. J. Zielinski, pp. 74–98. General Technical Report RM-254. Fort Collins, CO: US Department of Agriculture, Forest Service, & Rocky Mountain Forest and Range Experimental Station.
- Koenig, W. D., Van Vuren, D. & Hooge, P. N. (1996). Detectability, philopatry and the distribution of dispersal distances in vertebrates. *Trends in Ecology and Evolution* 11: 514–517.
- Koepfli, K.-P. & Wayne, R. K. (1998). Phylogenetic relationships of otters (*Carnivora: Mustelidae*) based on mitochondrial cytochrome b sequences. *Journal of Zoology (London)* 246: 401–416.
- Koford, C. B. (1976). Latin American cats: economic values and future prospects. In *The World's Cats: Contributions to Status, Management and Conservation*, ed. R. L. Eaton, pp. 79–88. Seattle: Carnivore Research Institute, University of Washington.
- Kohn, B. E. (1982). Status and management of black bears in Wisconsin. *Wisconsin Department of Natural Resources Technical Bulletin* No. 129.
- Kohn, M., Knauer, F., Stoffella, A., Schröder, W. & Pääbo, S. (1995). Conservation genetics of the European brown bear – a study using excremental PCR of

- nuclear and mitochondrial sequences. *Molecular Ecology* 4: 95–103.
- Kohn, M. H. & Wayne, R. K. (1997). Facts from feces revisited. *Trends in Ecology and Evolution* 12: 223–227.
- Kohn, M. H., York, E. C., Kamradt, D. A., Haught, G., Sauvajot, R. M. & Wayne, R. K. (1999). Estimating population size by genotyping faeces. *Proceedings of the Royal Society of London, Series B* 266: 657–663.
- Kolenosky, G. B. (1987). Polar bear. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 475–485. North Bay: Ontario Trappers Association.
- Kolenosky, G. B. & Strathearn, S. M. (1987). Black bear. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 443–454. North Bay: Ontario Trappers Association.
- Korb, J. (2000). Methods to study elusive spotted hyenas in the Comoe National Park, Cote d'Ivoire. *Hyena Specialist Group Newsletter* No. 7. Gland: IUCN.
- Korpimäki, E., Norrdahl, K. & Rinta-Jaskari, T. (1991). Response of stoats and least weasels to fluctuating food abundances: is the low phase of the vole cycle due to mustelid predation? *Oecologia* 88: 552–561.
- Kovacs, K. M., Lydersen, L., Hammill, M. O., White, B. N., Wilson, P. J. & Malik, S. (1997). A harp seal x hooded seal hybrid. *Marine Mammal Science* 13: 460–468.
- Kranz, A. (2000). Otters, *Lutra lutra* increasing in Central Europe: from the threat of extinction to locally perceived over-population. *Mammalia*, 64: 357–368.
- Kranz, A. & Toman, A. (2000). Otters recovering in man-made habitats in central Europe. In *Mustelids in a Modern World: Management and Conservation Aspects of Small Carnivore–Human Interactions*, ed. H. I. Griffiths, pp. 163–183. Backhuys Publishing.
- Krebs, C. J. (1985). *Ecology: The Experimental Analysis of Distribution and Abundance*. New York: Harper & Row.
- Krebs J. R., Anderson, R. M., Clutton-Brock, T., Donnelly, C. A., Frost, S., Morrison, W. I., Woodroffe, R. & Young, D. (1998). Policy: biomedicine – badgers and bovine TB. Conflicts between conservation and health. *Science* 279: 817–818.
- Krebs, J. R., Anderson, R., Clutton-Brock, T., Morrison, I., Young, D., Donnelly, C., Frost, S. & Woodroffe, R. (1997). *Bovine Tuberculosis in Cattle and Badgers*. London: H.M.S.O.
- Kretzmann, M. B., Gilmartin, W. G., Mayer, A., Zegers, G. P., Fain, S. R., Taylor, B. F. & Costa, O. P. (1997). Low genetic variability in the Hawaiian Monk Seal. *Conservation Biology* 11: 482–490.
- Kruuk, H. (1972a). Surplus-killing by carnivores. *Journal of Zoology (London)* 166: 233–244.
- Kruuk, H. (1972b). *The Spotted Hyena*. Chicago: University of Chicago Press.
- Kruuk, H. (1976a). Carnivores and conservation. In *Proceedings of a Symposium on Endangered Wildlife on Southern Africa*, pp. 1–13. Pretoria: The Endangered Wildlife Trust and University of Pretoria.
- Kruuk, H. (1976b). Feeding and social behavior of the striped hyena (*Hyena vulgaris* Desmarest). *East African Wildlife Journal* 14: 91–111.
- Kruuk H. (1978). Spatial organisation and territorial behaviour of the European badger, *Meles meles*. *Journal of Zoology* 184: 1–19.
- Kruuk, H. (1980). *The Effect of Large Carnivores on Livestock and Animal Husbandry in*

- Marsabit District, Kenya. IPAL Technical Report E – 4. Integrated Project on Arid Lands. UNEP & MAB (Man and the Biosphere Programme).
- Kruuk, H. (1995). *Wild otters: Predation and Populations*. New York: Oxford University Press.
- Kruuk, H., Carss, D. N., Conroy, J. W. H., & Durbin, L. (1993). Otter (*Lutra lutra* L.) numbers and fish productivity in north-east Scotland. *Symposium of the Zoological Society of London* 65: 171–191.
- Kruuk, L., Clutton-Brock, T. H., Albon, S. D., Pemberton, J. M. & Guinness, F. E. (1999). Population density affects sex ratio variation in red deer. *Nature* 399: 459–461.
- Kruuk, H. & Conroy, J. W. H. (1996). Concentrations of some organochlorines in otters (*Lutra lutra* L.) in Scotland: implications for populations. *Environmental Pollution* 92: 165–171.
- Kruuk, H., Conroy, J. W. H., Glimmerveen, U. & Ouwerkerk, E. J. (1986). The use of spraints to survey populations of otters *Lutra lutra*. *Biological Conservation* 35: 187–194.
- Kruuk, H., Gorman, M. & Parrish, T. (1980). The use of ^{65}Zn for estimating populations of carnivores. *Oikos* 34: 206–208.
- Kruuk H. & Macdonald, D. W. (1985). Group territories of carnivores: empires and enclaves. In *Behavioural Ecology: Ecological Consequence of Adaptive Behaviour*, eds R. M. Sibly & R. H. Smith, pp. 521–536. Oxford: Blackwell Scientific Publications.
- Kruuk, H. & Parrish, T. (1982). Factors affecting the population density, group size and territory size of the European badger, *Meles meles*, in relation to earthworm population, Scotland. *Journal of Zoology (London)* 196: 31–39.
- Kruuk, H. & Parrish, T. (1987). Changes in the size of groups and ranges of the European badger (*Meles meles* L.) in an area in Scotland. *Journal of Animal Ecology* 56: 351–364.
- Kubo, T. & Iwasa, Y. (1995). Inferring the rates of branching and extinction from molecular phylogenies. *Evolution* 49: 694–704.
- Kucera, T. E., Soukkala, A. M. & Zielinski W. J. (1995). Photographic bait stations. In *American Marten, Fisher, Lynx, and Wolverine: Survey Methods for their Detection*, eds W. J. Zielinski & T. E. Kucera, pp. 25–65. USDA For. Serv. Gen. Tech. Rep. PSW-GTR-157.
- Kucklick, J. R., Harvey, H. R., Ostrom, P. H., Ostrom, N. E. & Baker, J. E. (1996). Organochlorine dynamics in the pelagic food web of Lake Baikal. *Environmental Toxicology and Chemistry* 15: 1388–1400.
- Kumar, A. & Wright, B. (1999). Combating tiger poaching and illegal wildlife trade in India. In *Riding the Tiger – Tiger Conservation in Human-Dominated Landscapes*, eds J. Seidensticker, S. Christie & P. Jackson, pp. 243–251. Cambridge: Cambridge University Press.
- Kurki, S., Nikula, A., Helle, P. & Lindén, H. (1998). Abundances of red fox and pine marten in relation to the composition of boreal forest landscapes. *Journal of Animal Ecology* 67: 874–886.
- Kurtén, B. & Anderson, E. (1980). *Pleistocene Mammals of North America*. New York: Columbia University Press.
- Kurtz, D. A. & Kim, K. C. (1976). Chlorinated hydrocarbon and PCB residues in tissues and lice of northern fur seals, 1972. *Pesticides Monitoring* 10: 79–83.

- Laake, J. L., Buckland, S. T., Anderson, D. R. & Burnham, K. P. (1993). Distance user's guide, v2.0. *Colorado Cooperative Fish and Wildlife Research Unit, Colorado State University, Fort Collins*.
- Lack, D. (1954). *The Natural Regulation of Animal Numbers*. London: Oxford University Press.
- Lack, D. (1971). *Ecological Isolation in Birds*. Oxford: Blackwell Scientific Publications.
- Lacy, M. K. (1983). *Home Range Size, Intraspecific Spacing, and Habitat Preference of Ringtails (Bassariscus astutus) in a Riparian Forest in California*. M.A. thesis, California State University, Sacramento.
- Lacy, R. C. (1987). Loss of genetic diversity from managed populations: interacting effects of drift, mutation, immigration, selection, and population subdivision. *Conservation Biology* 1: 143–158.
- Lacy, R. C. (1993a). Impacts of inbreeding in natural and captive populations of vertebrates: implications for conservation. *Perspectives in Biology and Medicine*. 36: 480–496.
- Lacy, R. C. (1993b). VORTEX: a computer simulation model for population viability analysis. *Wildlife Research* 20: 45–65.
- Lacy, R. C. (1997). Importance of genetic variation to the viability of mammalian populations. *Journal of Mammalogy* 18: 320–335.
- Lacy, R. C., Hughes, K. A. & Miller, P. S. (1995). *VORTEX: A Stochastic Simulation of the Extinction Process*. Version 5.1 users's manual. Chicago: Brookfield Zoo, Chicago Zoological Society.
- Lacy, R. C., Petric, A. M. & Warneke, M. (1993). Inbreeding and outbreeding depression in captive populations of wild animal species. In *The Natural History of Inbreeding and Outbreeding*, ed. N. W. Thronhill, pp. 352–374. Chicago: The University of Chicago Press.
- Lade, J. A., Murray, N. D., Marks, C. A. & Robinson, N. A. (1996). Microsatellite differentiation between Phillip Island and mainland Australian populations of red fox *Vulpes vulpes*. *Molecular Ecology* 5: 81–88.
- Laikre, L., Andier, R., Larsson, H. O. & Ryman, N. (1996). Inbreeding depression in Brown bear *Ursus arctos*. *Biology Conservation* 76: 69–72.
- Laikre, L. A. & Ryman, N. (1991). Inbreeding depression in a captive wolf (*Canis lupus*) population. *Conservation Biology* 5: 33–40.
- Laikre, L., Ryman, N. & Thompson, E.A. (1993). Hereditary blindness in a captive wolf (*Canis lupus*) population: frequency reduction of a deleterious allele in relation to gene conservation. *Conservation Biology* 7: 592–601.
- Lambrechts, A. V. W. (1995). Meeting wildlife and human needs by establishing collaborative nature reserves: the Transvaal system. In *Integrating People and Wildlife for a Sustainable Future*, eds J. A. Bissonette & P. R. Krausmann, pp. 37–43. Bethesda: The Wildlife Society.
- Lampio, T. (1982). [Occurrence of the Samson fox in Finland, 1960–1980]. *Suomen Riista* 29: 21–28. (In Finnish with English summary).
- Lancia, R. A., Nichols, J. D. & Pollock, K. H. (1994). Estimating the number of animals in wildlife populations. In *Research and Management Techniques for Wildlife and Habitats*, 5th edn, ed. T. A. Bookhout, pp. 215–253. Bethesda: The Wildlife Society.
- Land, D. & Taylor, S. K. (1998). Florida panther genetic restoration and manage-

- ment annual performance report 1997–1998. Naples: Florida Game and Fresh Water Fish Commission.
- Landa, A., Strand, O., Swenson, J. E. & Skogland, T. (1997). Wolverines and their prey in southern Norway. *Canadian Journal of Zoology* **75**: 1292–1299.
- Landa, A. & Tommeras, B. A. (1997). A test of aversive agents on wolverines. *Journal of Wildlife Management* **61**: 510–516.
- Lande, R. (1988). Genetics and demography in biological conservation. *Science* **241**: 1455–1460.
- Lande, R. (1994). Risk of population extinction from fixation of new deleterious mutations. *Evolution* **48**: 1460–1469.
- Lande, R. & Barrowclough, G. (1987). Effective population size, genetic variation, and their use in population management. In *Viable Populations for Conservation*, ed. M. Soulé, pp. 87–123. Cambridge: Cambridge University Press.
- Langley, P. J. W. & Yalden, D. W. (1977). The decline of the rare carnivores in Great Britain during the nineteenth century. *Mammal Review* **7**: 95–116.
- Lankester, K., van Apeldoorn, R., Meelis, E. & Verbom, J. (1991). Management perspectives for populations of the Eurasian badger (*Meles meles*) in a fragmented landscape. *Journal of Applied Ecology* **28**: 561–73.
- Lanning, D. V. (1976). Density and movements of the coati in Arizona. *Journal of Mammalogy* **57**: 609–611.
- Larsen, T. (1972). Air and ship census of polar bears in Svalbard (Spitsbergen). *Journal of Wildlife Management* **36**: 562–570.
- Lasswell, H. D. (1971). *A Pre-view of Policy Sciences*. New York: American Elsevier.
- Laundré, J. W. (1981). Temporal variation in coyote vocalization rates. *Journal of Wildlife Management* **45**: 767–769.
- Laurance, W. F. (1991). Ecological correlates of extinction proneness in Australian tropical rain forest mammals. *Conservation Biology* **5**: 80–89.
- Laurance, W. F. & Bierregaard, R. O., Jr. (Ed.) (1997). *Tropical Forest Remnants: Ecology, Management, and Conservation of Fragmented Communities*. Chicago: University of Chicago Press.
- Laurance, W. F., Ferreira, L. V., Rankin-de Merona, J. M., Laurance, S. G., Hutchings, R. W. & Lovejoy, T. E. (1998). Effects of forest fragmentation on recruitment patterns in Amazonian tree communities. *Conservation Biology* **12**: 460–464.
- Laurenson, M. K. (1994). High juvenile mortality in cheetahs (*Acinonyx jubatus*) and its consequences for maternal care. *Journal of Zoology* **234**: 387–408.
- Laurenson, M. K. (1995a). Implications of high offspring mortality for cheetah population dynamics. In *Serengeti II: Dynamics, Conservation and Management of an Ecosystem*, eds A. R. E. Sinclair & P. Arcese, pp. 385–399. Chicago: University of Chicago Press.
- Laurenson, M. K. (1995b). Cub growth and maternal care in cheetahs. *Behavioral Ecology* **6**: 405–409.
- Laurenson, M. K. & Caro, T. M. (1994). Monitoring the effects of non-trivial handling in free-living cheetahs. *Animal Behaviour* **47**: 547–557.
- Laurenson, K. M., Shiferaw, F. & Sillero-Zubiri, C. (1997). Disease, domestic dogs and the Ethiopian wolf: the current situation. In *The Ethiopian Wolf. Status and Conservation Action Plan*, eds C. Sillero-Zubiri & D. Macdonald, pp. 32–40. Gland: IUCN/SSC Canid Specialist Group.

- Laurenson, K. M., Sillero-Zubiri, C., Thompson, H., Shiferaw, F., Thirgood, S. & Malcolm, J. (1998). Disease as a threat to endangered species: ethiopian wolves, domestic dogs and canine pathogens. *Animal Conservation* **1**, 273–280.
- Laurenson K. M., Wielebnowski, N. & Caro, T. M. (1995). Extrinsic factors and juvenile mortality in cheetahs. *Conservation Biology* **9**: 1329–1331.
- Lavigne, D. M., Callaghan, C. J., & Smith, R. J. (1996). Sustainable utilization: the lessons of history. In *The Exploitation of Mammal Populations*, eds V. J. Taylor & N. Dunstone, pp. 250–265. London: Chapman and Hall.
- Lavigne, D. M. & Øritsland, N. A. (1974). Black polar bears. *Nature* **251**: 218–219.
- Lavrov, N. P. (1970). Increasing the productivity of hunting grounds in the USSR by introducing new species of carnivores. *Transactions IX International Congress Game Biologists (Moscow, USSR)*, pp. 199–200.
- Lawton, J. H. (1995). Population dynamic principles. In *Extinction Rates*, eds J. H. Lawton & R. M. May, pp. 147–163. Oxford: Oxford University Press.
- Lawton, J. H. (1997). The science and non-science of conservation biology. *Oikos* **79**: 3–5.
- Lawton, J. H. & Brown, K.C. (1986). The population and community ecology of invading insects. *Philosophical Transactions of the Royal Society, Series B* **314**: 606–617.
- Lawton, J. H. & Hassell, M. P. (1981). Asymmetrical competition in insects. *Nature* **289**: 793–795.
- Lawton, J. H. & May, R. M. (Eds) (1995). *Extinction Rates*. Oxford: Oxford University Press.
- Lawton, J. H. & Woodroffe, G. L. (1991). Habitat and the distribution of water voles: why are there gaps in a species' range? *Journal of Animal Ecology* **60**: 79–91.
- Leader-Williams, N. & Albon, S. D. (1988). Allocation of resources for conservation. *Nature* **336**: 533–535.
- Leader-Williams, N., Albon, S. D. & Berry, P. S. M. (1990). Illegal exploitation of black rhinoceros and elephant populations: patterns of decline, law enforcement and patrol effort in Luangwa Valley, Zambia. *Journal of Applied Ecology* **27**: 1055–1087.
- Leader-Williams, N., Kayera, J. A. & Overton, G. L. (1996). *Tourist Hunting in Tanzania*. Gland: IUCNNR.
- Lehman, N., Clarkson, P., Mech, L. D., Meier, T. J. & Wayne, R. K. (1992). A study of the genetic relationships within and among wolf packs using DNA fingerprinting and mitochondrial DNA. *Behavioral Ecology Sociobiology* **30**: 83–94.
- Lehman, N., Eisenhawer, A., Hansen, K., Mech, L. D., Peterson, R. O., Gogan P. J. P. & Wayne, R. K. (1991). Introgression of coyote mitochondrial DNA into sympatric North American gray wolf populations. *Evolution* **45**: 104–119.
- Lehman, N. & Wayne, R. K. (1991). Analysis of coyote mitochondrial DNA genotype frequencies: estimation of the effective number of alleles. *Genetics* **128**: 405–416.
- Lemke, C. W. & Thompson, D. R. (1960). Evaluation of a fox population index. *Journal of Wildlife Management* **24**: 406–412.
- Lento, G. M. (1995). *Molecular Systematic and Population Genetic Studies of Pinnipeds: Phylogenetics of our Fin-Footed Friends and their Surreptitious Species Status*. PhD Thesis. Victoria University of Wellington, Wellington, New Zealand.
- Lento, G. M., Haddon, M., Chambers, G. K. & Baker, C. S. (1997). Genetic variation,

- population structure, and species identity of southern hemisphere fur seals, *Arctocephalus* spp. *Journal of Heredity* **88**: 202–208.
- Lento, G. M., Hickson, R. E., Chambers, G. K. & Penny, D. (1995). Use of spectral analysis to test hypotheses on the origin of pinnipeds. *Molecular Biology and Evolution* **12**: 28–52.
- Lento, G. M., Mattlin, R. H., Chambers, G. K. & Baker, C. S. (1994). Geographic distribution of mitochondrial cytochrome b DNA haplotypes in New Zealand fur seals (*Arctocephalus forsteri*). *Canadian Journal of Zoology* **72**: 293–299.
- Leonard, J. A., Wayne, R. K. & Cooper, A. (2000). Population genetics of Ice Age brown bears. *Proceedings of the National Academy of Sciences USA* **97**: 1651–1654.
- Leonards, P. E. G., Zierikzee, Y., Brinkman, U. A. T., Cofino, W. P., van Straalen, N. M. & van Hattum, B. (1997). The selective dietary accumulation of planar polychlorinated biphenyls in the otter (*Lutra lutra*). *Environmental Toxicology and Chemistry* **16**: 1807–1815.
- Leopold, A. S., Cain, S. A., Cottam, C. M., Gabrielson, I. N. & Kimball, T. L. (1964). Predator and rodent control in the United States. *Transactions of the North American Wildlife and Natural Resources Conference* **29**: 27–49.
- Letcher, R. J., Norstrom, R. J. & Muir, D. C. G. (1998). Biotransformation versus bioaccumulation: sources of methyl sulfone PCB and 4,4'-DDE metabolites in the polar bear food chain. *Environmental Science and Technology* **32**: 1656–1661.
- Lever, C. (1978). The not so innocuous mink? *New Scientist* **78**: 812–814.
- Lever, C. (1985). *Naturalized Mammals of the World*. London: Longmans.
- Lever, C. (1994). *Naturalized Animals: the Ecology of Successfully Introduced Species*. London: T. & A.D. Poyser Ltd.
- Levins, R. (1970). Extinction. In *Some Mathematical Questions in Biology. Lectures on Mathematics in the Life Sciences*, vol. 2, ed. M. Gerstenhaber, pp. 77–107. Providence, Rhode Island: American Mathematical Society.
- Li, W. H., Gouy, M., Sharp, P. M., Huigin, O. C. & Yang, Y. W. (1990). Molecular phylogeny of Rodentia, Lagomorpha, Primates, Artiodactyla, and Carnivora and molecular clocks. *Proceedings of the National Academy of Sciences* **87**: 6703–6707.
- Lidgard, D. C. (1997). *The Effects of Human Disturbance on the Maternal Behaviour and Performance of Gray Seals (Halichoerus grypus) at Donna Nook, Lincolnshire, UK*. Preliminary report to the British Ecological Society.
- Lidicker, W. Z., Jr. (1995). The landscape concept: something old, something new. In *Landscape Approaches in Mammalian Ecology*, ed. W. Z. Lidicker, Jr., pp. 3–19. Minneapolis: University of Minnesota Press.
- Lidicker, W. Z., Sage, R. D. & Sage, D. G. (1981). Biochemical variation in northern sea lions from Alaska. In *Mammalian Population Genetics*, eds M. H. Smith & J. Joule, pp. 231–241. Athens, GA: University of Georgia Press.
- Lindemann, W. (1956). Transplantation of game in Europe and Asia. *Journal of Wildlife Management* **20**: 68–70.
- Lindenmayer, D. B., Lacy, R. C., Burgman, M. A., Akçakaya, H. R. & Possingham, H. P. (1995). A review of the generic programs ALEX, RAMAS/space and VORTEX for modelling the viability of wildlife metapopulations. *Ecological Modelling* **82**: 161–174.
- Lindsay, I. M. & Macdonald, D. W. (1985). The effects of disturbance on the emergence of Eurasian badgers in winter. *Biological Conservation* **34**: 289–306.
- Lindström, E. (1983). Condition and growth of red foxes (*Vulpes vulpes*) in relation to

- food supply. *Journal of Zoology (London)* **199**: 117–122.
- Lindström, E. (1989). Food limitation and social regulation in a red fox population. *Holarctic Ecology* **12**: 70–79.
- Lindström, E. (1992). Diet, reproduction, recruitment and growth of the red fox (*Vulpes vulpes*) in relation to population density – the sarcoptic mange event in Scandinavia. In *Wildlife 2001: Populations*, eds D. R. McCullough & R. H. Barrett. Elsevier Science, London.
- Lindström, E., Andren, H., Angelstam, P. & Widen, P. (1986). Influence of predators on hare populations in Sweden: a critical review. *Mammal Review* **16**: 151–156.
- Lindström, E., Andren, H., Angelstam, P., Cederlund, G., Hornfeldt, B., Jaderberg, L., Lemnell, P., Martinsson, B., Skold, K. & Swenson, J. E. (1994). Disease reveals the predator: sarcoptic mange, red fox predation, and prey populations. *Ecology* **75**: 1042–1049.
- Lindström, E., Brainerd, S. M., Helldin, J. O. & Overskaug, K. (1995). Pine marten-red fox interactions: a case of intraguild predation? *Annales Zoologici Fennici* **32**: 123–130.
- Lindström, E. & Mörner, T. (1985). The spreading of sarcoptic mange among Swedish red foxes (*Vulpes vulpes* L.) in relation to fox population dynamics. *Revue d'Écologie (La Terre et la Vie)* **40**: 211–216.
- Lindzey, F. G. (1971). *Ecology of Badgers in Curlew Valley, Utah and Idaho, with Emphasis on Movement and Activity Patterns*. MS thesis, Utah State University, Logan.
- Lindzey, F. G. (1987). Mountain lion. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 657–668. North Bay: Ontario Trappers Association.
- Lindzey, F. G. & Meslow, E. C. (1980). Harvest and population characteristics of black bears in Oregon (1971–74). *International Conference on Bear Research and Management* **4**: 213–219.
- Lindzey, F. G., Thompson, S. K. & Hodges, J. I. (1977). Scent station index of black bear abundance. *Journal of Wildlife Management* **41**: 151–153.
- Lindzey, G. G., Van Sickle, W. D., Ackerman, B. B., Barnhurst, D., Hemker, T. P. & Laing, S. P. (1994). Cougar population dynamics in southern Utah. *Journal of Wildlife Management* **58**: 619–624.
- Linhardt, S. B. & Knowlton, F. F. (1975). Determining the relative abundance of coyotes by scent station lines. *Wildlife Society Bulletin* **3**: 119–124.
- Linn, I. J. & Chanin, P. R. F. (1978a). Are mink really pests in Britain? *New Scientist* **77**: 560–562.
- Linn, I. J. & Chanin, P. R. F. (1978b). More on the mink menace. *New Scientist* **79**: 38–40.
- Linnell, J. D. C., Aanes, R., Swenson, J. E., Odden, J. & Smith, M. E. (1997). Translocation of carnivores as a method for managing problem animals: a review. *Biodiversity and Conservation* **6**: 1245–1257.
- Linscombe, G., Kinler, N. & Aulerich, R. J. (1982). Mink. In *Wild Mammals of North America: Biology, Management, and Economics*, eds J. A. Chapman & G. A. Feldhamer, pp. 629–643. Baltimore, MD: Johns Hopkins University Press.
- Liss, K. (1998). Trapping. In *Encyclopedia of Animal Rights and Animal Welfare*, ed. M. Bekoff, pp. 338–340. Westport, CT: Greenwood Press.

- Little, P. (1994). The link between local participation and improved conservation: a review of issues and experiences. In *Natural Connections: Perspectives in Community-based Conservation*, eds D. Western & R. Wright, R. pp. 347–372. Washington DC: Island Press.
- Litvaitis, J. A., Beltran, J. F., Delibes, M., Moreno, A. & Villafuerte, R. (1996). Sustaining felid populations in human-dominated landscapes. *Journal of Wildlife Research* 1: 292–296.
- Litvaitis, J. A. & Harrison, D. J. (1989). Bobcat–coyote niche relationships during a period of coyote population increase. *Canadian Journal of Zoology* 67: 1180–1188.
- Litvaitis, J. A. & Kane, D. M. (1994). Relationship of hunting technique and hunter selectivity to composition of black bear harvest. *Wildlife Society Bulletin* 22: 604–606.
- Litvaitis, J. A. & Villafuerte R. (1996). Intraguild predation, mesopredator release, and prey stability. *Conservation Biology* 10: 676–677.
- Litvinenko, N. M. (1993). Effects of disturbance by people and introduced predators on seabirds in the northwest Pacific. In *The Status, Ecology, and Conservation of Marine Birds of the North Pacific*, eds K. Vermeer, K. T. Briggs, K. H. Morgan & D. Siegel-Causey, pp. 227–231. Ottawa, Ontario: Canadian Wildlife Service Special Publication.
- Lloyd, H. G. (1975). The red fox in Britain. In *The Wild Canids*, ed. M. W. Fox, pp. 207–215. New York: Van Nostrand Reinhold Co.
- Lloyd, S. (1995). Environmental influences on host immunity. In *Ecology of Infectious Diseases in Natural Populations*, eds B. T. Grenfell & A. P. Dobson, pp. 327–361. Cambridge: Cambridge University Press.
- Lodge, D. M. (1993). Biological invasions: lessons for ecology. *Trends in Ecology and Evolution* 8: 133–137.
- Logan, K. A., Irwin, L. L. & Skinner, R. (1986). Characteristics of a hunted mountain lion population in Wyoming. *Journal of Wildlife Management* 50: 648–654.
- Logan, K. A., Sweanor, L. L., Ruth, T. K. & Hornocker, M. G. (1996). *Cougar of the San Andres Mountain, New Mexico. Final Report, Project W-128R*. Santa Fe: New Mexico Department of Game and Fish.
- Lombard, A. T. (1995). The problems with multi-species conservation: do hotspots, ideal reserves and existing reserves coincide? *South African Journal of Zoology* 30: 145–163.
- Long, C. A. (1995). Stone marten (*Martes foina*) in southeast Wisconsin, U.S.A. *Small Carnivore Conservation* No. 13. Gland: IUCN-World Conservation Union.
- Long, J. A., Wildt, D. E., Wolfe, B. A., Critser, J. K., De Rossi, R. V. & Howard, J. G. (1996). Sperm capacitation and the acrosome reaction are compromised in teratospermic domestic cats. *Biology of Reproduction* 54: 638–646.
- Loope, L. L., Sanchez, P. G., Tarr, P. W., Loope, W. L. & Anderson, R. L. (1988). Biological invasions of arid land nature reserves. *Biological Conservation* 44: 95–118.
- Lopez, B. H. (1978). *Of Wolves and Men*. New York: Charles Scribner's Sons.
- Lord, R. D., Vilches, A. M., Maiztegui, J. I. & Soldini, C. A. (1970). The tracking board: a relative census technique for studying rodents. *Journal of Mammalogy* 51: 828–829.
- Lovallo, M. J. & Anderson, E. M. (1995). Range shift by a female bobcat (*Lynx rufus*) after removal of neighboring female. *American Midland Naturalist* 134: 409–412.

- Love, J. A. (1992). *Sea Otters*. Golden: Fulcrum Publishing.
- Ludwig, D., Hilborn, R. & Walters, C. (1993). Uncertainty, resource exploitation, and conservation: lessons from history. *Science* 260: 17, 36.
- Luikart G., Allendorf, F., Cornuet J.-M. & Sherwin, W. (1998a). Distortion of allele frequency distributions provide a test for recent population bottlenecks. *Journal of Heredity* 89: 238–247.
- Luikart, G. & England, P. (1999). Statistical analysis of microsatellite DNA data. *Trends in Ecology and Evolution* 14: 253–256.
- Luikart, G., Sherwin, W., Steele, B. & Allendorf, F. (1998b). Usefulness of molecular markers for detecting population bottlenecks via monitoring genetic change. *Molecular Ecology* 1998: 963–974.
- Lüthcke, J. (1999). Norwegians to hunt sheep killing wolves. The Baltic and Nordic News Service, 13–01–99.
- Lutz, W. (1984). Die Verbreitung des Waschbären (*Procyon lotor*) in mitteleuropäischen Raum. *Zeitschrift für Jagdwissenschaft* 30: 218–228.
- Lyles, A. M. & Dobson, A. P. (1993). Infectious-disease and intensive management – population-dynamics, threatened hosts, and their parasites. *Journal of Zoo and Wildlife Medicine* 24: 315–326.
- Lynch, J. M. (1995). Conservation implications of hybridisation between mustelids and their domesticated counterparts: the example of polecats and feral ferrets in Britain. *Small Carnivore Conservation* 13: 17–18.
- Lynch, M. (1996). A quantitative-genetic perspective on conservation issues. In *Conservation Genetics, Case Histories from Nature*, eds J. C. Avise & J. L. Hamrick, pp. 471–501. New York: Chapman and Hall.
- Lynch, M. & Gabriel, W. (1990). Mutation load and survival of small populations. *Evolution* 44: 1725–1737.
- Lynch, M. & Lande, R. (1998). The critical effective size for a genetically secure population. *Animal Conservation* 1: 70–2.
- Lynx Summary (1999). <http://www.bouldernews.com/extra/lynx/>
- Maehr, D. S. (1997). The comparative ecology of bobcat, black bear and Florida panther in South Florida. *Bulletin of the Florida Museum of Natural History* 40: 1–176.
- MacArthur, R. H. & Wilson, E. O. (1967). *The Theory of Island Biogeography*. Princeton, NJ: Princeton University Press.
- MacArthur, R. M. (1972). *Geographical Ecology: Patterns in the Distribution of Species*. New York: Harper and Row.
- Macdonald, D. W. (1977). On food preference in the red fox. *Mammal Review* 7: 7–23.
- Macdonald, D. W. (1980). *Rabies and Wildlife: A Biologist's Perspective*. Oxford: Oxford University Press.
- Macdonald, D. W. (1982). Studies of wildlife rabies in the northern hemisphere and their relevance to southern Africa. *South African Journal of Science* 78: 416–417.
- Macdonald, D. W. (1983). The ecology of carnivore social behaviour. *Nature* 301: 379–384.
- Macdonald, D. W. (1992). *The Velvet Claw: A Natural History of the Carnivores*. London: BBC Books.
- Macdonald, D. W. (1993). Rabies and wildlife: a conservation problem? *Onderstepoort Journal of Veterinary Research* 60: 351–355.

- Macdonald D. W. (1996). Dangerous liaisons and disease. *Nature* **379**: 400–401.
- Macdonald, D. W. (2000a). *Animal Emotions*. ed. M. Bekoff, pp. 46–49 and 100–103. Discovery Books.
- Macdonald, D. W. (2000b). Bartering biodiversity: what are the options? In *Environmental Policy: Objectives, Instruments & Implementation*, ed. D. Helm, pp. 142–171. Oxford: Oxford University Press.
- Macdonald, D. W., Artois, M., Aubert, M., Bishop, D. L., Ginsberg, J. R., King, A., Kock, N. & Perry, B. D. (1992). Cause of wild dog deaths. *Nature* **360**: 633–634.
- Macdonald, D. W., Barreto, G. R., Ferreras, P., Kirk, B., Rushton, S., Yamaguchi, N. & Strachan, R. (1999). The impact of American mink, *Mustela vison*: as predators of native species in British freshwater systems. In *Advances in Vertebrate Pest Management*, eds D. P. Cowan & C. J. Feare, pp. 5–24. Färth: Filander Verlag.
- Macdonald, D. W. & Barrett, P. (1993). *Collins Field Guide to the Mammals of Britain and Europe*. London: Harper Collins.
- Macdonald, D. W. & Carr, G. M. (1995). Variation in dog society: between resource dispersion and social flux. In *The Domestic Dog: Its Evolution, Behaviour and Interactions with People*, ed. J. Serpell, pp. 199–216. Cambridge: Cambridge University Press.
- Macdonald, D. W. & Courtenay, O. (1993). Wild and domestic canids as reservoirs of American visceral leishmaniasis in Amazonia. *Symposia of the Zoological Society of London* **65**: 465–479.
- Macdonald, D. W. & Johnson, P. J. (1996). The impact of sport hunting: a case study. In *The Exploitation of Mammal Populations: 1994 Symposium of the Zoological Society of London*, eds N. Dunstone & V. L. Taylor, pp. 160–207. London: Chapman & Hall.
- Macdonald, D. W. & Johnson, P. J. (2000). Farmers and the custody of the countryside: trends in loss and conservation of non-productive habitats 1981–1998. *Biological Conservation* **1**–14.
- Macdonald, D. W., Mace, G. M. & Barreto, G. R. (1999). The effects of predators on fragmented prey populations: a case study for the conservation of endangered prey. *Journal of Zoology (London)* **247**: 487–506.
- Macdonald, D. W., Mace, G. & Rushton, S. (1998a). *Proposals for Future Monitoring of British Mammals*. London: Department of Environment, Transport, and the Regions.
- Macdonald, D. W., Mace, G. M. & Rushton, S. (2000). British mammals: is there a radical future. In *Priorities for the Conservation of Mammalian Diversity*, eds A. Entwistle & N. Dunstone, pp. 175–205. Cambridge: Cambridge University Press.
- Macdonald, D. W. & Newman, C. (in press). Badger (*Meles meles*) population dynamics in Oxfordshire, UK: numbers, density and cohort life histories, and a possible role of climate change in population growth. *Journal of Zoology (London)*.
- Macdonald, D. W., Reynolds, J. C., Carbone, C., Matthews, F. & Johnson, P. J. (in press). The bio-economics of fox control. In *British Mammals in Farmed Landscapes*, eds F. H. Tattersall & W. Manley, Linnean Society Occasional Publications Series. Otley: Westbury Publishing.
- Macdonald, D. W. & Strachan, R. (1999). *Mink and Watervole: Analyses for Conservation*. Oxford: Wildlife Conservation Research Unit.

- Macdonald, D. W., Yamaguchi, N. & Passanisi, W. C. (1998b). The health, haematology and blood biochemistry of free-ranging farm cats in relation to social status. *Animal Welfare* 7: 243–256.
- Macdonald, I. A. W., Graber, D. M., DeBenedetti, S., Groves, R. H. & Fuentes, E. R. (1988). Introduced species in nature reserves in Mediterranean-type climatic regions of the world. *Biological Conservation* 44: 37–66.
- Macdonald, I. A. W., Loope, L. L., Usher, M. B. & Hamann, O. (1989). Wildlife conservation and the invasion of nature reserves by introduced species: a global perspective. In *Biological Invasions: A Global Perspective*, eds J. Drake, H. Mooney, F. di Castri, R. Groves, F. Kruger, M. Rejmanek & M. Williamson, pp. 215–255. Chichester: John Wiley and Sons Ltd.
- Macdonald, S. M. & Mason, C. F. (1982). The otter *Lutra lutra* in central Portugal. *Biological Conservation* 22: 207–215.
- Mace, G., Collar, N., Cooke, J., Gaston, K., Ginsberg, J., Leader-Williams, N., Maun-der, M. & E. J. Milner-Gulland (1993). The development of new criteria for listing species on the IUCN Red List. *Species* 19: 16–22.
- Mace G. & Sillero-Zubiri, C. (1997). A preliminary population viability analysis for the Ethiopian wolf. In *The Ethiopian Wolf. Status and Conservation Action Plan*, eds C. Sillero-Zubiri & D. Macdonald, pp. 51–60. Gland: UCN/SSC Canid Specialist Group.
- Mace, G. M. & Balmford, A. (2000). Patterns and processes in contemporary mammalian extinction. In *Future Priorities for the Conservation of Mammalian Diversity*, eds A. Entwistle & N. Dunstone, pp. 27–52. Cambridge: Cambridge University Press.
- Mace, G. M. & Lande, R. (1991). Assessing extinction threats: toward a reevaluation of IUCN threatened species categories. *Conservation Biology* 5: 148–157.
- Mace, R. D., Waller, J. S., Manley, T. L., Lyon, L. J. & Zuuring, H. (1996). Relationships among grizzly bears, roads, and habitat use in the Swan Mountains, Montana. *Journal of Applied Ecology* 33: 754–72.
- MacFadden, B. J. (1992). Interpreting extinctions from the fossil record: methods, assumptions, and case examples using horses (family Equidae). In *Extinction and Phylogeny*, eds M. J. Novacek & Q. D. Wheeler, pp. 17–45. New York: Columbia University Press.
- Mack, A. (Ed.) (1999). *Humans and Other Animals*. Columbus: Ohio State University Press.
- Macpherson, A. H. (1969). The dynamics of Canadian arctic fox populations. *Canadian Wildlife Service, Report Series* No. 8.
- Maddock, A., Anderson, A., Carlisle, F., Galli, N., James, A., Verster, S. & Whitfield, W. (1996). Changes in lion numbers in Hluhluwe-Umfolozi Park. *Lammergeyer* 44: 6–18.
- Maddock, A. H. & Mills, G. L. (1993). Population characteristics of African wild dogs, *Lycaon pictus*, in the Eastern Transvaal Lowveld, South Africa, as revealed through photographic records. *Biological Conservation* 67: 57–62.
- Maehr, D. S. (1990). The Florida panther and private lands. *Conservation Biology* 4: 167–170.
- Maehr, D. S. (1997). *The Florida Panther: Life and Death of a Vanishing Carnivore*. Washington, DC: Island Press.
- Maehr, D. S. & Caddick, G. B. (1995). Demographics and genetic introgression in

- the Florida panther. *Conservation Biology* 9: 1295–1298.
- Maehr D. S., Greiner, E. C., Lanier, J. E. & Murphy, D. (1995). Notoedric mange in the Florida panther (*Felis concolor coryi*). *Journal of Wildlife Diseases* 31: 251–254.
- Maehr, D. S., Land, E. D. & Roelke, M. E. (1991). Mortality patterns of panthers in southwest Florida. *Proceedings Annual Conference Southeastern Fish and Wildlife Agencies* 45: 201–7.
- Maehr, D. S., Layne, J. N., Land, E. D., McCown, J. W. & Roof, J. (1988). Long distance movements of a Florida black bear. *Florida Field Naturalist* 16: 1–6.
- Maehr, D. S., McBride, R. T. & Mullahey, J. J. (1996). Status of coyotes in south Florida. *Florida Field Naturalist* 24: 101–107.
- MAFF (1998). *Quarantine and Rabies, A Reappraisal. Report by the Advisory Group on Quarantine to the Minister of Agriculture, Fisheries and Food*. London: MAFF Publications.
- Magoun, A. J. (1985). *Population Characteristics, Ecology, and Management of Wolverines in Northwestern Alaska*. PhD thesis, University of Alaska, Fairbanks.
- Mainka, S., Xianmeng, Q., Tingmei, H. & Appel, M. J. (1994). Serological survey of giant pandas (*Ailuropoda melanoleuca*), and domestic dogs and cats in the Wulong Reserve, China. *Journal of Wildlife Diseases* 30: 86–89.
- Major, M., Johnson, M., Davis, W. & Kellogg, T. (1980). Identifying scats by recovery of bile acids. *Journal of Wildlife Management* 44: 290–293.
- Makombe, K. (Ed.). (1994). *Sharing the Land: Wildlife, People and Development in Africa*. Harare: IUCN.
- Malcolm, J. R. (1980). Food caching by African wild dogs (*Lycaon pictus*). *Journal of Mammalogy* 61: 743–744.
- Malcolm, J. R. (1988). Small mammal abundances in isolated and non-isolated primary forest reserves near Manaus, Brazil. *Acta Amazônica* 18: 67–83.
- Malcolm, J. R. & van Lawick, H. (1975). Notes on wild dogs (*Lycaon pictus*) hunting zebras. *Mammalia* 39: 231–240.
- Maldonado, J. E., Orta-Davila, F., Stewart, B. S., Geffen, E. & Wayne, R. K. (1995). Intraspecific genetic differentiation in California sea lions (*Zalophus californianus*) from southern California and the Gulf of California. *Marine Mammal Science* 11: 46–58.
- Malik, S., Wilson, P. J., Smith, R. J., Lavigne, D. M. & White, B. N. (1997). Pinniped penises in trade: a molecular genetic investigation. *Conservation Biology* 11: 1365–1374.
- Mano, T. (1995). Sex and age characteristics of harvested brown bears in the Oshima Peninsula, Japan. *Journal of Wildlife Management* 59: 199–204.
- Mansfield, T. (1997). What we've learned about lions. *Outdoor California* 57: 4–8.
- Maran, T. & Henttonen, H. (1995). Why is the European mink (*Mustela lutreola*) disappearing? A review of the process and hypothesis. *Annales Zoologici Fennici* 32: 47–54.
- Maran, T., Kruuk, H., Macdonald, D. W. & Polma, M. (1998). Diet of two species of mink in Estonia: displacement of *Mustela lutreola* by *M. vison*? *Journal of Zoology (London)* 245: 218–222.
- Maran, T., Macdonald, D. W., Kruuk, H., Sidorovich, V. & Rozhnov, V. V. (1998). The continuing decline of the European mink *Mustela lutreola*: evidence for the intraguild aggression hypothesis. In *Behaviour and Ecology of Riparian*

- Mammals*, eds N. Dunstone & M. Gorman, pp. 297–323. Cambridge: Cambridge University Press.
- Mares, M. A. (1991). How scientists can impede the development of their discipline: egocentrism, small pool size, and the evolution of sapismo. In *Latin American Mammalogy: History, Biodiversity, and Conservation*, eds M. A. Mares & D. J. Schmidley, pp. 57–75. Norman: Oklahoma Museum of Natural History.
- Mares, M. A. & Ojeda, R. A. (1984). Fauna commercialization and conservation in South America. *BioScience* 34: 580–584.
- Margules, C. R., Pressey, R. L. & Nicholls, A. O. (1991). Selecting nature reserves. In *Nature Conservation: Cost Effective Biological Surveys and Data Analysis*, eds C. R. Margules & M. P. Austin, pp. 90–97. Canberra: CSIRO.
- Marker-Kraus, L. (1996). Cheetah relocation. *Cheetah Conservation Fund Newsletter* 6: 5.
- Marker-Kraus, L. (1997). History of the cheetah in zoos 1829–1994. *International Zoo Yearbook* 35: 27–43.
- Marker-Kraus, L. & Kraus, D. (1997). Conservation of strategies for the long-term survival of the cheetah *Acinonyx jubatus* by the Cheetah Conservation Fund, Windhoek. *International Zoo Yearbook* 35: 59–66.
- Marker-Kraus, L., Kraus, D., Barnett, D. & Hurlbut, S. (1996). *Cheetah Survival on Namibian Farmlands; the Research Findings From the CCF Farm Survey*. Windhoek: Cheetah Conservation Fund.
- Marshall, T., Slate, J., Kruuk, L. & Pemberton, J. (1998). Statistical confidence for likelihood-based paternity inference in natural populations. *Molecular Ecology* 7: 639–655.
- Martin, L. D. (1989). Fossil history of the terrestrial Carnivora. In *Carnivore Behavior, Ecology, and Evolution*, ed. J. L. Gittleman, pp. 536–568. Ithaca: Cornell University Press.
- Martin, P. S. & Klein, R. G. (Eds) (1998). *Quaternary Extinctions, A Prehistoric Revolution*. Tucson, AZ: University of Arizona Press.
- Martin, P. S. & Wright, H. E. (Eds) (1967). *Pleistocene Extinctions: The Search for a Cause*. New Haven, CT: Yale University Press.
- Martin, R. B. & de Meulenaer, T. (1988). *Survey of the Status of the Leopard (Panthera pardus) in Sub-Saharan Africa*. Lausanne: CITES Secretariat.
- Mason, C. F. & Macdonald, S. M. (1986). *Otters: Ecology and Conservation*. Cambridge: Cambridge University Press.
- Mason, C. F. & O'Sullivan, W. M. (1992). Organochlorine pesticide residues and PCs in otters (*Lutra lutra*) from Ireland. *Bulletin of Environmental Contamination and Toxicology* 48: 387–393.
- Masood, E. (1988). Outcry as 'scientific' badger cull is launched to target TB. *Nature* 394: 821.
- Masuda, R., Lopes, J. V., Slattery, J. P., Yuhki, N. & O'Brien, S. J. (1996). Molecular phylogeny of mitochondrial cytochrome b and 12S rRNA sequences in the Felidae: ocelot and domestic cat lineages. *Molecular Phylogenetics and Evolution* 6: 351–365.
- Mattlin, R. H. (1978). *Population biology, thermoregulation, and site preference of the New Zealand fur seal, Arctocephalus forsteri*. PhD Thesis, University of Canterbury, New Zealand.
- Mattlin, R. H. (1987). New Zealand fur seal, *Arctocephalus forsteri*: within the New

- Zealand region. In *Status, Biology, and Ecology of Fur Seals*, eds J. P. Croxall & R. L. Gentry, pp. 49–51. NOAA Tech Rep NMFS, vol. 51.
- Mattson, D. J. (1995). The New World Mine and grizzly bears: a window on ecosystem management. *Journal of Energy, Natural Resources & Environmental Law* **15**: 267–293.
- Mattson, D. J. (1996). Ethics and science in natural resource agencies. *BioScience* **46**: 767–771.
- Mattson, D. J. (1997). Wilderness-dependent wildlife: the large and the carnivorous. *International Journal of Wilderness* **3**: 34–38.
- Mattson, D. J. & Craighead, J. J. (1994). The Yellowstone grizzly bear recovery program. In *Endangered Species Recovery: Finding the Lessons, Improving the Process*, eds T. W. Clark, R. P. Reading & A. L. Clarke, pp. 101–129. Washington DC: Island Press.
- Mattson, D. J., Herrero, S., Wright, R. G. & Pease, C. M. (1996a). Science and management of Rocky Mountain grizzly bears. *Conservation Biology* **10**: 1013–1025.
- Mattson, D. J., Herrero, S., Wright, R. G. & Pease, C. M. (1996b). Designing and managing protected areas for grizzly bears: How much is enough? In *National Parks and Protected Areas: Their Role in Environmental Protection*, ed. R. G. Wright, pp. 133–164. Cambridge: Blackwell Science.
- Mattson, D. J., Knight, R. R. & Blanchard, B. M. (1987). The effects of developments and primary roads on grizzly bear habitat use in Yellowstone National Park, Wyoming. *International Conference on Bear Research and Management* **7**: 259–273.
- Mattson, D. J., Wright, R. G., Kendall, K. C. & Martinka, C. J. (1995). Grizzly bears. In *Our Living Resources: A Report to the Nation on the Distribution, Abundance, and Health of U. S. Plants, Animals, and Ecosystems*, eds E. T. LaRoe, G. S. Farris, C. E. Puckett, P. D. Doran & M. J. Mac, pp. 103–105. Washington, DC: U. S. National Biological Service.
- May, R. M. (1988). Conservation and disease. *Conservation Biology* **2**: 26–30.
- May, R. M. & Anderson, R. M. (1978). Regulation and stability of host-parasite population interactions. II. Destabilizing processes. *Journal of Animal Ecology* **47**: 249–267.
- May, R. M., Lawton, J. H. & Stork, N. E. (1995). Assessing extinction rates. In *Extinction Rates*, eds J. H. Lawton & R. M. May, pp. 1–24. Oxford: Oxford University Press.
- McCallum, H. (1996). Immunocontraception for wildlife population control. *Trends in Ecology and Evolution* **11**: 491–493.
- McCallum, H. I. & Dobson, A. (1995). Detecting disease and parasite threats to endangered species and ecosystems. *Trends in Ecology and Evolution* **10**: 190–194.
- McCarthy, T. & Allen, P. (1999). Knitting for snow leopards. *Cat News* **30**: 24–25.
- McCarthy, T. M. & Munkhtsog, B. (1997). Preliminary assessment of snow leopard sign surveys in Mongolia. In *Proceedings of the Eighth International Snow Leopard Symposium*, eds R. Jackson & A. Ahmad, pp. 57–65. Seattle, WA: International Snow Leopard Trust.
- McCracken, H. (1957). *The Beast that Walks Like Man – The Story of the Grizzly Bear*. London: Oldbourne Press.

- McCrindle, C. M. E. (1998). The community development approach to animal welfare: an African perspective. *Applied Animal Behaviour Science* 59: 227–233.
- McCullough, D. R. (Ed.) (1996). *Metapopulations and Wildlife Conservation*. Washington, DC: Island Press.
- McDonald, J. E., Jr. (1998). *The Effects of Food Supply and Nutrition on Black Bear Reproductive Success and Milk Composition*. PhD Dissertation. University of Massachusetts, Amherst.
- McDougal, C. (1987). The man-eating tiger in a geographical and historical perspective. In *Tigers of the World: The Biology, Management and Conservation of an Endangered Species*, eds R. L. Tilson & U. S. Seal, pp. 435–448. Park Ride, NJ: Noye Publications.
- McDougal, C. (1988). Leopard and tiger interactions at Royal Chitwan National Park, Nepal. *Journal of the Bombay Natural History Society* 85: 609–611.
- McKenna, M. C. & Bell, S. K. (1997). *Classification of Mammals – Above the Species Level*. New York: Columbia University Press.
- McKinney, M. L. (1997). Extinction vulnerability and selectivity: combining ecological and paleontological views. *Annual Reviews in Ecology and Systematics* 28: 495–516.
- McKinney, M. L. (1998). Branching models predict loss of many bird and mammal orders. *Animal Conservation* 1: 159–64.
- McLellan, B. N. (1989). Dynamics of a grizzly bear population during a period of industrial resource extraction. III. Natality and rate of increase. *Canadian Journal of Zoology* 67: 1865–1868.
- McLellan, B. N. (1990). Relationships between human industrial activity and grizzly bears. *International Conference on Bear Research and Management* 8: 57–64.
- McLellan, B. N. (1994). Density-dependent population regulation of brown bears. In *Density Dependent Population Regulation in Black, Brown, and Polar Bears*, ed. M. Taylor, pp. 15–24. International Conference on Bear Research and Management Monograph Series No. 3.
- McLellan, B. N. & Shackelton, D. M. (1988). Grizzly bears and resource-extraction industries: effects of roads on behaviour, habitat use, and demography. *Journal of Applied Ecology* 25: 451–460.
- McMahan, L. R. (1986). The International cat trade. In *Cats of the World*, eds S. D. Miller & E. D. Everett, pp. 461–487. Washington DC: National Wildlife Federation.
- McNamee, T. (1997). *The Return of the Wolf to Yellowstone*. New York: Henry Holt & Co.
- McNutt, J. W. (1995). *Sociality and dispersal in African wild dogs, Lycaon pictus*. PhD Dissertation, University of California, Davis.
- McNutt, J. W. (1996). Sex-biased dispersal in African wild dogs, *Lycaon pictus*. *Animal Behaviour* 52: 1067–1077.
- McOrist, S., Boid, R., Jones, T. W., Easterbee, N., Hubbard, A. L. & Jarrett, O. (1991). Some viral and protozoal diseases in the European Wildcat (*Felis silvestris*). *Journal of Wildlife Disease* 27: 693–696.
- McOrist, S. & Kitchener, A. C. (1994). Current threats to the European wildcat, *Felis silvestris*, in Scotland. *Ambio* 23: 243–245.
- McVittie, R. (1979). Changes in the social behaviour of South West African cheetah. *Madoqua* 2: 171–89.

- Meagher, T. & Thompson, E. (1986). The relationship between single parent and parent pair genetic likelihoods in genealogy reconstruction. *Theoretical Population Biology* 29: 87–106.
- Mech, L. D. (1966). *The Wolves of Isle Royale*. Fauna Series No. 7. Washington, DC: U.S. National Park Service.
- Mech, L. D. (1970). *The Wolf: The Ecology and Behavior of an Endangered Species*. Minneapolis: University of Minnesota Press.
- Mech, L. D. (1973a). *Wolf Numbers in the Superior National Forest of Minnesota*. U.S. Forest Service Research Paper NC-97. St. Paul, MN: North Cent. For. Exp. Stn.
- Mech, L. D. (1973b). Canada lynx invasion of Minnesota. *Biological Conservation* 5: 151–152.
- Mech, L. D. (1977a). Wolf pack buffer zones as prey reservoirs. *Science* 198: 320–321.
- Mech, L. D. (1977b). Productivity, mortality and population trends of wolves in northeastern Minnesota. *Journal of Mammalogy* 58: 559–574.
- Mech, L. D. (1981). *The Wolf: The Ecology and Behavior of an Endangered Species*. New York: Doubleday.
- Mech, L. D. (1987). Age, season, distance, direction, and social aspects of wolf dispersal from a Minnesota pack. In *Mammalian Dispersal Patterns: the Effects of Social Structure on Population Genetics*, eds B. D. Chepko-Sade & Z. T. Halpin, pp. 55–74. Chicago: University of Chicago Press.
- Mech, L. D. (1995). The challenge and opportunity of recovering wolf populations. *Conservation Biology* 9: 270–278.
- Mech, L. D., Adams, L. G., Meier, T. J., Burch, J. W. & Dale, B. W. (1998). *The Wolves of Denali*. Minneapolis: University of Minnesota Press.
- Mech, L. D., Fritts, S. H. & Paul, W. J. (1988a). Relationship between winter severity and wolf depredations on domestic animals in Minnesota. *Wildlife Society Bulletin* 16: 269–272.
- Mech, L. D., Fritts, S. H., Radde, G. L. & Paul, W. J. (1988b). Wolf distribution and road density in Minnesota. *Wildlife Society Bulletin* 16: 85–7.
- Mech, L. D. & Goyal, S. M. (1995). Effects of canine parvovirus on gray wolves in Minnesota. *Journal of Wildlife Management* 59: 565–570.
- Medina, G. (1997). A comparison of the diet and distribution of southern river otter (*Lutra provocax*) and mink (*Mustela vison*) in southern Chile. *Journal of Zoology (London)* 242: 291–297.
- Meffe, G. K. Boersma, P. D., Murphy, D. D., Noon, B. R., Pulliam, H. R., Soulé, M. E. & Waller, D. M. (1998). Independent scientific review in natural resource management. *Conservation Biology* 12: 268–70.
- Melish, R. & Foster-Turley, P. (1996). First record of hybridisation in otters (*Lutrinae: Mammalia*), between Smooth-coated otter, *Lutrogale perspicillata* (Geoffroy, 1826) and Asian small-clawed otter, *Aonyx cinerea* (Illiger, 1815). *Zoologische Garten* 66: 284–288.
- Melquist, W. E., & Dronkert, A. E. (1987). River otter. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 627–641. North Bay: Ontario Trappers Association.
- Melquist, W. E. & Hornocker, M. G. (1979). *Methods and Techniques for Studying and Censusing River Otter Populations*. University of Idaho Forest, Wildlife, and Range Experiment Station, Technical Report No. 8.

- Melquist, W. E. & Hornocker, M. G. (1983). Ecology of river otters in west central Idaho. *Wildlife Monographs* 83: 1–60.
- Melville, E. G. K. (1994). *A Plague of Sheep*. Cambridge: Cambridge University Press.
- Menotti-Raymond, M. & O'Brien, S. J. (1993). Dating the genetic bottleneck of the African cheetah. *Proceedings of the National Academy of Science* 90: 3172–3176.
- Menotti-Raymond, M., David, V. A., Stephens, J. C., Lyons, L. A. & O'Brien, S. J. (1997a). Genetic individualization of domestic cats using feline STR loci for forensic applications. *Journal of Forensic Science* 42: 1039–1051.
- Menotti-Raymond, M., David, V. A. & O'Brien, S. J. (1997b). Pet cat hair implicates murder suspect. *Nature* 386: 774.
- Mercure, A., Ralls, K., Koepfli, K. P. & Wayne, R. K. (1993). Genetic subdivisions among small canids: mitochondrial DNA differentiation of swift, kit, and arctic foxes. *Evolution* 47: 1313–1328.
- Merrill, S. B., Adams, L. G., Nelson, M. E. & Mech, L. D. (1998). Testing releasable GPS radiocollars on wolves and white-tailed deer. *Wildlife Society Bulletin* 26: 830–835.
- Messick, J. P. (1987). North American badger. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 587–597. North Bay: Ontario Trappers Association.
- Messick, J. P. & Hornocker, M. G. (1981). Ecology of the badger in southwestern Idaho. *Wildlife Monographs* 76: 1–53.
- Messier, F. (1985). Solitary living and extraterritorial movements of wolves in relation to social status and prey abundance. *Canadian Journal of Zoology* 63: 239–245.
- Messier, F. (1987). Physical condition and blood physiology of wolves in relation to moose density. *Canadian Journal of Zoology* 65: 91–95.
- Messier, F. (1994). Ungulate population models with predation: a case study with the North American moose. *Ecology* 75: 478–488.
- Messier, F. (1995). On the functional and numerical responses of wolves to changing prey density. In *Ecology and Conservation of Wolves in a Changing World*, eds L. N. Carbyn, S. H. Fritts & D. R. Seip, pp. 187–197. Edmonton, Alberta: Canadian Circumpolar Institute.
- Meyer, W. B. & Turner, B. L. II. (1992). Human population growth and global land-use/cover change. *Annual Review Ecology and Systematics* 23: 39–61.
- Meyers, N. (1988). Threatened biotas: hotspots in tropical forests. *Environmentalist* 8: 178–208.
- Meyers, N. (1990). The biodiversity challenge: expanded hotspot analysis. *Environmentalist* 10: 243–256.
- Mighetto, L. (1991). *Wild Animals and American Environmental Ethics*. Tucson: University of Arizona Press.
- Milberg, P. & Tyrberg, T. (1993). Naïve birds and noble savages – a review of man-caused prehistoric extinctions of island birds. *Ecography* 16: 229–241.
- Miller, A. (1999). *Environmental Problem Solving: Psychosocial Barriers to Adaptive Change*. New York: Springer.
- Miller, B., Ralls, K., Reading, R. P., Scott, J. M. & Estes, J. (1999). Biological and technical considerations of carnivore translocation: a review. *Animal Conservation* 2: 59–68.

- Miller, B., Reading, R.P. & Forrest, S. (1996). *Prairie Night: Black-footed Ferrets and the Recovery of Endangered Species*. Washington, DC: Smithsonian Institution Press.
- Miller, F. L. & Russell, R. H. (1977). Unreliability of strip aerial surveys for estimating numbers of wolves on western Queen Elizabeth Islands, Northwest Territories. *Canadian Field-Naturalist* **91**: 77–81.
- Miller, S. D. (1980). *The Ecology of the Bobcat in South Alabama*. PhD thesis, Auburn Univ., Auburn, Alabama.
- Miller, S. D. (1990). Impact of increased bear hunting on survivorship of young bears. *Wildlife Society Bulletin* **18**: 462–467.
- Miller, S. D. (1993). *Impacts of Increased Hunting Pressure on the Density, Structure and Dynamics of Brown Bear Populations in Alaska's Game Management Unit 13*. Alaska: Department of Fish & Game, Fairbanks.
- Miller, S. D. & Ballard, W. B. (1982). Density and biomass estimates for an interior Alaskan brown bear, *Ursus arctos*, population. *Canadian Field-Naturalist* **96**: 448–454.
- Miller, S. D., White, G. C., Sellers, R. A., Reynolds, H. V., Schoen, J. W., Titus, K., Barnes, Jr., V. G., Smith, R. B., Nelson, R. R., Ballard, W. B. & Schwartz, C. C. (1997). Brown and black bear density estimation in Alaska using radiotelemetry and replicated mark-resight techniques. *Wildlife Monographs* **133**: 1–53.
- Mills, J. A. & Servheen, C. (1991). *The Asian Trade in Bears and Bear Parts*. Washington DC: TRAFFIC USA/WWF.
- Mills, L. S., Citta, J. J., Lair, K. P. & Schwartz, M. K. (2000). Estimating animal abundance using non-invasive sampling: promise and pitfalls. *Ecological Applications* **10**: 283–294.
- Mills, L. S. & Knowlton, F. F. (1991). Coyote space use in relation to prey abundance. *Canadian Journal of Zoology* **69**: 1516–1521.
- Mills, L. S. & Smouse, P. E. (1994). Demographic consequences of inbreeding in remnant populations. *American Naturalist* **144**: 412–31.
- Mills, L. S., Hayes, S. G., Baldwin, C., Wisdom, M. J., Citta, J., Mattson, D. J. & Murphy, K. (1996). Factors leading to different viability predictions for a grizzly bear data set. *Conservation Biology* **10**: 863–73.
- Mills, M. G. L. (1985). Hyena survey of Kruger National Park: August–October 1984. Unpublished Report: Kruger National Park.
- Mills, M. G. L. (1991). Conservation management of large carnivores in Africa. *Koedoe* **34**: 81–90.
- Mills, M. G. L. & Biggs, H. C. (1993). Prey apportionment and related ecological relationships between large carnivores in Kruger National Park. *Symposia of the Zoological Society of London* **65**: 253–268.
- Mills, M. G. L., Ellis, S., Woodroffe, R., Madock, A., Stander, P., Rasmussen, G., Pole, A., Fletcher, P., Bruford, M., Wildt, D. E., Macdonald, D. & Seal, U. S. (Eds) (1998). *Population and Habitat Viability Assessment for the African Wild Dog (Lycaon pictus) in Southern Africa*. Apple Valley, MN: IUCN/SSC Conservation Breeding Specialist Group.
- Mills, M. G. L. & Gorman, M. L. (1997). Factors affecting the density and distribution of wild dogs in the Kruger National Park. *Conservation Biology* **11**: 1397–1406.
- Mills, M. G. L. & Hofer, H. (1998). *Hyaenas – Status Survey and Conservation Action Plan*. Gland: IUCN.

- Mills, M. G. L. & Mills, M. E. J. (1982). Factors affecting the movement patterns of brown hyaenas, *Hyaena brunnea*, in the southern Kalahari. *South African Journal of Nature Research* 12: 111–117.
- Mills, M. G. L., Wolff, P., le Riche, E. A. N. & Meyer, I. J. (1978). Some population characteristics of the lion (*Panthera leo*) in the Kalahari Gemsbok National Park. *Koedoe* 21: 163–171.
- Minta, S. C., Kareiva, P. M. & Curlee, A. P. (1999). Understanding the history and theory of carnivore ecology and crafting approaches for research and conservation. In *Carnivores in Ecosystems: The Yellowstone Experience*, eds T. W. Clark, A. P. Curlee, S. C. Minta & P. M. Kareiva, pp. 323–404. New Haven, CT: Yale University Press.
- Minteer, B. A. (1998). No experience necessary? Foundationalism and the retreat from culture in environmental ethics. *Environmental Ethics* 7: 338–348.
- Miquelle, D. M., Merrill, W. T., Dunishenko, Y. M., Smirnov, E. V., Quigley, H. B., Pikunov, D. G. & Hornocker, M. G. (1999). A habitat protection plan for the Amur tiger: developing political and ecological criteria for a viable land-use plan. In *Riding the Tiger: Tiger Conservation in Human-Dominated Landscapes*, eds J. Seidensticker, S. Christie & P. Jackson, pp. 273–295. Cambridge: Cambridge University Press.
- Mishra, C. (1997). Livestock depredation by large carnivores in the Indian trans-Himalaya: conflict perceptions and conservation prospects. *Environmental Conservation* 24: 338–343.
- Miththapala, S., Seidensticker, J. & O'Brien, S. J. (1996). Phylogeographic subspecies recognition in leopards (*Panthera pardus*): molecular genetic variation. *Conservation Biology* 10: 1115–1132.
- Mittermeier, R. A., Myers, N. & Thomsen, J. B. (1998). Biodiversity hotspots and the major tropical wilderness areas: approaches to setting conservation priorities. *Conservation Biology* 12: 516–532.
- Mizutani, F. (1993). Home range of leopards and their impact on livestock on Kenyan ranches. *Symposia of the Zoological Society of London* 65: 425–439.
- Mladenoff, D. J. & Sickley, T. A. (1998). Assessing potential gray wolf restoration in the northeastern United States: a spatial prediction of favorable habitat and potential population levels. *Journal of Wildlife Management* 62: 1–10.
- Mladenoff, D. J., Sickley, T. A., Haight, R. G. & Wydeven, A. P. (1995). A regional landscape analysis and prediction of favorable gray wolf habitat in the northern Great Lakes region. *Conservation Biology* 9: 279–294.
- Mochizuki, M., Akuzawa, M. & Nagatomo, H. (1990). Serological survey of the Iriomote cat (*Felis iriomotensis*) in Japan. *Journal of Wildlife Disease* 26: 236–245.
- Molinari, P. (1998). The lynx in the Italian south-eastern Alps. *Hystrix* 10: 55–64.
- Møller A. P., Dufva, R. & Allander, K. (1993). Parasites and the evolution of host social behavior. *Advances in the Study of Behavior* 22: 65–102.
- Mollison D. & Levin, S. A. (1995). Spatial dynamics of parasitism. In *Ecology of Infectious Diseases in Natural Populations*, eds B. T. Grenfell & A. P. Dobson, pp. 384–398. Cambridge: Cambridge University Press.
- Mollohan, C. M. & LeCount, A. I. (1989). Problems of maintaining a viable black bear population in a fragmented forest. In *Multiresource Management of Ponderosa Pine Forest*, eds A. Tecle, W. W. Covington & R. H. Hamre, pp. 149–159. U.S. Forest Service General Technical Report RM-185.

- Mönkkönen, M. & Reunanen, P. (1999). On critical thresholds in landscape connectivity: a management perspective. *Oikos* **84**: 302–305.
- Montgomery, W. I. (1987). The application of capture–mark–recapture methods to enumeration of small mammal populations. *Symposia of the Zoological Society of London* **58**: 25–57.
- Mooers, A. Ø. & Heard, S. B. (1997). Evolutionary process from phylogenetic tree shape. *Quarterly Review of Biology* **72**: 31–54.
- Moore, D. (1992). Re-establishing large predators. *Re-Introduction News* **4**: 6.
- Moore, D. E., III & Smith, R. (1991). In *Beyond Captive Breeding: Reintroducing Endangered Animals to the Wild*, ed. J. H. W. Gipps, Oxford: Clarendon Press.
- Moore, D. R. J., Breton, R. L. & Lloyd, K. (1997). The effects of hexachlorobenzene on mink in the Canadian environment: an ecological risk assessment. *Environmental Toxicology and Chemistry* **16**: 1042–1050.
- Moore, G. C. & Parker, G. R. (1992). Colonization by the eastern coyote (*Canis latrans*). In *The Ecology and Management of the Eastern Coyote*, ed. Boer, pp. 23–38. Fredericton, New Brunswick: University of New Brunswick Press.
- Moore, T. D., Spencer, L. E. & Dugnette, C. E. (1974). *Identification of the Dorsal Guard Hairs on Some Mammals of Wyoming*. Wyoming Game and Fish Dep. Bull. No. 14.
- Mooring M. S. & Hart, B. L. (1992). Animal grouping for protection from parasites: selfish herd and encounter-dilution effects. Animal grouping for protection from parasites – selfish herd and encounter-dilution effects. *Behaviour* **123**: 173–193.
- Morán, J. F., Saavedra, D. & Ruiz, J. (1998). Veterinary management in the reintroduction of otter (*Lutra lutra*) in northeastern Spain. In *Proceedings of the Second Scientific Meeting of the European Association of Zoo and Wildlife Veterinarians (EAZWV)*, Chester, UK, May 21–24. p. 459.
- Morgan, G. S. & Woods, C. A. (1986). Extinction and the zoogeography of West Indian land mammals. *Biological Journal of the Linnean Society* **28**: 167–203.
- Morin, P. A., Wallis, J., Moore, J. J., Chakraborty, R., Woodruff, D. (1993). Non-invasive sampling and DNA amplification for paternity exclusion, community structure, and phylogeography in wild chimpanzees. *Primates* **34**: 347–356.
- Morin, P. A. & Woodruff, D. S. (1996). Noninvasive genotyping for vertebrate conservation. In *Molecular Genetic Approaches in Conservation*, eds R. K. Wayne & T. B. Smith, pp. 298–313. Oxford: Oxford University Press.
- Moritz, C., Heideman, A., Geffen, E. & McRae, P. (1997). Molecular population genetics of the bilby, *Macrotis lagotis*, a marsupial in decline. *Molecular Ecology* **6**: 925–936.
- Moritz, C. (1994). Defining 'evolutionary significant units' for conservation. *Trends in Ecology and Evolution* **9**: 373–375.
- Moritz, C. (1999). Conservation units and translocations: strategies for conserving evolutionary processes. *Hereditas (Lund)* **130**: 217–228.
- Morrison, D. W., Edmunds, R. M., Linscombe, G. & Goertz, J. W. (1981). Evaluation of specific scent station variables in northcentral Louisiana. *Proceedings of the Annual Conference of the Southeast Association of Fish and Wildlife Agencies* **35**: 281–291.
- Moulton, M. P. (1993). The all-or-none pattern in introduced Hawaiian passeriforms: the role of competition sustained. *American Naturalist* **141**: 105–119.

- Moutou, F. (1995). Re-introducing the brown bear (*Ursus arctos*) in the Pyrenees, France. *Re-Introduction News* 11: 15.
- Mowat, F. (1984). *Sea of Slaughter*. Toronto: McClelland and Stewart.
- Mowbray, E. E., Pursley, D. & Chapman, J. A. (1979). *The Status, Population Characteristics, and Harvest of the River Otter in Maryland*. Md. Dep. Nat. Resour., Wildl. Admin., Pub. Wildl. Ecol. 2. 16 pp.
- Muir, D. C. G., Segstro, M. D., Hobson, K. A., Ford, C. A., Stewart, R. E. A. & Olpinski, S. (1995). Can seal eating explain elevated levels of PCBs and organochlorine pesticides in walrus blubber from eastern Hudson Bay (Canada)? *Environmental Pollution* 90: 335–348.
- Mulder, J. L. (1990). The stoat *Mustela erminea* in the Dutch dune region, its local extinction, and a possible cause: the arrival of the fox *Vulpes vulpes*. *Lutra* 33: 1–21.
- Müller-Graf, C. D. M., Woolhouse, M. E. J. & Packer, C. (1999). Epidemiology of an intestinal parasite (*Spirometra* spp.) in two populations of African lions (*Panthera leo*). *Parasitology* 118: 407–415.
- Munson, L. (1993). Diseases of captive cheetahs (*Acinonyx jubatus*): results of the cheetah research council pathology survey 1989–1992. *Zoo Biology* 12: 105–124.
- Munson, L. (1996). Emerging helicobacter diseases. *Proceedings of the American Association of Zoo Veterinarians*. Nov: 3–8.
- Murcia, C. (1995). Edge effects in fragmented forest: implications for conservation. *Trends in Ecology and Evolution* 10: 58–62.
- Murombedzi, J. C. (1999). Devolution and stewardship in Zimbabwe's CAMPFIRE Programme. *Journal of International Development* 11: 287–293.
- Murphy, K. M. (1983). *Relationships between a mountain lion population and hunting pressure in western Montana*. Unpublished MS thesis, University of Montana, Missoula.
- Murphy, K. M. (1998). *The Ecology of the Cougar (Puma concolor) in the Northern Yellowstone Ecosystem: Interactions with Prey, Bears, and Humans*. PhD dissertation, University of Idaho, Moscow.
- Murray, D. L., Kapke, C. A., Everman, J. F. & Fuller, T. K. (1999). Infectious disease and the conservation of free-ranging large carnivores. *Animal Conservation* 2: 241–254.
- Myers, D. L., Zurbruggen, A., Lutz, H. & Pospischil, A. (1997). Distemper: not a new disease in lions and tigers. *Clinical and Diagnostic Laboratory Immunology* 4: 180–194.
- Myers, N. (1988). Threatened biotas: hotspots in tropical forests. *Environmentalist* 8: 178–208.
- Myers, N. (1990). The biodiversity challenge: expanded hotspot analysis. *Environmentalist* 10: 243–245.
- Myers, N. (1998). Lifting the veil on perverse subsidies. *Nature* 392: 327–328.
- Nader, L. (Ed.) (1996). *Naked Science: Anthropological Inquiry into Boundaries, Power, and Knowledge*. New York: Routledge.
- Nakata, H., Tanabe, S. R., Tatsukawa, M., Amano, N., Miyazaki & Petrov, E. A. (1995). Persistent organochlorine residues and their accumulation in Baikal seal (*Phoca sibirica*) from Lake Baikal, Russia. *Environmental Science and Technology* 29: 2877–2885.

- Nakamura, K. (1989). Notes on distribution and disappearance of the Japanese sea lion (*Zalophus californianus japonicus*). *Nihon-no-Seibutsu* 3: 27–34. (In Japanese.)
- National Planning Commission (1992). *Republic of Namibia 1991 – Population and Housing Census, Preliminary Report*. Windhoek: Central Statistics Office.
- National Research Council. (1997). *Wolves, Bears, and their Prey in Alaska*. Washington: National Academy Press.
- Naves, J., Fernandez, A., Gaona, J. F. & Nores, C. (1996). Use of self-activating cameras to collect faunistic information. *Doñana Acta Vertebrata* 23: 189–199.
- Navidi, W., Arnheim, N. & Waterman, M. S. (1992). A multiple-tube approach for accurate genotyping of very small DNA samples by using PCR: statistical considerations. *American Journal of Human Genetics* 50: 347–359.
- Nee, S. & May, R. M. (1992). Dynamics of metapopulations: habitat destruction and competitive coexistence. *Journal of Animal Ecology* 61: 37–40.
- Nee, S. & May, R. M. (1997). Extinction and the loss of evolutionary history. *Science* 278: 692–694.
- Nee, S., Holmes, E. C., May, R. M. & Harvey, P. H. (1994a). Extinction rates can be estimated from molecular phylogenies. *Philosophical Transactions of the Royal Society of London, series B* 344: 77–82.
- Nee, S., May, R. M. & Harvey, P. H. (1994b). The reconstructed evolutionary process. *Philosophical Transactions of the Royal Society of London, series B* 344: 305–311.
- Neigel, J. E. (1997). A comparison of alternative strategies for estimating gene flow from genetic markers. *Annual Review of Ecology and Systematics* 28: 105–128.
- Nel, L. H., Thomson, G. R. & Von Teichman, B. F. (1993). Molecular epidemiology of rabies virus in South Africa. *Onderstepoort Journal of Veterinary Research* 60: 301–306.
- Nellis, C. H. & Keith, L. B. (1976). Population dynamics of coyotes in central Alberta, 1964–68. *Journal of Wildlife Management* 40: 389–399.
- Nellis, D. W. (1982). Mongoose influence on the ecology of islands. *Transactions of the International Congress of Game Biology* 14: 311–314.
- Nellis, D. W. (1989). *Herpestes auropunctatus*. *Mammalian Species* 342: 1–6.
- Nellis, D. W. & Everard, C. O. R. (1983). The biology of the mongoose in the Caribbean. *Studies on Fauna of Curacao and Caribbean Islands* 64: 1–162.
- Nepal, S. K & Weber, K. E. (1995). The quandary of local people-park relations in Nepal's Royal Chitwan National Park. *Environmental Management* 19: 853–866.
- Nettles, V. F., Shaddock, J. H., Sikes, R. K. & Reyes, C. R. (1979). Rabies in translocated raccoons. *American Journal of Public Health* 69: 601–602.
- Neumann, R. P. (1998). *Imposing Wilderness: Struggles over Livelihood and Nature Preservation in Africa*. Berkeley: University of California Press.
- Newman, A., Bush, M., Wildt, D. E., Van Dam, D., Frankenhuis, M. T., Simmons, L., Phillips, L. & O'Brien, S. J. (1985). Biochemical genetic variation in eight endangered or threatened felid species. *Journal of Mammalogy* 66: 256–267.
- Newman, C. (2000). The enigma of beauty. *National Geographic*, January: 94–121.
- Newmark, W. D. (1995). Extinction of mammal populations in western North American national parks. *Conservation Biology* 9: 512–526.
- Newmark, W. D., Boshe, J. I., Sariko, H. I. & Makumbule, G. K. (1996). Effects of a highway on large mammals in Mikumi National Park, Tanzania. *African Journal of Ecology* 34: 15–31.

- Newsome, A. E. & Corbett, L. (1982). The identity of the dingo. II. Hybridization with domestic dogs in captivity and in the wild. *Australian Journal of Zoology* 30: 365–374.
- Newsome, A. E., Parer, I. & Catling, P. C. (1989). Prolonged prey suppression by carnivores – predator-removal experiments. *Oecologia* 78: 458–467.
- Nicolaus, L. K., Herrera, J., Nicolaus, J. C. & Gustavson, C. R. (1989). Ethynyles-tradiol and generalized aversions to eggs among free-ranging predators. *Applied Animal Behaviour Science* 24: 313–324.
- Nichols, A. O. (1998). Integrating population abundance, dynamics and distribution into broad-scale priority setting. In *Conservation in a Changing World*, eds G. M. Mace, A. Balmford & J. R. Ginsberg, pp. 251–272. Cambridge: Cambridge University Press.
- Nichols, J. D. & Pollock, K. H. (1990). Estimation of recruitment from immigration versus in situ reproduction using Pollock's robust design. *Ecology* 71: 21–26.
- Nielsen, O., Nielson, K. & Steward, R. E. A. (1996). Serologic evidence of *Brucella* spp. exposure in Atlantic walruses. (*Odobenujs rosmarus rosmarus*) and ringed seals (*Phoca hispida*) of Arctic Canada. *Arctic* 49: 383–386.
- Norbury, G. L., Norbury, D. C. & Heyward, R. P. (1998). Behavioral responses of two predator species to sudden declines in primary prey. *Journal of Wildlife Management* 62: 45–58.
- Norell, M. A. (1993). Tree-based approaches to understanding history: comments on ranks, rules and the quality of the fossil record. *American Journal of Science* 293A: 407–417.
- Norstrom, R. J., Simon, M., Muir, D. C. G. & Schweinsburg, R. E. (1988). Organochlorine contaminants in arctic marine food chains: Identification, geographical distribution, and temporal trends in polar bears. *Environmental Science and Technology* 22: 1063–1071.
- Norton, B. G. (1987). *Why Preserve Natural Variety?* Princeton, NJ: Princeton University Press.
- Norton-Griffiths, M. (1975). *Counting Animals*. Nairobi: African Wildlife Leadership Foundation.
- Noss, R. F. (1995). *Maintaining Ecological Integrity in Representative Reserve Networks*. Toronto and Washington DC: World Wildlife Fund, Canada; World Wildlife Fund, USA.
- Noss, R. F., O'Connell, M. A. & Murphy, D. D. (1997). *The Science of Conservation Planning*. Washington, DC: Island Press.
- Noss, R. F., Quigley, H. B., Hornocker, M. G., Merrill, T. & Paquet, P. C. (1996). Conservation biology and carnivore conservation in the Rocky Mountains. *Conservation Biology* 10: 949–63.
- Novak, M. (1987). Wild furbearer management in Ontario. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 1049–1061. North Bay: Ontario Trappers Association.
- Novaro, A. J. (1995). Sustainability of harvest of culpeo fox in Patagonia. *Oryx* 29: 18–22.
- Nowak, R. M. (1976). *The Cougar in the United States and Canada*. New York: New York Zoological Society & U.S. Fish and Wildlife Service.
- Nowak, R. M. (1979). *North American Quaternary Canis*. Kansas: Museum of Natural History, University of Kansas.

- Nowak, R. M. (1991). *Walker's Mammals of the World*, 5th edn. Baltimore: Johns Hopkins University Press.
- Nowak, R. M. (1999). *Walker's Mammals of the World*, 6th edn, vol. 2. Baltimore: The Johns Hopkins University Press.
- Nowak, R. M. & Paradiso, J. L. (1983). *Walker's Mammals of the World*, 4th edn. Baltimore: John Hopkins University Press.
- Nowell, K. & Jackson, P. (1996). *Wild Cats – Status Survey and Conservation Action Plan*. Gland: IUCN.
- Nummi, P. (1996). Wildlife introductions to mammal-deficient areas: the Nordic countries. *Wildlife Biology* 2: 221–226.
- Obbard, M. E., Jones, J. G., Newman, R., Booth, A., Satterthwaite, A. J. & Linscombe, G. (1987). Furbearer harvests in North America. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. E. Baker, M. E. Obbard & B. Malloch, pp. 1007–1034. North Bay: Ontario Trappers Association.
- O'Brien, S. J. (1994a). A role for molecular genetics in biological conservation. *Proceedings of the National Academy of Sciences USA* 91: 5748–5755.
- O'Brien S. J. (1994b). Genetic and phylogenetic analyses of endangered species. *Annual Reviews of Genetics* 28: 467–489.
- O'Brien, S. J. (1995). Genomic prospecting. *Nature Medicine* 1: 742–744.
- O'Brien, S. J. (1998). Intersection of population genetics and species conservation, the cheetah's dilemma. In *Evolutionary Biology*, eds M. K. Hecht, R. J. Macintyre & M. T. Clegg, pp. 79–91. vol. 30. New York: Plenum Press.
- O'Brien, S. J. & Evermann, J. F. (1988). Interactive influence of infectious disease and genetic diversity in natural populations. *Trends in Ecology and Evolution* 3: 254–259.
- O'Brien, S. J., Joslin, P., Smith, G. L., Wolfe, R., Heath, E., Otte-Joslin, J., Rawal, P. P., Bhattacharjee, K. & Martenson, J. S. (1987a). Evidence for African origin of founders of the Asiatic lion species survival plan. *Zoo Biology* 6: 99–116.
- O'Brien, S. J., Martenson, J. S., Eichelberger, M. A., Thorne, E. T. & Wright, F. (1989). Genetic variation and molecular systematics of the black-footed ferret. In *Conservation Biology and the Black-footed Ferret*, eds U. S. Seal, E. T. Thorne, M. A. M. A. Bogan & S. H. Anderson, pp. 21–33. New Haven, CT: Yale University Press.
- O'Brien, S. J., Martenson, J. S., Miththapala, S., Janczewski, D., Pecon-Slattery, J., Johnson, W. E., Gilbert, D. A., Roelke, M., Packer, C., Bush, M. & Wildt, D. E. (1996). Conservation genetics of the Felidae. In *Conservation Genetics: Case Histories from Nature*, eds J. C. Avise & J. L. Hamrick, pp. 50–74. New York: Chapman & Hall.
- O'Brien, S. J., Martenson, J. S., Packer, C., Herbst, L., de Vos, V., Joslin, P., Ott-Joslin, J., Wildt, D. E. & Bush, M. (1987c). Biochemical genetic variation in geographic isolates of African and Asiatic lions. *National Geographic Research* 3: 114–124.
- O'Brien, S. J. & Mayr, E. (1991). Bureaucratic mischief: recognizing endangered species and subspecies. *Science* 251: 1187–1188.
- O'Brien, S. J., Roelke, M. E., Marker, L., Newman, A., Winkler, C. A., Meltzer, D., Colly, L., Evermann, J. F., Bush, M. & Wildt, D. E. (1985). Genetic basis for species vulnerability in the cheetah. *Science* 227: 1428–1434.

- O'Brien, S. J., Roelke, M. E., Yuhki, N., Richards, K. W., Johnson, W. E., Franklin, W. L., Anderson, A. E., Bass, O. L. Jr., Belden, R. C. & Martenson, J. S. (1990). Genetic introgression within Florida panther (*Felis concolor coryi*). *National Geographic Research* 6: 485–494.
- O'Brien, S. J., Wildt, D. E., Bush, M., Caro, T. M., FitzGibbon, C., Aggundey, I., & Leakey, R. E. (1987b). East African cheetahs: evidence for two population bottlenecks? *Proceedings of the National Academy of Science USA* 84: 508–511.
- O'Connell, M. O., Wright, J. M. & Farid, A. (1996). Development of PCR primers for nine polymorphic American mink *Mustela vison* microsatellite loci. *Molecular Ecology* 5: 311–312.
- O'Donoghue, M., Boutin, S., Krebs, C. J., Murray, D. L. & Hofer, E. J. (1998). Behavioural responses of coyotes and lynx to the snowshoe hare cycle. *Oikos* 82: 169–183.
- O'Donoghue, M., Boutin, S., Krebs, C. J. & Hofer, E. J. (1997). Numerical responses of coyotes and lynx to the snowshoe hare cycle. *Oikos* 80: 150–162.
- O'Farrell, T. P. (1987). Kit fox. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 423–431. North Bay: Ontario Trappers Association.
- Ogutu, J. O. & Dublin, H. T. (1998). The response of lions and spotted hyenas to sound playbacks as a technique for estimating population size. *African Journal of Ecology* 36: 83–95.
- Ohta, T. & Kimura, M. (1973). A model of mutation appropriate to estimate the number of electrophoretically detectable alleles in a finite population. *Genetic Research* 22: 201–204.
- Ojasti, J. (1993). Utilizacion de la fauna silvestre en America Latina, situacion y perspectivas para un manejo sostenible. Rome: FAO.
- Okarma, H., Jedrzejewski, W., Schmidt, K., Snieszko, S., Bunevich, A. N. & Jedrzejewski, B. (1998). Home ranges of wolves in Bialowieza Primeval Forest, Poland, compared with other Eurasian populations. *Journal of Mammalogy* 79: 842–852.
- Okoniewski, J. C. & Chambers, R. E. (1984). Coyote vocal response to an electric siren and human howling. *Journal of Wildlife Management* 48: 217–222.
- Oli, M. K. (1994). Snow leopards and blue sheep in Nepal: densities and predator: prey ratio. *Journal of Mammalogy* 75: 998–1004.
- Oli, M. K., Taylor, I. R. & Rogers, M. E. (1994). Snow leopard *Panthera unica* predation of livestock: An assessment of local perceptions in the Annapurna Conservation Area, Nepal. *Biological Conservation* 68: 63–68.
- Oliver, W. A., Jr. & Pedder, A. E. H. (1994). Crises in the Devonian history of the rugose corals. *Paleobiology* 20: 178–190.
- Olson, D. & Dinerstein, E. (1998). The Global 200: A representation approach to conserving the earth's most biologically valuable regions. *Conservation Biology* 12: 502–515.
- Olson, D. M. & Dinerstein, E. (1997). *The Global 200: a representation approach to conserving the Earth's distinctive ecoregions*. Washington, DC: Conservation Science Program Publication, World Wildlife Fund.
- Olson, T. L., Gilbert, B. K. & Squibb, R. C. (1997). The effects of increasing human activity on brown bear use of an Alaskan river. *Biological Conservation* 82: 95–99.

- O'Neill, R. J., O'Neill, M. J. & Graves, J. A. M. (1998). Undermethylation associated with retroelement activation and chromosome remodelling in an interspecific mammalian hybrid. *Nature* **393**: 68–72.
- O'Neill, R. V., Milne, B. T., Turner, M. G. & Gardner, R. H. (1988). Resource utilization scales and landscape pattern. *Landscape Ecology* **2**: 63–69.
- Orians, G., Cochrane, P. A., Duffield, J. W., Fuller, T. K., Guterres, R. J., Hanemann, W. M., James, F. C., Kareiva, P., Kellert, S. R., Klein, D., McClellan, B. N., Olson, P. D. & Yaska, G. (1997). *Wolves, Bears and their Prey in Alaska*. Washington DC: National Academy Press.
- Orlans, F. B. (1997). Ethical decision making about animal experiments. *Ethics and Behavior* **7**: 163–171.
- O'Ryan, C., Harley, E., Bruford, M. W., Beaumont, M., Wayne, R. K. & Cherry, M. I. (1998). Microsatellite analysis of genetic diversity in fragmented South African buffalo populations. *Animal Conservation* **1**: 85–94.
- Osterhaus, A., vandeBilt, M., Vedder, L. *et al.* (1998). Monk seal mortality: virus or toxin? *Vaccine* **16**: 979–981.
- Osterhaus, A. D. M. E., Groen, J., Uytendaele, F. G. C. M., Visser, G., Van de Bilt, M. W. G., Bergmann, A. & Klingeborn, B. (1989). Distemper virus in Baikal seals. *Nature* **338**: 209–210.
- OTA (United States Congress Office of Technology Assessment) (1993). *Harmful Non-indigenous Species in the United States*. OTA-F-565. Washington, DC: U.S. Government Printing Office.
- Owens, D. & Owens, M. (1993). *Cry of the Kalahari*. London: Collins.
- Packard, R. L. & Bowers, J. H. (1970). Distributional notes on some foxes from western Texas and eastern New Mexico. *Southwestern Naturalist* **14**: 450–451.
- Packer, C. (1986). The ecology of sociality in felids. In *Ecological Aspects of Social Evolution: Birds and Mammals*, eds D. I. Rubenstein & R. W. Wrangham, pp. 429–452. Princeton: Princeton University Press.
- Packer, C. (1990). *Serengeti lion survey: report to TANAPA, SWRI, Mweka and the Game Department*. Serengeti Wildlife Research Centre, Seronera, Tanzania.
- Packer, C., Gilbert, D. A., Pusey, A. E. & O'Brien, S. J. (1991a). A molecular genetic analysis of kinship and cooperation in African lions. *Nature* **351**: 562–564.
- Packer, C., Herbst, L., Pusey, A. E., Bygott, J. D., Hanby, J. P., Cairns, S. J. & Borgerhoff-Mulder, M. (1988). Reproductive success in lions. In *Reproductive Success: Studies of Individual Variation in Contrasting Breeding Systems*, ed. T. H. Clutton-Brock, pp. 363–383. Chicago, Illinois: University of Chicago Press.
- Packer, C. & Pusey, A. E. (1983). Adaptations of female lions to infanticide by incoming males. *American Naturalist* **121**: 716–728.
- Packer, C. & Pusey, A. E. (1993). Dispersal, kinship and inbreeding in African lions. In *The Natural History of Inbreeding and Outbreeding*, ed. N. W. Thornhill, pp. 375–391. Chicago: University of Chicago Press.
- Packer, C., Pusey, A. E., Rowley, H., Gilbert, D. A., Martenson, J. & O'Brien, S. J. (1991b). Case study of a population bottleneck: lions of the Ngorongoro Crater. *Conservation Biology* **5**: 219–230.
- Paetkau, D., Calvert, W., Stirling, I. & Strobeck, C. (1995). Microsatellite analysis of population structure in Canadian polar bears. *Molecular Ecology* **4**: 347–354.

- Paetkau, D., Shields, G. F. & Strobeck, C. (1998b). Gene flow between insular, coastal and interior populations of brown bears in Alaska. *Molecular Ecology* 7: 1283–1292.
- Paetkau, D., Waits, L. P., Clarkson, P. L. *et al.* (1998a). Variation in genetic diversity across the range of North American brown bears. *Conservation Biology* 12: 418–429.
- Pagel, M. D. (1992). A method for the analysis of comparative data. *Journal of Theoretical Biology* 156: 431–442.
- Pain, S. (1997). The plague dogs. *New Scientist* 154: 32–37.
- Paloheimo, J. E. & Fraser, D. (1981). Estimation of harvest rate and vulnerability from age and sex data. *Journal of Wildlife Management* 45: 948–958.
- Palomares, F. & Caro, T. M. (1999). Interspecific killing among mammalian carnivores. *American Naturalist* 153: 492–508.
- Palomares, F., Ferreras, P., Fedriani, J. M. & Delibes, M. (1996). Spatial relationships between Iberian lynx and other carnivores in an area of south-western Spain. *Journal of Applied Ecology* 33: 5–13.
- Palomares, F., Gaona, P., Ferreras, P. & Delibes, M. (1995). Positive effects on game species of top predators by controlling smaller predator populations: an example with lynx, mongooses and rabbits. *Conservation Biology* 9: 295–305.
- Pamilo, P. (1990). Comparison of relatedness estimators. *Evolution* 44: 1378–1382.
- Panwar, H. S. (1987). Project tiger: the reserves, the tigers and their future. In *Tigers of the World: The Biology, Biopolitics, Management and Conservation of an Endangered Species*, eds R. L. Tilson & U. S. Seal, pp. 110–117. Park Ridge, NJ: Noyes Publications.
- Paquet, P. C. (1991). Winter spatial relationships of wolves and coyotes in Riding Mountain National Park, Manitoba. *Journal of Mammalogy* 72: 397–401.
- Paquet, P. C. (1992). Prey use strategies of sympatric wolves and coyotes in Riding Mountain National Park, Manitoba. *Journal of Mammalogy* 73: 337–343.
- Paquet, P. C. & Hackman, A. (1995). *Large Carnivore Conservation in the Rocky Mountains*. Toronto, Ontario and Washington, D. C.: World Wildlife Fund Canada and World Wildlife Fund U.S.
- Parker, G. (1995). *Eastern Coyote: The Story of Its Success*. Halifax, NS: Nimbus Publishing.
- Parrish, C. R. (1999). Host range relationships and the evolution of canine parvovirus. *Veterinary Microbiology* 69: 29–40.
- Parsons, D. R. (1998). 'Green fire' returns to the Southwest: reintroduction of the Mexican wolf. *Wildlife Society Bulletin* 26: 799–807.
- Parsons, D. R. (1999). Re-introduction of the Mexican wolf to the southwestern United States. *Re-introduction News* 18: 6.
- Parsons, T. J., Olson, S. L. & Braun, M. J. (1993). Unidirectional spread of secondary sexual plumage traits across an avian hybrid zone. *Science* 260: 1643–1646.
- Pascal, M. (1980). Structure et dynamique de la population de chats haret de l'archipel des Kerguelen. *Mammalia* 44: 161–182. (In French with English summary.)
- Pastoret, J. & Brochier, B. (1998). Epidemiology of rabies in Western Europe. *Veterinary Journal* 156: 83–90.
- Pastoret, P. P. & Brochier, B. (1999). Epidemiology and control of fox rabies in Europe. *Vaccine* 17: 1750–1754.

- Patterson, J. H. (1907). *The Man-Eaters of Tsavo*. London: Macmillan.
- Patton, P. W. (1994). The effect of edge on avian nest success: how strong is the evidence? *Conservation Biology* **8**: 17–26.
- Paxinos E., McIntosh, C., Ralls, K. & Fleischer, R. (1997). A noninvasive method for distinguishing among canid species: amplification and enzyme restriction of DNA from dung. *Molecular Ecology* **6**: 483–486.
- Pearce, D. (2000). Cost-benefit analysis and environmental policy. In *Environmental Policy: Objectives, Instruments & Implementation*, ed. D. Helm. Oxford: Oxford University Press.
- Pearson, O. P. (1964). Carnivore-mouse predation: an example of its intensity and bioenergetics. *Journal of Mammalogy* **45**: 177–188.
- Pearson, S. M. & Gardner, R. H. (1997). Neutral models: useful tools for understanding landscape patterns. In *Wildlife and Landscape Ecology: Effects of Pattern and Scale*, ed. J. A. Bissonette, pp. 215–230. New York: Springer-Verlag.
- Pedersen, N. C., Torten, M., Rideout, B., Sprarker, E., Tonachini, T., Luciw, P. A., Ackley, C., Levy, N. & Yamamoto, J. (1990). Feline leucemia virus infection as a potentiating cofactor for the primary and secondary stages of experimentally induced immunodeficiency virus infection. *Journal of Virology* **64**: 598–606.
- Pech, R. P., Sinclair, A. R. E., Newsome, A. E. & Catling, P. C. (1992). Limits to predator regulation of rabbits in Australia: evidence from predator-removal experiments. *Oecologia* **89**: 102–112.
- Pecon-Slaterry, J. & O'Brien, S. J. (1998). Patterns of X and Y chromosome DNA sequence divergence during the Felidae radiation. *Genetics* **148**: 1245–1255.
- Peek, J. M., Pelton, M. R., Picton, H. D., Schoen, J. W. & Zager, P. (1987). Grizzly bear conservation and management: a review. *Wildlife Society Bulletin* **15**: 160–169.
- Pelton, M. R., Cardoza, J., Conley, B., Dubrock, C. & Lindzey, J. (1978). Census techniques and population indices. In *Proceedings of the 4th Eastern Black Bear Workshop*, ed. R. D. Hugie, pp. 242–250. Greenville, Maine.
- Pelton, M. R. & Marcum, L. C. (1977). The potential use of radioisotopes for determining densities of black bears and other carnivores. In *Proceedings of the 1975 Predator Symposium*, eds R. L. Phillips & C. Jonkel, pp. 221–236. Montana Forest and Conservation Experiment Station, Missoula: University of Montana.
- Pence, D. B. & Windberg, L. A. (1994). Impact of a sarcoptic mange epizootic on a coyote population. *Journal of Wildlife Management* **58**: 624–633.
- Pennycuik, C. J. & Rudnai, J. (1970). A method of identifying individual lions, *Panthera leo*, with the analysis of the reliability of identification. *Journal of Zoology (London)* **160**: 497–508.
- Perry, B. D. (1993). Dog ecology in eastern and southern Africa: implications for rabies control. *Onderstepoort Journal of Veterinary Research* **60**: 429–436.
- Peterman, R. M. (1990). Statistical power analysis can improve fisheries research and management. *Canadian Journal of Fish and Aquatic Sciences* **47**: 2–15.
- Peterson, M. J. (1991). Wildlife parasitism, science, and management policy. *Journal of Wildlife Management* **55**: 782–789.
- Peterson, R. O. (1977). *Wolf Ecology and Prey Relationships on Isle Royale*. U.S. National Park Service Scientific Monograph Series No. 11. Washington, DC.
- Peterson, R. O. (1995). Wolves as interspecific competitors in canid ecology. In *Ecology and Conservation of Wolves in a Changing World*, eds L. N. Carbyn, S. H.

- Fritts & D. R. Seip, pp. 315–323. Canadian Circumpolar Institute Occasional Publications 35.
- Peterson, R. O. & Page, R. E. (1988). The rise and fall of Isle Royale wolves, 1975–1986. *Journal of Mammalogy* 69: 89–99.
- Peterson, R. O., Thomas, N. J., Thurber, J. M., Vucetich, J. A. & Waite, T. A. (1998). Population limitation and the wolves of Isle Royale. *Journal of Mammalogy* 79: 828–841.
- Peterson, R. O., Woolington, J. D. & Bailey, T. N. (1984). Wolves of the Kenai Peninsula. *Wildlife Monographs* 88: 1–52.
- Petren, K. & Case, T. J. (1996). An experimental demonstration of exploitation competition in an ongoing invasion. *Ecology* 77: 118–132.
- Petren, K. & Case, T. J. (1998). Habitat structure determines competition intensity and invasion success in gecko lizards. *Proceedings of the National Academy of Sciences of the United States of America* 95: 11739–11744.
- Pfeifer, M. L., Evermann, J. F., Roelke, M. E., Gallina, A. M., Ott, R. L. & McKeirnan, A. J. (1983). Feline infectious peritonitis in captive cheetah. *Journal of the American Veterinary Medical Association* 183: 1317–1319.
- Philobosin, R. & Ruibal, R. (1971). Conservation of the lizard *Ameiva polops* in the Virgin Islands. *Herpetologica* 27: 450–454.
- Phillips, D. M. (1994). *Social and Spatial Characteristics, and Dispersal of Marten in a Forest Preserve and Industrial Forest*. Unpublished M. S. thesis, University of Maine, Orono.
- Phillips, M. (1992). Red wolves (*Canis rufus*) in N. Carolina. *Re-Introduction News* 4: 7–8.
- Phillips, M. K. & Scheck, J. (1991). Parasitism in captive and reintroduced red wolves. *Journal of Wildlife Diseases* 27: 498–501.
- Phillips, M. K. & Smith, D. W. (1996). *The Wolves of Yellowstone*. Stillwater: Voyageur Press.
- Phillips, M. K. & Smith, D. W. (1997). *Yellowstone Wolf Project Biennial Report 1995–1996*. Yellowstone Center for Resources Document YCR-NR-97-4. Yellowstone, Wyoming.
- Phillips, M. K., Smith, R., Henry, V. G. & Lucash, C. (1995). Red wolf reintroduction program. In *Ecology and Conservation of Wolves in a Changing World*, eds L. N. Carbyn, S. H. Fritts & D. R. Seip, pp. 157–168. Occasional Publication No. 35. Edmonton: Canadian Circumpolar Institute.
- Phythian-Adams, E. G. (1939). The Nilgiri Game Association – 1879–1939. *Journal of the Bombay Natural History Society* 41: 384–396.
- Pielou, E. C. (1991). *After the Ice Age*. Chicago: University of Chicago Press.
- Pils, C. M. (1975). A case against red fox reduction in Wisconsin. *Proceedings of the 1975 Predator Symposium, Mountain, Forestry, and Conservation Experimental Station*, eds R. L. Phillips & C. Jonkel, pp. 87–91. Missoula: University of Montana.
- Pils, C. M., Martin, M. A. & Lange, E. L. (1981). *Harvest, Age Structure, Survivorships, and Productivity of Red Foxes in Wisconsin, 1975–78*. Wisconsin Department of Natural Resources Technical Bulletin No. 124.
- Pimm, S. L. (1991). *The Balance of Nature? Ecological Studies in the Conservation of Species and Communities*. Chicago: University of Chicago Press.

- Pimm, S. L. & Gittleman, J. L. (1990). Carnivores and ecologists on the road to Damascus. *Trends in Ecology and Evolution* 5: 70–73.
- Pimm, S. L. & Lawton, J. H. (1998). Planning for biodiversity. *Science* 279: 2068–9.
- Pimm, S. L., Russell, G. J., Gittleman, J. L. & Brooks, T. M. (1995). The future of biodiversity. *Science* 269: 347–350.
- Plon, U. (1999). Sweden: No to wolf hunting. The Baltic and Nordic News Service, 25–03–99.
- Plowright, W. (1988). Research on wildlife diseases, is a reappraisal necessary? *Revue Scientifique et Technique de l'Office International des Epizooties* 7: 783–795.
- Pocock, R. I. (1930). The lions of Asia. *Journal of the Bombay Natural History Society* 34: 638–665.
- Pollock, K. H. (1981). Capture-recapture models: a review of current methods, assumptions and experimental design. In *Estimating Numbers of Birds. Studies in Avian Biology*, No. 6, ed. R. J. Raitt, pp. 426–435. Lawrence, Kansas: Allen Press.
- Pond, D. B. & O'Gara, B. W. (1994). Chemical immobilization of large mammals. In *Research and Management Techniques for Wildlife and Habitats*, ed. T. A. Bookhout, pp. 125–139. 5th edn. Bethesda: The Wildlife Society.
- Poole, K. G. (1994). Characteristics of an unharvested lynx population during snowshoe hare decline. *Journal of Wildlife Management* 58: 608–618.
- Post, E., Peterson, R.O. Stenseth, N.C. & McLaren, B.E. (1999). Ecosystem consequences of wolf behavioural response to climate. *Nature* 401: 905–907.
- Potvin, F. (1987). Wolf movements and population dynamics in Papineau-Labelle reserve, Quebec. *Canadian Journal of Zoology* 66: 1266–1273.
- Powell, R. A. (1982). *The Fisher: Life History, Ecology, and Behavior*. Minneapolis: University of Minnesota Press.
- Powell, R. A. & Zielinski, W. J. (1994). Fisher. In *The Scientific Basis for Conserving Forest Carnivores: American Marten, Fisher, Lynx, and Wolverine in the Western United States*, eds L. F. Ruggiero, K. B. Aubry, S. W. Buskirk, L. J. Lyon & W. J. Zielinski, pp. 39–73. General Technical Report RM-254. Fort Collins, CO: US Department of Agriculture, Forest Service, and Rocky Mountain Forest and Range Experimental Station.
- Powell, R. A., Zimmerman, J. W., Seaman, D. E. & Gilliam, J. F. (1995). Demographic analyses of a hunted black bear population with access to a refuge. *Conservation Biology* 10: 224–234.
- Prager, M. H. & Fabrizio, M. C. (1990). Comparison of logistic regression and discriminant analysis for stock identification of anadromous fish, with application to striped bass (*Morone saxatilis*) and American shad (*Alosa sapidissima*). *Canadian Journal of Fisheries and Aquatic Science* 47: 1570–1577.
- Prendergast, J. R., Quinn, R. M., Lawton, J. H., Eversham, B. C. & Gibbons, D. W. (1993). Rare species, the coincidence of diversity hotspots and conservation strategies. *Nature* 365: 335–337.
- Prendergast, J. R., Quinn, R. M. & Lawton, J. H. (1999). The gaps between theory and practice in selecting nature reserves. *Conservation Biology* 13: 484–492.
- Pressey, R. L. (1994). Ad hoc reservations: forward or backward steps in developing representative reserve systems? *Conservation Biology* 8: 662–668.
- Pressey, R. L., Humphries, C. J., Margules, C. R., Vane-Wright, R. I. & Williams, P.

- H. (1993). Beyond opportunism: key principles for systematic reserve selection. *Trends in Ecology and Evolution* 8: 124–128.
- Pressey, R. L., Possingham, H. P. & Day, J. R. (1997a). Effectiveness of alternative heuristic algorithms for identifying indicative minimum requirements for conservation reserves. *Biological Conservation* 80: 207–19.
- Pressey, R. L., Possingham, H. P. & Margules, C. R. (1997b). Optimality in reserve selection algorithms: when does it matter and how much. *Biological Conservation* 76: 259–67.
- Prevelt, J. P. & Kolenosky, G. B. (1982). The status of polar bears in Ontario. *Nature Canada (Quebec)* 109: 933–939.
- Previtali, A., Cassini, M. H. & Macdonald, D. W. (1998). Habitat use and diet of the American mink (*Mustela vison*) in Argentinian Patagonia. *Journal of Zoology (London)* 246: 482–486.
- Price, E. O. (1984). Behavioural aspects of animal domestication. *Quarterly Review of Biology* 59: 1–32.
- Priklonski, S. G. (1970). Winter transect count of game animals. *International Congress of Game Biologists* 9: 273–275.
- Primm, S. A. (1993). *Grizzly Conservation in Greater Yellowstone*. MA Thesis, Department of Political Science, University of Colorado, Boulder.
- Primm, S. A. (1996). A pragmatic approach to grizzly bear conservation. *Conservation Biology* 10: 1026–1035.
- Primm, S. A. & Clark, T. W. (1996). Making sense of the policy process for carnivore conservation. *Conservation Biology* 10: 1036–1045.
- Prodöhl, P., Loughry, W., McDonough, C. M., Nelson, W. S., Thompson, E. A. & Avise, J. C. (1998). Genetic maternity and paternity in a local population of armadillos assessed by microsatellite DNA markers and field data. *American Naturalist* 151: 7–19.
- Proulx, G., Kolenosky, A. J., Badry, M. J., Drescher, R. K., Seidel, K. & Cole, P. J. (1994). Post-release movements of translocated fishers. In *Martens, Sables, and Fishers. Biology and Conservation*, eds S. W. Buskirk, A. S. Harestad, M. G. Raphael & R. A. Powell, pp. 197–203. Ithaca: Cornell University Press.
- Pukazhenthi, B. S., Wildt, D. E., Ottinger, M. A. & Howard, J. G. (1996). Compromised sperm protein phosphorylation after capacitation, swim-up and zona pellicula exposure in teratospermic domestic cats. *Journal of Andrology* 17: 409–419.
- Pulliam, H. R. (1988). Sources, sinks, and population regulation. *The American Naturalist* 132: 652–61.
- Purvis, A. (1996). Using interspecific phylogenies to test macroevolutionary hypotheses. In *New Uses for New Phylogenies*, eds P. H. Harvey, A. J. Leigh Brown, A. Maynard, J. Smith & S. Nee, pp. 153–168. Oxford: Oxford University Press.
- Purvis, A., Agapow, P.-M., Gittleman, J. L. & Mace, G. M. (2000a). Non-random extinction and the loss of evolutionary history. *Science* 288: 328–330.
- Purvis, A., Gittleman, J. L., Cowlshaw, G., & Mace, G. M. (2000b). Predicting extinction risk in declining species. *Proceedings of the Royal Society of London, Series B* 267: 1947–1952.
- Purvis, A., Nee, S. & Harvey, P. H. (1995). Macroevolutionary inferences from primate phylogeny. *Proceedings of the Royal Society of London, Series B* 260: 329–333.

- Purvis, A. & Rambaut, A. (1994). Comparative analysis by independent contrasts (CAIC), version 2. Oxford: Oxford University.
- Purvis, A. & Rambaut, A. (1995). Comparative analysis by independent contrasts (CAIC): an Apple Macintosh application for analysing comparative data. *Computer Applications in Bioscience* **11**: 247–251.
- Pusey, A. E. & Packer, C. (1987). The evolution of sex-biased dispersal in lions. *Behaviour* **101**: 275–310.
- Putman, R. J. (Ed.) (1989). *Mammals as Pests*. London: Chapman & Hall.
- Putnam, R. J. (1996). Ethical considerations and animal welfare in ecological field studies. In *Ecologists and Ethical Judgements*, eds N. S. Cooper & R. C. J. Carling, pp. 123–135. London: Chapman & Hall.
- Quammen, D. (1998). *Wild Thoughts from Wild Places*. New York: Scribner.
- Qiu, X. M. & Mainka, S. A. (1993). Review of mortality of the giant panda (*Ailuropoda melanoleuca*). *Journal of Zoo and Wildlife Medicine* **24**: 425–429.
- Quattro, J. M., Avise, J. C. & Vrijenhoek, R. C. (1992). Mode of origin and sources of genotypic diversity in triploid gynogenetic fish clones (*Poeciliopsis*: *Poeciliidae*). *Genetics* **130**: 621–628.
- Queller, D. & Goodnight, K. (1989). Estimating relatedness using genetic markers. *Evolution* **43**: 258–275.
- Quenette, P. Y., Alonso, M., Chayron, L., Cluzel, P., Dubarry, E., Dubreuil, D. & Palazon, S. (1997). First transplantation of brown bear (*Ursus arctos*) in Pyrenees (France). the first results. *11th International Conference on Bear Management & Research, European Session, September 1997, Graz, Austria*. Abstract 60.
- Quick, H. F. (1944). Habits and economics of the New York weasel in Michigan. *Journal of Wildlife Management* **8**: 71–78.
- Quick, H. F. (1956). Effects of exploitation on a marten population. *Journal of Wildlife Management*, **20**: 267–274.
- Quigley, H. B. & Crawshaw, P. G. (1992). A conservation plan for the jaguar *Panthera onca* in the Pantanal region of Brazil. *Biology of Conservation* **61**: 149–157.
- Quinn, N. W. S. & Parker, G. (1987). Lynx. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 683–694. Toronto: Ontario Ministry of Natural Resources.
- Quinn, N. W. S. & Thompson, J. E. (1987). Dynamics of an exploited Canada lynx population in Ontario. *Journal of Wildlife Management* **51**: 297–305.
- Rabinowitz, A. (1986). *Jaguar: One Man's Struggle to Establish the World's First Jaguar Reserve*. New York: Arbor House.
- Rabinowitz, A. (1989). The density and behavior of large cats in a dry tropical forest mosaic in Huai Kha Khaeng Wildlife Sanctuary, Thailand. *Natural History Bulletin of the Siam Society* **37**: 235–251.
- Rabinowitz, A. (1991). *Chasing the Dragon's Tail: The Struggle to Save Thailand's Cats*. New York: Doubleday.
- Rabinowitz, A. (1993). Estimating the Indochinese tiger (*Panthera tigris corbetti*) population in Thailand. *Biological Conservation* **65**: 213–217.
- Rabinowitz, A. (1995). Jaguar conflict and conservation: a strategy for the future. In *Integrating People and Wildlife for a Sustainable Future*, eds J. A. Bissonette & P. R. Krausman, pp. 394–397. Bethesda: The Wildlife Society.
- Rabinowitz, A. (1999). The status of the Indochinese tiger: separating fact from fiction. In *Riding the Tiger: Tiger Conservation in Human-Dominated Landscape*,

- eds J. Seidensticker, S. Christie & P. Jackson, pp. 114–122. Cambridge: Cambridge University Press.
- Ralls, K., Ballou, J. D. & Templeton, A. (1988). Estimates of lethal equivalents and the costs of inbreeding in mammals. *Conservation Biology* 2: 185–193.
- Ralls, K., Demaster, D. P. & Estes, J. A. (1996). Developing a criterion for delisting the southern sea otter under the US endangered species act. *Conservation Biology* 10: 1528–1537.
- Ralls, K. & Eberhardt, L. L. (1997). Assessment of abundance of San Joaquin kit foxes by spotlight surveys. *Journal of Mammalogy* 78: 65–73.
- Ralls, K., Harvey, P. H. & Lyles, A. M. (1985). Inbreeding in natural populations of birds and mammals. In *Conservation Biology: The Science of Scarcity and Diversity*, ed. M. E. Soulé, pp. 35–56. Sunderland, MA: Sinauer Associates, Inc.
- Ralls, K. & White, P. J. (1995). Predation on San Joaquin kit foxes by larger canids. *Journal of Mammalogy* 76: 723–729.
- Rambaut, A., Grassly, N. C., Nee, S. & Harvey, P. H. (1996). Bi-De: an application for simulating phylogenetic processes. *Computer Applications in the Biosciences* 12: 469–471.
- Randi, E., Francisci, F. & Lucchini, V. (1995). Mitochondrial DNA restriction-fragment-length monomorphism in the Italian wolf (*Canis lupus*) population. *Journal of Zoological Systematics and Evolutionary Research* 33: 97–100.
- Randi, E., Gentile, L., Boscagli, G., Huber, D. & Roth, H. U. (1994). Mitochondrial DNA sequence divergence among some west European brown bear (*Ursus arctos*) populations. Lessons of conservation. *Heredity* 73: 480–489.
- Rannala, B. & Mountain, J. (1997). Detecting immigration by using multilocus genotypes. *Proceedings of the National Academy of Sciences of the United States of America* 94: 9197–9201.
- Rao, P. V., Portier, K. M. & Ondrasik, J. A. (1981). Density estimation using line transect sampling. In *Estimating Numbers of Birds. Studies in Avian Biology*, No. 6, ed. R. J. Raitt, pp. 441–444. Lawrence, KS: Allen Press.
- Rappole, J. H., Lopez, D. N., Tewes, M. & Everett, D. (1985). Remote trip cameras as a means for surveying for nocturnal felids. In *Nocturnal Mammals: Techniques for Study*, ed. R. P. Brooks, pp. 45–53. Pennsylvania State University, School of Forest Resources, University Park.
- Rasa, O. A. E. (1983). A case of invalid care in wild dwarf mongoose. *Zeitschrift für Tierpsychologie* 62: 235–240.
- Rasmussen, G. S. A. (1999). Livestock predation by the painted hunting dog, *Lycaon pictus* in a cattle ranching region of Zimbabwe: a case study. *Biological Conservation* 88: 133–139.
- Rauer, G. (1997). Radio-tracking results of three brown bears released by WWF Austria in the Alps of Lower Austria and Styria. *11th International Conference on Bear Management and Research, European Session, September 1997, Graz, Austria*. Abstract 62.
- Raup, D. M. (1991). *Extinction: Bad Genes or Bad Luck?* New York: W.W. Norton & Company.
- Raven, P. H. (1988). Tropical floristics tomorrow. *Taxon* 37: 549–560.
- Ray, J. (in press). Carnivore biogeography and conservation in the African Forest: a community perspective. In *African Rain Forest Ecology and Conservation*, eds W. Weber, L. J. T. White, A. Vedder & L. Naughton-Treves, New Haven, CT: Yale University Press.

- Raymond, M. & Bergeron, J.-M. (1982). Response numerique de l'hermine aux fluctuations d'abondance de *Microtus pennsylvanicus*. *Canadian Journal of Zoology* 60: 542–549.
- Reading, R. P. & Clark T. W. (1996). Carnivore re-introductions: an interdisciplinary examination. In *Carnivore Behavior, Ecology, and Evolution*, vol. 2, ed. J. L. Gittleman, pp. 296–336. Ithaca: Cornell University Press.
- Reading, R. P., Clark, T. W. & Griffith, B. (1997). The influence of valuational and organizational considerations on the success of rare species translocations. *Biological Conservation* 79: 217–225.
- Reading, R. P. & Kellert, S. R. (1993). Attitudes toward a proposed reintroduction of black-footed ferret (*Mustela nigripes*). *Conservation Biology*, 7: 569–580.
- Reading, R. P. & Miller, B. J. (1995). The black-footed ferret recovery program: unmasking professional and organizational weaknesses. In *Endangered Species Recovery. Finding the Lessons, Improving the Process*, eds T. W. Clark, R. P. Reading & A. L. Clarke, pp. 73–100. Washington DC: Island Press.
- Reading, R. P., Mix, H., Lkhagvasuren, B. & Seveenmyadag, N. (1998). The commercial harvest of wildlife in Dornod Aimag, Mongolia. *Journal of Wildlife Management* 62: 59–71.
- Redford, K. H. (1992). The empty forest. *BioScience* 42: 412–422.
- Redhead, T. D., Singleton, G. R., Myers, K. & Coman, B. J. (1991). Mammals introduced to southern Australia. In *Biogeography of Mediterranean Invasions*, eds R. Groves & F. di Castri, pp. 293–308. Cambridge: Cambridge University Press.
- Reed, J., Tollit, D., Thompson, P. & Amos, W. (1997). Molecular scatology: the use of molecular genetic analysis to assign species, sex and individual identity to seal faeces. *Molecular Ecology* 6: 225–234.
- Reed, J. M. & Blaustein, A. P. (1997). Statistical power analysis and amphibian population trends. *Conservation Biology* 11: 273–275.
- Reed, J. M., Murphy, D. D. & Brussard, P. F. (1998). Efficacy of population viability analysis. *Wildlife Society Bulletin* 26: 244–251.
- Reed, R. A., Johnson-Barnard, J. & Baker, W. L. (1996). Contribution of roads to forest fragmentation in the Rocky Mountains. *Conservation Biology* 10: 1098–1106.
- Reeves, R. R. & Ling, J. K. (1981). Hooded seal – *Cystophora cristata*. In *Handbook of Marine Mammals*, vol. 2, eds S. Ridgeway & R. J. Harrison, pp. 171–194. London: Academic Press.
- Regan, T. (1983). *The Case for Animal Rights*. Berkeley: University of California Press.
- Reich, D. E., Wayne, R. K. & Goldstein, D. B. (1999). Genetic evidence for a recent origin by hybridization of red wolves. *Molecular Ecology* 8: 139–114.
- Reid, D. G., Krebs, C. J. & Kenney, A. J. (1997). Patterns of predation on non-cyclic lemmings. *Ecological Monographs* 67: 89–108.
- Reid, W. V. (1998). Biodiversity hotspots. *Trends in Evolution and Ecology* 13: 275–280.
- Reig, S., Daniels, M. J. & Macdonald, D. W. (2001) Craniometric differentiation within wild-living cats in Scotland using 3D morphometrics. *Journal of Zoology (London)*. (In press.)
- Reijnders, P., Brasseur, P., van der Toorn, J., van der Wolf, P., Boyd, I., Harwood, J., Lavigne, D. & Lowry, L. (1993). *Seals, Fur Seals, Sea Lions, and Walrus. Status Survey and Conservation Action Plan*. Gland: IUCN.

- Rejmanek, M. & Richardson, D. M. (1996). What attributes make some plant species more invasive? *Ecology* 77: 1655–1661.
- Rensburg, van, P. J. J., Skinner, J. D. & van Arde, R. J. (1987). Effects of feline leucopaenia on the population characteristics of feral cats on Marion Island. *Journal of Applied Ecology* 24: 65–73.
- Reubel, G. H. Dean, G. A., George, J. W., Barlough, J. E. & Pedersen, N. C. (1994). Effects of incidental infections and immune activation on disease progression in experimentally feline immunodeficiency virus-infected cats. *Journal of Acquired Immune Deficiency Syndromes and Human Retrovirology* 7: 1003–1015.
- Reyers, B., van Jaarsveld, A. S., McGeoch, M. A. & James, A. N. (1998). National biodiversity risk assessment: a composite multivariate and index approach. *Biodiversity and Conservation* 7: 945–65.
- Reynolds, J. (1983). *A Plan for the Re-introduction of Swift Fox to the Canadian Prairies*. Master's thesis, University of Alberta, Calgary.
- Reynolds, J. C. & Tapper, S. C. (1996). Control of mammalian predators in game management and conservation. *Mammalian Review* 26: 127–156.
- Rhodes, C. J., Atkinson, R. P. D., Anderson, R. M. & Macdonald, D. W. (1998). Rabies in Zimbabwe: reservoir dogs and the implications for disease control. *Philosophical Transactions of the Royal Society of London, Series B* 353: 999–1010.
- Rhymer, J. M. & Simberloff, D. (1996). Extinction by hybridization and introgression. *Annual Review of Ecology and Systematics* 27: 83–109.
- Richards, J. F. (1990). Land transformation. In *The Earth Transformed by Human Action*, eds B. L. Turner, II, W. C. Clark, R. W. Kates, J. F. Richards, J. T. Mathews & W. B. Meyer, pp. 163–178. Cambridge: Cambridge University Press.
- Richardson, L., Clark, T. W., Forrest, S. C. & Campbell, III, T. M. (1985). Snow-tracking as a method to search for and study black-footed ferret. In *Proceedings of the Black-Footed Ferret Workshop*, eds S. H. Anderson & D. B. Inkley, pp. 25.1–25.11. Laramie: University of Wyoming.
- Ricklefs, R. E. (1990). *Ecology*, 3rd edn. New York: W. H. Freeman & Co.
- Riedman, M. (1990). *The Pinnipeds*. Berkeley: University of California Press.
- Rieseberg, L. H., Archer, M. A. & Wayne, R. K. (1999). Transgressive segregation, adaptation and speciation. *Heredity* 83: 363–372.
- Rishi, V. (1988). Man, mask and maneater. *Tigerpaper* 15: 9–14.
- Ritland, K. (1996). Estimators for pairwise relatedness and individual inbreeding coefficients. *Genetic Research* 67: 175–185.
- RMAD (1999). Lynx fact sheet. <http://rmad.org/lynxfact.html>
- Robbins, A. H., Borden, M. D., Windmiller, B. S., Niezgod, M., Marcus, L. C., O'Brien, S. M., Kreindel, S. M., McGuill, M. W., DeMaria, A. Jr., Rupprecht, C. E. & Rowell, S. (1998). Prevention of the spread of rabies to wildlife by oral vaccination of raccoons in Massachusetts. *Journal of the American Veterinary Medical Association* 213: 1407–1412.
- Robbins, J. (1997). In two years, wolves reshaped Yellowstone. *New York Times* 147, December 30: B13, F1(1).
- Robinson, J. G. & Redford, K. H. (Eds) (1991). *Neotropical Wildlife Use and Conservation*. Chicago: University of Chicago Press.
- Robinson, J. R. & Bennett, E. L. (1999). *Hunting for Sustainability in Tropical Forests*. New York: Columbia University Press.

- Robinson, J. R., Redford, K. H. & Bennett, E. L. (1999). Wildlife harvest in logged tropical forests. *Science* **284**: 595–596.
- Rodgers, A. (1974). The lion population of the Eastern Selous Game Reserve. *East African Wildlife Journal* **12**: 313–317.
- Rodriguez, A. & Delibes, M. (1992). Current range and status of the Iberian lynx, *Felis pardina* Temminck, 1824 in Spain. *Biological Conservation* **61**: 189–196.
- Rodriguez, E. & Wrangham, R. (1993). Zoopharmacognosy: the use of medicinal plants by animals. In *Phytochemical Potential of Tropical Plants*, eds K. R. Downum *et al.*, pp. 89–105. New York: Plenum Press.
- Roelke, M. E., Martenson, J. S. & O'Brien, S. J. (1993a). The consequences of demographic reduction and genetic depletion in the endangered Florida Panther. *Current Biology* **3**: 340–349.
- Roelke, M. E., Forrester, D. J., Jacobson, E. R., Kollias, G. V., Scott, F. W., Barr, M. C., Evermann, J. F. & Pirtle, E. C. (1993b). Seroprevalence of infectious disease agents in free-ranging Florida panthers (*Felis concolor coryi*). *Journal of Wildlife Diseases* **29**: 36–49.
- Roelke-Parker, M. E., Munson, L., Packer, C., Kock, R., Cleaveland, S., Carpenter, M., O'Brien, S. J., Pospischil, A., Hofmann-Lehmann, R., Lutz, H., Mwamengele, G. L. M., Mgasa, M. N., Machange, G. A., Summers, B. A. & Appel, M. J. G. (1996). A canine distemper virus epidemic in Serengeti lions (*Panthera leo*). *Nature* **379**: 441–445.
- Roemer, G. W., Garcelon, D. K., Coonan, T. J. & Schwemm, C. (1994). The use of capture-recapture methods for estimating, monitoring, and conserving island fox populations. In *4th California Islands Symposium: Update on the Status of Resources*, eds W. L. Halvorson & G. J. Maender, pp. 387–400. Santa Barbara: Santa Barbara Museum of Natural History.
- Rogers, L. L. (1987). Effects of food supply and kinship on social behavior, movements, and population growth of black bears in northeastern Minnesota. *Wildlife Monographs* **97**: 1–72.
- Rolley, R. E. (1987). Bobcat. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 671–681. North Bay: Ontario Trappers Association.
- Rood, J. P. (1987). Dispersal and intergroup transfer in the dwarf mongoose. In *Mammalian Dispersal Patterns: the Effects of Social Structure on Population Genetics*, eds B. D. Chepko-Sade & Z. T. Halpin, pp. 85–103. Chicago: University of Chicago Press.
- Rosatte, R. C. (1987). Skunks. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 599–613. North Bay: Ontario Trappers Association.
- Rose, M. D. & Polis, G. A. (1998). The distribution and abundance of coyotes: the effects of allochthonous food subsidies from the sea. *Ecology* **79**: 998–1007.
- Ross, P. I. & Jalkotzy, M. G. (1992). Characteristics of a hunted population of cougars in south-west Alberta. *Journal of Wildlife Management* **56**: 679–690.
- Ross, P. S., De Swart, R. L., Timmerman, H. H., Reijnders, P. J. H., Vos, J. G., Van Loveren, H. & Osterhaus, A. D. M. E. (1996). Suppression of natural killer cell activity in harbour seals (*Phoca vitulina*) fed Baltic Sea herring. *Aquatic Toxicology* **34**: 71–84.

- Roughton, R. J. (1979). Developments in scent station technology. In *Proceedings of the Midwest Furbearer Conference*, pp. 17–44. Manhattan: Kansas State University, Coop. Ext. Serv.
- Roughton, R. J. & Sweeny, M. W. (1982). Refinements in scent-station methodology for assessing trends in carnivore populations. *Journal of Wildlife Management* 46: 217–229.
- Roy, C. C. (1997). River otter restoration in Kansas. 15th Midwest Furbearer Workshop, Carbondale, Illinois. Abstract.
- Roy, M. S., Geffen, E., Smith, D., Ostrander, E. A. & Wayne, R. K. (1994a). Patterns of differentiation and hybridization in North American wolf-like canids, revealed by analysis of microsatellite loci. *Molecular Biology and Evolution* 11: 553–570.
- Roy, M. S., Geffen, E., Smith, D. & Wayne, R. K. (1996a). Molecular genetics of pre-1940 red wolves. *Conservation Biology* 10: 1413–1424.
- Roy, M. S., Girman, D. J., Taylor, A. C. & Wayne, R. K. (1994b). The use of museum specimens to reconstruct the genetic variability and relationships of extinct populations. *Experientia* 15: 551–557.
- Roy, K., Jablonski, D. & Valentine, J. W. (1996b). Higher taxa in biodiversity studies: patterns from eastern Pacific molluscs. *Philosophical Transactions of the Royal Society of London, Series B* 351: 1605–1613.
- Royama, T. (1992). *Analytical Population Dynamics*. London: Chapman and Hall.
- Rozhnov, V. V. (1993). Extinction of the European mink: ecological catastrophe or natural process? *Lutreola* 1: 10–16.
- Rudnai, J. A. (1973). *The Social Life of the Lion*. Wallingford, PA: Washington Square East Publishers.
- Rudnai, J. (1979). Ecology of lions in Nairobi National Park and the adjoining Kiten-gela Conservation Unit in Kenya. *African Journal of Ecology* 17: 85–95.
- Ruff, F. J. (1939). Region 8 techniques of wildlife inventory. *Transactions of the North American Wildlife Conference* 4: 542–545.
- Rushton, S. P., Barreto, G. W., Cormack, R. M., Macdonald, D. W. & Fuller, R. (2000). Modelling the effects of mink and habitat fragmentation on the water vole. *Journal of Applied Ecology* 37: 1–17.
- Russell, D. N. (1971). History and status of the felids of Texas. In *Proceedings of a Symposium on the Native Cats of North America – Their Status and Management*, eds S. E. Jorgensen & L. D. Mech, Twin Cities, Minnesota: United States Department of the Interior.
- Russell, G. J. (1998). Turnover dynamics across ecological and geological scales. In *Biodiversity Dynamics*, eds M. L. McKinney & J. A. Drake, pp. 377–404. New York: Columbia University Press.
- Russell, G. J., Brooks, T. M., McKinney, M. L. & Anderson, C. G. (1998). Present and future taxonomic selectivity in bird and mammal extinctions. *Conservation Biology* 12: 1365–1376.
- Russell, J. K. (1979). *Reciprocity in the social behavior of coatis (Nasua narica)*. PhD Thesis, University of North Carolina, Chapel Hill.
- Russell, R. H. & Zendran, J. (1983). A proposal to re-introduce the swift fox (*Vulpes velox*) to Alberta. *Canadian Wildlife Service Report*.
- Rybarczyk, W. B., Andrews, R. D., Klass, E. E. & Kienzler, J. M. (1981). Raccoon spotlight survey technique: a potential population trend indicator. In *Proceedings*

- of the *Worldwide Furbearer Conference*, eds J. A. Chapman & D. Pursley, pp. 1413–1430. Frostburg, MD.
- Ryder, O. A. (1986). Species conservation and systematics: the dilemma of subspecies. *Trends in Ecology* 1: 9–10.
- Rylands, A. B. & Keuroghlian, A. (1988). Primate populations in continuous forest and forest fragments in central Amazonia. *Acta Amazónica* 18: 291–307.
- Saberwal, V. K., Gibbs, J. P., Chellam, R. & Johnsingh, A. J. T. (1994). Lion–human conflict in the Gir Forest, India. *Conservation Biology* 8: 501–507.
- Sadleir, R. M. F. S. (1969). The role of nutrition in the reproduction of wild mammals. *Journal of Reproduction And Fertility Supplement* 6: 29–48.
- Safalsky, N. (1994). Ecological limits and opportunities for community-based conservation. In *Natural Connections: Perspectives in Community-Based Conservation*, eds D. Western & R. Wright, pp. 448–471. Washington DC: Island Press.
- Sagor, J. T., Swenson, J. E. & Roskaft, E. (1997). Compatibility of brown bear *Ursus arctos* and free-ranging sheep in Norway. *Biological Conservation* 81: 91–95.
- Samuel, M. D., Garton, E. O., Schlegel, M. W. & Carson, R. G. (1987). Visibility bias during aerial surveys of elk in northcentral Idaho. *Journal of Wildlife Management* 51: 622–630.
- Sandell, M. (1989). The mating tactics and spacing patterns of solitary carnivores. In *Carnivore Behavior, Ecology, and Evolution*, ed. J. L. Gittleman, pp. 164–182. London: Chapman & Hall.
- Sanderson, G. C. (1951a). The status of the raccoon in Iowa for the past twenty years as revealed by fur reports. *Proceedings of the Iowa Academy of Sciences* 58: 527–531.
- Sanderson, G. C. (1951b). Breeding habits and a history of the Missouri raccoon population from 1941 to 1948. *Transactions of the North American Wildlife Conference* 16: 445–461.
- Sanderson, G. C. (1987). Raccoon. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 487–499. Toronto: Ontario Ministry of Natural Resources.
- Santiapillai, C. & Jackson, P. (1990). *The Asian Elephant: An Action Plan for its Conservation*. Gland: IUCN/SSC Asian Elephant Specialist Group.
- Sargeant, A. B. & Allen, S. H. (1989). Observed interactions between coyotes and red foxes. *Journal of Mammalogy* 70: 631–633.
- Sargeant, A. B., Allen, S. H. & Hastings, J. O. (1987). Spatial relationships between sympatric coyotes and red foxes in North Dakota. *Journal of Wildlife Management* 51: 285–293.
- Sargeant, A. B., Greenwood, R. J., Sovada, M. A. & Shaffer, T. L. (1993). *Distribution and Abundance of Predators that Affect Duck Production – Prairie Pothole Region*. USDI Fish and Wildlife Service, Resource Publication No. 194.
- Sargeant, G. A., Johnson, D. H. & Berg, W. E. (1998). Interpreting carnivore scent-station surveys. *Journal of Wildlife Management* 62: 1235–1245.
- Saunders, J. K., Jr. (1961). *The biology of the Newfoundland lynx (Lynx canadensis subsolanus Bangs)*. PhD Thesis, Cornell Univ., Ithaca, New York.
- Sausman, K. (1997). Sand cat: a true desert species. *International Zoo Yearbook* 35: 78–81.
- Savidge, J. A. & Seibert, T. F. (1988). An infrared trigger and camera to identify predators at artificial nests. *Journal of Wildlife Management* 52: 291–294.

- Schaller, G. B. (1967). *The Deer and the Tiger*. Chicago: University of Chicago Press.
- Schaller, G. (1972). *The Serengeti Lion: A Study of Predator-Prey Relations*. Chicago: University of Chicago Press.
- Schaller, G. B. (1983). Mammals and their biomass on a Brazilian ranch. *Arquivos de Zoologia* 31: 1-36.
- Schaller, G. B. (1993). *The Last Panda*. Chicago: University of Chicago Press.
- Schaller, G. B. (1996). Introduction: carnivores and conservation biology. In *Carnivore Behavior, Ecology, and Evolution*, vol. 2, ed. J. L. Gittleman, pp. 1-10. Ithaca: Cornell University Press.
- Schaller, G. B. (1998). *Wildlife of the Tibetan Steppes*. Chicago: University of Chicago Press.
- Schaller, G. B. & Crawshaw, Jr. P. G. (1980). Movement patterns of jaguar. *Biotropica* 12: 161-168.
- Schaller, G. B., Hu, J., Pan, W. & Zhu, J. (1985). *The Giant Pandas of Wolong*. Chicago: University of Chicago Press.
- Scheel, D. & Packer, C. (1991). Group hunting behaviour of lions: a search for cooperation. *Animal Behaviour* 41: 697-709.
- Scheepers, J. L. & Venzke, K. A. E. (1995). Attempts to reintroduce African wild dogs *Lycaon pictus* into Etosha National Park, Namibia. *South African Journal of Wildlife Research* 25: 138-140.
- Schemnitz, S. D. (1994). Capturing and handling wild animals. In *Research and Management Techniques for Wildlife and Habitats*, 5th edn, ed. T. A. Bookhout, pp. 106-124. Bethesda: The Wildlife Society.
- Schitoskey, F. (1975). Primary and secondary hazards of three rodenticides to kit fox. *Journal of Wildlife Management* 39: 416-417.
- Schmidt, G. (1993). *Progress Report of Riding Mountain National Park American Pine Marten Reintroduction Program 1992-93*. Parks Canada, Riding Mountain National Park.
- Schmidt, K. (1998). Maternal behaviour and juvenile dispersal in the Eurasian lynx. *Acta Theriologica* 43: 391-408.
- Schmidt, R. H. (1985). Controlling arctic fox populations with introduced red foxes. *Wildlife Society Bulletin* 13: 592-594.
- Schneider, R. R. & Yodzis, P. (1994). Extinction dynamics in the American marten (*Martes americana*). *Conservation Biology* 8: 1058-1068.
- Schoener, T. W. (1977). Competition and the niche. In *Biology of the Reptilia*, vol. 7, *Ecology*, eds A. C. Gans & D. W. Tinkle, pp. 35-136. New York: Academic Press.
- Schoener, T. W. (1983). Field experiments on interspecific competition. *American Naturalist* 122: 240-285.
- Schonewald-Cox, C., Aari, R. & Blume, S. (1991). Scale, variable density, and conservation planning for mammalian carnivores. *Conservation Biology* 5: 491-495.
- Schowalter, D. B. & Gunson, J. R. (1982). Parameters of population and seasonal activity of striped skunks, *Mephitis mephitis*, in Alberta and Saskatchewan. *Canadian Field-Naturalist* 96: 409-420.
- Schrag, S. J. & Wiener, P. (1995). Emerging infectious disease: what are the relative roles of ecology and evolution? *Trends in Ecology and Evolution* 10: 319-324.
- Schreiber, A., Wirth, R., Riffel, M. & Van Rompaey, H. (Eds) (1989). *Weasels, Civets, Mongooses and their Relatives. An Action Plan for the Conservation of Mustelids and Viverrids*. Gland: IUCN.

- Schubert, C. A., Barker, I. K., Rosatte, R. C., MacInnes, C. D. & Nudds, T. D. (1998a). Effect of canine distemper on an urban raccoon population: an experiment. *Ecological Applications* 8: 379–387.
- Schubert, C. A., Rosatte, R. C., MacInnis, C. D. & Nudds, T. D. (1998b). Rabies control: an adaptive management approach. *Journal of Wildlife Management* 62: 622–629.
- Schwartz, M. (1997). *A History of Dogs in the Early Americas*. New Haven, CT: Yale University Press.
- Schwartz, M., Tallmon, D. & Luikart, G. (1998). Review of DNA-based census and effective population size estimators. *Animal Conservation* 1: 293–299.
- Schwartz, M. K., Tallmon, D. A. & Luikart, G. (1999). DNA-based methods for estimating population size: many methods, much potential, uncertain utility. *Animal Conservation* 2: 321–323.
- Schwarzkopf, L. & Rylands, A. B. (1989). Primate species richness in relation to habitat structure in Amazonian rainforest fragments. *Biological Conservation* 48: 1–12.
- Scott, J. M., Murray, D. & Griffith, B. (1999). Lynx reintroduction. *Science* 286: 49–55.
- Scott, R. F., Kenyon, K. W., Buckley, J. L. & Olson, S. T. (1959). Status and management of the polar bear and pacific walrus. *Transactions of the North American Wildlife Conference* 24: 366–374.
- Scott-Brown, J. M., Herrero, S. & Reynolds, J. (1987). Swift fox. In *Wild Furbearer Conservation and Management in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Molloch, pp. 432–441. Toronto: Ontario Ministry of Natural Resources.
- Seal, U. S. (Ed.) (1994). *A Plan for Genetic Restoration and Management of the Florida Panther (Felis concolor coryi)*. Report to the Florida Game and Fresh Water Fish Commission. Apple Valley, MN: Conservation Breeding Specialist Group.
- Seal, U. S., Jackson, P. & Tilson, R. L. (1987). A Global tiger Conservation Plan. In *Tigers of the World*, eds R. L. Tilson & U. S. Seal, pp. 487–498. Park Ridge, NJ: Noyes Publications.
- Seber, G. A. F. (1982). *The Estimation of Animal Abundance and Related Parameters*, 2nd edn. London: Griffin.
- Seddon, P. J. (1999). Reintroductions, introductions, and the importance of post-release monitorings: lessons from Zanzibar. *Oryx* 33: 89–90.
- Seidel, J. (1998). Clawmarks. *Colorado Division of Wildlife* 1: 1–4.
- Seidel, J., Andree, B., Berlinger, S., Byrne, G., Gill, B., Kenvin, D. & Reed, D. (1998). *Draft Strategy for Conservation and Reestablishment of Lynx and Wolverine in the Southern Rocky Mountains*. Denver: Colorado Division of Wildlife.
- Seidensticker, J. (1976). On the ecological separation between tigers and leopards. *Biotropica* 8: 225–234.
- Seidensticker, J. (1986). Large carnivores and the consequences of habitat insularization: Ecology and conservation of tigers in Indonesia and Bangladesh. In *Cats of the World: Biology, Conservation, and Management*, eds S. D. Miller & D. D. Everett, pp. 1–41. Washington: National Wildlife Federation.
- Seidensticker, J., Christie, S. & Jackson, P. (Eds) (1999). *Riding the Tiger: Tiger Conservation in Human-Dominated Landscapes*. New York: Cambridge University Press.

- Seidensticker, J. C., IV, Hornocker, M. G., Wiles, W. V. & Messick, J. P. (1973). Mountain lion social organization in the Idaho Primitive Area. *Wildlife Monographs* 35: 1-60.
- Seidensticker, J. & Lumpkin, S. (1992). *Great Cats*. London: Merehurst.
- Seidensticker, J., Sunquist, M. & McDougal, C. (1990). Leopards living at the edge of Royal Chitwan National Park, Nepal. In *Conservation in Developing Countries: Problems and Prospects*, eds J. C. Daniel & J. S. Serrao, pp. 415-423. Proceedings of the Centenary Seminar of the Bombay Natural History Society. Bombay: Oxford University Press.
- Sepkoski Jr, J. J. (1991). Population biology models in macroevolution. In *Analytical Paleobiology: Short Courses in Paleontology*, No. 4, eds N. L. Gilinsky & P. W. Signor, pp. 136-156. A Publication of the Paleontological Society.
- Sepkoski Jr, J. J. (1998). Rates of speciation in the fossil record. *Proceedings of the Royal Society of London, Series B* 353: 315-326.
- Serfass, T. L. (1998). River otter *Lutra canadensis* re-introduction: a conflict in New York, USA. *Re-introduction News* 16: 11-2.
- Serfass, T. L., Brooks, R. P., Novak, J. M., Johns, P. E. & Rhodes, O. E., Jr. (1998). Genetic variation among populations of river otters in North America: considerations for reintroduction projects. *Journal of Mammalogy* 79: 736-746.
- Serpell, J. (1991). Playing favourites: analysis of results of BBC Wildlife's favourite animal survey. *BBC Wildlife*, December.
- Servheen, C., Herrero, S. & Peyton, B. (1999). *Bears - Status Survey and Conservation Action Plan*. Gland: IUCN.
- Seton, E. T. (1909). *The Arctic Prairies*. New York: Charles Scribner's Sons.
- Seymour, K. L. (1989). *Panthera onca*. *Mammalian Species* 340: 1-9.
- Shaffer, M. L. (1981). Minimum population sizes for species conservation. *BioScience* 31: 131-134.
- Shaffer, M. L. (1983). Determining minimum viable population sizes for grizzly bear. *International Conference Bear Research & Management* 5: 133-139.
- Shaffer, M. L. (1992). Keeping the grizzly bear in the American West: a strategy for real recovery. Washington: The Wilderness Society.
- Shahi, S. P. (1983). Status of the grey wolf (*Canis lupus pallipes*, Sykes) in India. *Acta Zoologica Fennica* 174: 283-286.
- Shankaranayanan, P., Banjeree, M., Kacker, R. K., Aggarwal, R. K. & Singh, L. (1997). Genetic variation in Asiatic lions and Indian tigers. *Electrophoresis* 18: 1693-1700.
- Shankaranayanan, P. & Singh, L. (1998). Mitochondrial DNA sequence divergence among big cats and their hybrids. *Current Science* 75: 919-923.
- Shaughnessy, P. D. & Fletcher, L. (1987). Fur seals, *Arctocephalus* spp., at Macquarie Island. In *Status, Biology, and Ecology of Fur Seals*, eds J. P. Croxall & R. L. Gentry, pp. 177-187. NOAA Technical Report NMFS. 51.
- Shaughnessy, P. D. & Payne, A. I. L. (1979). Incidental mortality of cape fur seals during trawl fishing activities in South African waters. *Fisheries Bulletin (South Africa)* 12: 20-25.
- Shaw, J. H. (1993). The outlook for sustainable harvest of wildlife in Latin America. In *Neotropical Wildlife Use and Conservation*, eds J. G. Robinson & K. H. Redford, pp. 24-34. Chicago: University of Chicago Press.

- Shea, K. & NCEAS Working Group on Population Management (1998). Management of populations in conservation, harvesting and control. *Trends in Ecology and Evolution* **13**: 371–375.
- Sherburne, S. S. & Bissonette, J. A. (1994). Marten subnivean access point use: response to subnivean prey levels. *Journal of Wildlife Management* **58**: 400–405.
- Shieff, A. & Baker, J. A. (1987). Marketing and international fur markets. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 862–877. Toronto: Ontario Trappers Association North Bay.
- Shields, G. F. & Kocher, T. D. (1991). Phylogenetic relationships of North American ursids based on analysis of mitochondrial DNA. *Evolution* **45**: 218–221.
- Shields, W. M. (1987). Dispersal and mating systems: Investigating their causal connections. In *Mammalian Dispersal Patterns*, eds B. D. Chepko-Sade & Z. T. Halpin, pp. 3–24. Chicago: University of Chicago Press.
- Shigesada, N. & Kawasaki, K. (1997). *Biological Invasions: Theory and Practice*. Oxford: Oxford University Press.
- Short, J., Bradshaw, S. D., Giles, J., Prince, R. I. T. & Wilson, G. R. (1992). Reintroduction of macropods (*Marsupialia: Macropodoidea*) in Australia – a review. *Biological Conservation* **62**: 189–204.
- Short, J., Turner, B., Risbey, D. A. & Carnamah, R. (1997). Control of feral cats for nature conservation. II. Population reduction by poisoning. *Wildlife Research*, 703–714.
- Shortridge, G. C. (1934). *The Mammals of South-West Africa*. London: William Heinemann Ltd.
- Shriver, M. D., Smith, M. W., Jin, L., Marcini, A., Akey, J. M., Deka, R. & Ferrell, R. E. (1997). Ethnic-affiliation estimation by use of population-specific DNA markers. *American Journal of Human Genetics* **60**: 957–964.
- Sidorovich, V. E., Kruuk, H. & Macdonald, D. W. (1999). Body size, and interactions between European and American mink (*Mustela lutreola* and *M. vison*) in Eastern Europe. *Journal of Zoology (London)* **248**: 521–527.
- Sidorovich, V., Kruuk, H., Macdonald, D. W. & Maran, T. (1998). Diets of semi-aquatic carnivores in northern Belarus, with implications for population changes. In *Behaviour and Ecology of Riparian Mammals*, eds N. Dunstone & M. Gorman, pp. 177–189. Cambridge: Cambridge University Press.
- Sillero-Zubiri, C. & Gottelli, D. (1991). Aberdare rhinos: predation versus poaching. *Pachyderm* **14**: 37–38.
- Sillero-Zubiri, C. & Gottelli, D. (1993). Population ecology of spotted hyaena in an equatorial mountain forest. *African Journal of Ecology* **30**: 292–300.
- Sillero-Zubiri, C. (1996). *Ajag versus Banteng: a Conservation Dilemma*. Unpublished report. Oxford: IUCN/SSC Canid Specialist Group.
- Sillero-Zubiri, C., King, A. A. & Macdonald, D. W. (1996). Rabies and mortality in Ethiopian wolves (*Canis simensis*). *Journal of Wildlife Diseases* **32**: 80–86.
- Sillero-Zubiri, C. & Macdonald, D. W. (Eds) (1997). *The Ethiopian Wolf: Status Survey and Conservation Action Plan*. Gland: IUCN Canid Specialist Group.
- Simberloff, D. (1981). Community effects of introduced species. In *Biotic Crises in Ecological and Evolutionary Time*, ed. M. Nitecki, pp. 53–81. New York: Academic Press.

- Simberloff, D. (1986). The proximate causes of extinction. In *Patterns and Processes in the History of Life*, eds D. M. Raup & D. Jablonski, pp. 259–276. Heidelberg: Springer-Verlag.
- Simberloff, D. (1995). Why do introduced species appear to devastate islands more than mainland areas? *Pacific Science* 49: 87–97.
- Simberloff, D. (1996). Hybridization between native and introduced wildlife species: importance for conservation. *Wildlife Biology* 2: 143–150.
- Simberloff, D. & Cox, J. (1987). Consequences and costs of conservation corridors. *Conservation Biology* 1: 63–71.
- Simms, D. A. (1979). Studies of an ermine population in southern Ontario. *Canadian Journal of Zoology* 57: 824–832.
- Simon, H. A. (1983). *Reason in Human Affairs*. Stanford: Stanford University Press.
- Simonetti, J. A. (1995). Wildlife conservation outside parks is a disease-mediated risk. *Conservation Biology* 9: 454–456.
- Simonsen, V. (1982). Electrophoretic variation in large mammals. II. the red fox, *Vulpes vulpes*, the stoat, *Mustela putorius*, the pine marten, *Martes martes*, the beech marten, *Martes foina*, and the badger, *Meles meles*. *Hereditas* 96: 299–305.
- Simpson, G. G. (1953). *The Major Features of Evolution*. New York: Columbia University Press.
- Sinclair, A. R. E. (1989). Population regulation in animals. In *Ecological Concepts*, eds J. Cherrett & A. Bradshaw, pp. 197–241. Oxford: Blackwell Scientific Publications.
- Sinclair, A. R. E. (1995). Serengeti past and present. In *Serengeti II: Dynamics, Conservation and Management of an Ecosystem*, eds A. R. E. Sinclair & P. Arcese, pp. 3–30. Chicago: University of Chicago Press.
- Sinclair, A. R. E., Pech, R. P., Dickman, C. R., Hik, D., Mahon, P. & Newsome, A. E. (1998). Predicting effects of predation on conservation of endangered prey. *Conservation Biology* 12: 563–575.
- Singer, P. (1990). *Animal Liberation*. New York: New York Review of Books.
- Singer, S. F. (1994). Problems and strategies in the scientific management of fisheries and marine mammals: from the ‘tragedy of the commons’ to an era of sustainable development. *Environmental Conservation* 21: 184–185.
- Singh, A., Ramachandran, B., Fosnight, G., Chenoweth, S. & Crawford, T. (1998). Biodiversity-Rich Ecoregions in Africa Need Protection. <http://grid2.cr.usgs.gov/publications/biodiversity/biodiversity.html>
- Singh, H. S. & Kamboj, R. D. (1996). Predation pattern of the Asiatic lion on domestic livestock. *Indian Forester* 122: 869–876.
- Singh, V. B. (1991). How man-eating started in the Corbett. *Indian Forester* 117: 799–803.
- Sjöåsen, T. (1995). Re-introduction of European otters in Sweden. *Re-Introduction News* 10: 10–1.
- Sjöåsen, T. & Sandegren, F. (1992). Reintroduction of Eurasian otters (*Lutra lutra*) in southern Sweden 1987–1992: a project in progress. In *Habitat 7: Otterschutz in Deutschland*, ed. C. Reuter, pp. 143–146. Hankensbüttel.
- Skalski, J. R. A. & Robson, D. S. (1992). *Techniques for Wildlife Investigations*. London: Academic Press.
- Skalski, J. R., Simmons, M. A. & Robson, D. S. (1984). The use of removal sampling in comparative censuses. *Ecology* 65: 1006–1015.

- Skead, C. J. (1987). *Historical Mammal Incidence in the Cape Province*, vol. 2, *The Eastern Half of the Cape Province, including the Ciskei, Transkei and East Griqualand*. Cape Town: Department of Nature and Environmental Conservation.
- Skinner, C. A., Skinner, P. J. & Harris, S. (1991). An analysis of some of the factors affecting the current distribution of badger *Meles meles* setts in Essex. *Mammal Review* 21: 51–65.
- Skinner, J. D. & Smithers, R. H. N. (1990). *The Mammals of the Southern African Subregion*, 2nd edn. Pretoria: Pretoria University Press.
- Skirrow, M. B. (1994). Diseases due to *Campylobacter*, *Helicobacter*, and related bacteria. *Journal of Comparative Pathology* 111: 113–149.
- Slate, J., Marshall, T. & Pemberton, J. (2000). A retrospective assessment of the accuracy of the paternity inference program CERVUS. *Molecular Ecology* 9: 801–808.
- Slatkin, M. (1985). Gene flow in natural populations. *Annual Review of Ecology and Systematics* 16: 393–430.
- Slatkin, M. (1987). Gene flow and the geographic structure of natural populations. *Science* 236: 787–792.
- Slatkin, M. (1994). Gene flow and population structure. In *Ecological Genetics*, ed. L. A. Real, pp. 3–17. Princeton: Princeton University Press.
- Sleeman, D. P. (1992). Long-distance movements in an Irish badger population. In *Wildlife Telemetry*, eds I. G. Priede & S. M. Swift, pp. 670–676. Chichester: Ellis Horwood.
- Sleeman, D. P. & Mulcahy, M. F. (1993). Behavior of Irish badgers in relation to bovine tuberculosis. In *The Badger*, ed. T. J. Hayden, Dublin: Royal Irish Academy.
- Slooten, E. & Dawson, S. M. (1995). Conservation of marine mammals in New Zealand Pacific. *Conservation Biology* 2: 64–76.
- Slough, B. G. (1994). Translocation of American martens: an evaluation of factors in success. In *Martens, Sables, and Fishers. Biology and Conservation*, eds S. W. Buskirk, A. S. Harestad, M. G. Raphael & R. A. Powell, pp. 165–178. Ithaca: Cornell University Press.
- Slough, B. G. & Smits, C. M. (1985). *Yukon Marten Management, Progress to August, 1985*. Whitehorse: Yukon Department of Renewable Resources Progress Report.
- Smal, C. M. (1991). Population studies on feral mink *Mustela vison* in Ireland. *Journal of Zoology (London)* 224: 233–249.
- Smallwood, K. S. (1999). Scale domains of abundance amongst species of mammalian Carnivora. *Environmental Conservation* 26: 102–11.
- Smallwood, K. S. & Fitzhugh, E. L. (1993). A rigorous technique for identifying individual mountain lions, *Felis concolor*, by their tracks. *Biological Conservation* 65: 51–59.
- Smallwood, K. S. & Fitzhugh, E. L. (1995). A track count for estimating mountain lion, *Felis concolor californica*, population trend. *Biological Conservation* 71: 251–259.
- Smallwood, K. S. & Schonewald, C. (1996). Scaling population density and spatial pattern for terrestrial, mammalian carnivores. *Oecologia* 105: 329–335.
- Smallwood, K. S. & Schonewald, C. (1998). Study design and interpretation of mammalian carnivore density estimates. *Oecologia* 113: 474–491.
- Smith, A. B. (1994). *Systematics and the Fossil Record*. Oxford: Blackwell Scientific.

- Smith, A. P. & Quin, D. G. (1996). Patterns and causes of extinctions and decline in Australian conilurine rodents. *Biological Conservation* 77: 243–267.
- Smith, B. L. (1995). Education to promote male-selective harvest of grizzly bears in the Yukon. In *Integrating People and Wildlife for a Sustainable Future*, eds J. A. Bissonette & P. R. Krausmann, pp. 156–174. Bethesda: The Wildlife Society.
- Smith, D., Meier, T., Geffen, E. *et al.* (1997). Is inbreeding common in wolf packs? *Behavioral Ecology* 8: 384–391.
- Smith, D. J., Harris, L. D. & Mazzaotti, F. J. (1996). A landscape approach to examining the impacts of roads on the ecological function associated with wildlife movement and movement corridors: Problems and solutions. In *Proceedings of the Transportation Related Wildlife Mortality Seminar*, eds G. L. Evink, P. Garrett, D. Zeigler & J. Berry, pp. 58–96. FL-ER. Tallahassee: Florida Department of Transportation.
- Smith, D. W. & Phillips, M. K. (2000). Gray wolf. In *Endangered Species: Conflict and Context*, eds R. P. Reading & B. J. Miller, pp. Westport, CT: Greenwood Press.
- Smith, H. S. (1935). The role of biotic factors in the determination of population densities. *Journal of Economic Entomology* 28: 873–898.
- Smith, J. L. D. (1993). The role of dispersal in structuring the Chitwan tiger population. *Behaviour* 124: 165–195.
- Smith, J. L. D., Tunhikorn, S., Tanhan, S. & Simcharoen, S. (1999). Metapopulation structure of tigers in Thailand. In *Riding the Tiger: Tiger Conservation in Human-Dominated Landscape*, eds J. Seidensticker, S. Christie & P. Jackson, pp. 114–122. Cambridge: Cambridge University Press.
- Smith, J. S. (1989). Rabies virus epitopic variation: use in ecologic studies. *Advances in Virus Research* 36: 215–253.
- Smith, J. S., Sumner, J. W., Roumillat, L. F., Baer, G. M. & Winkler, W. G. (1984). Antigenic characteristics of isolates associated with a new epizootic of raccoon rabies in the United States. *Journal of Infectious Diseases* 149: 769–774.
- Smith, K. G. & Clark, J. D. (1996). Black bears in Arkansas: characteristics of a successful translocation. *Journal of Mammalogy* 75: 309–20.
- Smith, K. G., Clark, J. D. & Gipson, P. S. (1990). History of black bears in Arkansas: overexploitation, near elimination, and successful re-introduction. *Eastern Workshop on Black Bear Research and Management*. 10: 5–14.
- Smith, N. J. H. (1976). Spotted cats and the Amazon skin trade. *Oryx* 13: 362–371.
- Smith, W. P., Borden, D. L. & Endres, K. M. (1994). Scent-station visits as an index to abundance of raccoons: an experimental manipulation. *Journal of Mammalogy* 75: 637–647.
- Smithers, R. H. N. (1983). *The Mammals of the Southern African Subregion*. Pretoria: University of Pretoria.
- Smithsonian Institute (1993). Mammal species of the world web site <http://nmnhwww.si.edu/cgi-bin/wdb/msw/names>
- Smouse, P. E. & Chevillon, C. (1998). Analytical aspects of population-specific DNA fingerprinting for individuals. *Journal of Heredity* 89: 143–150.
- Smuts, G. L. (1976). Population characteristics and recent history of lions in two parts of Kruger National Park. *Koedoe* 19: 153–164.
- Smuts, G. L. (1978). Effects of population reduction on the travels and reproduction of lions in Kruger National park. *Carnivore* 1 (Part 2): 61–72.

- Smuts, G. L. (1982). *Lion*. Johannesburg: MacMillan South Africa.
- Snyder, J. E. & Bissonette, J. A. (1987). Marten use of clear-cuttings and residual forest stands in western Newfoundland. *Canadian Journal of Zoology* 65: 169–74.
- Sober, E. (1986). Philosophical problems for environmentalism. In *The Preservation of Species: The Value of Biological Diversity*, ed. B. G. Norton, pp. 173–194. Princeton, New Jersey: Princeton University Press.
- Soorae, P. S. (1997). Wild dog release in Tsavo National Park, Kenya. *Re-Introduction News* 14: 11–2.
- Soorae, P. S. & Stanley Price, M. R. (1997). Successful re-introductions of large carnivores what are the secrets? *11th International Conference on Bear Research and Management in Graz, Austria, September 1997*.
- Sørensen, O. J., Swenson, J. E. & Kvam, T. (1999). Status and management of the brown bear in Norway. In *Bears – Status Survey and Conservation Action Plan*, eds C. Servheen, S. Herrero & B. Peyton, pp. 86–89. Gland: IUCN.
- Soulé, M. E. (1983). What do we really know about extinction? In *Genetics and Conservation*, eds C. M. Schonewald-Cox, S. M. Chambers, B. MacBryde & L. Tomas, pp. 111–124. Menlo Park, CA: Benjamin/Cummings.
- Soulé, M. E. (1985). What is conservation biology? *BioScience* 35: 727–34.
- Soulé, M. E. (Ed.) (1986). *Conservation Biology: The Science of Scarcity and Diversity*. Sunderland, MA: Sinauer Associates.
- Soulé, M. E. (1987). *Viable Populations for Conservation*. Cambridge: Cambridge University Press.
- Soulé, M. E. (1990). The onslaught of alien species, and other challenges in the coming decades. *Conservation Biology* 4: 233–239.
- Soulé, M. E., Bolger, D. T., Alberts, A. C., Wright, J., Sorice, M. & Hill, S. (1988). Reconstructed dynamics of rapid extinctions of chaparral-requiring birds in urban habitat islands. *Conservation Biology* 2: 75–92.
- Soulé, M. E. & Noss, R. F. (1998). Rewilding and biodiversity's complementary goals for continental conservation. *Wild Earth* 8: 18–28.
- Soulé, M. E. & Terborgh, J. (1999). *Continental Conservation: Scientific Foundations for Regional Reserve Networks*. Washington, DC: Island Press.
- Soulé, M. E. & Wilcox, B. A. (Eds) (1980). *Conservation Biology: An Evolutionary-Ecological Perspective*. Sunderland MA: Sinauer Associates.
- Sovada, M. A., Roy, C. C., Bright, J. B. & Gillis, J. R. (1998). Causes and rates of mortality of swift foxes in western Kansas. *Journal of Wildlife Management* 62: 1300–1306.
- Spelman, L. H. (1998). North American river otter (*Lutra canadensis*) translocation in North Carolina 1989–96. *Proceedings of the Second Scientific Meeting of the European Association of Zoo and Wildlife Veterinarians (EAZWV)*, Chester UK, May 21–24, pp. 461–465.
- Spendlow, J. A., Nichols, J. D., Nisbet, I. C. T., Hays, H., Cormons, G. D., Burger, J., Safina, C., Hines, J. E. & Gochfeld, M. (1995). Estimating annual survival and movement rates of adults within a metapopulation of Roseate Terns. *Ecology* 76: 2415–2428.
- Stahl, P. & Artois, M. (1991). *Status and Conservation of the Wild Cat (Felis silvestris) in Europe and Around the Mediterranean Rim*. Strasbourg: Council of Europe Publishing.

- Stander, P. E. (1990). A suggested management strategy for stock-raiding lions in Namibia. *South African Journal of Wildlife Research* 20: 37–43.
- Stander, P. E. (1991a). *Aspects of the Ecology and Scientific Management of Large Carnivores in Sub-Saharan Africa*. PhD dissertation, Cambridge University, Cambridge.
- Stander, P. E. (1991b). Demography of lions in Etosha National Park, Namibia. *Madoqua* 18: 1–9.
- Stander, P. E. (1993). Conserving large African carnivores in a developing world. In *Wildlife Ranching: A Celebration of Diversity*, eds W. Van Hoven, H. Ebedes & A. Conroy, pp. 368–372. Pretoria: Promedia.
- Stander, P. E. (1998). Spoor counts as indices of large carnivore populations: the relationship between spoor frequency, sampling effort and true density. *Journal of Applied Ecology* 35: 378–385.
- Stander, P. E., Ghau, X., Tsisaba, D. & Txoma, X. (1996). A new method of darting: stepping back in time. *African Journal of Ecology* 34: 48–53.
- Stander, P. E., Haden, P. J., Kagece & Ghau (1997). The ecology of asociality in Namibian leopards. *Journal of Zoology (London)* 242: 343–364.
- Stanley, H. F., Casey, S., Carnahan, J. M., Goodman, S., Harwood, J. & Wayne, R. K. (1996). Worldwide patterns of mitochondrial DNA differentiation in the harbor seal (*Phoca vitulina*). *Molecular Biology and Evolution* 13: 368–382.
- Stanley, H. F. & Harwood, J. (1997). Genetic differentiation among subpopulations of the highly endangered Mediterranean monk seal. In *The Role of Genetics in Conserving Small Populations*, eds T. E. Tew, T. J. Crawford, J. W. Spencer, D. P. Stevens, M. B. Usher & J. Warren, pp. 97–101. Proceedings of a British Ecological Society Symposium.
- Stanley, S. M. (1979). *Macroevolution: Pattern and Process*. San Francisco: W. H. Freeman.
- Stanley Price, M. R. (1991). A review on mammal re-introductions, and the role of the Re-introduction Specialist Group of IUCN/SSC. *Symposia of the Zoological Society of London* 62: 9–25.
- Starfield, A. M., Shiell, J. D. & Smuts, G. L. (1981). Simulation of lion control strategies in a large game reserve. *Ecological Modelling* 13: 17–38.
- Stauffer, D. & Aharony, A. (1992). *Introduction to Percolation Theory*, 2nd edn. London: Taylor and Francis.
- Steadman, D. W., Pregill, G. K. & Olson, S. L. (1984). Fossil vertebrates from Antigua, Lesser Antilles: evidence for late Holocene human-caused extinctions in the West Indies. *Proceedings of the National Academy of Sciences of the United States of America* 81: 4448–4451.
- Stearns, B. P. & Stearns, S. C. (1999). *Watching from the Edge of Extinction*. New Haven, CT: Yale University Press.
- Steinmetz, R. & Mather, R. (1996). Impact of Karen villages on the fauna of Thung Yai Naresuan Wildlife Sanctuary: A participatory research project. *Natural History Bulletin of the Siam Society* 44: 23–40.
- Stenseth, N. C., Falck, W., Chan, K. S., Bjornstad, O. N., O'Donoghue, M., Tong, H., Boonstra, R., Boutin, S., Krebs, C. J. & Yoccoz, N. G. (1998). From patterns to processes: phase and density dependencies in the Canadian lynx cycle. *Proceedings of the National Academy of Sciences of the United States of America* 95: 15430–15435.

- Stephenson, R. O., Ballard, W. B., Smith, C. A. & Richardson, K. (1995). Wolf biology and management in Alaska, 1981–1992. In *Ecology and Conservation of Wolves in a Changing World*, eds L. N. Carbyn, S. H. Fritts & D. R. Seip, pp. 43–54. Canadian Circumpolar Institute, Occasional Publication No. 35.
- Sterling, B., Conley, W. & Conley, M. R. (1983). Simulations of demographic compensation in coyote populations. *Journal of Wildlife Management* **47**: 1177–1181.
- Steun, S., Have, P., Osterhaus, A. D. M. E., Arnemo, J. M. & Moustgaard, A. (1994). Serological investigation of virus infections in harp seals (*Phoca groenlandica*) and hooded seals (*Cystophora cristata*). *Veterinary Record* **134**: 502–503.
- Stirling, I., Calvert, W. & Andriashek, D. (1980). *Population Ecology Studies of the Polar Bear in the Areas of Southeastern Baffin Island*. Canadian Wildlife Service, Occasional Paper No. 44.
- Stirling, I., Pearson, A. M. & Bunnell, F. L. (1976). Population ecology studies of polar and grizzly bears in northern Canada. *Transactions of the North American Wildlife and Natural Resources Conference* **41**: 421–430.
- Stone, P. A., Snell, H. L. & Snell, H. M. (1993). Behavioural diversity as biological diversity: introduced cats and lava lizard wariness. *Conservation Biology* **8**: 569–573.
- Stoneberg, R. (1995). Tracking re-introduced black-footed ferrets in Montana, USA. *Re-Introduction News* **11**: 17–8.
- Storm, G. L., Andrews, R. D., Phillips, R. L., Bishop, R. A., Siniff, D. B. & Tester, J. R. (1976). Morphology, reproduction, dispersal and mortality of midwestern fox populations. *Wildlife Monographs* **49**: 5–82.
- Stover, J. & Evans, J. (1984). Interspecies embryo transfer of gaur (*Bos gaurus*) to domestic Holstein cattle (*Bos taurus*) at the New York Zoological Park. *Tenth International Congress on Animal Reproduction and Artificial Insemination* **2**: 243.
- Strachan, C., Jefferies, D. J., Barreto, G. R., Macdonald, D. W. & Strachan, R. (1998). The rapid impact of resident American mink on water voles: case studies in lowland England. *Symposia of the Zoological Society of London* **71**: 339–357.
- Strachan, R. & Jefferies, D. J. (1993). *The Watervole Arvicola terrestris in Britain 1989–1990: Its Distribution and Changing Status*. London: The Vincent Wildlife Trust.
- Strachan, R. & Jefferies, D. (1996). *Otter Survey of England 1991–1994. A Report on the Decline and Recovery of the Otter in England and on its Distribution, Status and Conservation in 1991–1994*. London: Vincent Wildlife Trust.
- Strachan, R., Jefferies, D. J. & Chanin, P. R. F. (1996). *Pine Marten Survey of England and Wales, 1987–1988*. Peterborough: Joint Nature Conservation Committee.
- Strickland, M. A. & Douglas, C. W. (1984). *Results of Questionnaires Sent to Trappers of Fisher and Marten in the Algonquin Region (Ontario) in Five Consecutive Years 1979 to 1983*. Toronto: Ontario Ministry for Natural Resources Report.
- Strickland, M. A. & Douglas, C. W. (1987). Marten. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 531–546. Toronto: Ontario Ministry of Natural Resources.
- Stuart, C. & Stuart, T. (1991). The feral cat problem in southern Africa. *African Wildlife* **45**: 13–15.
- Sturtevant, B. R., Bissonette, J. A. & Long, J. N. (1996). Temporal and spatial dynamics of boreal forest structure in western Newfoundland: silvicultural implications for marten management. *Forest Ecology and Management* **87**: 13–25.

- Sumner, P. W. & Hill, E. P. (1980). Scent stations as indices of abundance in some furbearers of Alabama. *Proceedings of the Annual Conference of Southeastern Association of Fish and Wildlife Agencies* 34: 572–583.
- Sunquist, M., Karanth, K. U. & Sunquist, F. (1999). Ecology, behaviour and resilience of the tiger and its conservation needs. In *Riding the Tiger – Tiger Conservation in Human-Dominated Landscapes*, eds J. Seidensticker, S. Christie & P. Jackson, pp. 5–18. Cambridge: Cambridge University Press.
- Sutherland, W. J. (1998). The importance of behavioural studies in conservation biology. *Animal Behaviour* 56: 801–809.
- Swank, W. G. & Teer, J. G. (1989). Status of the jaguar – 1987. *Oryx* 23: 14–21.
- Swanson, T. M., Barbier, E. B. (Eds) (1992). *Economics for the Wilds: Wildlife, Wildlands, Diversity and Development*. London: Earthscan Publications.
- Swart, J. A. A., Reijnders, P. J. H. & Van-Delden, W. (1996). Absence of genetic variation in harbor seals (*Phoca vitulina*) in the Dutch Wadden Sea and the British Wash. *Conservation Biology* 10: 289–293.
- Swenson, J., Gerstl, N., Dahle, B. & Zedrosser, A. (1999). *Final Draft Action Plan for Conservation of the Brown Bear (Ursus arctos) in Europe*. Strasbourg: Council of Europe Publishing.
- Swenson, J. E., Sandegren, F., Bjarvall, A., Soderberg, A., Wabakkan, P. & Franzen, R. (1994). Size, trend, distribution and conservation of the brown bear *Ursus arctos* population in Sweden. *Biological Conservation* 70: 9–17.
- Swenson, J. E., Sandergren, F., Soderberg, A. *et al.* (1997). Infanticide caused by hunting of male bears. *Nature* 386: 450–1.
- Swinton, J., Harwood, J., Grenfell, B. T. & Gilligan, C. A. (1998). Persistence thresholds for phocine distemper virus infection in harbour seal *Phoca vitulina* meta-populations. *Journal of Animal Ecology* 67: 54–68.
- Swinton, J., Tuytens, F., Macdonald, D. W., Nokes, D. J., Cheeseman, C. L. & Clifton-Hadley, R. (1997). A comparison of fertility control and lethal control of bovine tuberculosis in badgers: the impact of perturbation induced transmission. *Philosophical Transactions of the Royal Society* 264: 1–13.
- Taberlet, P. & Bouvet, J. (1992). Bear conservation genetics. *Nature* 358: 197.
- Taberlet, P. & Bouvet, J. (1994). Mitochondrial DNA polymorphism, phylogeography, and conservation genetics of the brown bear *Ursus arctos* in Europe. *Proceedings of the Royal Society of London, Series B* 255: 195–200.
- Taberlet, P., Camarra, J.-J., Griffin, S. *et al.* (1997). Non-invasive genetic tracking of the endangered Pyrenean brown bear population. *Molecular Ecology* 6: 869–876.
- Taberlet, P., Griffin, S., Goossens, B. *et al.* (1996). Reliable genotyping of samples with very low DNA quantities using PCR. *Nucleic Acids Research* 26: 3189–3194.
- Taberlet, P. & Luikart, G. (1999). Non-invasive genetic sampling and individual identification. *Biological Journal of the Linnean Society* 68: 41–55.
- Taberlet P., Swenson, J. E., Sandegren, F. & Bjarvall, A. (1995). Localization of a contact zone between two highly divergent mitochondrial DNA lineages of the brown bear *Ursus arctos* in Scandinavia. *Conservation Biology* 9: 1255–1261.
- Taberlet, P. & Waits, L. P. (1998). Non-invasive genetic sampling. *Trends in Ecology and Evolution* 13: 26–27.
- Taberlet, P., Waits, L. P. & Luikart, G. (1999). Non-invasive genetic sampling: look before you leap. *Trends in Ecology and Evolution* 14: 321–325.

- Tabor, J. E. & Wight, H. M. (1977). Population status of river otter in western Oregon. *Journal of Wildlife Management* **41**: 692–699.
- Talbot, L. M. (1959). *A Look at Threatened Species – A Report on Some Animals of the Middle East and Southern Asia which are Threatened with Extermination*. Washington DC: Fauna Preservation Society.
- Talbot, S. L. & Shields, G. F. (1996). Phylogeography of brown bears (*Ursus arctos*) of Alaska and paraphyly within the Ursidae. *Molecular Phylogenetics and Evolution* **5**: 477–594.
- Tapper, S. (1979). The effect of fluctuating vole numbers (*Microtus agrestis*) on a population of weasels (*Mustela nivalis*) on farmland. *Journal of Animal Ecology* **48**: 603–617.
- Tapper, S. & Reynolds, J. (1996). The wild fur trade: historical and ecological perspectives. In *The Exploitation of Mammal Populations*, eds V. Taylor & N. Dunstone, pp. 28–44. London: Chapman and Hall.
- Taylor, K. (1984). The influence of watercourse management on moorhen breeding biology. *British Birds* **77**: 144–148.
- Taylor, R. H. (1979). How the Macquarie Island parakeet became extinct. *New Zealand Journal of Ecology* **2**: 42–45.
- Taylor, R. H. (1984). Distribution and interactions of introduced rodents and carnivores in New Zealand. *Acta Zoologica Fennica* **172**: 103–105.
- Taylor, V. J. & Dunston, N. (1996). The exploitation, sustainable use, and welfare of wild animals. In *The Exploitation of Mammal Populations*, eds V. J. Taylor & N. Dunston, pp. 3–15. London: Chapman and Hall.
- Temple, S. A. (1990). The nasty necessity: eradicating exotics. *Conservation Biology* **4**: 113–115.
- Templeton, A. R. (1990). The role of genetics in captive breeding and reintroduction for species conservation. *Endangered Species Update* **8**: 14–17.
- Templeton, A. R. & Read, B. (1994). Inbreeding: one word, several meanings, much confusion. In *Conservation Genetics*, eds V. Loeschcke, J. Tomiuk & S. K. Jain, pp. 91–105. Birkhäuser Verlag, Basel.
- Terborgh, J. (1974). Preservation of natural diversity: the problem of extinction prone species. *BioScience* **24**: 715–22.
- Terborgh, J. (1988). The big things that run the world – a sequel to E. O. Wilson. *Conservation Biology* **2**: 402–403.
- Terborgh, J., Estes, J. A., Paquet, P., Ralls, K., Boyd-Heger, D., Miller, B. J. & Noss, R. F. (1999). The role of top carnivores in regulating terrestrial ecosystems. In *Continental Conservation: Scientific Foundations of Regional Reserve Networks*, eds M. E. Soulé & J. Terborgh, pp. 39–64. Washington: Island Press.
- Terborgh, J., Lopez, L., Tello, J., Yu, D. & Bruni, A. R. (1997). Transitory states in relaxing ecosystems of land bridge islands. In *Tropical Forest Remnants: Ecology, Management, and Conservation of Fragmented Communities*, eds W. F. Laurance & R. O. Bierregaard, Jr., pp. 256–274. Chicago: University of Chicago Press.
- Ternovskij, D. V. (1977). [*Biology of the mustelids (Mustelidae)*]. Novosibirsk: Nauka. (In Russian.)
- Tewes, M. E. & Everett, D. D. (1982). Status and distribution of the endangered ocelot and jaguarundi in Texas. In *Cats of the World: Biology, Conservation, and Management*, eds S. D. Miller & D. D. Everett, pp. 147–158. Washington, D.C.: National Wildlife Federation.

- Tewes, M. E. & Schmidly, D. J. (1987). The neotropical felids: jaguar, ocelot, margay, and jaguarundi. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 697–712. Toronto: Ontario Ministry of Natural Resources.
- Thapar, V. (1992). *The Tiger's Destiny*. London: Kyle-Cathie.
- Thapar, V. (1999). The tragedy of the Indian Tiger: starting from scratch. In *Riding the Tiger: Tiger Conservation in Human-Dominated Landscape*, eds J. Seidensticker, S. Christie & P. Jackson, pp. 296–306. Cambridge: Cambridge University Press.
- Thiel, R. P. (1985). The relationship between road densities and wolf habitat suitability in Wisconsin. *American Midland Naturalist* 113: 404–407.
- Thiel, R. P. & Ream, R. R. (1995). Status of the gray wolf in the lower 48 United States to 1992. In *Ecology and Conservation of Wolves in a Changing World*, eds L. N. Carbyn, S. H. Fritts & D. R. Seip, pp. 59–62. Edmonton: Canadian Circumpolar Institute.
- Thomas, W. L., Jr. (Ed.) (1956). *Man's Role in Changing the Face of the Earth*. Chicago: University of Chicago Press.
- Thomson, A. P. D. (1951). A history of the ferret. *Journal of the History of Medicine* 6: 471–480.
- Thomson, G. R. & Meredith, C. D. (1993). Rabies in the bat-eared fox in South Africa. *Onderstepoort Journal of Veterinary Research* 60: 3399–3403.
- Thomson, P. C., Rose, K. & Kok, N. E. (1992). The behavioral ecology of dingoes in northwestern Australia. IV. Social and spatial organization, and movements. *Wildlife Research* 19: 543–563.
- Thompson, E. & Meagher, T. (1987). Parental and sib likelihoods in genealogy reconstruction. *Biometrics* 43: 585–600.
- Thompson, I. D. (1994). Marten populations in uncut and logged boreal forests in Ontario. *Journal of Wildlife Management* 58: 272–280.
- Thompson, I. D. & Cogan, P. W. (1987). Prey choice by marten during a decline in prey abundance. *Oecologia* 83: 443–451.
- Thompson, W. L., White, G. C. & Gowan, C. (1998). *Monitoring Vertebrate Populations*. New York: Academic Press.
- Thor, G. & Pegel, M. (1992). *Zur Wiedereinbürgerung des Luchses in Baden-Württemberg*. Aulendorf: Wildforschungsstelle Baden-Württemberg, Band 2.
- Thorne, E. T. & Williams, E. S. (1988). Disease and endangered species: the black-footed ferret as a recent example. *Conservation Biology* 2: 66–74.
- Thresher, P. (1982). The lion's share. *New Scientist* 15 April.
- Thurber, J. A., Peterson, R. O., Woolington, J. D. & Vucetich, J. A. (1992). Coyote coexistence with wolves on the Kenai Peninsula, Alaska. *Canadian Journal of Zoology* 70: 2494–2498.
- Thurber, J. M. & Peterson, R. O. (1991). Changes in body size associated with range expansion in the coyote (*Canis latrans*). *Journal of Mammalogy* 72: 750–755.
- Tikel, D., Blair, D. & Marsh, H. (1996). Marine mammal faeces as a source of DNA. *Molecular Ecology* 5: 456–457.
- Tilman, D. (1986). Resources, competition and the dynamics of plant communities. In *Plant Ecology*, ed. M. J. Crawley, pp. 51–74. Oxford: Blackwell Scientific Publications.
- Tilman, D., May, R. M., Lehman, C. L. & Nowak, M. A. (1994). Habitat destruction and the extinction debt. *Nature* 371: 65–66.

- Tilson, R. & Nyhus, P. (1998). Keeping problem tigers from becoming a problem species. *Conservation Biology* 12: 261–262.
- Tilson, T. L. & Seal, U. S. (1987). *Tigers of the World*. Park Ridge, NJ: Noyes Publications.
- Tilson, R., Traylor-Holzer, K. & Miang Jiang, Q. (1997). The decline and impending extinction of the South China tiger. *Oryx* 31: 243–52.
- Tischendorf, L., Thulke, L.-H., Staubach, C. Muller, M. S., Jeltsch, F., Gorestzki, J., Selhorst, T., Muller, T., Schluter, H. & C. Wissel (1998). Chance and risk of controlling rabies in large-scale and long-term immunized fox populations. *Proceedings of the Royal Society of London, Series B* 265: 839–846.
- Tobias, M. (1998a). *World War III: Population and the Biosphere at the End of the Millennium*. New York: New York Continuum.
- Tobias, M. (1998b). *Nature's Keepers: On the Front Lines of the Fight to Save America's Wildlife*. New York: Wiley.
- Tocher, M. D., Gascon, C. & Zimmerman, B. L. (1997). Fragmentation effects on a Central American frog community: A ten-year study. In *Tropical Forest Remnants: Ecology, Management, and Conservation of Fragmented Communities*, eds W. F. Laurance & R. O. Bierregaard, pp. 124–137. Chicago: University of Chicago Press.
- Todd, A. W. (1985). Demographic and dietary comparisons of forest and farmland coyote, *Canis latrans*, populations in Alberta. *Canadian Field-Naturalist* 99: 163–171.
- Todd, A. W. & Keith, L. B. (1983). Coyote demography during a snowshoe hare decline in Alberta. *Journal of Wildlife Management* 47: 394–404.
- Todd, A. W., Keith, L. B. & Fischer, C. A. (1981). Population ecology of coyotes during a fluctuation of snowshoe hares. *Journal of Wildlife Management* 45: 629–640.
- Todd, N. B. (1978). An ecological, behavioural genetic model for the domestication of the domestic cat. *Carnivore* 1: 52–60.
- Toft, C. A., Aeschlimann, A. & Bolis, L. (1991). *Parasite–Host Associations: Coexistence or Conflict?* Oxford: Oxford University Press.
- Torres, D. & Aguayo, A. (1971). Algunas observaciones sobre la fauna del archipelago de Juan Fernandez. *Mammals. Bollettino Universidad de Chile* 112: 34–35.
- Torres, S. (1997). Mountain lion attacks on humans. *Outdoor California* 57: 10–11.
- Tough, S. C. & Butt, J. C. (1993). A review of fatal bear maulings in Alberta, Canada. *American Journal of Forensic Medicine and Pathology*, 14: 22–27.
- Towns, D. R. & Daugherty, C. H. (1994). Patterns of range contractions and extinctions in the New Zealand herpetofauna following human colonization. *New Zealand Journal of Zoology* 21: 325–339.
- Towns, D. R., Simberloff, D. & Atkinson, I. A. E. (1997). Restoration of New Zealand islands: redressing the effects of introduced species. *Pacific Conservation Biology* 3: 99–124.
- Trapp, G. R. 1978. Comparative behavioral ecology of the ringtail (*Bassariscus astutus*) and gray fox (*Urocyon cinereoargenteus*) in southwestern Utah. *Carnivore* 1: 3–32.
- Trautman, C. G., Fredrickson, L. F. & Carter, A. V. (1974). Relationship of red foxes and other predators to populations of ring-necked pheasants and other prey, South Dakota. *Transactions of the North American Wildlife Conference* 39: 214–255.

- Travaini, A., Laffitte, R. & Delibes, M. (1996). Determining the relative abundance of European red foxes by scent-station methodology. *Wildlife Society Bulletin* **24**: 500–504.
- Travaini, A., Palomeres, F. & Delibes, M. (1993). The effects of capture and recapture on space use in large grey mongooses. *South African Journal of Wildlife Research*, **23**: 95–97.
- Trent, T. T. & Rongstad, O. J. (1974). Home range and survival of cottontail rabbits in southwestern Wisconsin. *Journal of Wildlife Management* **38**: 459–472.
- Trevino, J.C. & Jonkel, C. (1986). Do grizzly bears still live in Mexico? *International Conference on Bear Research and Management* **6**: 11–13.
- Trehwella, W. J., Harris, S. & McAllister, F. E. (1988). Dispersal distance, home range size and population density in the red fox (*Vulpes vulpes*): a quantitative analysis. *Journal of Applied Ecology* **25**: 423–434.
- Truyen, U. (1999). Emergence and recent evolution of canine parvovirus. *Veterinary Microbiology* **69**: 47–50.
- Tully, R. J. (1991). Results, 1991 questionnaire on damage to livestock by mountain lion. In *Mountain Lion–Human Interactions Symposium Colorado Division of Wildlife*, ed. C. L. Braun, pp. 68–74. Denver.
- Turner, B. L., II, Clark, W. C., Kates, R. W., Richards, J. F., Mathews, J. T. & Meyer, W. B. (Eds) (1990). *The Earth as Transformed by Human Action*. Cambridge: Cambridge University Press.
- Turner, M. (1987). *My Serengeti Years*. London: Elm Tree Books.
- Tuytens, F. A. M. & Macdonald, D. W. (1998). Fertility control: An option for non-lethal control of wild carnivores? *Animal Welfare* **7**: 339–364.
- Twichell, A. R. & Dill, H. H. (1949). One hundred raccoons from one hundred and two acres. *Journal of Mammalogy* **30**: 130–133.
- Tyndale-Biscoe, C. H. (1994). Virus-vectored immunocontraception of feral mammals. *Reproduction, Fertility and Development* **6**: 281–287.
- Underhill, L. G. (1994). Optimal and sub-optimal reserve selection algorithms. *Biological Conservation* **70**: 87.
- Usher, M. B. (1988). Biological invasions of nature reserves: a search for generalisations. *Biological Conservation* **44**: 119–135.
- US CensusBureau (1998). International Data Base, world wide web: <http://www.census.gov/ipc/www/idbprint.html>
- US CensusBureau (1999). Historical census data, world wide web: <http://www.census.gov/population/www/censusdata/hiscensusdata.html>
- US Fish and Wildlife Service (1993). *Grizzly bear recovery plan*. Missoula: U.S. Fish and Wildlife Service.
- US Fish & Wildlife Service (USFWS) (1996). *Reintroduction of the Mexican Wolf Within its Historic Range in the Southwestern U.S. – Final Environmental Impact Statement*. Albuquerque, New Mexico: U.S. Department of the Interior.
- US Fish and Wildlife Service (1999). Mexican Wolf Recovery Program Web Page <http://ifw2es.fws.gov/mexicanwolf>
- Valenzuela, D., Ceballos, G. & García A. (2000). Mange epizootic in white-nosed coatis in western Mexico. *Journal of Wildlife Diseases* **36**: 56–63.
- Van Aarde, R. J. (1984). Population biology and the control of feral cats on Marion Island. *Acta Zoologica Fennica* **172**: 107–110.
- van Apeldoorn, R. C., Oostenbrink, W. T., Vanwinden, A. & van der Zee, F. F.

- (1992). Effects of habitat fragmentation on the bank vole, *Clethrionomys glareolus*, in an agricultural landscape. *Oikos* **65**: 265–74.
- Van Ballenberghe, V., Erickson, A.W. & Byman, D. (1975). Ecology of the timber wolf in northeastern Minnesota. *Wildlife Monograph* **43**: 1–43.
- van de Bildt, M. W. G., Vedder, E. J., Martina, B. E. E., AbouSidib, B., Jiddou, A. B., Barham, M. E. O., Androukaki, E., Komnenou, A., Niesters, H. G. M. & Osterhaus, A. D. M. E. (1999). Morbilliviruses in Mediterranean monk seals. *Veterinary Microbiology* **69**: 19–21.
- van der Zee, F. F., Wiertz, J., Ter Braak, C. J. F. & van Apeldoorn, R. C. (1992). Landscape change as a possible cause of the badger *Meles meles* L. decline in the Netherlands. *Biological Conservation* **61**: 17–22.
- Van Dyke, F. G., Brocke, R. H. & Shaw, H. G. (1986). Use of road track counts as indices of mountain lion presence. *Journal of Wildlife Management* **50**: 102–109.
- Van Gruisen, J. & Sinclair, T. (1992). *Fur Trade in Kathmandu: Implications for India*. New Delhi: TRAFFIC India.
- van Heerden, J., Mills, M. G. L., van Vuuren, M. J., Kelly, P. & Dreyer, M. J. (1995). An investigation into the health status and diseases of wild dogs (*Lycaon pictus*) in the Kruger National Park. *Journal of the South African Veterinary Association* **66**: 18–27.
- Van Jaarsveld, A.S., Freitag, S., Chown, S.L., Muller, C., Koch, S., Hull, H., Bellamy, C., Krüger, M., Endrödy-Younga, S., Mansell, M.W. & Scholtz, C.H. (1998). Biodiversity assessment and conservation strategies. *Science* **279**, 2106–2108.
- Van Orsdol, K. G., Hanby, J. P. & Bygott, J. D. (1985). Ecological correlates of lion social organization. *Journal of Zoology (London)* **206**: 97–112.
- Van Sickle, W. D. & Lindzey, F. G. (1991). Evaluation of a cougar population estimator based on probability sampling. *Journal of Wildlife Management* **55**: 738–743.
- Van Sickle, W. D. & Lindzey, F. G. (1992). Evaluation of road track surveys for cougars (*Felis concolor*). *Great Basin Naturalist* **52**: 232–236.
- Van Strien, A. J., van de Pavert, R., Moss, D., Yates, T. J., Van Swaay, C. A. M. & Vos, O. (1997). Statistical power of two butterfly monitoring schemes to detect trends. *Journal of Applied Ecology* **34**: 817–828.
- Van Valkenburgh, B. (1988). Trophic diversity within past and present guilds of large predatory mammals. *Paleobiology* **14**: 156–173.
- Van Valkenburgh, B. (1996). Feeding behavior in free-ranging large African carnivores. *Journal of Mammalogy* **77**: 240–254.
- Van Valkenburgh, B. (1999). Major patterns in the history of carnivorous mammals. *Annual Review of Earth Planet. Science* **27**: 463–493.
- Van Valkenburgh, B. & Janis, C. M. (1993). Historical diversity patterns in North American large herbivores and carnivores. In *Species Diversity in Ecological Communities*, eds R. E. Ricklefs & D. Schluter, pp. 230–240. Chicago: University of Chicago Press.
- Van Valkenburgh, B. & Wayne, R. K. (1994). Shape divergence associated with size convergence in sympatric east African jackals. *Ecology* **75**: 1567–1581.
- Van Vuren, B. J. & Robinson, T. J. (1997). Genetic population structure in the yellow mongoose, *Cynictis penicillata*. *Molecular Ecology* **6**: 1147–1153.
- Van Vuren, D. (1998) Mammalian dispersal and reserve design. In *Behavioral Ecology and Conservation Biology*, ed. T. Caro, pp. 369–393. New York: Oxford University Press.

- Vargas, A., Lockhart, M. & Gober, P. (1999). Adapting species management to endangered species management: black-footed ferret recovery, USA. *Re-introduction News* 18: 17–18.
- Varner, G. E. (1998). In *Nature's Interests? Interests, Animal Rights, and Environmental Ethics*. New York: Oxford University Press.
- Vedros, N. A., Smith, A. W., Schonewald, J., Migaki, G. & Hubbard, R. C. (1971). Leptospirosis epizootic among California sea lions. *Science* 172: 1250–1251.
- Veeramani, A., Jayson, E. A. & Easa, P. S. (1996). Man-wildlife conflict: cattle lifting and human casualties in Kerala. *Indian Forester* 122: 897–902.
- Veitch, C. R. (1985). Methods of eradicating feral cats from offshore islands in New Zealand. In *Conservation of Island Birds*, ed. P. J. Moors, pp. 125–141. Gland: Technical Publication No. 3 ICBP.
- Veitch, C. R. & Bell, B. D. (1990). Eradication of introduced animals from the islands of New Zealand. In *Ecological Restoration of New Zealand Islands*, eds D. R. Towns, C. H. Daugherty & I. A. E. Atkinson, pp. 137–146. Conservation Sciences Publication No. 2, Wellington: NZ Department of Conservation.
- Venables, W. N. & Ripley, B. D. (1997). *Modern Applied Statistics with S-plus*, 2nd edn. New York: Springer-Verlag.
- Venkataraman, A. B. (1995). Do dholes (*Cuon alpinus*) live in packs in response to competition with or predation by large cats? *Current Science* 69: 934–936.
- Vilà, C. & Wayne, R. K. (1999). Hybridization between wolves and dogs. *Conservation Biology* 13: 195–198.
- Vilà, C., Savolainen, P., Maldonado, J. E., Amorim, I. R., Rice, J. E., Honeycutt, R. L., Crandall, K. A., Lundeberg, J. & Wayne, R. K. (1997). Multiple and ancient origins of the domestic dog. *Science* 276: 1687–1689.
- Vilà, C., Urios, V. & Castroviejo, J. (1995). Observations on the daily activity patterns in the Iberian wolf. In *Ecology and Conservation of Wolves in a Changing World*, eds L. N. Carbyn, S. H. Fritts & D. R. Seip, pp. 335–340. Edmonton: Canadian Circumpolar Institute.
- Villafuerte, R., D. F. Luco, C. Gortazer & Blanco, J. C. (1996). Effect on red fox litter size and diet after rabbit haemorrhagic disease in north-eastern Spain. *Journal Zoology (London)* 240: 764–767.
- Vitousek, P. M. (1990). Biological invasions and ecosystem processes: towards an integration of population biology and ecosystem studies. *Oikos* 57: 7–13.
- Voigt, D. R. & Earle, B. D. (1983). Avoidance of coyotes by red fox families. *Journal of Wildlife Management* 47: 852–857.
- Voigt, D. R. & Johnston, D. H. (1992). Control of wildlife rabies in Canada: lessons for Australia. In *Wildlife Rabies Contingency Planning in Australia*, eds P. O'Brien & G. Berry, pp. 311–349. Bureau of Rural Resources Proceedings No. 11. Canberra: Australian Government Publishing Service.
- Voigt, D. R. & Macdonald, D. W. (1984). Variation in the spatial and social behaviour of the red fox, *Vulpes vulpes*. *Acta Zoologica Fennica* 171: 261–265.
- Voipio, P. (1990). The Samson fox episode in Finland in the 1930s and 1940s, and the hypothetico-deductive method. *Annales Zoologici Fennici* 27: 21–27.
- von Teichman B. F., Thomson, G. R. Meredith, C. D. & Nel, L. H. (1995). Molecular epidemiology of rabies virus in South Africa: evidence for two distinct virus groups. *Journal of General Virology* 76: 73–82.
- Vucetich, J. A. & Creel, S. (1999). Ecological interactions, social organization, and extinction risk in African wild dogs. *Conservation Biology* 13: 1172–1182.

- Wagner, F. H. & Stoddart, L. C. (1972). Influence of coyote predation on black-tailed jackrabbit populations in Utah. *Journal of Wildlife Management* **36**: 329–342.
- Waits, L., Luikart, G. & Taberlet, P. (2001). Estimating the probability of identity among genotypes in natural populations: cautions and guidelines. *Molecular Ecology* (In press).
- Waits, L. P., Talbot, S. L., Ward, R. H. & Shields, G. F. (1998). Mitochondrial DNA Phylogeography of the north American Brown Bear and implications for conservation. *Conservation Biology* **12**: 408–417.
- Wallace, R. L. & Clark, T. W. (1999). Solving problems in endangered species conservation: An introduction to problem orientation. *Endangered Species Update* **16**: 28–34.
- Walsh, P. B. & Inglis, J. M. (1989). Seasonal and diel rate of spontaneous vocalization in coyotes in south Texas. *Journal of Mammalogy* **70**: 169–171.
- Waples, K. A. & Stagoll, C. S. (1997). Ethical issues in the release of animals from captivity. *BioScience*, **47**: 115–121.
- Waples, R. (1989). A generalized approach for estimating effective population size from temporal changes in allele frequency. *Genetics* **121**: 379–391.
- Waples, R. (1991). Genetic methods for estimating the effective size of cetacean populations. *Report of the International Whaling Commission* **13** (Special Issue): 279–300.
- Ward, R. M. P. & Krebs, C. J. (1985). Behavioural responses of lynx to declining snowshoe hare abundance. *Canadian Journal of Zoology* **63**: 2817–2824.
- Waser, P. M. (1996) Patterns and consequences of dispersal in gregarious carnivores. In *Carnivore Behavior, Ecology, and Evolution*, 2nd edn, ed. J. Gittleman, pp. 267–295. Ithaca: Cornell University Press.
- Waser, P. M., Creel, S. R. & Lucas, J. R. (1994b) Death and disappearance: estimating mortality risks associated with philopatry and dispersal. *Behavioral Ecology* **5**: 135–141.
- Waser, P. M., Elliot, L. F., Creel, N. M. & Creel, S. R. (1995). Habitat variation and mongoose demography. In *Serengeti II: Dynamics Management and Conservation of an Ecosystem*, eds A. R. E. Sinclair and P. Arcese, pp. 421–447. Chicago: University of Chicago Press.
- Waser, P. M., Keane, B., Creel, S. R., Elliott, L. F. & Minchella, D. J. (1994a). Possible male coalitions in a solitary mongoose. *Animal Behavior* **47**: 289–294.
- Waser, P. M. and Strobeck, C. (1998) Genetic signatures of interpopulation dispersal. *Trends in Ecology and Evolution* **13**: 43–44.
- Watt, J. P. (1993). Ontogeny of hunting behavior of otters in a marine environment. *Symposia of the Zoological Society of London* **65**: 87–104.
- Watts, W. A. (1983). Vegetational history of the eastern United States. In *Late Quaternary Environments of the United States*, vol. 1, *The Late Pleistocene*, ed. S. C. Porter, pp. 294–310. Minneapolis: University of Minnesota Press.
- Wayne, R. K. (1992). On the use of molecular genetic characters to investigate species status. *Conservation Biology* **6**: 590–592.
- Wayne, R. K. (1996). Conservation genetics in the Canidae. In *Conservation Genetics: Case Histories from Nature*, eds J. Avise & J. Hamrick, pp. 75–118. New York: Chapman & Hall.
- Wayne, R. K., Geffen, E., Girman, D. J., Koepfli, K. P., Lau, L. M. & Marshall, C. R. (1997). Molecular systematics of the Canidae. *Systematic Biology* **46**: 622–653.

- Wayne, R. K. & Gittleman, J. L. (1995). The problematic red wolf. *Scientific American* 273: 26–31.
- Wayne, R. K. & Gottelli, D. (1997). Systematics, population genetics and genetic management of the Ethiopian wolf. In *The Ethiopian Wolf, Status Survey and Conservation Action Plan*, eds C. Sillero-Zubiri & D. Macdonald, pp. 43–50. Gland: IUCN.
- Wayne, R. K., Gilbert, D. A., Eisenhawer, A., Lehman, N., Hansen, K., Girman, D., Peterson, R. O., Mech, L. D., Gogan, P. J. P., Seal, U. S. & Krumenaker, R. J. (1991). Conservation genetics of the Isle Royale gray wolf. *Conservation Biology* 5: 41–51.
- Wayne, R. K., George, S., Gilbert, D., Collins, P. W., Kovach, S. D., Girman, D. & Lehman, N. (1991). A morphological and genetic study of the island fox, *Urocyon littoralis*. *Evolution* 45: 1849–1868.
- Wayne, R. K. & Jenks, S. M. (1991). Mitochondrial DNA analysis implying extensive hybridization of the red wolf, *Canis rufus*. *Nature* 351: 565–568.
- Wayne, R. K., Lehman, N., Allard, M. W. & Honeycutt, R. L. (1992). Mitochondrial DNA variability of the grey wolf: genetic consequences of population decline and habitat fragmentation. *Conservation Biology* 6: 559–569.
- Wayne, R. K., Kat, P. W., Fuller, T. K., Van Valkenburgh, B. & O'Brien, S. J. (1989). Genetic and morphologic divergence among sympatric canids (Mammalia: Carnivora). *Journal of Heredity* 80: 447–454.
- Wayne, R. K. & Koepfli, K. P. (1996). Demographic and historical effects on genetic variation of carnivores. In *Carnivore behavior, Ecology, and Evolution*, vol. 2, ed. J. L. Gittleman, pp. 453–484. Ithaca: Cornell University Press.
- WCMC (1998). World Conservation Monitoring Centre, <http://www.wcmc.org.uk/protected—areas/data/>
- Weaver, J. (1993). *Lynx, Wolverine, and Fisher in the Western United States: Research Assessment and Agenda*. Contract report to the US Fish and Wildlife Service, Missoula, MT.
- Weaver, J. L., Paquet, P. C. & Ruggiero, L. F. (1996). Resilience and conservation of large carnivores in the Rocky Mountains. *Conservation Biology* 10: 964–976.
- Webb, N. R. (1999). Ecology and ethics. *Trends in Ecology and Evolution* 14: 259–260.
- Webb, S. D. (1984). Ten million years of mammal extinctions in North America. In *Quaternary Extinctions*, eds P. S. Martin & R. G. Klein, pp. 189–210. Tucson: University of Arizona Press.
- Weber, D., Weber, J.-M. & Müller, H.-U. (1991). Fischotter (*Lutra lutra*) im Einzugsgebiet Schwarzwasser-Sense: Dokumentation eines erfolglosen Wiederansiedlungsprojekts. *Mitteilungen der Naturforschenden Gesellschaft (Bern)* 48: 141–152.
- Weber, J., Aubry, S., Lachat, N., Meia, J., Mermod, C. & Paratte, A. (1991). Fluctuations and behavior of foxes determined by nightlighting: preliminary results. *Acta Theriologica* 36: 285–291.
- Weber, W. & Rabinowitz, A. (1996). A global perspective on large carnivore conservation. *Conservation Biology* 10: 1046–1055.
- Webster, R. G., Bean, W. J., Gorman, O. T., Chambers, T. M. & Kawaoka, Y. (1992). Evolution and ecology of influenza-A viruses. *Microbiological Reviews* 56: 152–179.

- Weiss, J. A. (1989). The power of problem definition: the case of government paperwork. *Policy Sciences* 22: 97–121.
- Wenger, C. R. & Cringan, A. T. (1977). Biotelemetry in studying responses of coyotes to electronic sirens. *International Conference on Wildlife Biotelemetry* 1: 126–130.
- Wenger, C. R. & Cringan, A. T. (1978). Siren-elicited coyote vocalizations: an evaluation of a census technique. *Wildlife Society Bulletin* 6: 73–76.
- Wentzel, J., Stephens, J. C., Johnson, W. E., Menotti-Raymond, M., Pecon Slattery, J., Yuhki, N., Carrington, M., Quigley, H., Miquelle, D. G., Tilson, R., Manansang, J., Brady, G., Zhi, L., Wenshi, P., Shi-Quiang, H., Johnston, L., Sunquist, M., Karanth, K. U. & O'Brien, S. J. (1999). Subspecies of tigers: molecular assessment using 'voucher specimens' of geographically traceable individuals. In *Riding the Tiger: Tiger Conservation in Human-Dominated Landscapes*, eds J. Seidensticker, S. Christie & P. Jackson, pp. 40–49. Cambridge: Cambridge University Press.
- Werdelin, L. (1996). Carnivoran ecomorphology: a phylogenetic perspective. In *Carnivore Behavior, Ecology, and Evolution*, vol. 2, ed. J. L. Gittleman, pp. 582–624. Ithaca: Cornell University Press.
- West, E. W. & Rudd, R. L. (1983). Biological control of Aleutian Island arctic fox: a preliminary strategy. *International Journal for the Study of Animal Problems* 4: 305–311.
- Western, D. & Henry, W. (1979). Economics and conservation in third world national parks. *BioScience* 29: 2764–2769.
- Weyer, K., Fourie, P. B., Durrheim, D., Lancaster, J., Haslov, K. & Bryden, H. (1999). *Mycobacterium bovis* as a zoonosis in the Kruger National Park, South Africa. *International Journal of Tuberculosis and Lung Disease* 3: 1113–1119.
- Whelan, J. B., Raybourne, J., Tibbs, L. & Large, R. M. (1978). Management of black bears (*Ursus americanus*) in state and provincial parks. In *Proceedings of the 4th Eastern Black Bear Workshop*, ed. R. D. Hugie, pp. 365–375. Greenville, Maine.
- Whipple, D. (1999). Hot lynx in Vail. *Audubon*: January–February, 14.
- Whipple, J. D., Rollins, D. & Schacht, W. H. (1994). A field simulation for assessing accuracy of spotlight deer surveys. *Wildlife Society Bulletin* 22: 667–673.
- White, G. C. (1983). Numerical estimation of survival rates from band recovery and biotelemetry data. *Journal of Wildlife Management* 47: 716–728.
- White, G. C. (1996). NOREMARK: population estimation from mark-resighting surveys. *Wildlife Society Bulletin* 24: 50–52.
- White, G. C., Anderson, D. R., Burnham, K. P. & Otis, D. L. (1982). *Capture–Recapture and Removal Methods for Sampling Closed Populations*. Los Alamos Nat. Laboratory, Los Alamos, New Mexico. Rep. No. LA-8787-NERP.
- White, G. C. & Garrott, R. A. (1990). *Analysis of Radio-Tracking Data*. New York: Academic Press.
- White, N. (1999). Lynx, free speech tangle at CU. *Boulder Camera*: July 17, 1B, 4B (<http://www.buffzone.com/buffzone/news/17cflap.html>).
- White, P. J. & Garrott, R. A. (1997). Factors regulating kit fox populations. *Canadian Journal of Zoology* 75: 1982–1988.
- White, P. J. & Ralls, K. (1993). Reproduction and spacing patterns of kit foxes relative to change prey availability. *Journal of Wildlife Management* 57: 861–867.
- White, P. J., Ralls, K. & Garrott, R. A. (1994). Coyote–kit fox interactions as revealed by telemetry. *Canadian Journal of Zoology* 72: 1831–1836.

- White, P. J., Vanderbilt White, C. A. & Ralls, K. (1996). Functional and numerical responses of kit foxes to a short-term decline in mammalian prey. *Journal of Mammalogy* 77: 370–376.
- Whitman, K. L. & Packer, C. (1998). The effect of sport hunting on the population dynamics of the African lion. In: *Proceedings of a Symposium on Lions and Leopards as Game Ranch Animals.*, Ondestepoort: South African Veterinary Wildlife Group, Faculty of Veterinary Science.
- Whitmore, T. C. (1997). Tropical forest disturbance, disappearance, and species loss. In *Tropical Forest Remnants: Ecology, Management, and Conservation of Fragmented Communities*, eds W. F. Laurance & R. O. Bierregaard, Jr., pp. 3–12. Chicago: University of Chicago Press.
- Whitten, A. L., Damanik, S. J., Anwar, J. & Hisyam, N. (1987). *The Ecology of Sumatra*. Yogyakarta: Gadjah Mada University Press.
- Wielgus, R. B. & Bunnell, F. L. (1994). Dynamics of a small, hunted brown bear *Ursus arctos* population in southwestern Alberta, Canada. *Biological Conservation* 67: 161–166.
- Wielgus, R. B., Bunnell, F. L., Wakkinen, W. L. & Zager, P. E. (1994). Population dynamics of Selkirk Mountain grizzly bears. *Journal of Wildlife Management* 58: 266–272.
- Wiertz, J. (1993). Fluctuations in the Dutch badger (*Meles meles*) population between 1960 and 1990. *Mammal Review* 23: 59–64.
- Wiklund, C. G., Kjellen, N. & Isakson, E. (1998). Mechanisms determining the spatial distribution of microtine predators on the Arctic tundra. *Journal of Animal Ecology* 67: 91–98.
- Wikramanayake, E. D., Dinerstein, E., Robinson, J. G., Karanth, U., Rabinowitz, A., Olson, D., Mathew, T., Hedao, P., Conner, M., Hemley, G. & Bolze, D. (1998). An ecology-based method for defining priorities for large mammal conservation: The tiger as case study. *Conservation Biology* 12: 865–878.
- Wilcove, D. S., Rothstein, D., Dubow, J., Phillips, A. & Losos, E. (1998). Quantifying threats to imperiled species in the United States. *BioScience* 48: 607–615.
- Wildt, D. E. (1994). Endangered species spermatozoa: diversity, research and conservation. In *Function of Somatic Cells in the Testis*: ed. A. Bartke, pp. 1–23. New York: Springer-Verlag.
- Wildt, D. E., Brown, J. L., Barone, M. A., Cooper, K. A., Grisham, J., Bush, M. & Howard, J. G. (1993). Reproductive status of cheetahs (*Acinonyx jubatus*) in North American zoos: the benefits of physiological surveys for strategic planning. *Zoo Biology* 12: 45–80.
- Wildt, D. E., Brown, J. L. & Swanson, W. F. (1998). Reproduction in cats. In *Encyclopedia of Reproduction*: eds E. Knobil & J. Neill, pp. 497–510. New York: Academic Press.
- Wildt, D. E., Bush, M., Goodrowe, K. L., Packer, C., Pusey, A. E., Brown, J. L., Joslin, P., & O'Brien, S. J. (1987a). Reproductive and genetic consequences of founding isolated lion populations. *Nature* 329: 328–31.
- Wildt, D. E., Bush, M., Howard, J. G., O'Brien, S. J., Meltzer, D., van Dyk, A., Ebedes, H. & Brand, D. J. (1983). Unique seminal quality in the South African cheetah and a comparative evaluation in the domestic cat. *Biology of Reproduction*: 29: 1019–25.

- Wildt, D. E., Bush, M., Morton, C., Morton, F. & Howard, J. G. (1989). Semen characteristics and testosterone profiles in ferrets kept in long-day photoperiods, and the influence of hCG timing and sperm dilution on pregnancy rate after laparoscopic artificial insemination. *Journal of Reproduction and Fertility* **86**: 349–358.
- Wildt, D. E., Donoghue, A. M., Johnston, L. A., Schmidt, P. M. & Howard, J. G. (1992). Species and genetic effects on the utility of biotechnology for conservation. In *Biotechnology and the Conservation of Genetic Diversity*: eds H. D. M. Moore, W. V. Holt & G. M. Mace, pp. 45–61. Oxford: Clarendon Press.
- Wildt, D. E., O'Brien, S. J., Howard, J. G., Caro, T. M., Roelke, M. E., Brown, J. L. & Bush, M. (1987b). Similarity in ejaculate-endocrine characteristics in captive versus free-ranging cheetahs of two subspecies. *Biology of Reproduction* **36**: 351–360.
- Wildt, D. E., Phillips, L. G., Simmons, L. G., Chakraborty, P. K., Brown, J. L. & Howard, J. G. (1988). A comparative analysis of ejaculate and hormonal characteristics of the captive male cheetah, tiger, leopard and puma. *Biology of Reproduction* **38**: 245–255.
- Wildt, D. E., Rall, W. F., Critser, J. K., Monfort, S. L. & Seal, U. S. (1997). Genome resource banks: 'living collections' for biodiversity conservation. *BioScience* **47**: 689–98.
- Wildt, D. E., Schiewe, M. C., Schmidt, P. M., Goodrowe, K. L., Howard, J. G., Phillips, L. G., O'Brien, S. J. & Bush, M. (1986). Developing animal model systems for embryo technologies in rare and endangered wildlife. *Theriogenology* **25**: 33–51.
- Wildt, D. E. & Wemmer, C. (1999). Sex and wildlife: the role of reproductive science in conservation. *Biodiversity and Conservation* **8**: 965–976.
- Wilkie, D. S., Curran, B., Tshombe, R. & Morelli, G. A. (1998). Managing bushmeat hunting in Okapi Wildlife Reserve, Democratic Republic of Congo. *Oryx* **32**: 131–144.
- Wilkins, L., Arias-Reveron, J. M., Stith, B. M., Roelke, M. E. & Belden, R. C. (1997). The Florida panther *Puma concolor coryi*: a morphological investigation of the subspecies with a comparison to other North and South American cougars. *Bulletin of the Florida Museum of Natural History* **40**: 221–269.
- Wilkinson, T. (1998). *Science Under Siege*. Boulder, CO: Johnson Books.
- Willard, A. R. & Norchi, C. (1993). The decision seminar as an instrument of power and enlightenment. *Political Psychology* **14**: 575–606.
- Willers, B. (1994). Sustainable development: a new world deception. *Conservation Biology* **8**: 146–1148.
- Williams, E. S. & Thorne, E. T. (1996). Infectious and parasitic diseases of captive carnivores, with special emphasis on the black-footed ferret (*Mustela nigripes*). *Revue Scientifique et Technique de l'Office National des Epizootes* **15**: 91–114.
- Williams, E. S., Thorne, E. T., Appel, M. J. G. & Belitsky, D. W. (1988). Canine distemper in black footed ferrets (*Mustela nigripes*) from Wyoming. *Journal of Wildlife Diseases* **24**: 385–398.
- Williams, E. S., Thorne, E. T., Kwiatkowski, D. R. & Oakleaf, B. (1992). Overcoming disease problems in the black-footed ferret recovery program. *Trans. 57th N.A. Wildl. & Nat. Res. Conf.* pp. 474–485.

- Williams, O. & McKegg, J. (1987). Nuisance furbearer management programs for urban areas. In *Wild Furbearer Management and Conservation in North America*, eds M. Novak, J. A. Baker, M. E. Obbard & B. Malloch, pp. 156–163. North Bay: Ontario Trappers Association.
- Williams, P. (1998). Key sites for conservation: area-selection methods for biodiversity. In *Conservation in a Changing World*, eds G. M. Mace, A. Balmford & J. R. Ginsberg, pp. 211–250. Cambridge: Cambridge University Press.
- Williams, P., Gibbons, D., Margules, C., Rebelo, A., Humphries, C. & Pressey, R. (1996). A comparison of richness hotspots, rarity hotspots, and complementary areas for conserving diversity of British birds. *Conservation Biology* 10: 155–174.
- Williamson, M. (1993). Invaders, weeds and the risk from genetically modified organisms. *Experientia* 49: 219–214.
- Williamson, M. (1996). *Biological Invasions*. London: Chapman & Hall.
- Williamson, M. (1999). Invasions. *Ecography* 22: 5–12.
- Williamson, M. & Brown, K. C. (1986). The analysis and modelling of British invasions. *Philosophical Transactions of the Royal Society B* 314: 505–522.
- Williamson, M. & Fitter, A. (1996). The varying success of invaders. *Ecology* 77: 1661–1666.
- Wilson, D. E., Cole, F. R., Nichols, J. D., Rudran, R. & Foster, M. S. (Eds) (1996). *Measuring and Monitoring Biological Diversity: Standard Methods for Mammals*. Washington, DC: Smithsonian Institution Press.
- Wilson, D. E. & Reeder, D.-A. (Eds) (1993). *Mammal Species of the World*. Washington DC: Smithsonian Institution Press.
- Wilson, E. O. (1987). Causes of ecological success: the case of ants. *Journal of Animal Ecology* 56: 1–9.
- Wilson, P. J., Grewal, S., Lawford, I. D., Heal, J. N. M., Granacki, A. G., Pennock, D., Theberge, J. B., Theberge, M. T., Voigt, D. R., Waddell, W., Chambers, R. E., Paquet, P. C., Goulet, G., Cluff, D., White, B. N. (2000). DNA profiles of the eastern Canadian wolf and the red wolf provide evidence for a common evolutionary history independent of the gray wolf. *Canadian Journal of Zoology* 78: 2156–2166.
- Windberg, L. A. (1995). Demography of a high-density coyote population. *Canadian Journal of Zoology* 73: 942–954.
- Winkler, W. G. (1975). Fox rabies. In *The Natural History of Rabies*, eds Baer, G. M., pp. 3–22. New York: Academic Press.
- Wise, M. H., Linn, I. J. & Kennedy, C. R. (1981). A comparison of the feeding biology of mink (*Mustela vison*) and otter (*Lutra lutra*). *Journal of Zoology (London)* 195: 181–213.
- With, K. A. & Crist, T. O. (1995). Critical thresholds in species' responses to landscape structure. *Ecology* 76: 2446–2459.
- Wolch, J. & Emel, J. (Eds) (1998). *Animal Geographies: Place, Politics, and Identity in the Nature-Culture Borderlands*. New York: Verso.
- Wolf, C. M., Garland, T. & Griffith, B. (1998a). Predictors of avian and mammalian translocation success: reanalysis with phylogenetically independent contrasts. *Biological Conservation* 86: 243–255.
- Wolf, C.M., Griffith, B., Reed, C. & Temple, S.A. (1996). Avian and mammalian translocations: update and reanalysis of 1987 survey data. *Conservation Biology* 10: 1142–1154.

- Wolf, K., Wildt, D. E., Vargas, A., Marinari, P., Williamson, L., Ottinger, M. A. & Howard, J. G. (1998b). Compromised reproductive efficiency in male black-footed ferrets. *Proceedings of the American Society of Andrology*: Abstract 79.
- Wolfe, M. L. & Allen, D. L. (1973). Continued studies of the status, socialization, and relationships of Isle Royale wolves, 1967–1970. *Journal of Mammalogy* **54**: 611–635.
- Wong J., Stewart, P. D. & Macdonald, D. W. (1999). Vocal repertoire in the European badger (*Meles meles*): structure, context and function. *Journal of Mammalogy* **80**: 570–588.
- Woodford, M. H. & Kock, R. A. (1991). Veterinary considerations in re-introduction and translocation projects. *Symposia of the Zoological Society of London* **62**: 101–110.
- Woodford, M. H. & Rossiter, P. B. (1994). Disease risks associated with wildlife translocation projects. In: *Creative Conservation: Interactive Management of Wild and Captive Animals*, eds P. Olney, G. Mace & A. Feistner. London: Chapman & Hall.
- Wooding, J. B. & Hardisky, T. S. (1990). Coyote distribution in Florida. *Florida Field Naturalist* **18**: 12–14.
- Wooding, S. & Ward, R. (1997). Phylogeography and Pleistocene evolution in the North American black bear. *Molecular Biology and Evolution* **14**: 1096–1105.
- Woodley, T. H. & Lavigne, D. M. (1993). Potential effects of incidental mortalities on the Hooker's sea lion (*Phocartos hookeri*) population. *Aquatic Conservation and Marine and Freshwater Ecosystems* **3**: 139–148.
- Woodroffe, R. (1997). The conservation implications of immobilizing, radio-collaring and vaccinating free-ranging wild dogs. In *The African Wild Dog. Status and Conservation Action Plan*, eds R. Woodroffe, J. R. Ginsberg & D. W. Macdonald, pp. 124–138. Gland: IUCN/SSC Canid Specialist Group.
- Woodroffe, R. (1999a). Conserving the African wild dog *Lycaon pictus*. I. Diagnosing and treating causes of decline. *Oryx* **33**: 132–142.
- Woodroffe, R. (1999b). Conserving the African wild dog *Lycaon pictus*. II. Is there a role for reintroduction? *Oryx* **33**: 143–151.
- Woodroffe, R. (1999c). Managing disease threats to wild mammals. *Animal Conservation* **2**: 185–193.
- Woodroffe, R. (2000). Predators and people: using human densities to interpret decline of large carnivores. *Animal Conservation* **3**: 165–173.
- Woodroffe, R. & Ginsberg, J. R. (1997a). Country-country action plans for wild dog conservation. In *The African Wild Dog: Status Survey and Conservation Action Plan*, eds R. Woodroffe, J. R. Ginsberg & D. W. Macdonald, pp. 118–123. Gland: IUCN.
- Woodroffe, R. & Ginsberg, J. R. (1997b). Past and future causes of wild dogs' population decline. In *The African Wild Dog: Status Survey and Conservation Action Plan*, eds R. Woodroffe, J. R. Ginsberg & D. W. Macdonald, pp. 58–74. Gland: IUCN.
- Woodroffe, R. & Ginsberg, J. R. (1997c). The role of captive breeding and reintroduction in wild dog conservation. In *The African Wild Dog. Status and Conservation Action Plan*, eds R. Woodroffe, J. R. Ginsberg & D. Macdonald, pp. 100–111. Gland: IUCN/SSC Canid Specialist Group.
- Woodroffe, R. & Ginsberg, J. R. (1998). Edge effects and the extinction of populations inside protected areas. *Science* **280**: 2126–2128.

- Woodroffe, R. B. & Ginsberg, J. R. (1999). Conserving the African Wild Dog, *Lycaon pictus*. I. Diagnosing and treating causes of decline. *Oryx* 33: 132–142.
- Woodroffe, R. & J. R. Ginsberg (2000). Ranging behaviour and vulnerability to extinction in carnivores. In *Behaviour and Conservation*, eds L. M. Gosling & W. J. Sutherland, pp. 125–140. Cambridge: Cambridge University Press.
- Woodroffe, R., Ginsberg, J. & Macdonald, D. (1997). *The African Wild Dog, Status Survey and Conservation Action Plan*. Gland: IUCN.
- Woodroffe, R. & Macdonald, D. W. (1993). Badger sociality and models of spatial grouping. *Symposia of the Zoological Society of London* 65: 145–169.
- Woodroffe, R. & Macdonald, D. W. (1995). Female/female competition in European badgers (*Meles meles*): effects on breeding success. *Journal of Animal Ecology* 64: 12–20.
- Woodroffe, R. & Macdonald, D. W. (2000). Helpers provide no detectable benefits in the European badger, *Meles meles*. *Journal of Zoology (London)* 250: 113–119.
- Woods, J., Paetkau, D., Lewis, D., McLellan, B., Proctor, M. & Strobeck, C. (1999). Genetic tagging free-ranging black and brown bears. *Wildlife Society Bulletin*: 27: 616–627.
- Wozencraft, W. C. (1993). Order Carnivora. In *Mammal Species of the World: A Taxonomic and Geographic Reference*, eds D. E. Wilson & D. M. Reeder, pp. 279–348. Washington, DC: Smithsonian.
- Wright, M. (1996). *Ecotourism on Otago Peninsula. Preliminary Studies of Two Species, yellow-eyed penguins (Megadyptes antipodes) and Hooker's Sea Lion (Phocartos hookeri)*. Wellington: New Zealand Department of Conservation report, Science for Conservation No. 68. N. Z. Department of Conservation.
- Wright, S. (1931). Evolution in Mendelian populations. *Genetics* 16: 97–159.
- Wright, S. (1951) The genetical structure of populations. *Annals of Eugenics* 15: 323–354.
- Wright, S. (1977). *Evolution and the Genetics of Populations: Experimental Results and Evolutionary Deductions*. Chicago: The University of Chicago Press.
- Wright, S. J., Gompper, M. E. & DeLeon, B. (1994). Are large predators keystone species in neotropical forests – the evidence from Barro-Colorado Island. *Oikos* 71: 279–294.
- Wydeven, A. P., Schultz, R. N. & Thiel, R. P. (1995). Monitoring of a recovering gray wolf population in Wisconsin, 1979–1991. Pp. 147–156 In *Ecology and Conservation of Wolves in a Changing World*, eds L. N. Carbyn, S. H. Fritts & D. R. Seip, pp. 147–156. Edmonton, Alberta: Canadian Circumpolar Institute.
- WRI (1998). *World Resources 1998–1999*. Oxford: Oxford University Press.
- Yadvendradew, V. J. (1994). Predation on blackbuck by wolves in Veladar National Park, Gujarat, India. *Conservation Biology* 7: 874–881.
- Yahner, R. H. (1988). Changes in wildlife communities near edges. *Conservation Biology* 2: 333–339.
- Yahnke, C. J., Johnson, W. E., Geffen, E., Smith, D., Hertel, F., Roy, M. S., Bonacic, C. F., Fuller, T. K., Van Valkenburgh, B. & Wayne, R. K. (1996). Darwin's fox: a distinct endangered species in a vanishing habitat. *Conservation Biology* 10: 366–375.
- Yalden, D. W. (1982). When did the mammal fauna of the British Isles arrive? *Mammal Review* 12: 1–57.

- Yalden, D. W. (1993). The problems of reintroducing carnivores. *Symposia of the Zoological Society of London* 65: 289–306.
- Yamazaki, K. (1996). Social variation of lions in a male-depopulated area in Zimbabwe. *Journal of Wildlife Management* 60: 490–497.
- Yaska (1997). *Wolves, Bears and Their Prey in Alaska*. Washington, DC: National Academy Press.
- Yazan, Y. & Knorre, Y. (1964). Domesticating elk in a Russian national park. *Oryx* 14: 301–304.
- Young, S. P. & Goldman, E. A. (1944). *The Wolves of North America*. Washington DC: The American Wildlife Institute.
- Young, T. P. (1994). Natural die-offs of large mammals – implications for conservation. *Conservation Biology* 8: 410–418.
- Yuhki, N. & O'Brien, S. J. (1990). DNA variation of the mammalian major histocompatibility complex reflects genomic diversity and population history. *Proceedings of the National Academy of Sciences, USA* 87: 836.
- Zalewski, A., Jedrezejewski, W. & Jedrezejewska, B. (1995). Pine marten home ranges, numbers and predation on vertebrates in a deciduous forest (Bialowieza National Park, Poland). *Annales Zoologici Fennici* 32: 131–144.
- Zhang, Y. P. & Ryder, O. A. (1994). Phylogenetic relationships of bears (the Ursidae) inferred from mitochondrial DNA sequences. *Molecular Phylogenetics and Evolution* 3: 351–359.
- Zielinski, W. J. (1995). Track plates. In *American Marten, Fisher, Lynx, and Wolverine: Survey Methods for their Detection*, USDA For. Serv. Gen. Tech. Rep. PSW-GTR-157. eds W. J. Zielinski & T. E. Kucera, pp. 67–89.
- Zielinski, W. J. & Stauffer, H. B. (1996). Monitoring *Martes* populations in California: survey design and power analysis. *Ecological Applications* 6: 1254–1267.
- Zielinski, W. J. & Truex, R. (1995). Distinguishing tracks of closely-related species. *Journal of Wildlife Management* 59: 571–579.
- Zimen, E. (1984). Long range movements of the red fox *Vulpes vulpes* L. *Acta Zoologica Fennica* 171: 267–270.
- Zimmerman, M. E., Callicott, J. B., Sessions, G., Warren, K. J. & Clark, J. (Eds.) (1993). *Environmental Philosophy: From Animal Rights to Radical Ecology*. New York: Prentice-Hall.